

# **JANIS Book**

## **of proton-induced cross-sections**

Comparison of evaluated and experimental data from

ENDF/B-VII.1, JENDL/HE-2007, PADF-2007, TENDL-2011 and EXFOR

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OECD NEA Data Bank

## Introduction

This document compares evaluated cross-sections below 200 MeV with corresponding experimental data from the EXFOR database for a number of evaluated libraries (Table 1), nuclear reactions and associated reaction products (Table 2). This document was produced using tools based on the NEA Java-based nuclear information software (JANIS) and associated databases [1].

Caveat: When studying plots, please take into account that the energy resolution of experimental data is not always comparable with the resolution of the evaluated data.

## Graphical comparison of nuclear data

Experimental data sets are identified by their EXFOR entry number. All experimental data are plotted on the graph but the legend will ignore all of them if there are more than 20 data sets.

Evaluated data are plotted with full lines for exclusive cross-sections explicitly defined by a MT number, whereas dashed lines indicate residual production cross-sections given in MT5. A star '\*' after the name of the library indicates additional operations performed by JANIS, e.g. summation over the ground and metastable yields, reconstruction of residual production cross-sections over the whole energy range.

The data are plotted in log-log scale (on the left hand side) and lin-log scale (on the right hand side). The best representation depends on the Q value of the reaction and/or the magnitude of the variation in the cross-section values.

## Table of reactions and Q values

In order to identify individual contributions in residual production cross-sections, reactions leading to the same product are listed along with their associated Q values. The latter are calculated using mass excess from the 2003 Nubase and Atomic Mass Evaluation [2].

## Navigation in this document

The data are sorted by element, then by isotope and finally by reaction. In order to facilitate access to the information, two navigation modes are available in addition to the usual bookmark. At the top of each page, on the first row, the previous (<<) and next (>>) "Isotope links" allow the reader to move from one isotope to another while staying on the same MT reaction. On the second row, the "MT links" allow scanning all reactions of a given isotope. The latter navigation mode is actually similar to the use of the page up and page down keys.

## References

- [1] N. Soppera *et al.*, *Journal of the Korean Physical Society*, 59 (2011) 1329. See also [www.oecd-nea.org/janis](http://www.oecd-nea.org/janis).
- [2] G. Audi, A.H. Wapstra, *et al.*, *Nuclear Physics A* 729 (2003) 3-676.

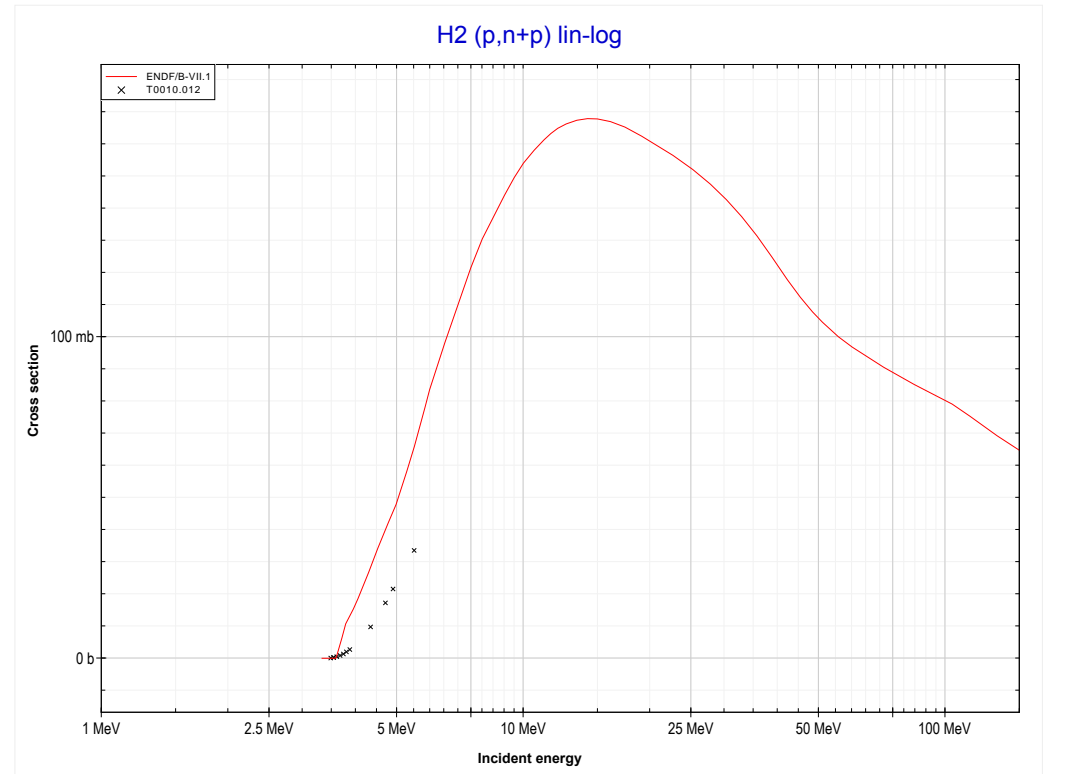
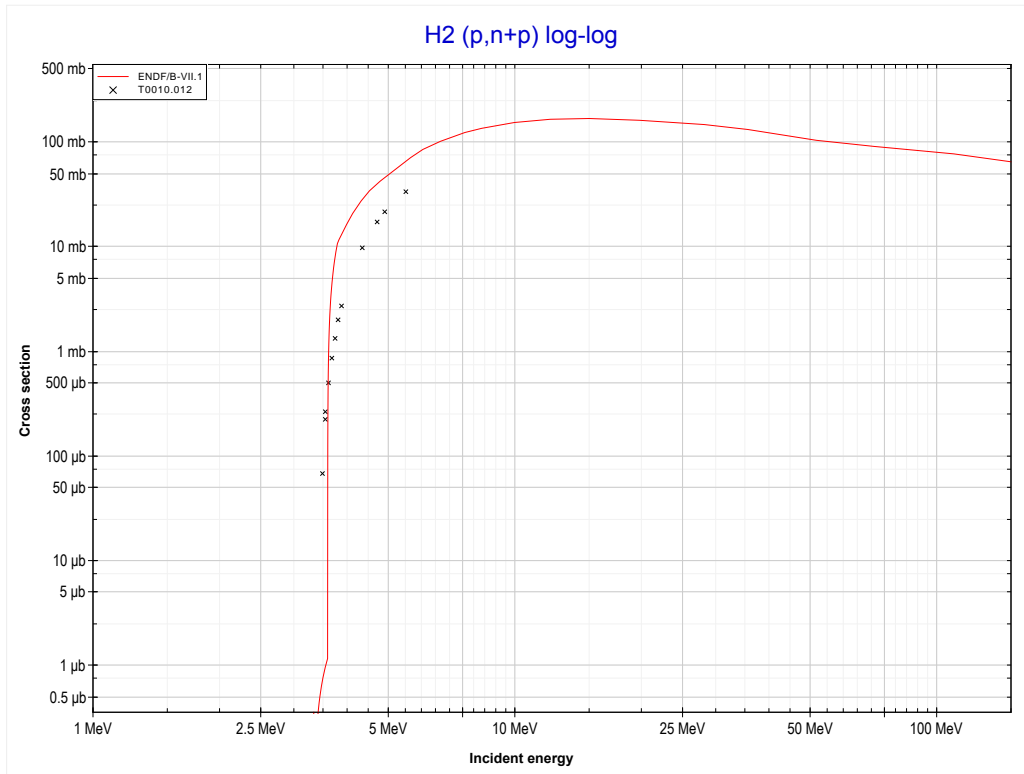
Table 1: list of databases used in the inter-comparison

Library	Release date
ENDF/B-VII.1	December 2011
JENDL/HE-2007	2007
PADF-2007	January 2007
TENDL-2011	December 2011
EXFOR	May 2012

Table 2: list of exclusive reactions used in the inter-comparison

MT	Reaction	MT	Reaction	MT	Reaction	MT	Reaction
4	n	102	gamma	159	2n+p+a	181	3n+p+a
11	2n+d	103	p	160	7n	182	d+t
16	2n	104	d	161	8n	183	n+p+d
17	3n	105	t	162	5n+p	184	n+p+t
18	fission	106	h	163	6n+p	185	n+d+t
22	n+a	107	a	164	7n+p	186	n+p+h
23	n+3a	108	2a	165	4n+a	187	n+d+h
24	2n+a	109	3a	166	5n+a	188	n+t+h
25	3n+a	111	2p	167	6n+a	189	n+t+a
28	n+p	112	p+a	168	7n+a	190	2n+2p
29	n+2a	113	t+2a	169	4n+d	191	p+h
30	2n+2a	114	d+2a	170	5n+d	192	d+h
32	n+d	115	p+d	171	6n+d	193	h+a
33	n+t	116	p+t	172	3n+t	194	4n+2p
34	n+h	117	d+a	173	4n+t	195	4n+2a
35	n+d+2a	152	5n	174	5n+t	196	4n+p+a
36	n+t+2a	153	6n	175	6n+t	197	3p
37	4n	154	2n+t	176	2n+h	198	n+3p
41	2n+p	155	t+a	177	3n+h	199	3n+2p+a
42	3n+p	156	4n+p	178	4n+h	200	5n+2p
44	n+2p	157	3n+d	179	3n+2p		
45	n+p+a	158	n+d+a	180	3n+2a		

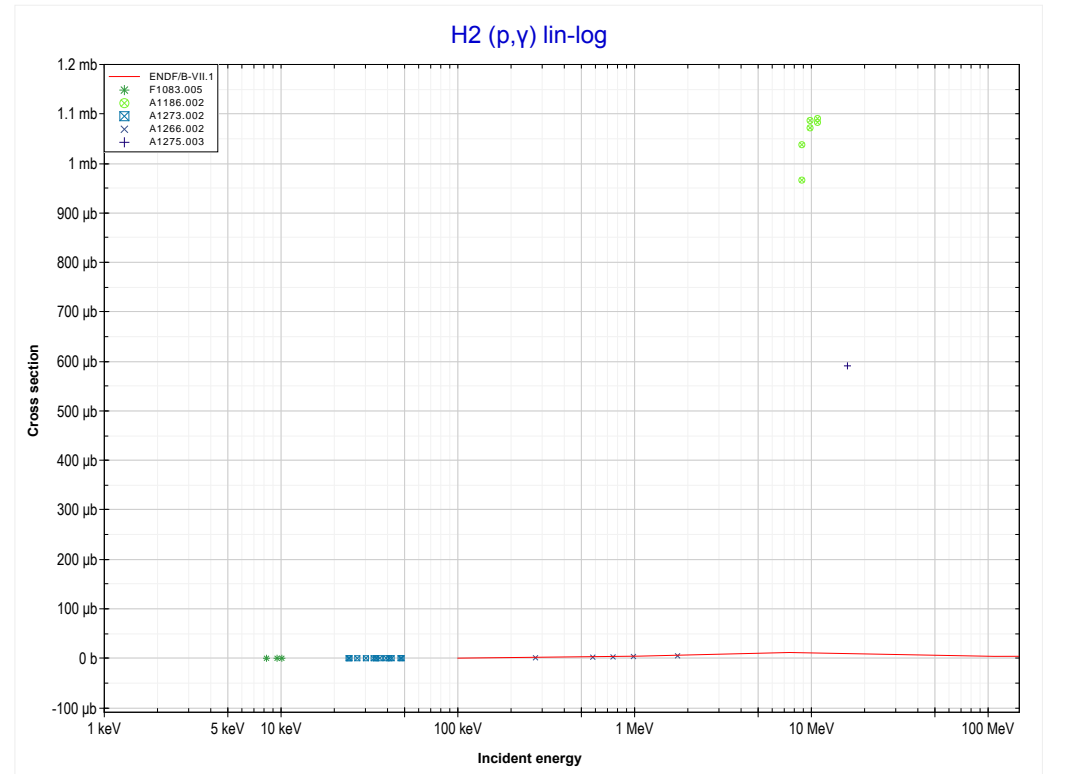
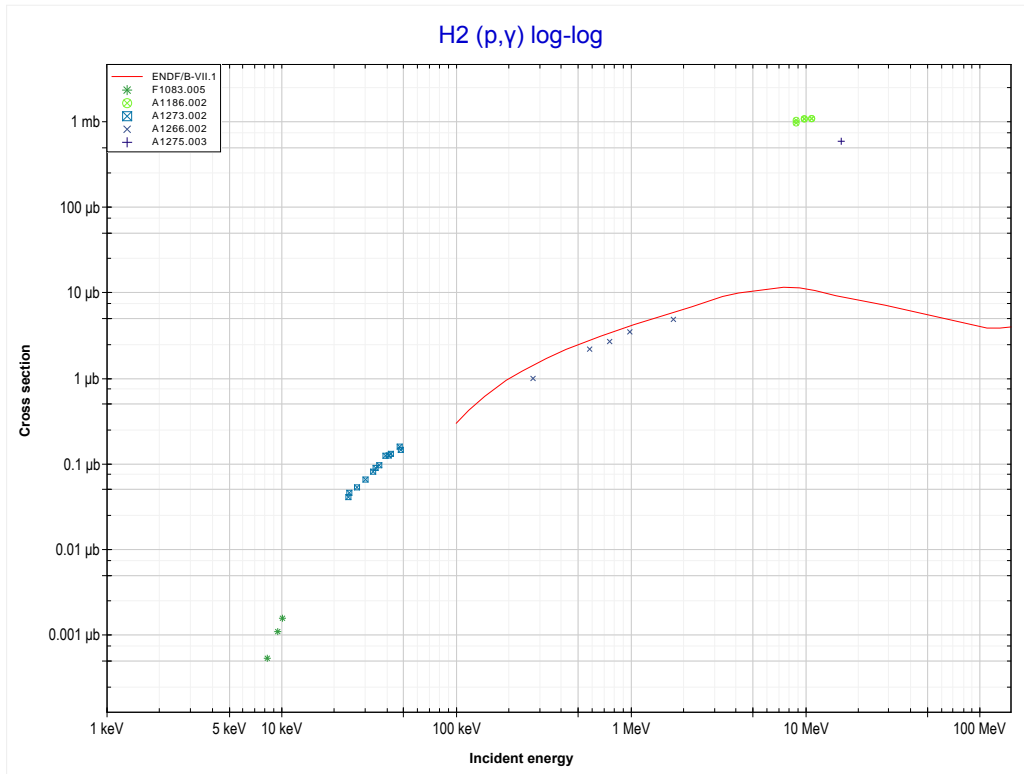
	<b>1-H-2</b>	6-C-12 >>
<< MT103 (p,p)	<b>MT28 (p,n+p) or MT5 (H1 production)</b>	MT102 (p, $\gamma$ ) >>



Reaction	Q-Value
H2(p,d)H1	0.00 keV
H2(p,n+p)H1	-2224.57 keV

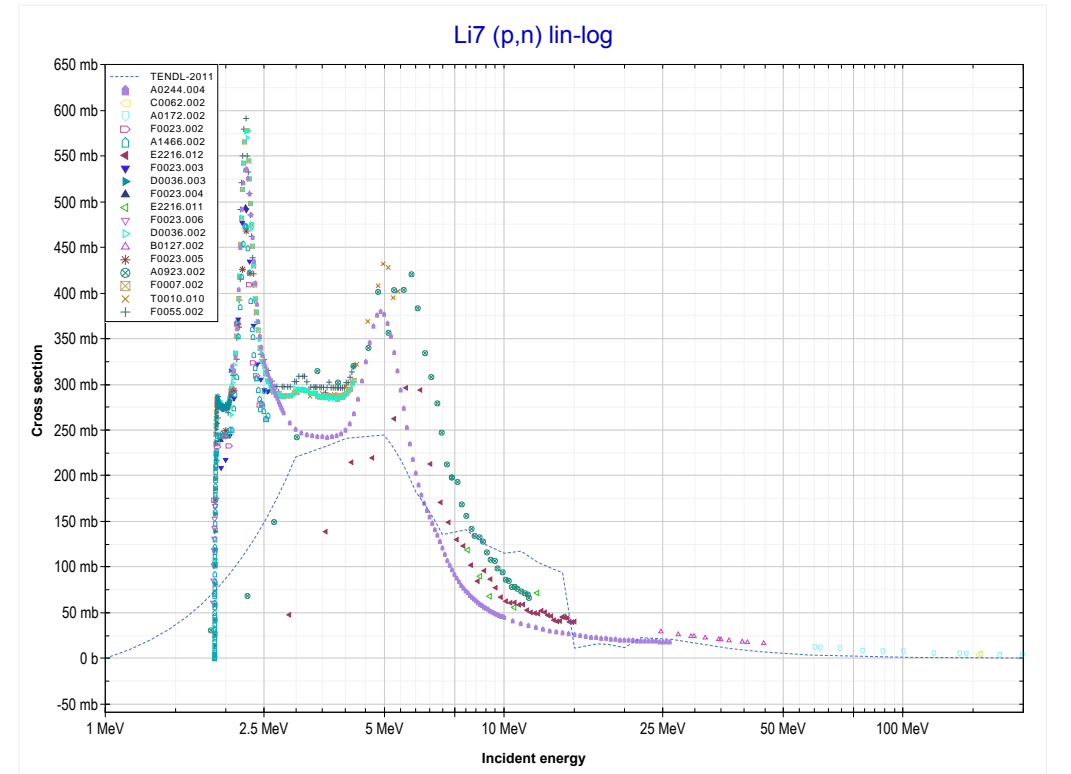
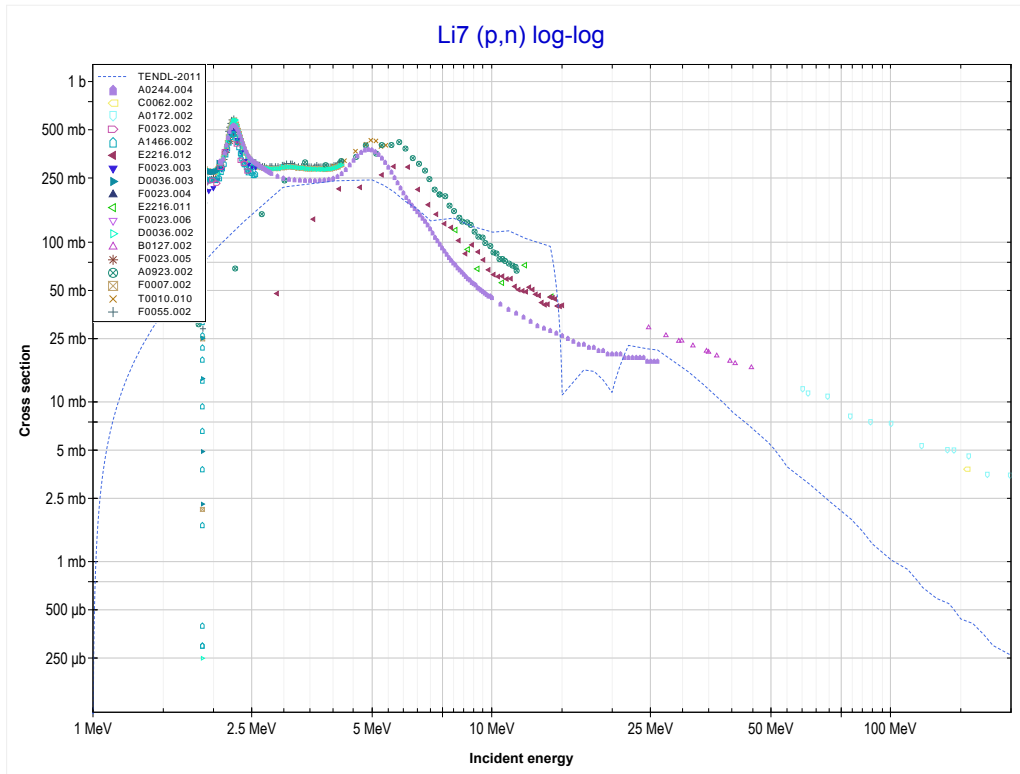


	<b>1-H-2</b>	3-Li-7 >>
<< MT28 (p,n+p)	<b>MT102 (p,<math>\gamma</math>) or MT5 (He3 production)</b>	MT4 (p,n) >>



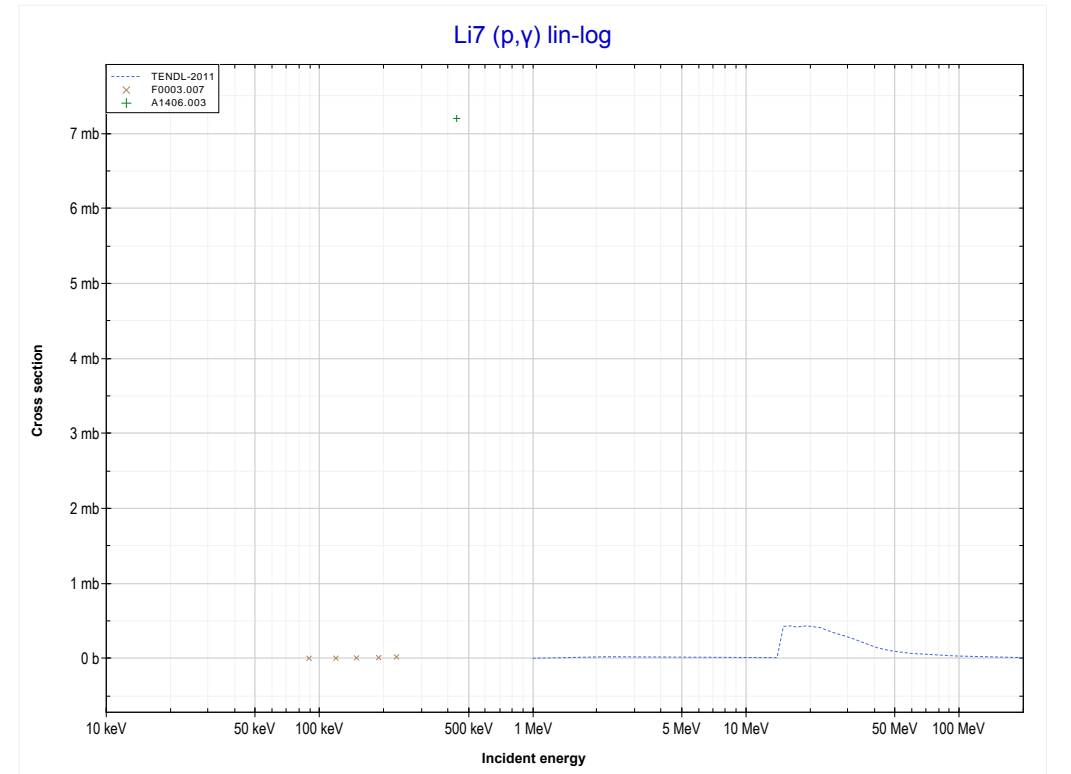
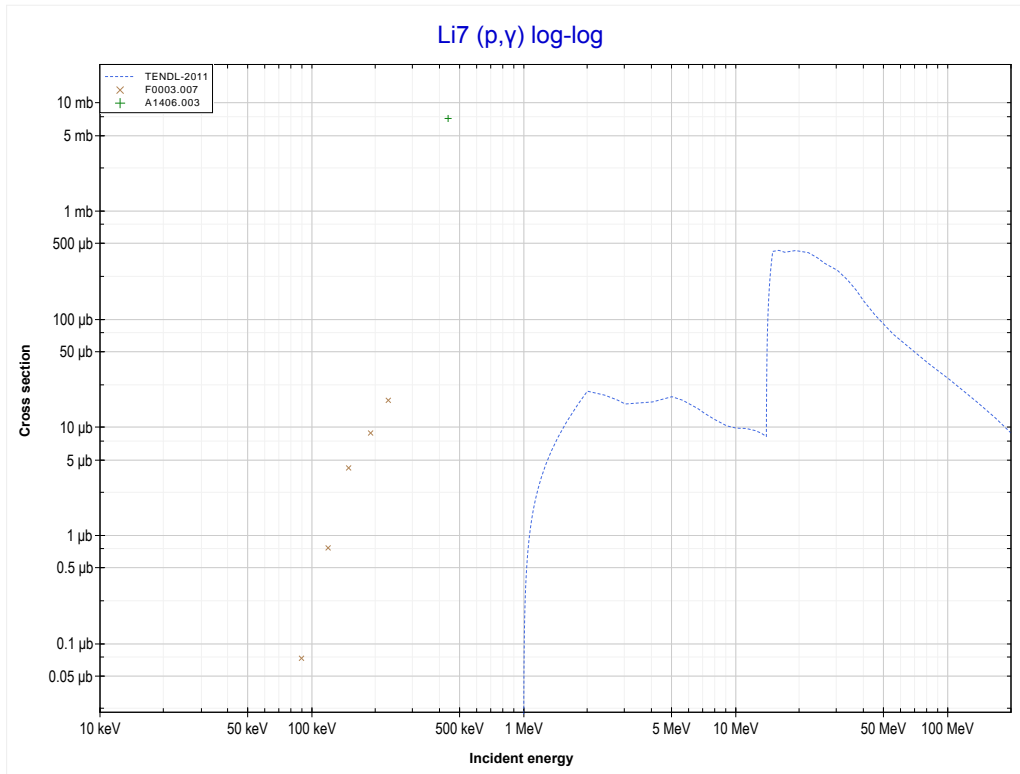
Reaction	Q-Value
H2(p, $\gamma$ )He3	5493.48 keV

	<b>3-Li-7</b>	4-Be-9 >>
<< MT102 (p, $\gamma$ )	<b>MT4 (p,n) or MT5 (Be7 production)</b>	MT102 (p, $\gamma$ ) >>



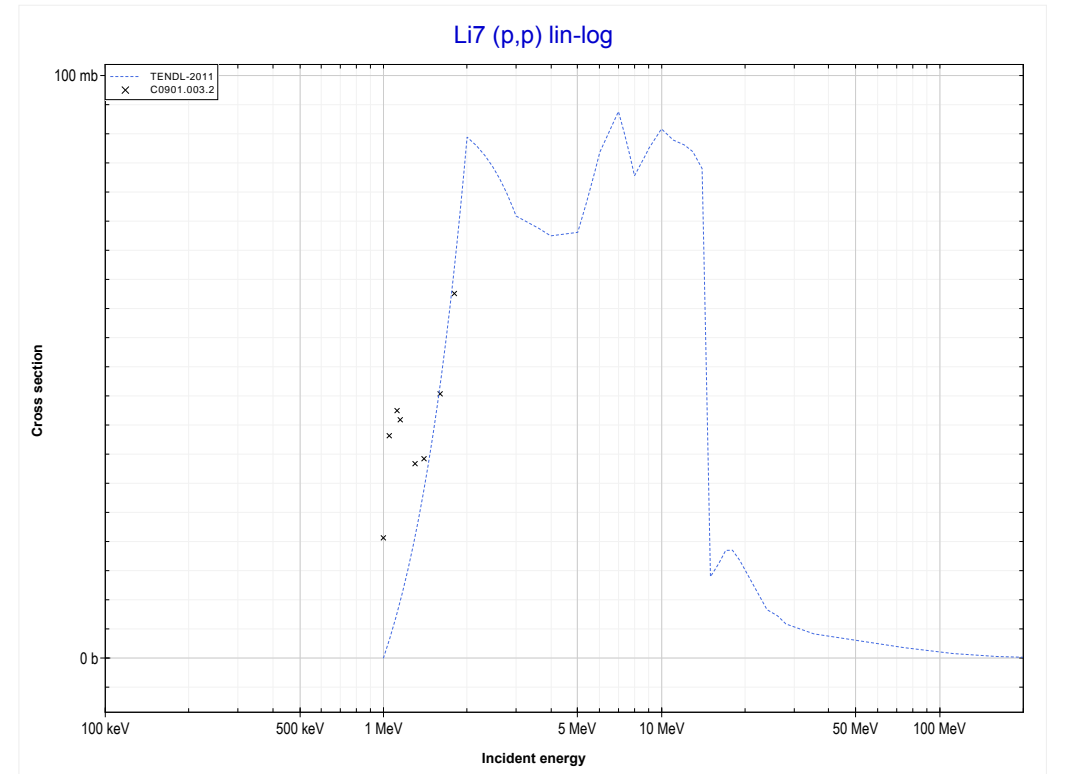
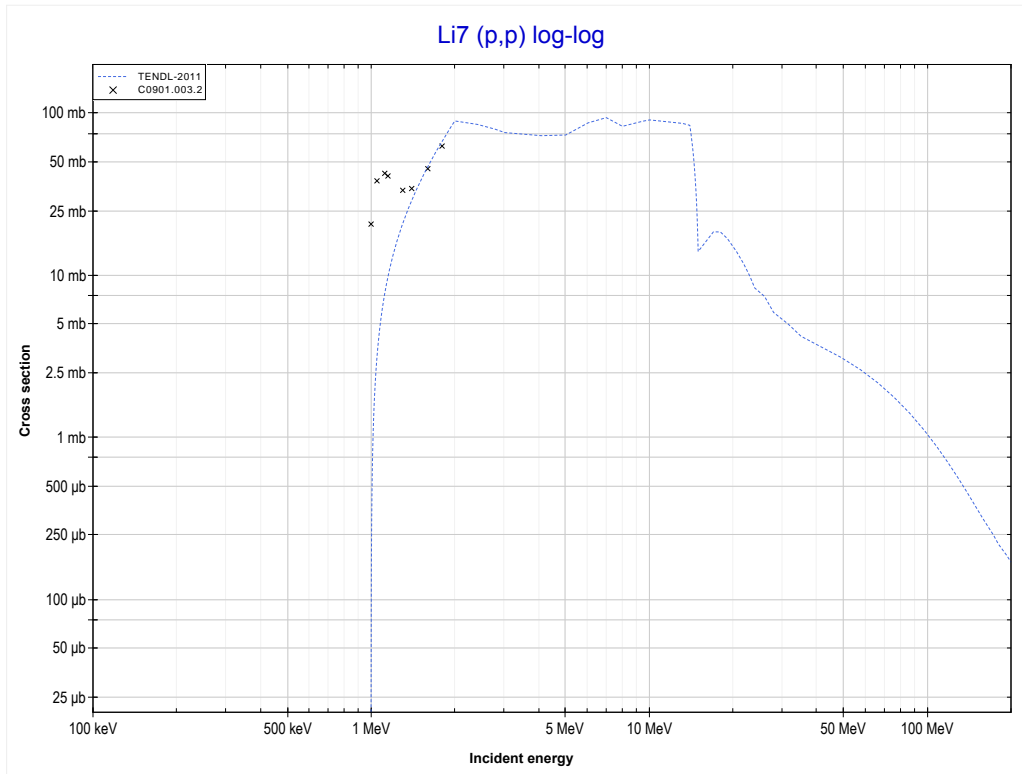
Reaction	Q-Value
Li7(p,n)Be7	-1644.24 keV

<< 1-H-2	<b>3-Li-7</b>	4-Be-7 >>
<< MT4 (p,n)	<b>MT102 (p,<math>\gamma</math>) or MT5 (Be8 production)</b>	MT103 (p,p) >>



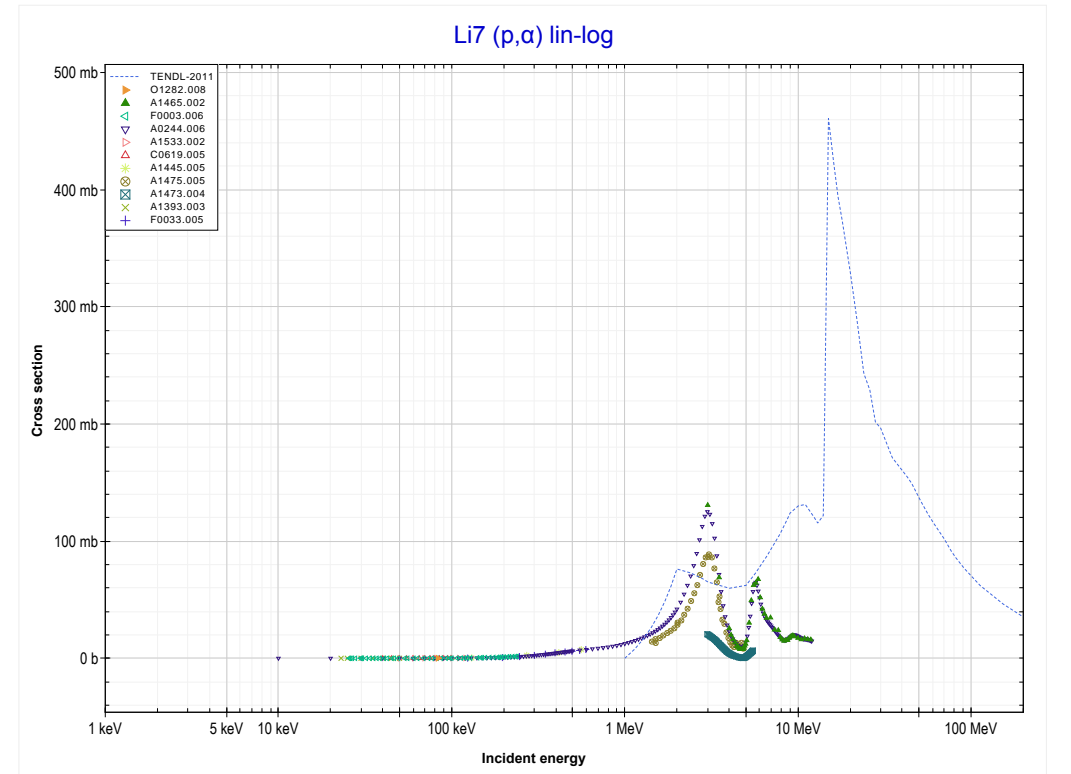
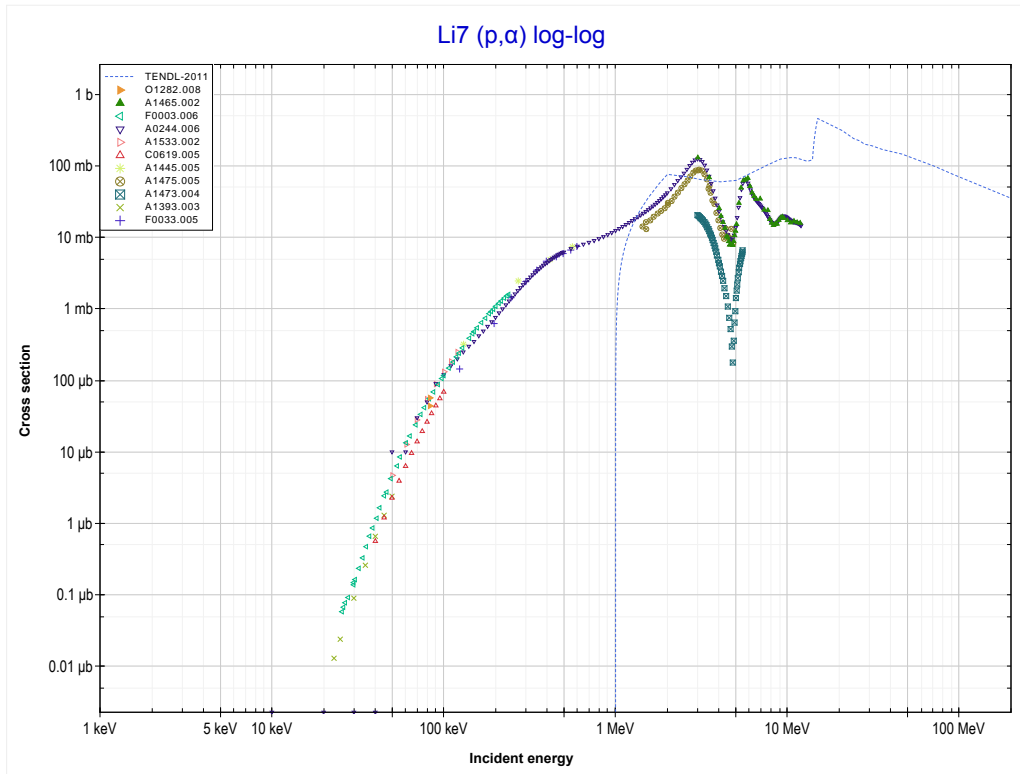
Reaction	Q-Value
Li7(p, $\gamma$ )Be8	17255.44 keV

<< 1-H-1	<b>3-Li-7</b>	4-Be-9 >>
<< MT102 (p, $\gamma$ )	<b>MT103 (p,p) or MT5 (Li7 production)</b>	MT107 (p, $\alpha$ ) >>



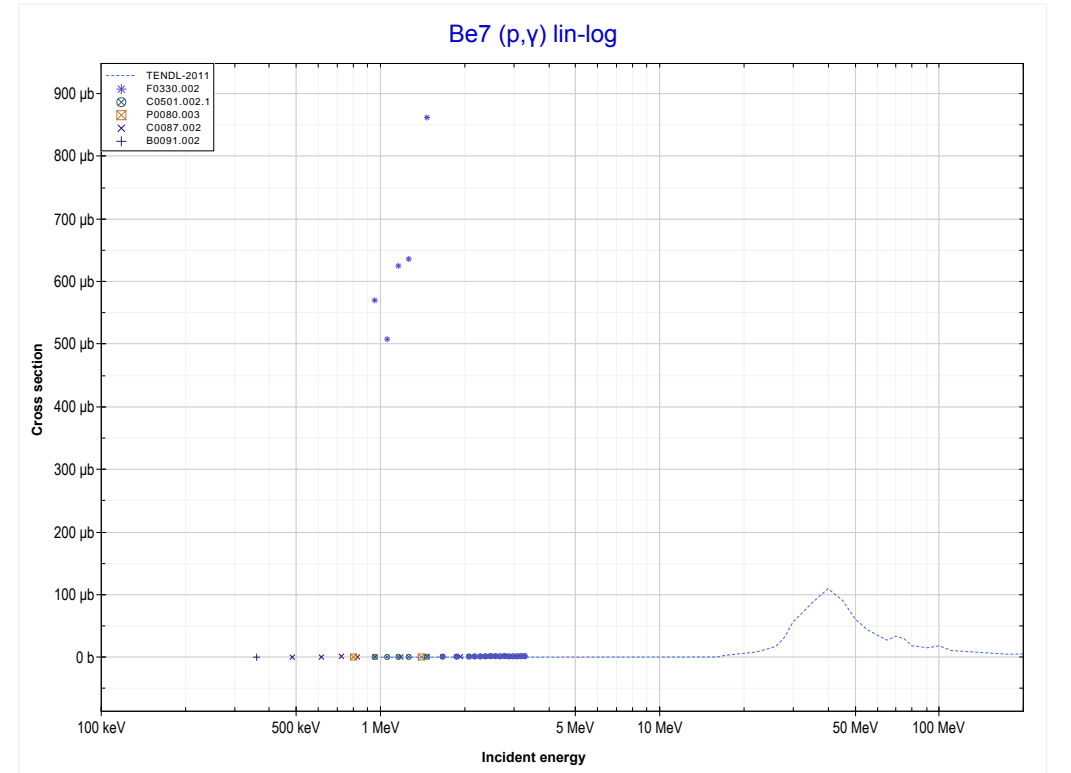
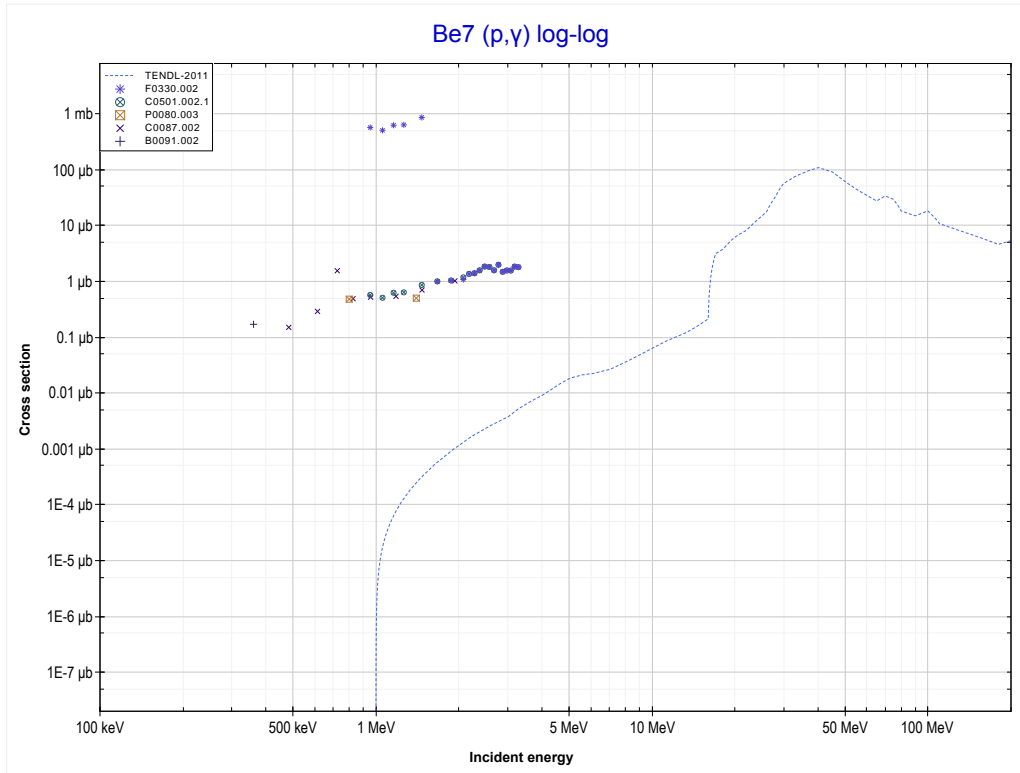
Reaction	Q-Value
Li7(p,p)Li7	0.00 keV

	<b>3-Li-7</b>	4-Be-9 >>
<< MT103 (p,p)	<b>MT107 (p,<math>\alpha</math>) or MT5 (He4 production)</b>	MT102 (p, $\gamma$ ) >>



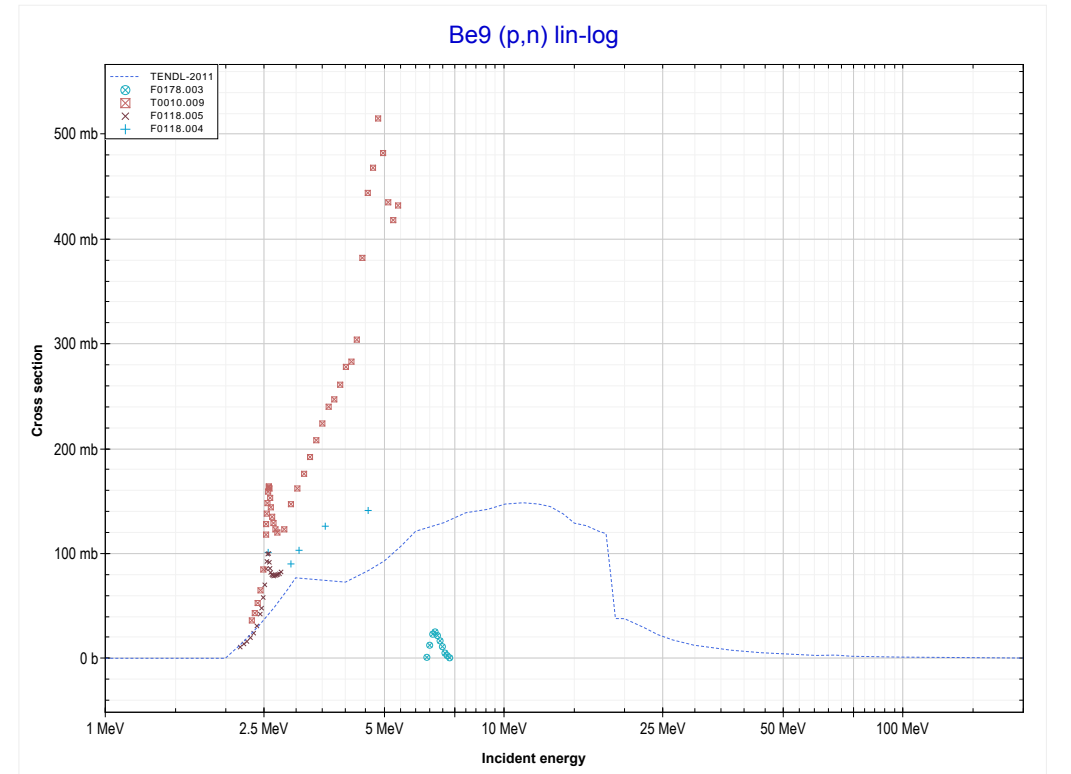
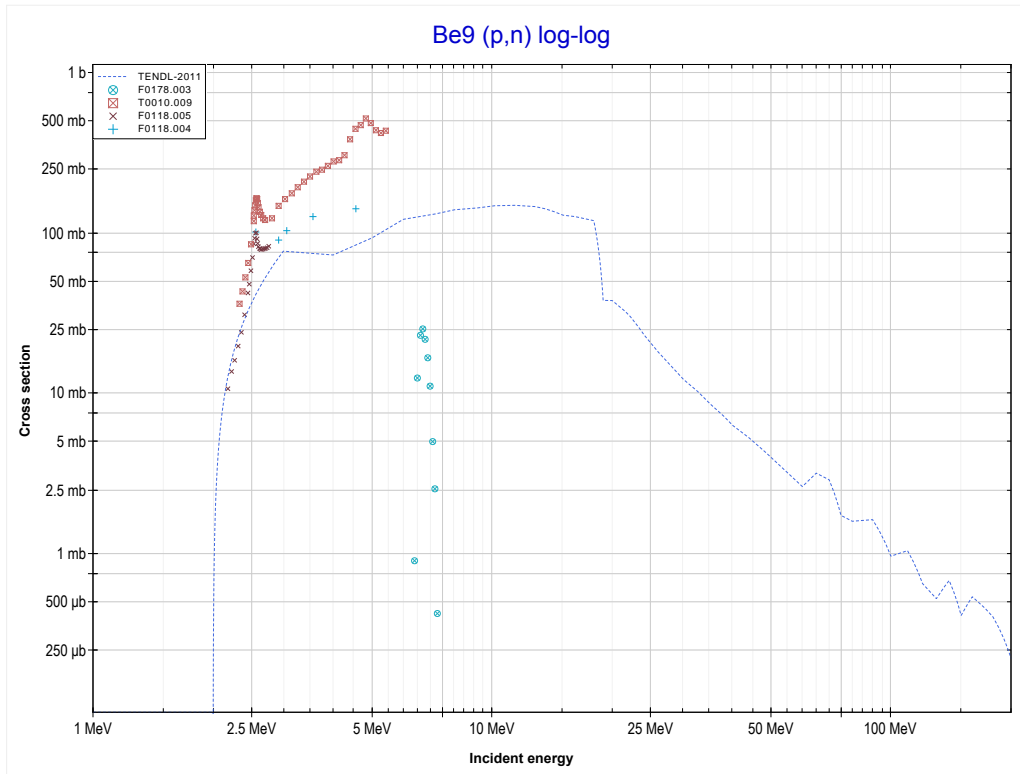
Reaction	Q-Value
Li7(p, $\alpha$ )He4	17347.28 keV
Li7(p,p+t)He4	-2466.58 keV
Li7(p,n+He3)He4	-3230.34 keV
Li7(p, $2d$ )He4	-6499.25 keV
Li7(p,n+p+d)He4	-8723.81 keV
Li7(p, $2n+2p$ )He4	-10948.38 keV

<< 3-Li-7	<b>4-Be-7</b>	4-Be-9 >>
<< MT107 (p, $\alpha$ )	<b>MT102 (p,<math>\gamma</math>) or MT5 (B8 production)</b>	MT4 (p,n) >>



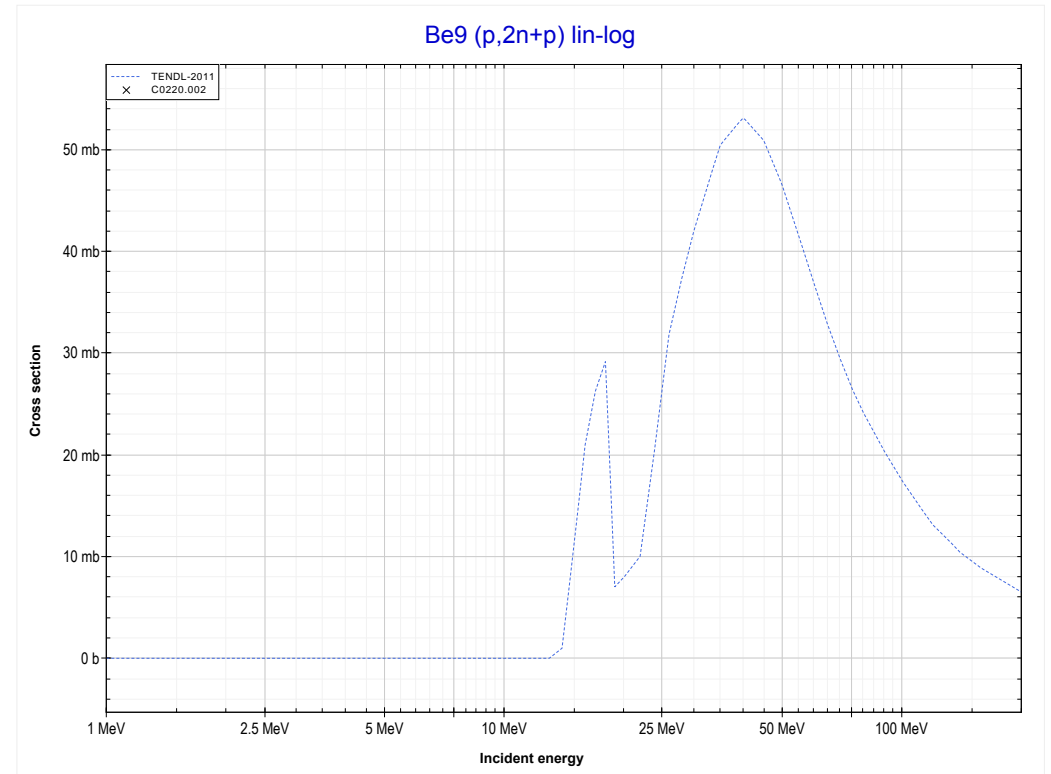
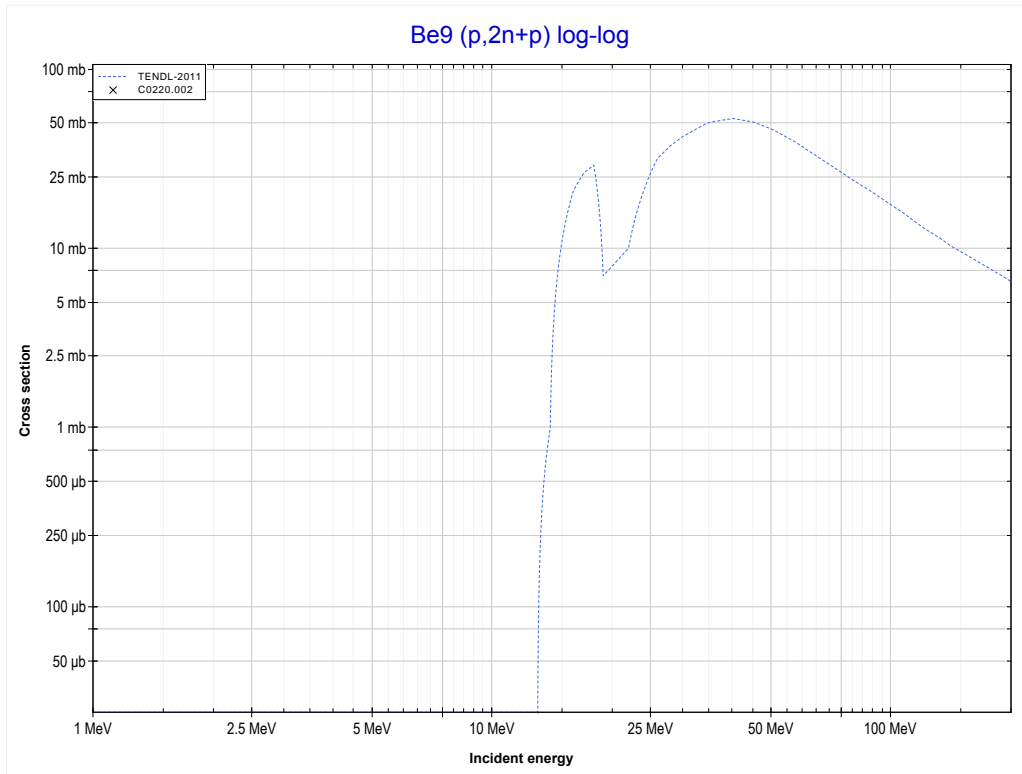
Reaction	Q-Value
Be7(p, $\gamma$ )B8	137.50 keV

<< 3-Li-7	<b>4-Be-9</b>	4-Be-10 >>
<< MT102 (p, $\gamma$ )	<b>MT4 (p,n) or MT5 (B9 production)</b>	MT41 (p,2n+p) >>



Reaction	Q-Value
Be9(p,n)B9	-1850.45 keV

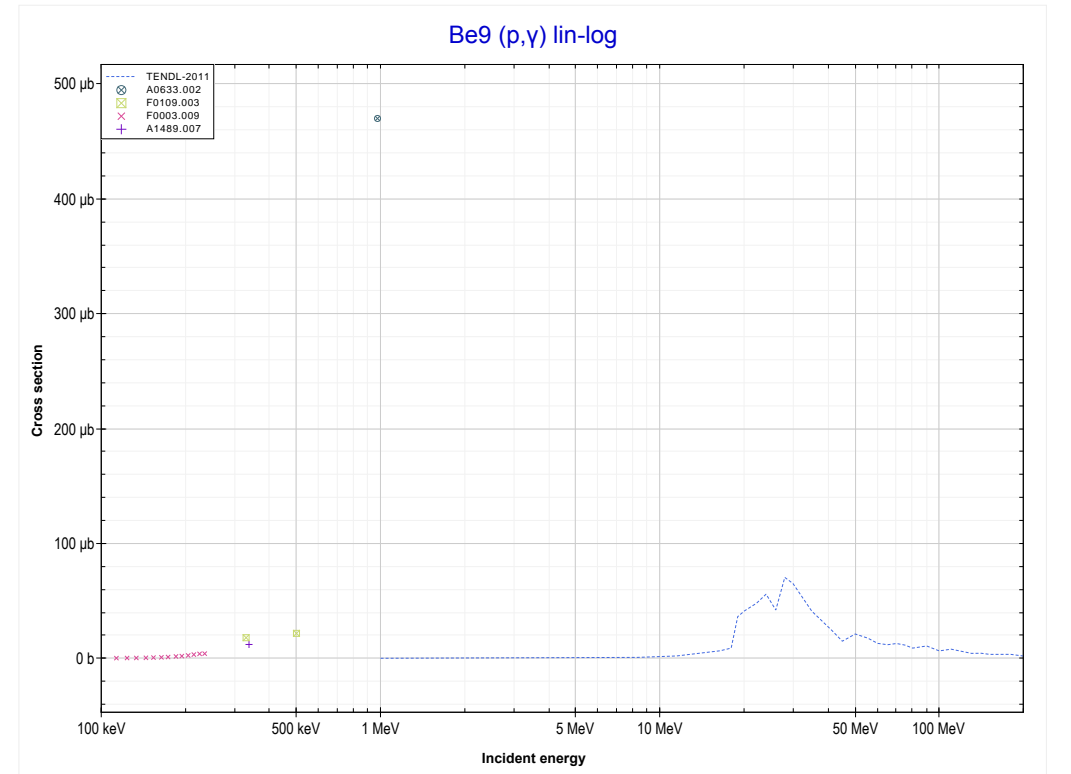
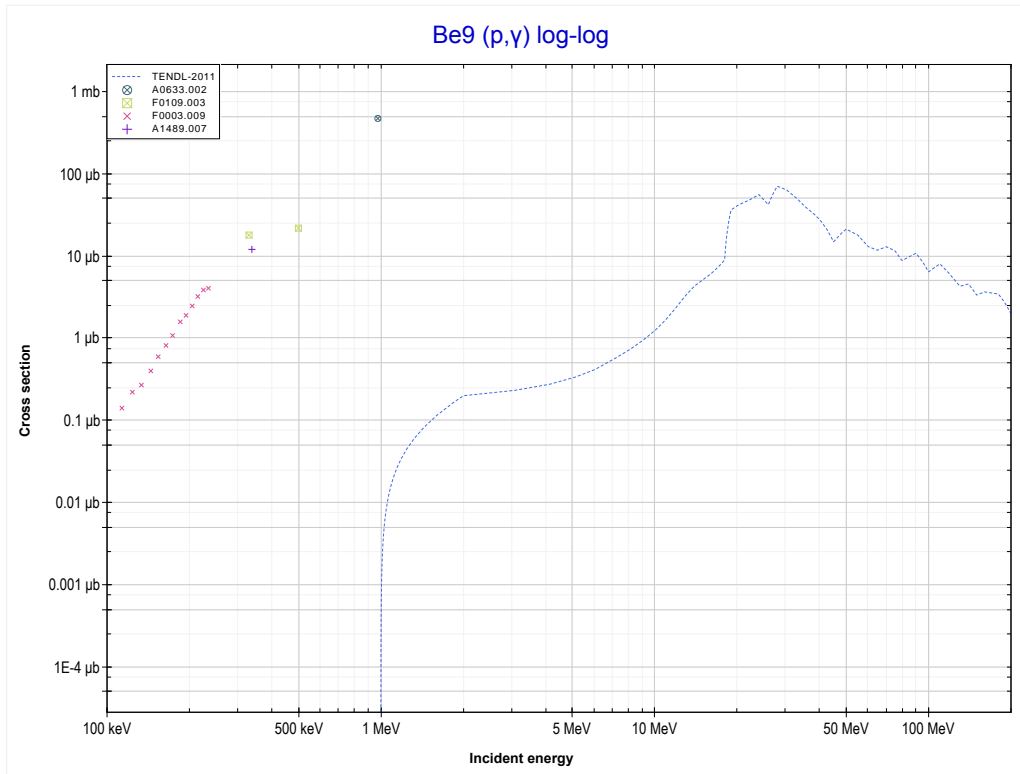
	<b>4-Be-9</b>	8-O-16 >>
<< MT4 (p,n)	<b>MT41 (p,2n+p) or MT5 (Be7 production)</b>	MT102 (p, $\gamma$ ) >>



Reaction	Q-Value
Be9(p,t)Be7	-12083.27 keV
Be9(p,n+d)Be7	-18340.50 keV
Be9(p,2n+p)Be7	-20565.06 keV

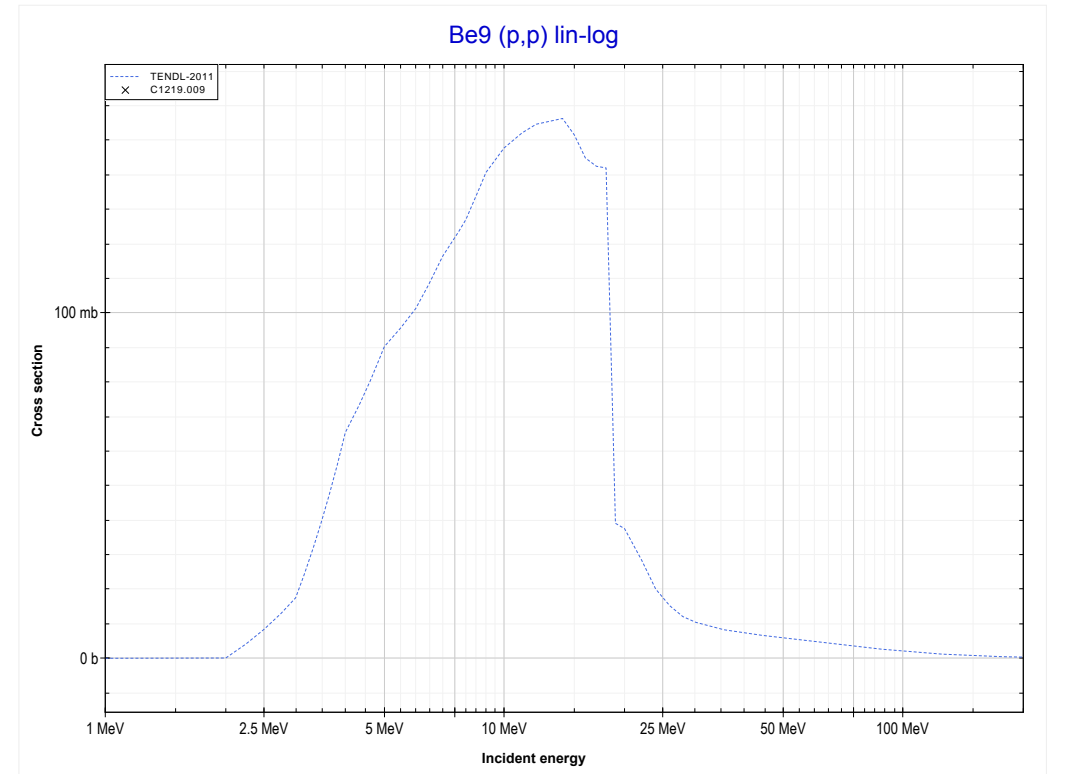
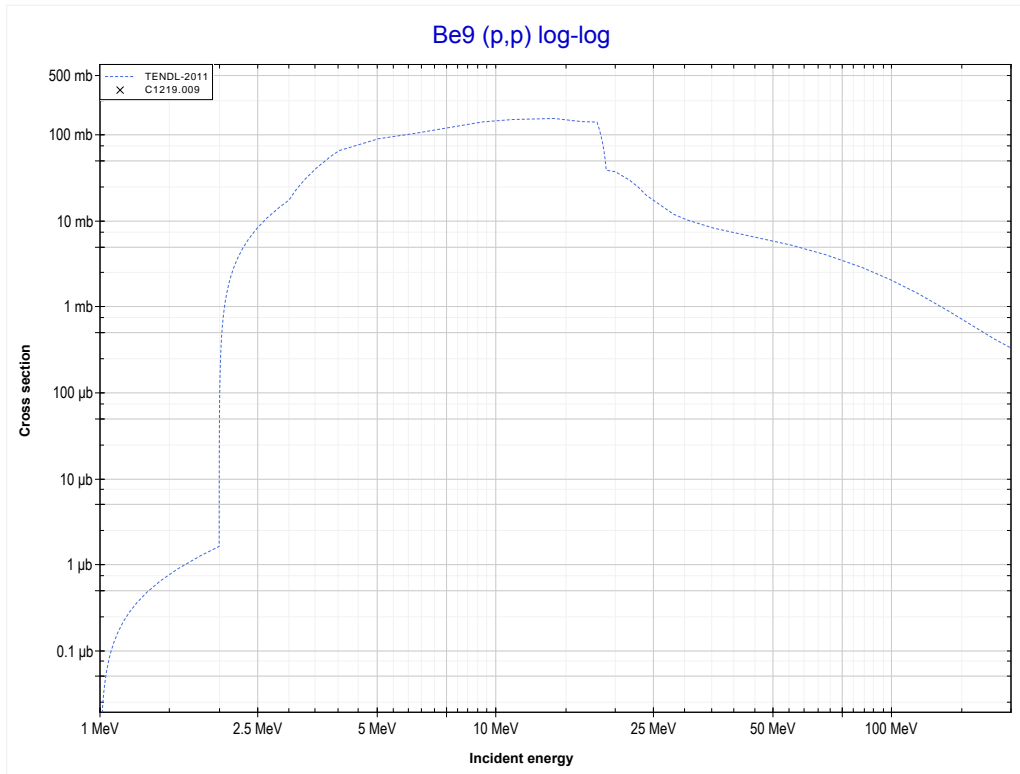


<< 4-Be-7	<b>4-Be-9</b>	5-B-11 >>
<< MT41 (p,2n+p)	<b>MT102 (p,<math>\gamma</math>) or MT5 (B10 production)</b>	MT103 (p,p) >>



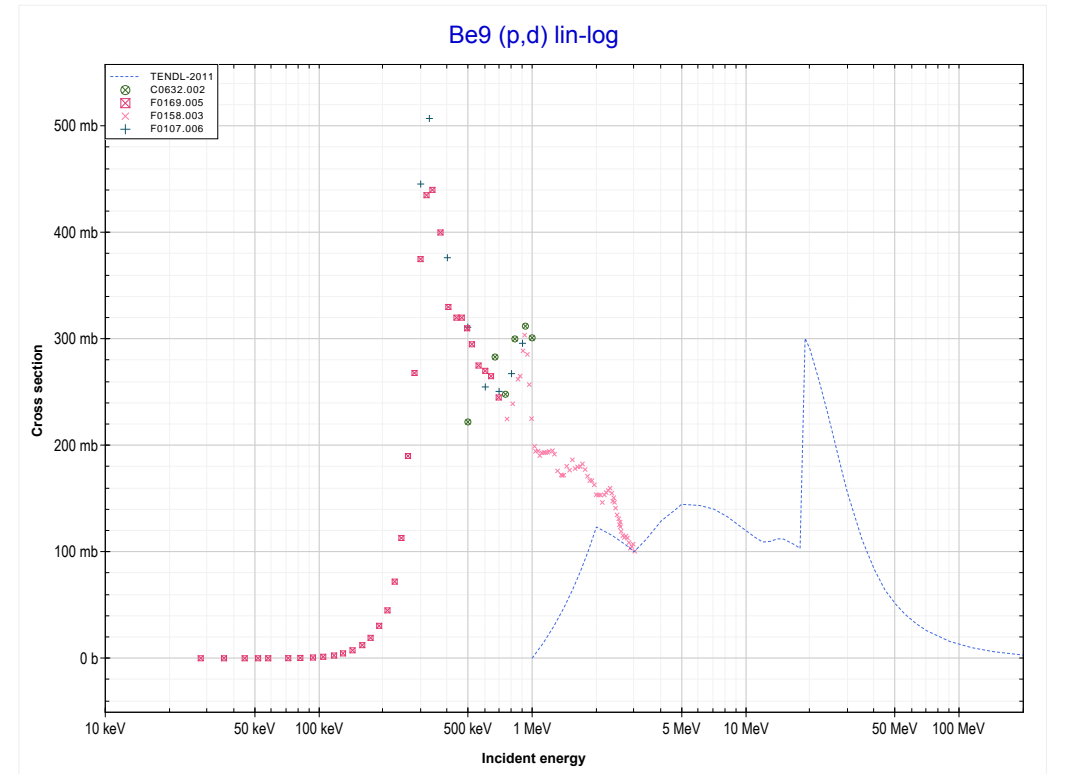
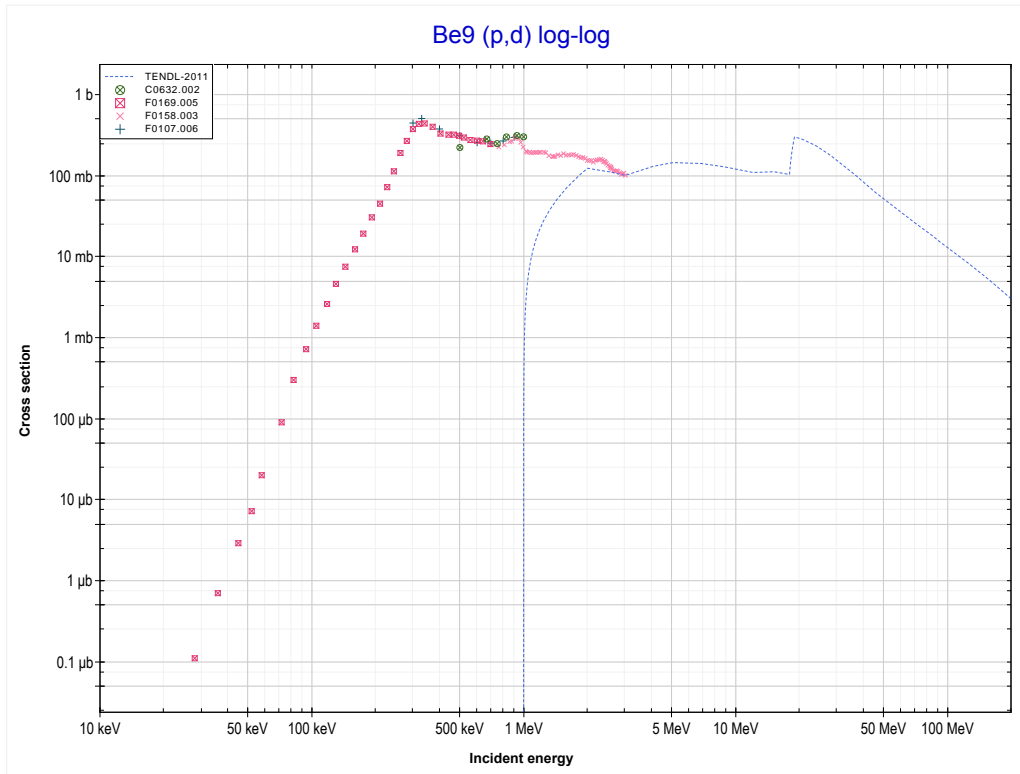
Reaction	Q-Value
Be9(p, $\gamma$ )B10	6585.87 keV

<< 3-Li-7	<b>4-Be-9</b>	8-O-16 >>
<< MT102 (p, $\gamma$ )	<b>MT103 (p,p) or MT5 (Be9 production)</b>	MT104 (p,d) >>



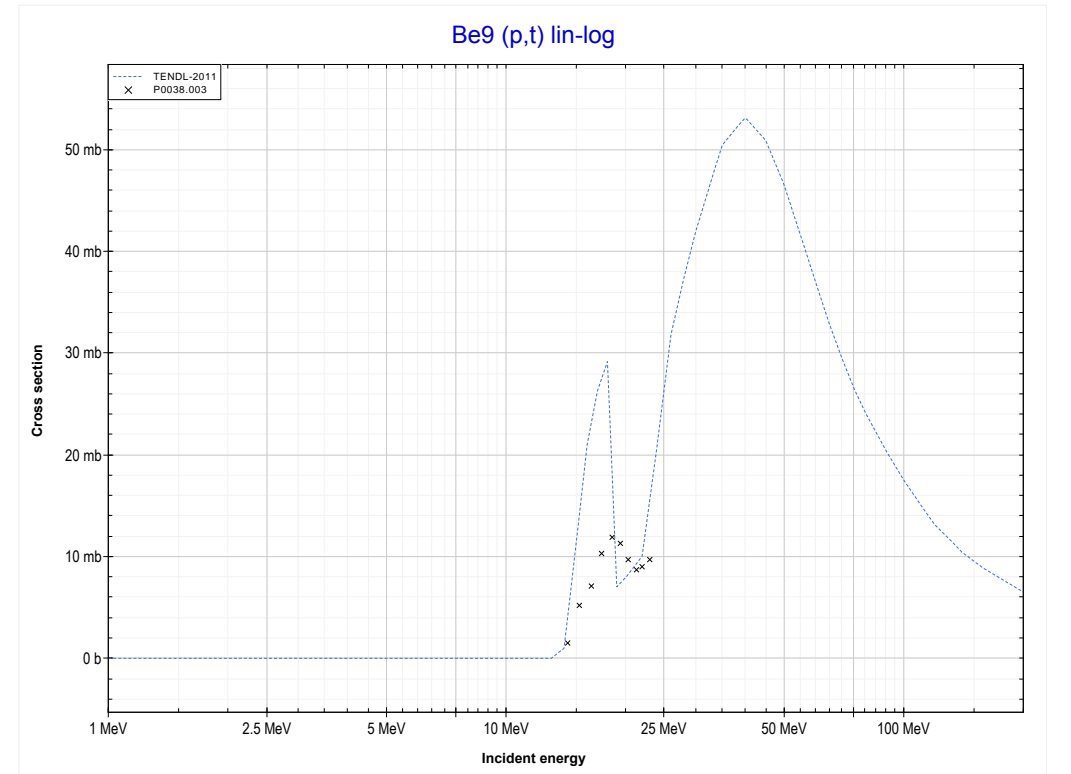
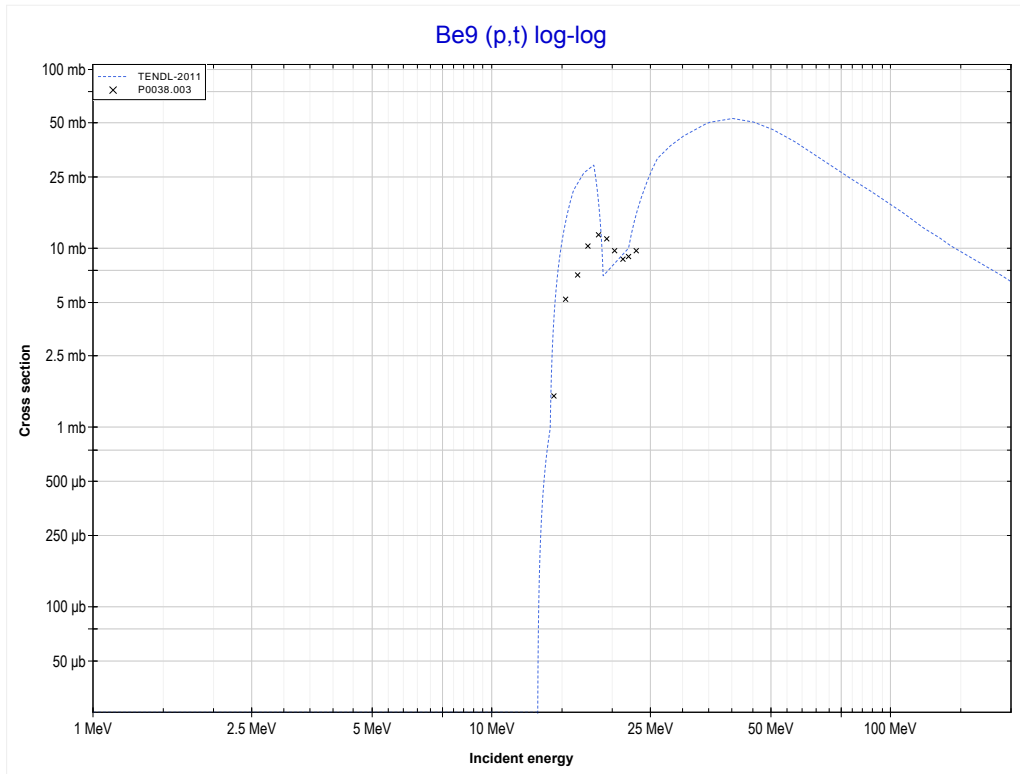
Reaction	Q-Value
Be9(p,p)Be9	0.00 keV

	<b>4-Be-9</b>	7-N-14 >>
<< MT103 (p,p)	<b>MT104 (p,d) or MT5 (Be8 production)</b>	MT105 (p,t) >>



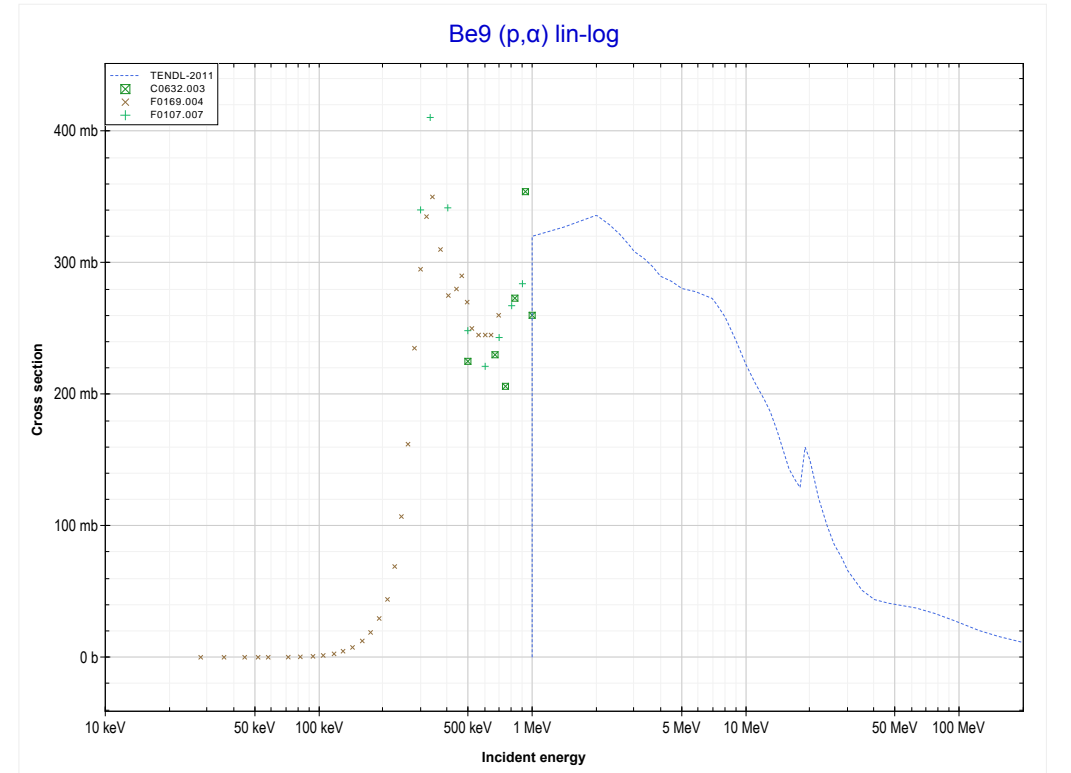
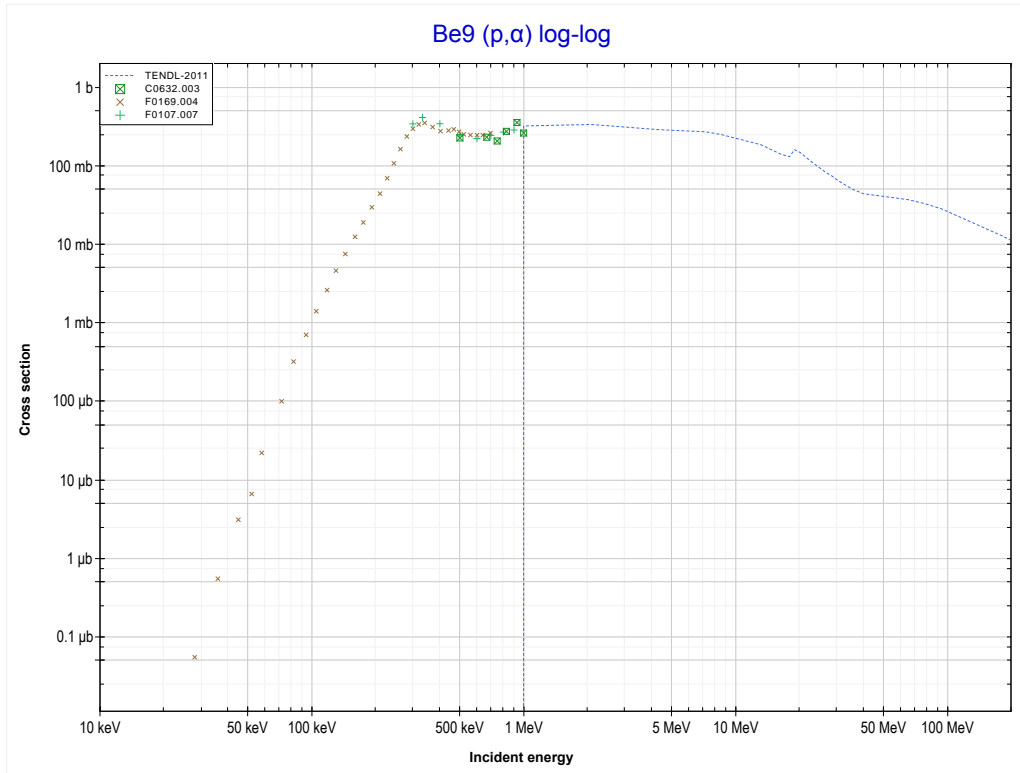
Reaction	Q-Value
Be9(p,d)Be8	559.18 keV
Be9(p,n+p)Be8	-1665.39 keV

	<b>4-Be-9</b>	26-Fe-54 >>
<< MT104 (p,d)	<b>MT105 (p,t) or MT5 (Be7 production)</b>	MT107 (p, $\alpha$ ) >>



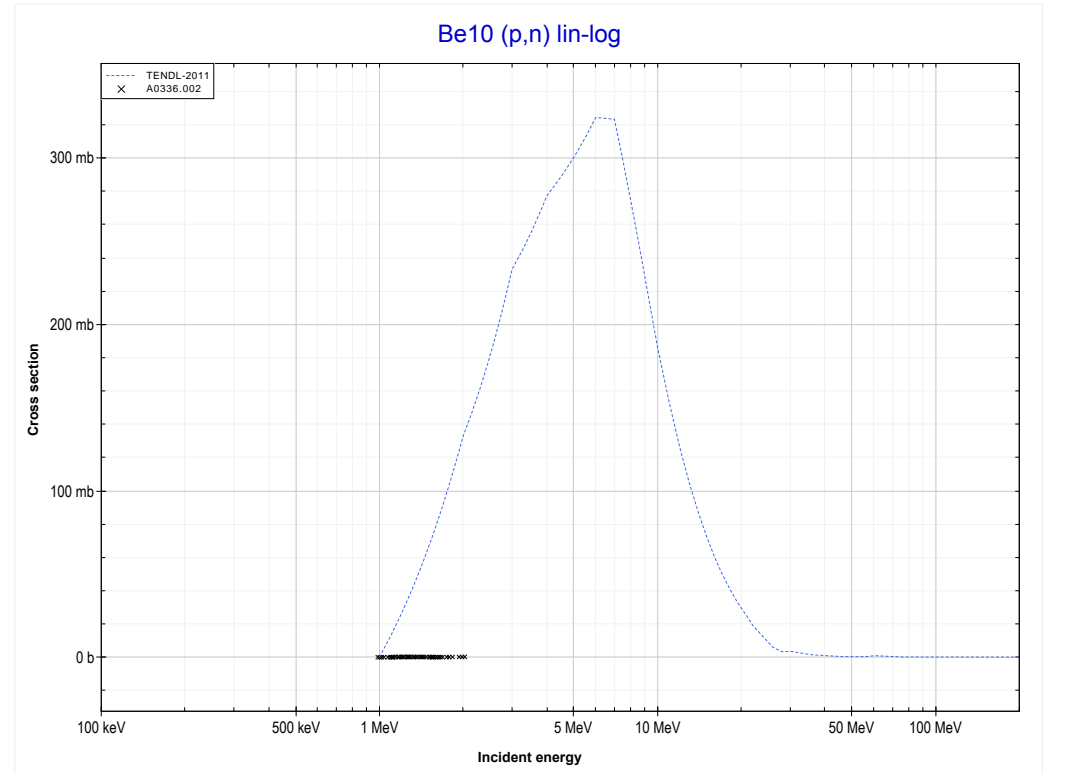
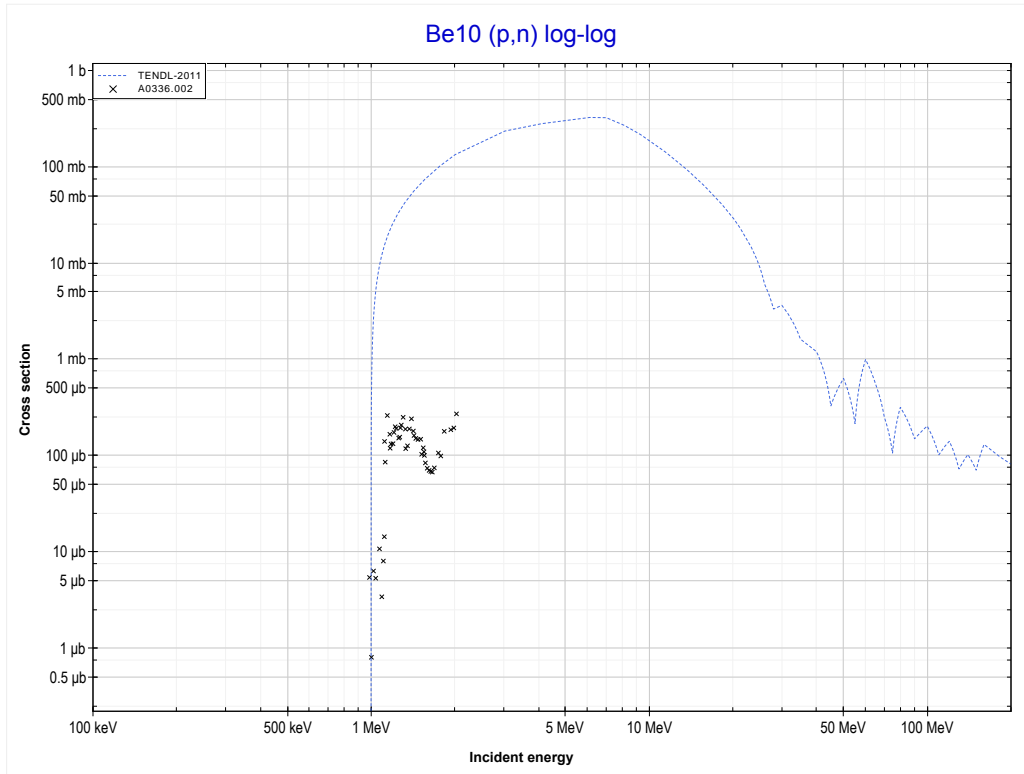
Reaction	Q-Value
Be9(p,t)Be7	-12083.27 keV
Be9(p,n+d)Be7	-18340.50 keV
Be9(p,2n+p)Be7	-20565.06 keV

<< 3-Li-7	<b>4-Be-9</b>	5-B-10 >>
<< MT105 (p,t)	<b>MT107 (p,<math>\alpha</math>) or MT5 (Li6 production)</b>	MT4 (p,n) >>



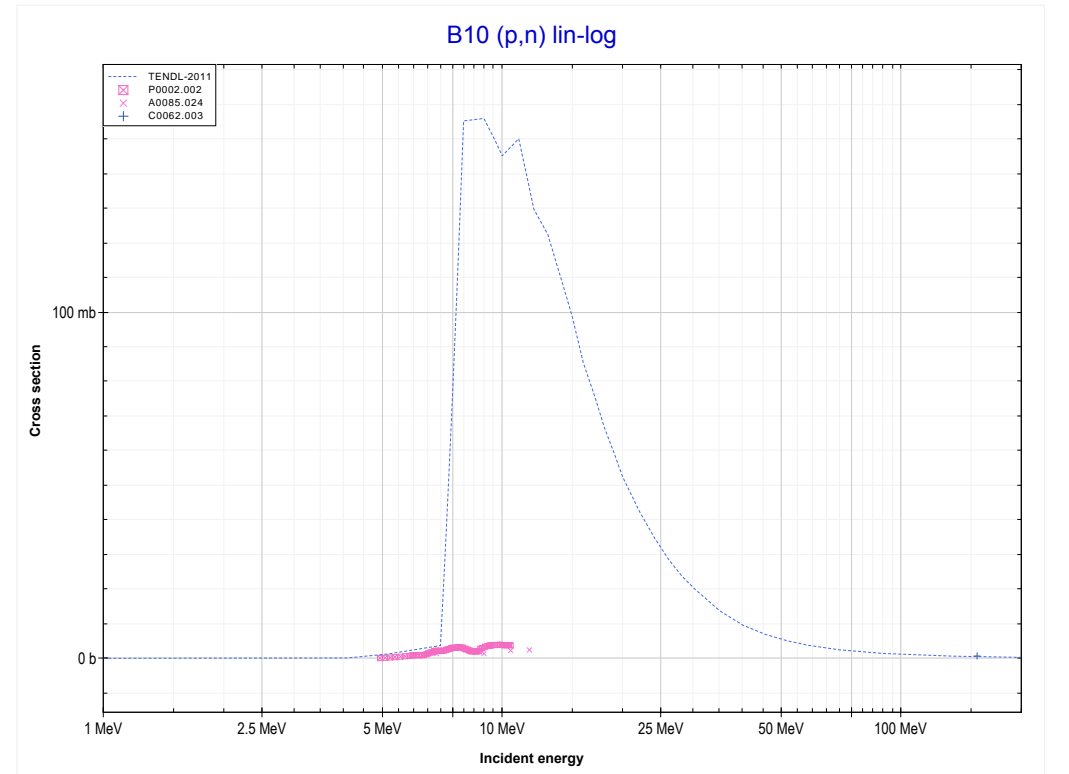
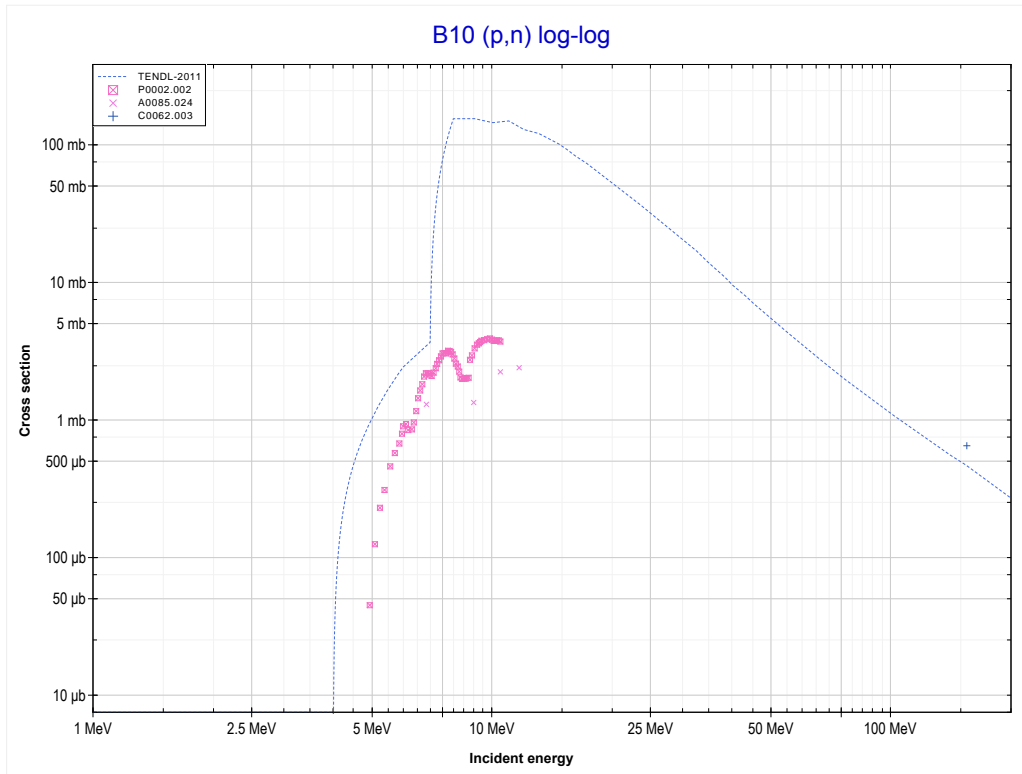
Reaction	Q-Value
Be9(p, $\alpha$ )Li6	2124.86 keV
Be9(p,p+t)Li6	-17689.00 keV
Be9(p,n+He3)Li6	-18452.75 keV
Be9(p,2d)Li6	-21721.67 keV
Be9(p,n+p+d)Li6	-23946.23 keV
Be9(p,2n+2p)Li6	-26170.80 keV

<< 4-Be-9	<b>4-Be-10</b>	5-B-10 >>
<< MT107 (p, $\alpha$ )	<b>MT4 (p,n) or MT5 (B10 production)</b>	MT4 (p,n) >>



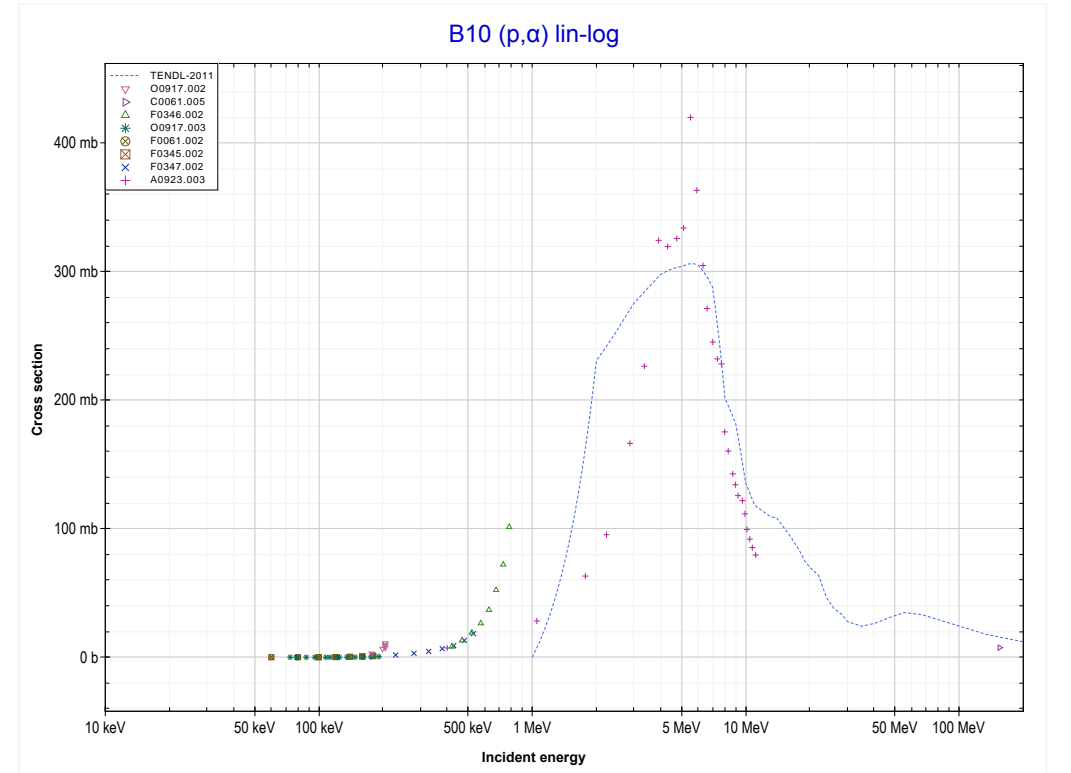
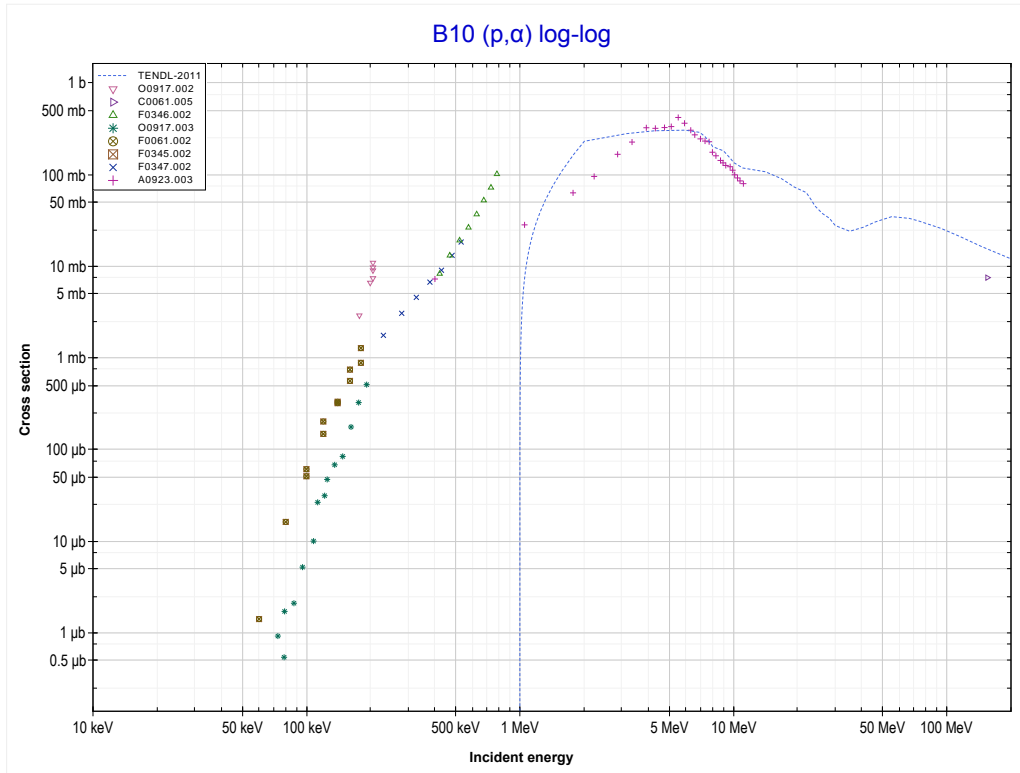
Reaction	Q-Value
Be10(p,n)B10	-226.35 keV

<< 4-Be-10	<b>5-B-10</b>	5-B-11 >>
<< MT4 (p,n)	<b>MT4 (p,n) or MT5 (C10 production)</b>	MT107 (p, $\alpha$ ) >>



Reaction	Q-Value
B10(p,n)C10	-4430.35 keV

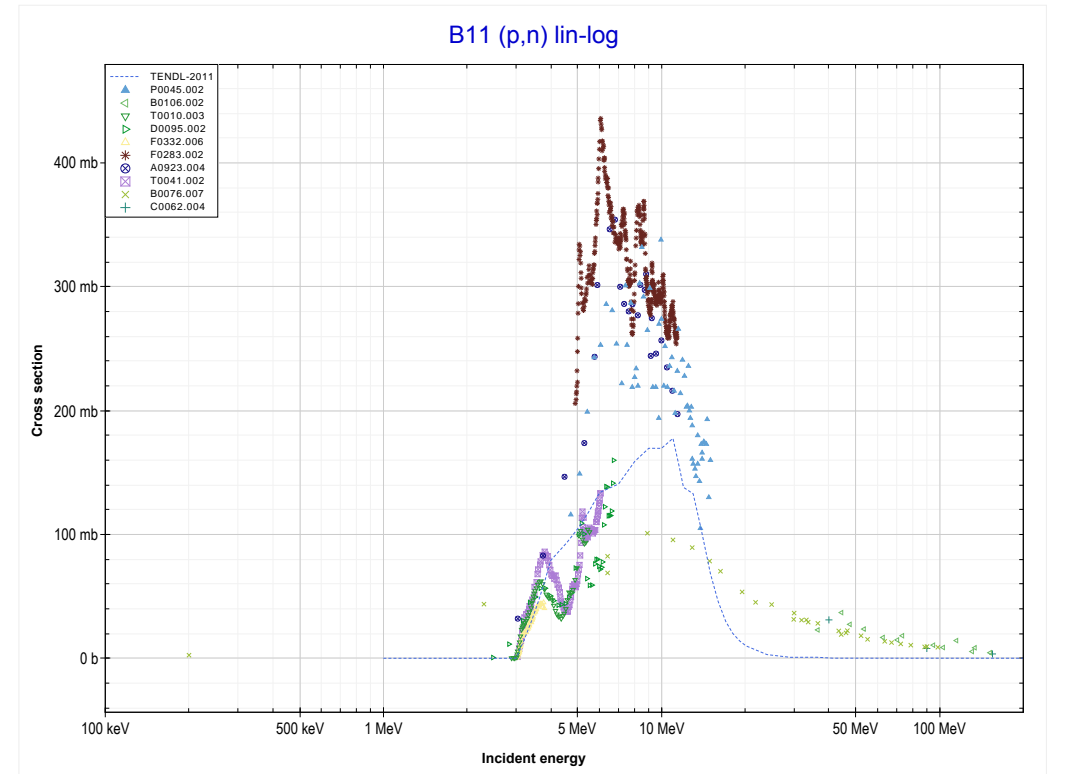
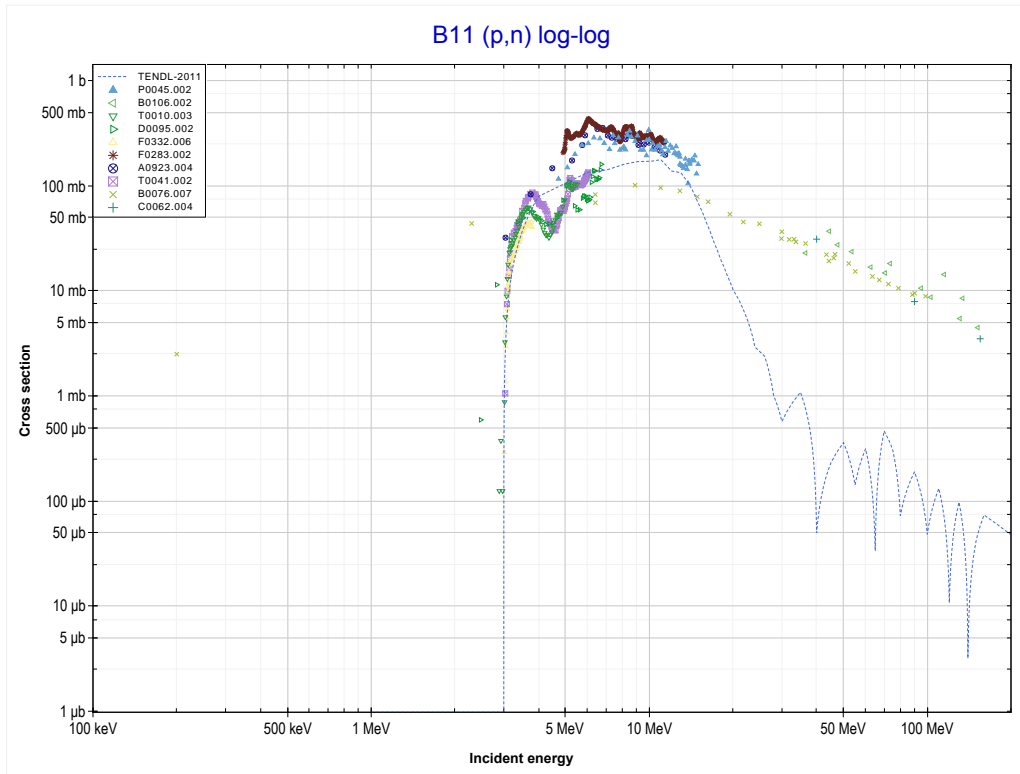
<< 4-Be-9	<b>5-B-10</b>	5-B-11 >>
<< MT4 (p,n)	<b>MT107 (p,<math>\alpha</math>) or MT5 (Be7 production)</b>	MT4 (p,n) >>



Reaction	Q-Value
B10(p, $\alpha$ )Be7	1144.72 keV
B10(p,p+t)Be7	-18669.14 keV
B10(p,n+He3)Be7	-19432.89 keV
B10(p, $2d$ )Be7	-22701.80 keV
B10(p,n+p+d)Be7	-24926.37 keV
B10(p, $2n+2p$ )Be7	-27150.93 keV

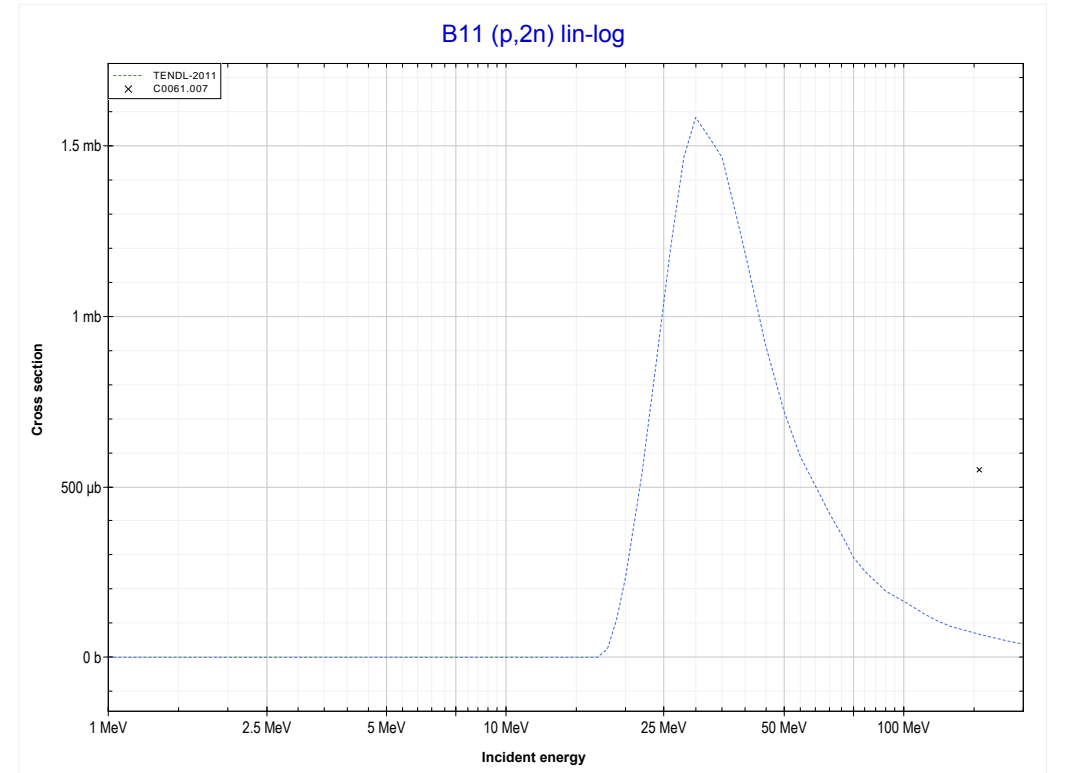
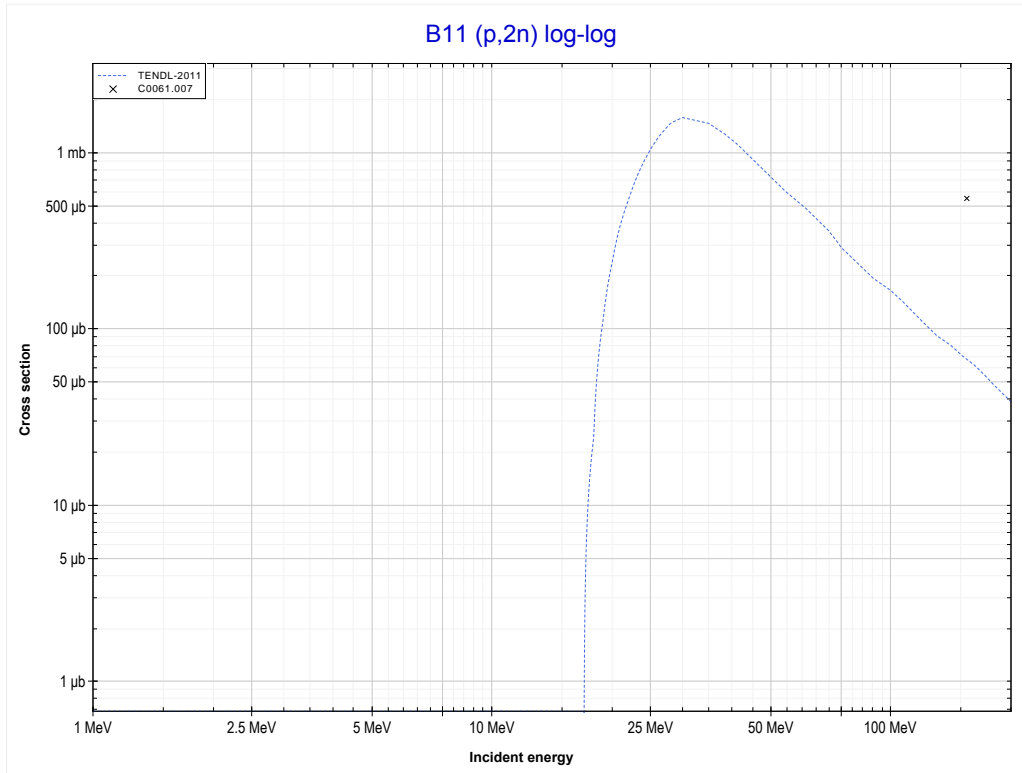


<< 5-B-10	<b>5-B-11</b>	6-C-13 >>
<< MT107 (p, $\alpha$ )	<b>MT4 (p,n) or MT5 (C11 production)</b>	MT16 (p,2n) >>



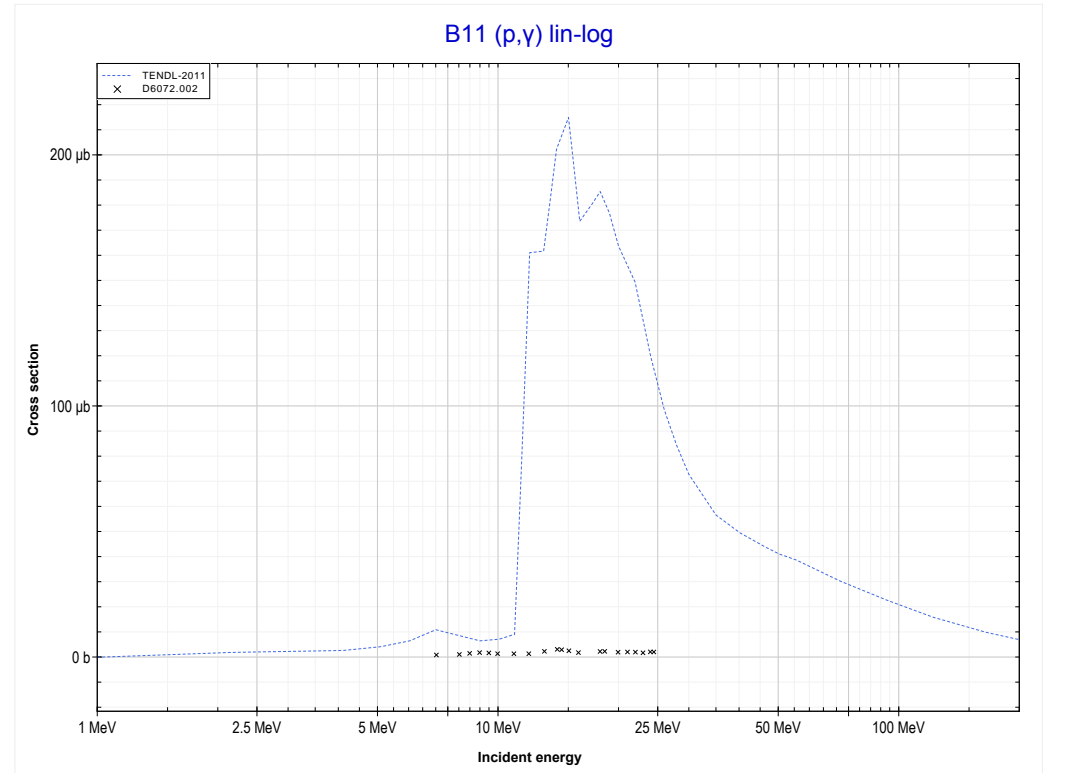
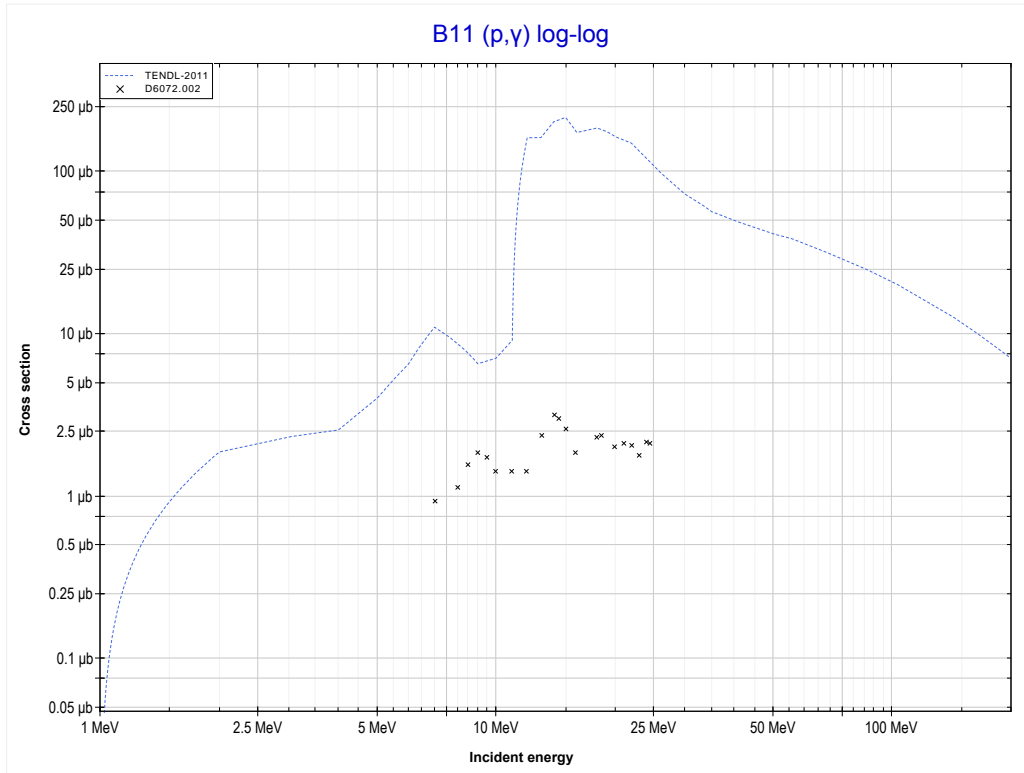
Reaction	Q-Value
B11(p,n)C11	-2764.75 keV

	<b>5-B-11</b>	9-F-19 >>
<< MT4 (p,n)	<b>MT16 (p,2n) or MT5 (C10 production)</b>	MT102 (p, $\gamma$ ) >>



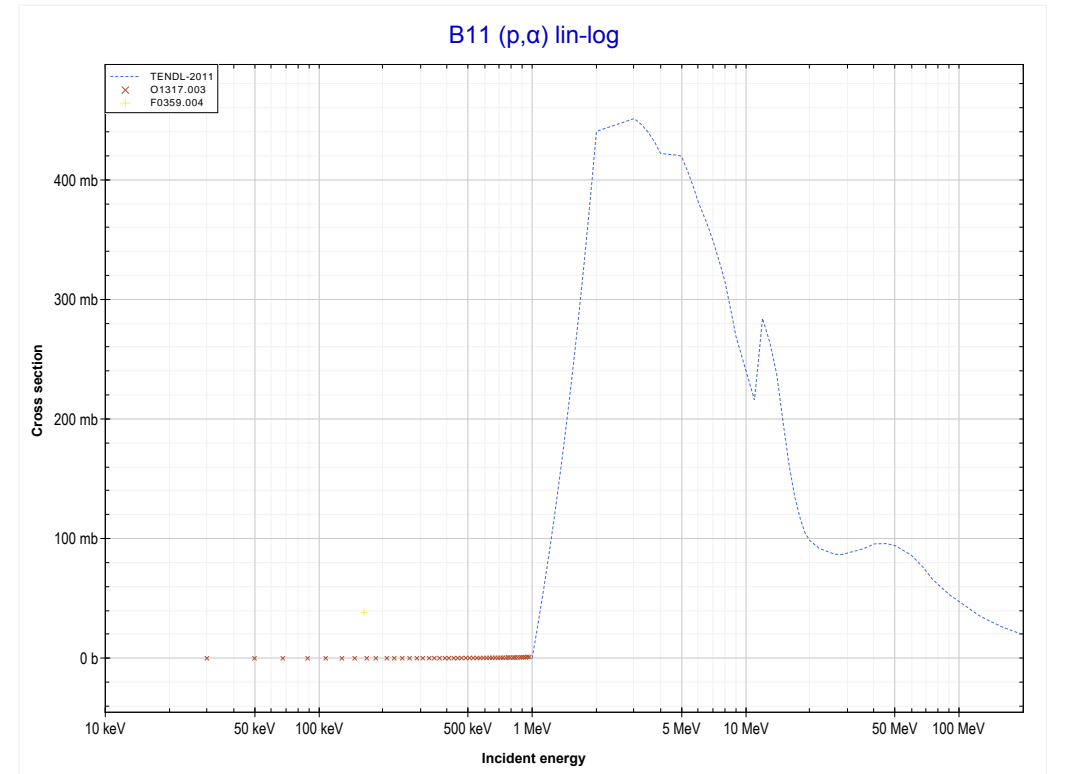
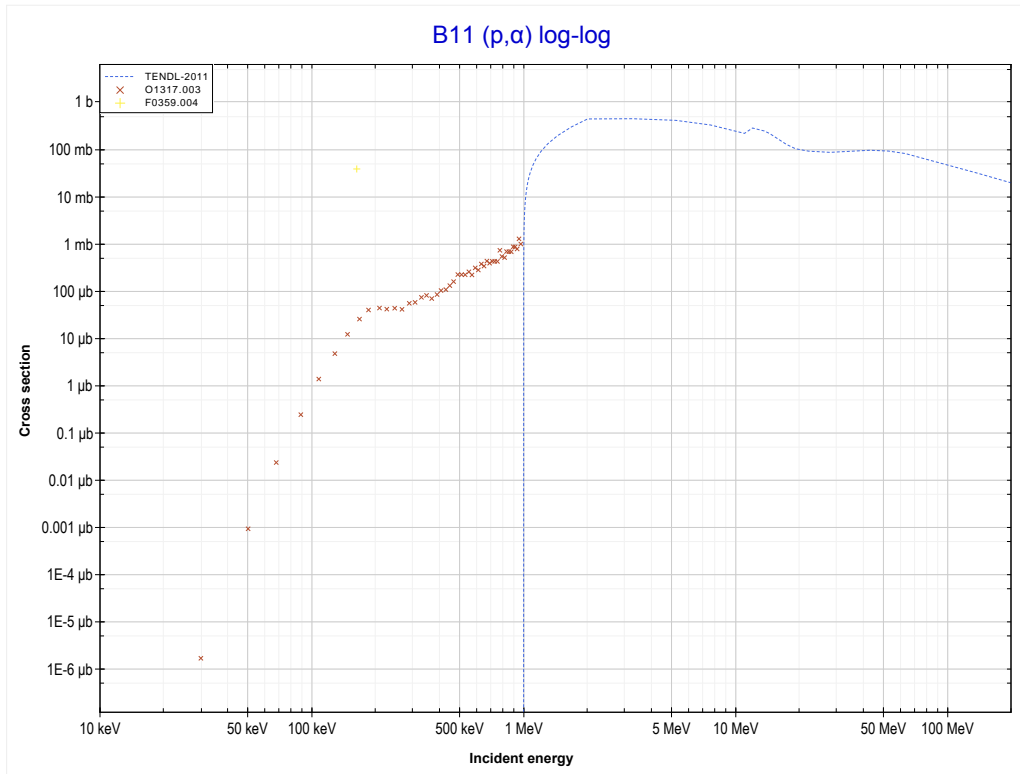
Reaction	Q-Value
B11(p,2n)C10	-15884.46 keV

<< 4-Be-9	<b>5-B-11</b>	6-C-12 >>
<< MT16 (p,2n)	<b>MT102 (p,<math>\gamma</math>) or MT5 (C12 production)</b>	MT107 (p, $\alpha$ ) >>



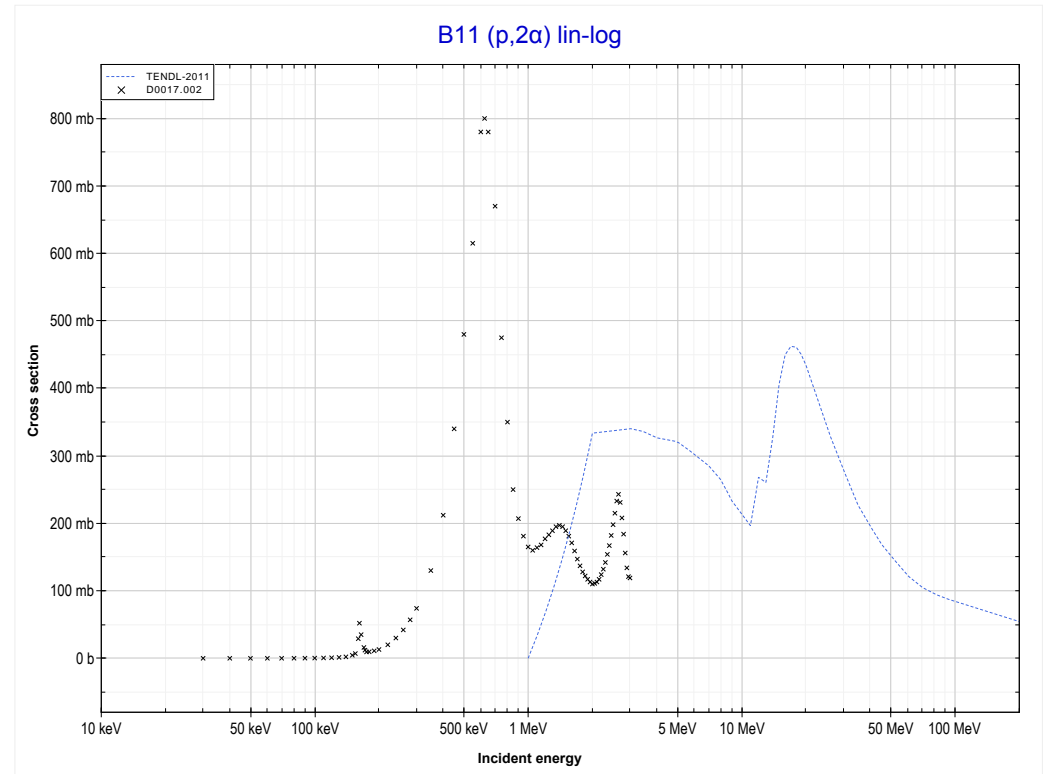
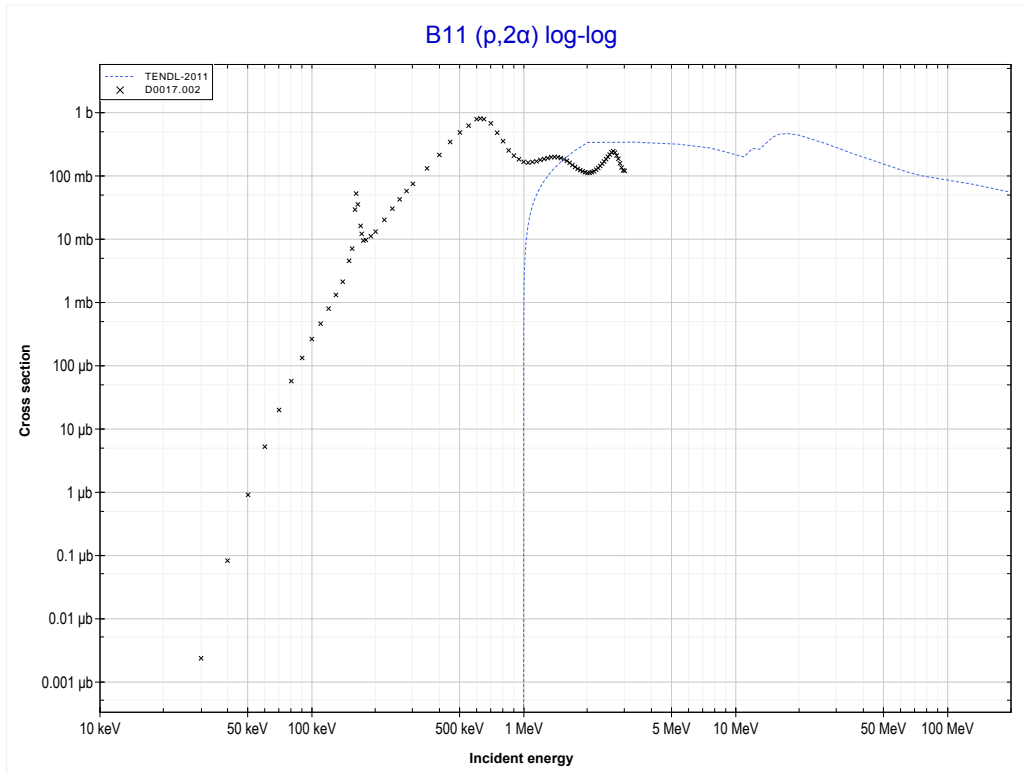
Reaction	Q-Value
B11(p, $\gamma$ )C12	15956.87 keV

<< 5-B-10	<b>5-B-11</b>	6-C-12 >>
<< MT102 (p, $\gamma$ )	<b>MT107 (p,<math>\alpha</math>) or MT5 (Be8 production)</b>	MT108 (p, $2\alpha$ ) >>



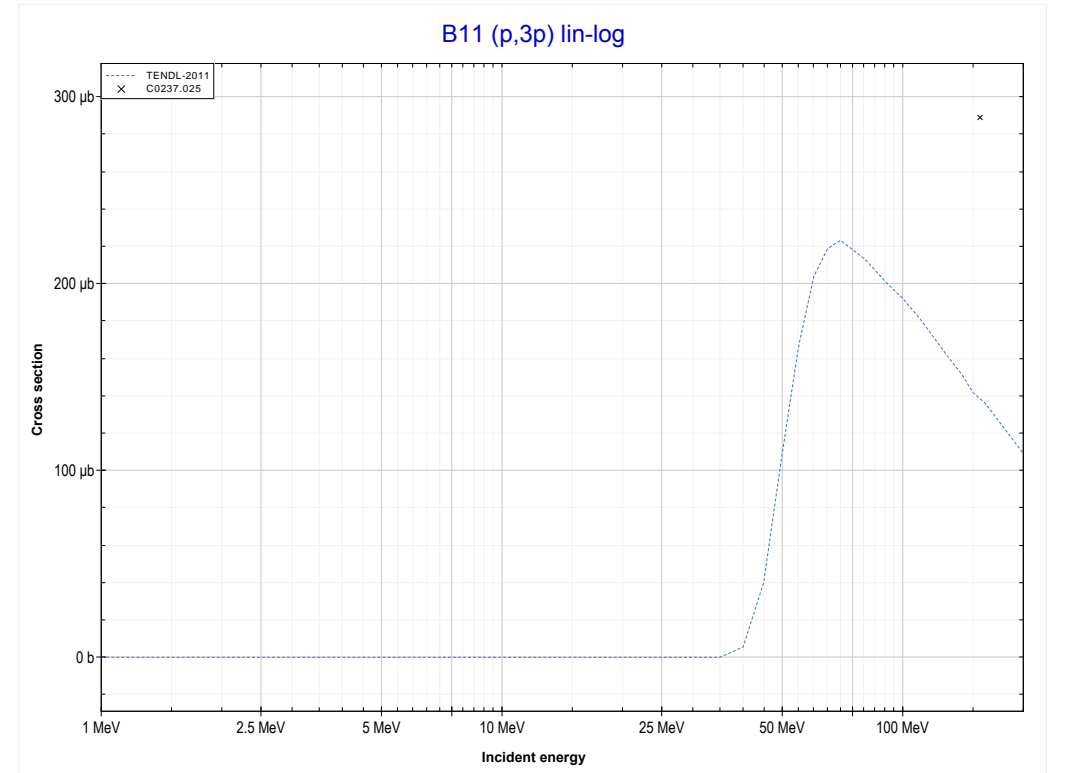
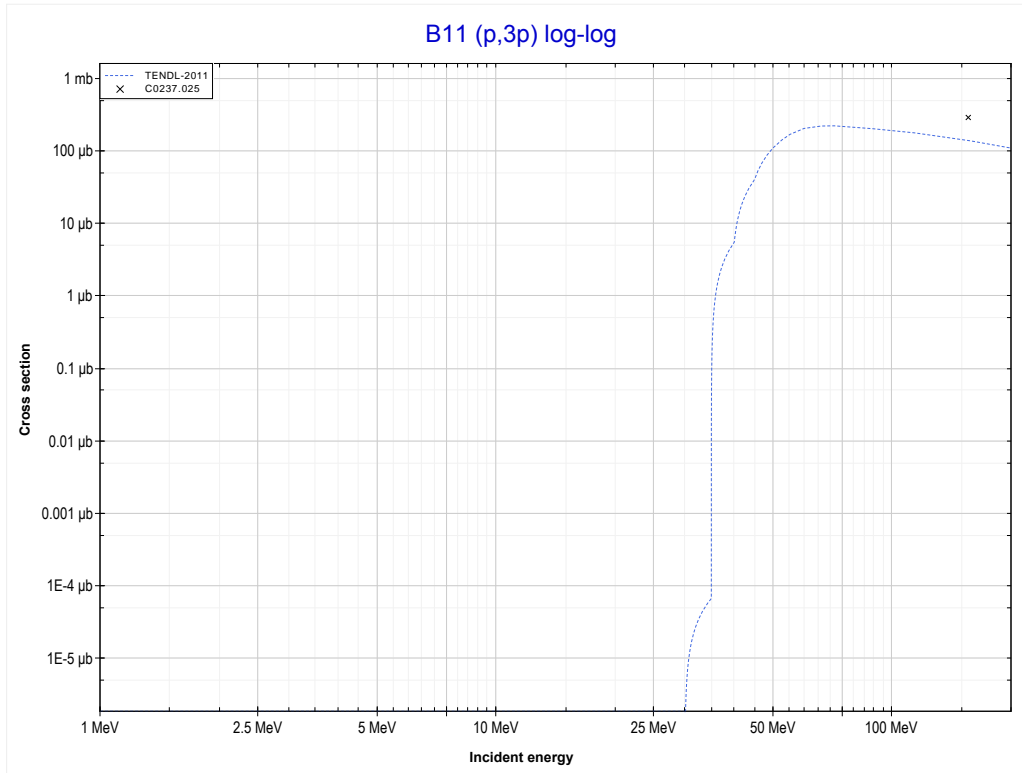
Reaction	Q-Value
B11(p, $\alpha$ )Be8	8590.28 keV
B11(p,p+t)Be8	-11223.58 keV
B11(p,n+He3)Be8	-11987.33 keV
B11(p, $2d$ )Be8	-15256.24 keV
B11(p,n+p+d)Be8	-17480.81 keV
B11(p, $2n+2p$ )Be8	-19705.37 keV

	<b>5-B-11</b>	7-N-14 >>
<< MT107 (p, $\alpha$ )	<b>MT108 (p,2<math>\alpha</math>) or MT5 (He4 production)</b>	MT197 (p,3p) >>



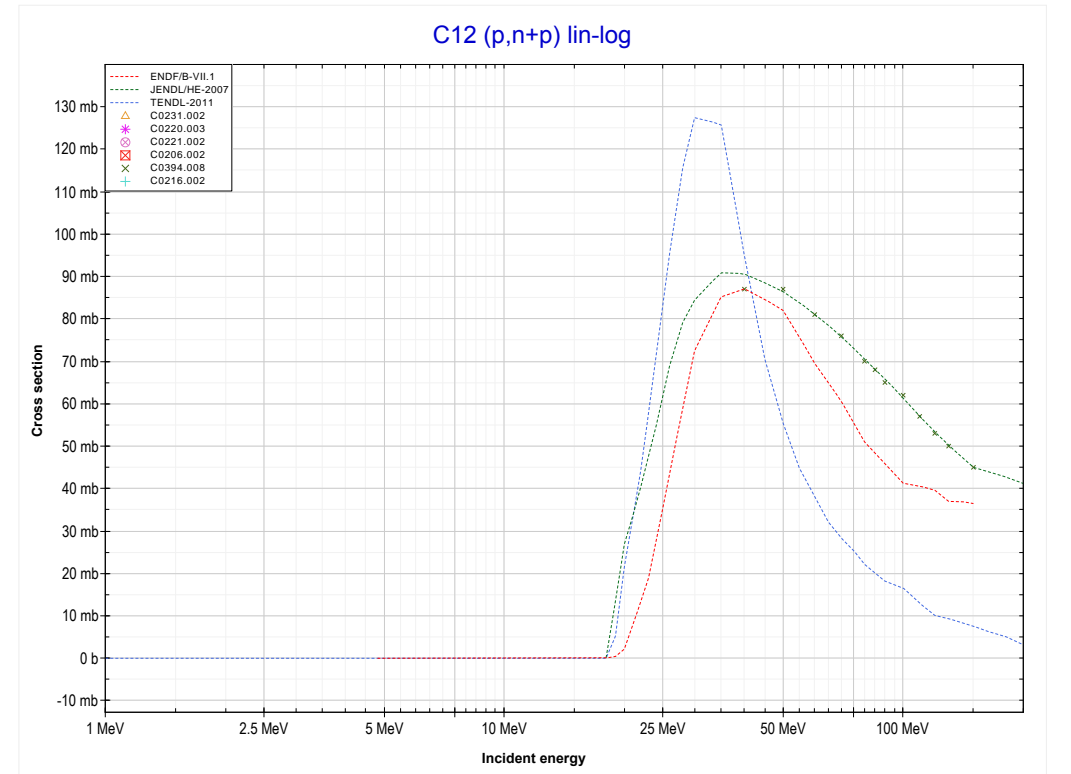
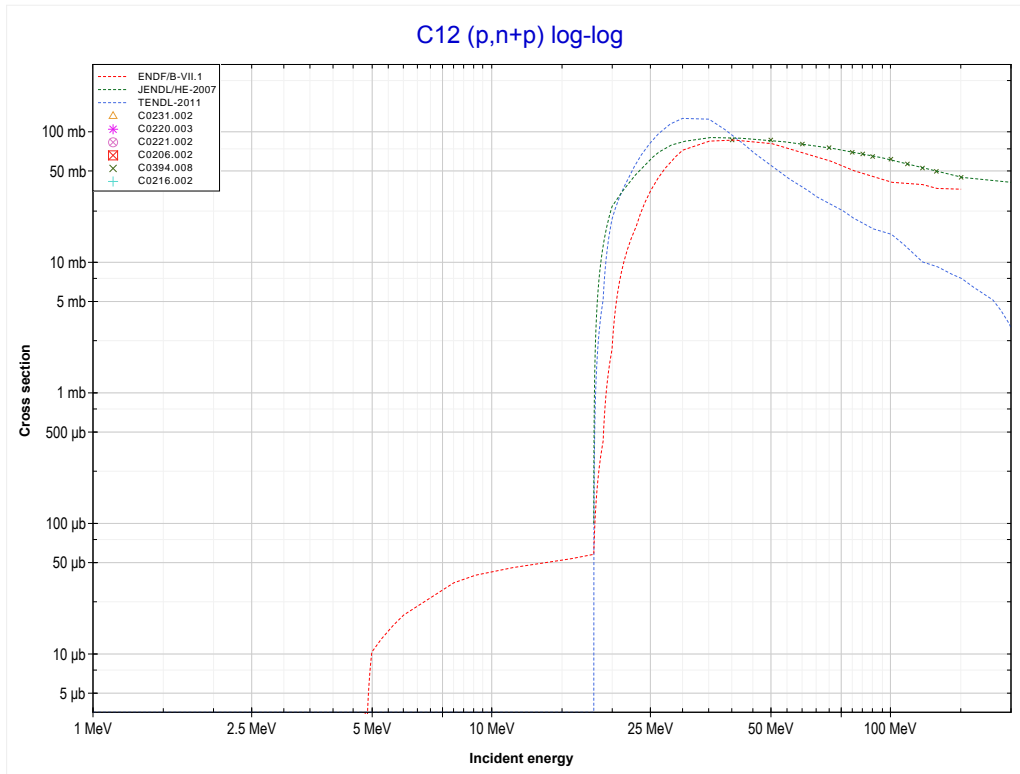
Reaction	Q-Value	Reaction	Q-Value
B11(p,2 $\alpha$ )He4	8682.12 keV	B11(p,n+p+t+He3)He4	-31709.35 keV
B11(p,p+t+ $\alpha$ )He4	-11131.74 keV	B11(p,2n+2He3)He4	-32473.11 keV
B11(p,n+He3+ $\alpha$ )He4	-11895.49 keV	B11(p,p+2d+t)He4	-34978.26 keV
B11(p,2d+ $\alpha$ )He4	-15164.40 keV	B11(p,n+2d+He3)He4	-35742.02 keV
B11(p,n+p+d+ $\alpha$ )He4	-17388.97 keV	B11(p,n+2p+d+t)He4	-37202.83 keV
B11(p,2n+2p+ $\alpha$ )He4	-19613.54 keV	B11(p,2n+p+d+He3)He4	-37966.59 keV
B11(p,d+t+He3)He4	-29484.79 keV	B11(p,4d)He4	-39010.93 keV
B11(p,2p+2t)He4	-30945.60 keV	B11(p,2n+3p+t)He4	-39427.40 keV

	<b>5-B-11</b>	8-O-18 >>
<< MT108 (p,2 $\alpha$ )	<b>MT197 (p,3p) or MT5 (Li9 production)</b>	MT28 (p,n+p) >>



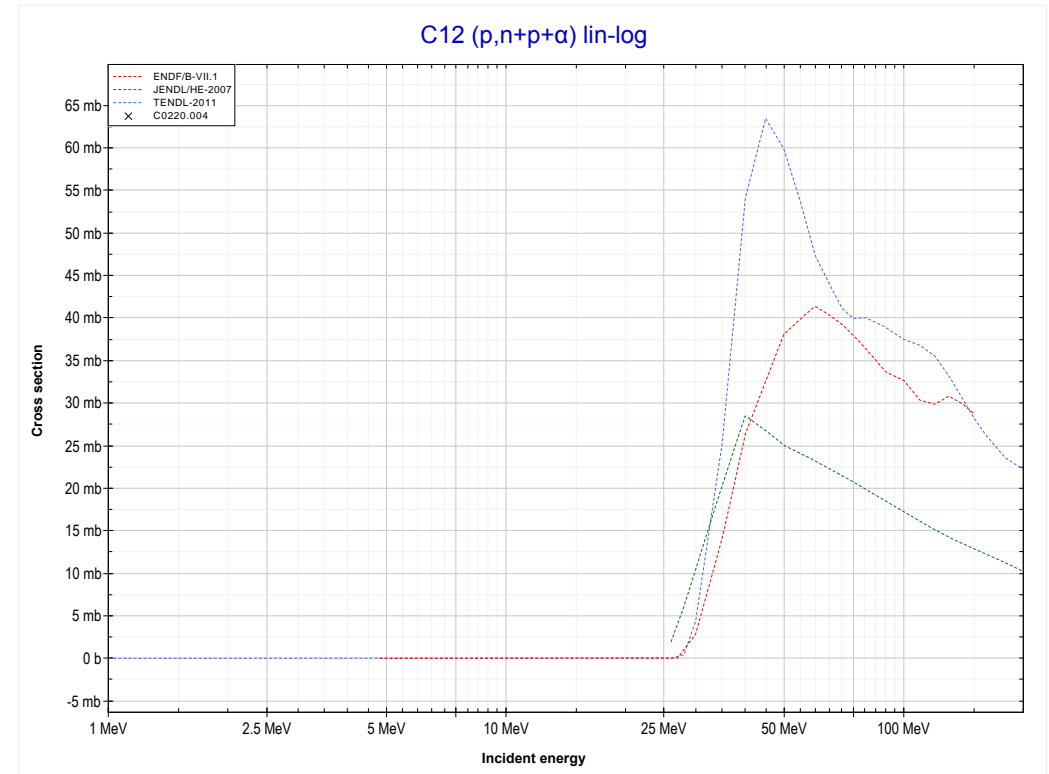
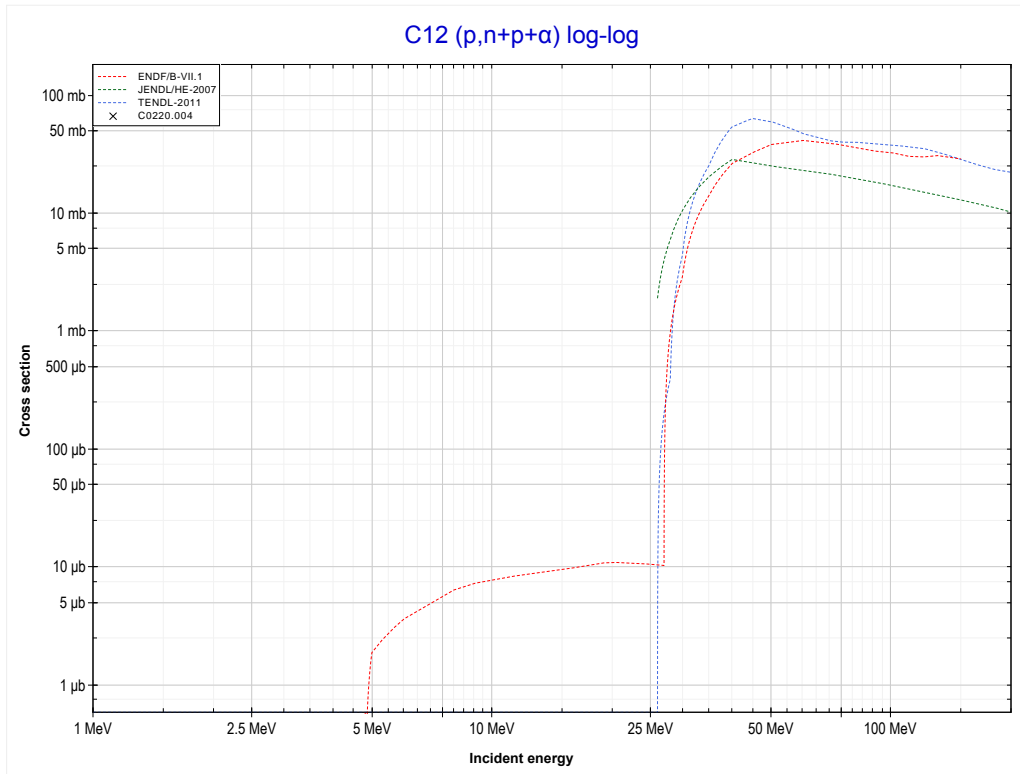
Reaction	Q-Value
B11(p,3p)Li9	-30864.34 keV

<< 1-H-2	<b>6-C-12</b>	7-N-14 >>
<< MT197 (p,3p)	<b>MT28 (p,n+p) or MT5 (C11 production)</b>	MT45 (p,n+p+α) >>



Reaction	Q-Value
C12(p,d)C11	-16497.05 keV
C12(p,n+p)C11	-18721.62 keV

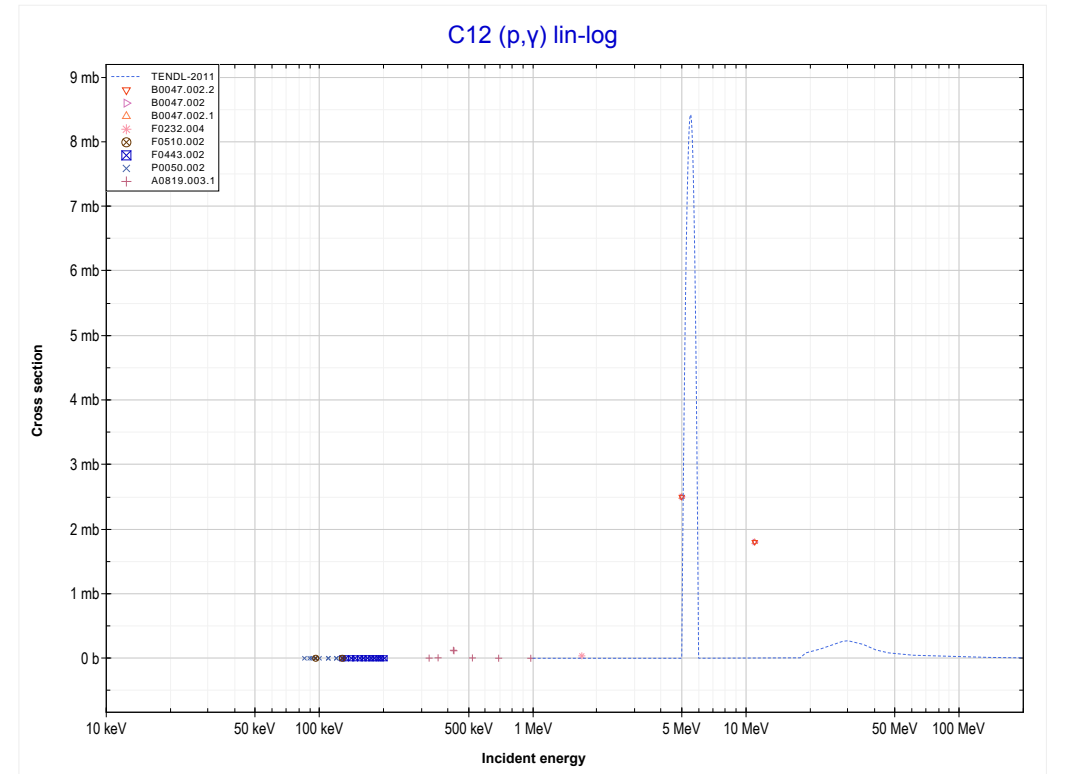
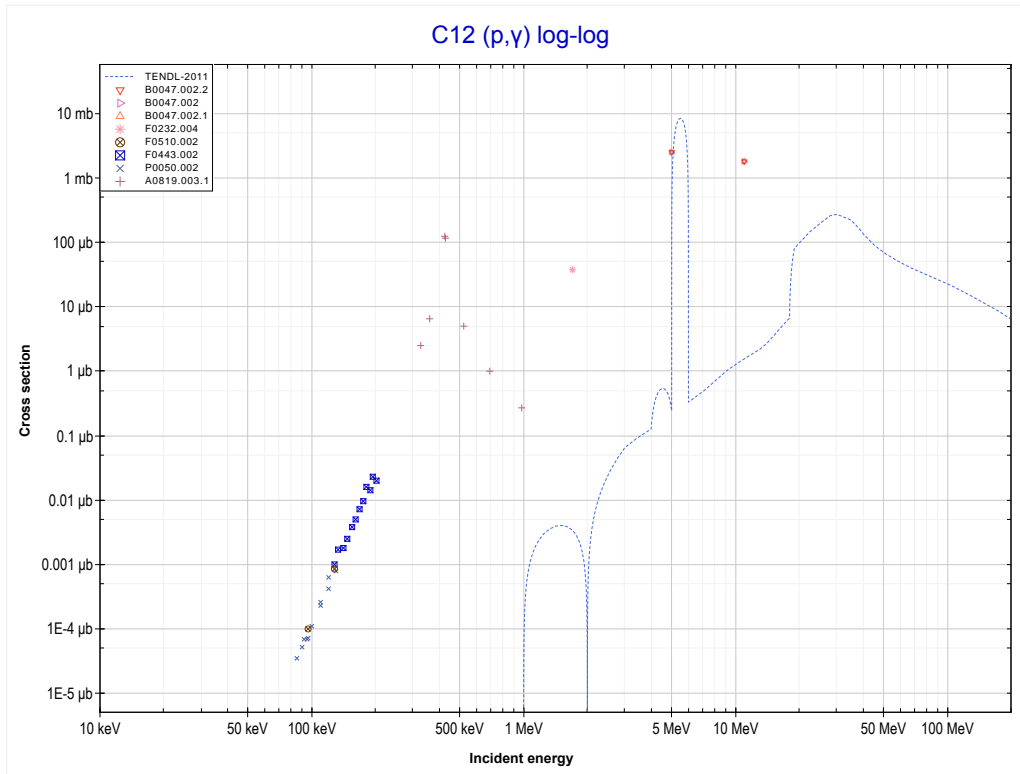
	<b>6-C-12</b>	8-O-16 >>
<< MT28 (p,n+p)	<b>MT45 (p,n+p+α) or MT5 (Be7 production)</b>	MT102 (p,γ) >>



Reaction	Q-Value	Reaction	Q-Value
C12(p,d+α)Be7	-24041.70 keV	C12(p,n+p+2d)Be7	-50112.79 keV
C12(p,n+p+α)Be7	-26266.26 keV	C12(p,2n+2p+d)Be7	-52337.36 keV
C12(p,t+He3)Be7	-38362.08 keV	C12(p,3n+3p)Be7	-54561.92 keV
C12(p,p+d+t)Be7	-43855.56 keV		
C12(p,n+d+He3)Be7	-44619.31 keV		
C12(p,n+2p+t)Be7	-46080.12 keV		
C12(p,2n+p+He3)Be7	-46843.88 keV		
C12(p,3d)Be7	-47888.22 keV		

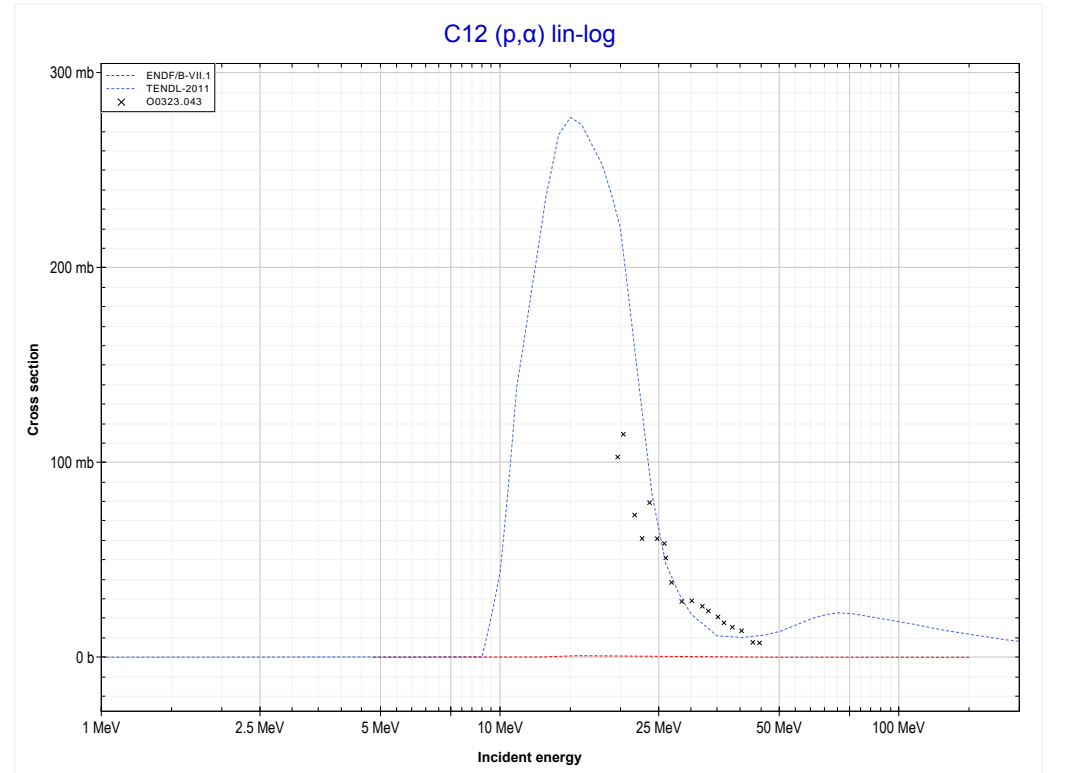
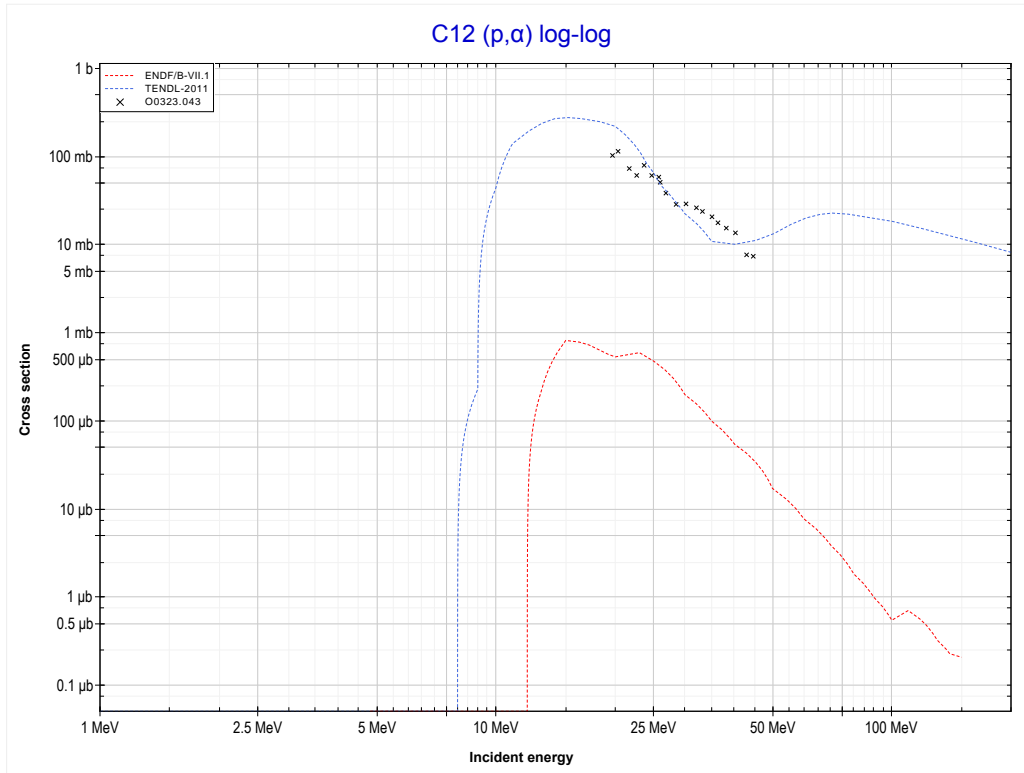


<< 5-B-11	<b>6-C-12</b>	8-O-16 >>
<< MT45 (p,n+p+α)	<b>MT102 (p,γ) or MT5 (N13 production)</b>	MT107 (p,α) >>



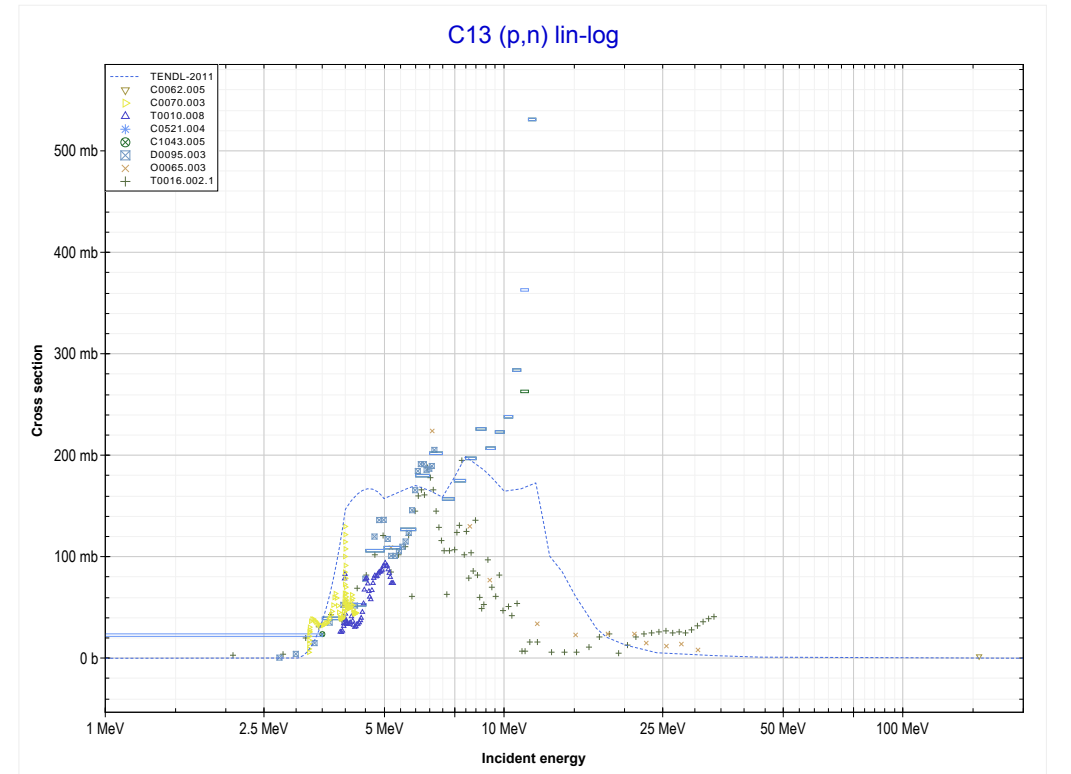
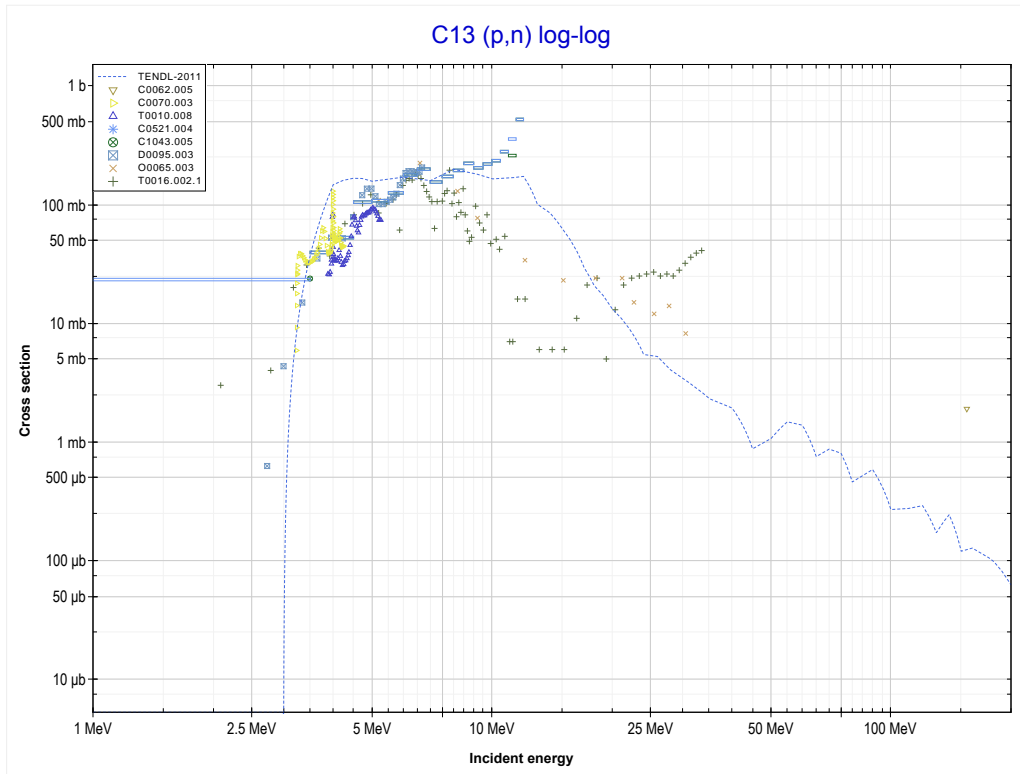
Reaction	Q-Value
C12(p,γ)N13	1943.49 keV

<< 5-B-11	<b>6-C-12</b>	7-N-14 >>
<< MT102 (p, $\gamma$ )	<b>MT107 (p,<math>\alpha</math>) or MT5 (B9 production)</b>	MT4 (p,n) >>



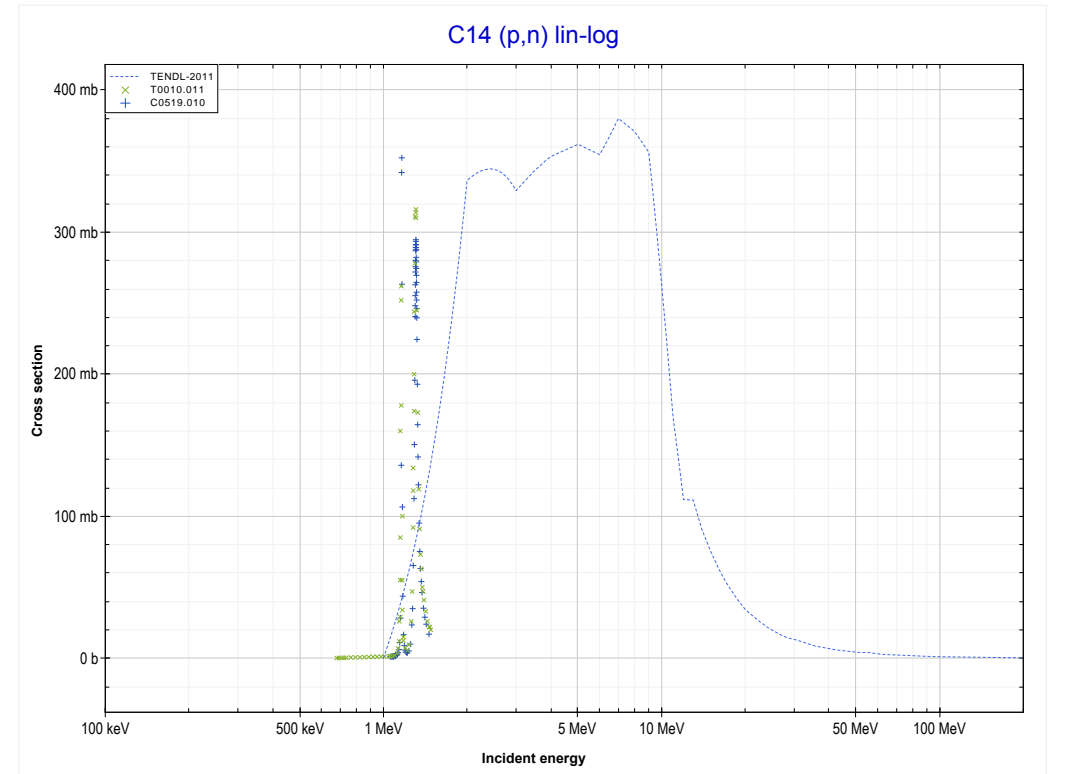
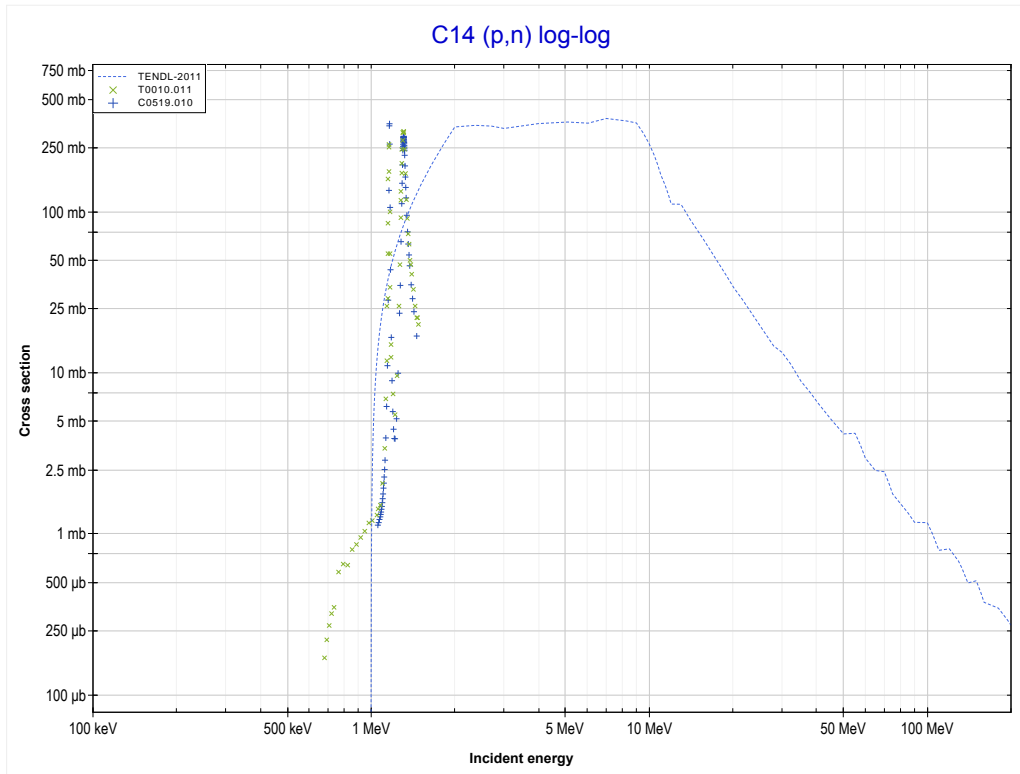
Reaction	Q-Value
C12(p, $\alpha$ )B9	-7551.65 keV
C12(p,p+t)B9	-27365.51 keV
C12(p,n+He3)B9	-28129.26 keV
C12(p,2d)B9	-31398.17 keV
C12(p,n+p+d)B9	-33622.74 keV
C12(p,2n+2p)B9	-35847.30 keV

<< 5-B-11	<b>6-C-13</b>	6-C-14 >>
<< MT107 (p, $\alpha$ )	<b>MT4 (p,n) or MT5 (N13 production)</b>	MT4 (p,n) >>



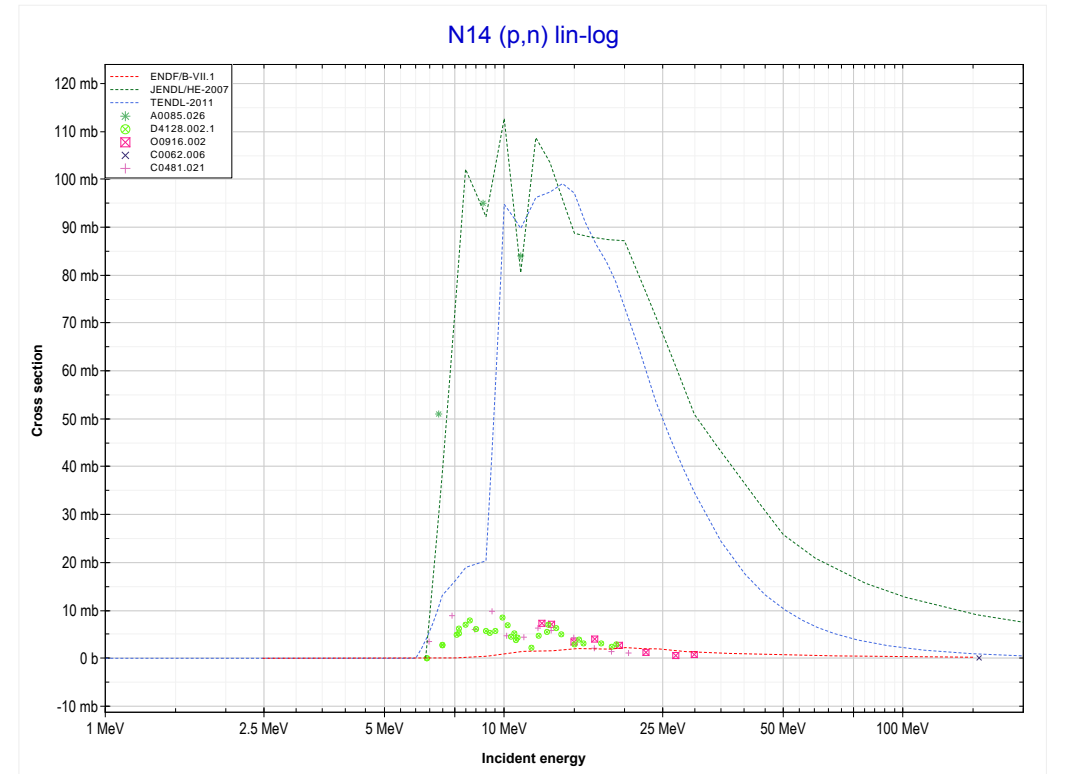
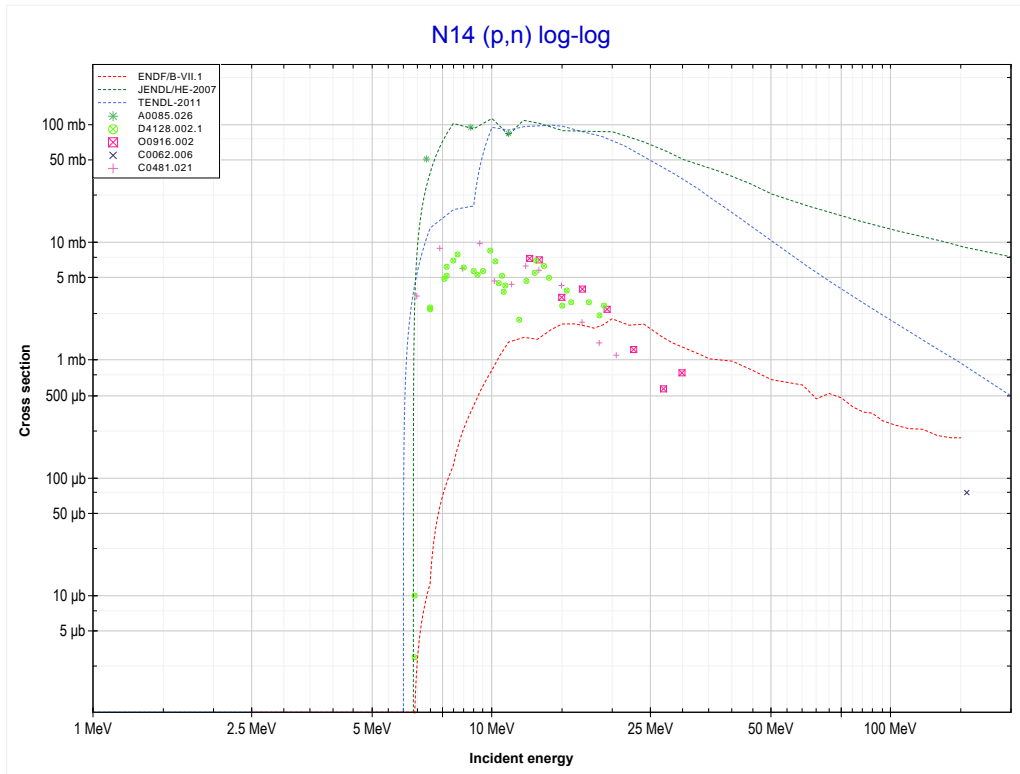
Reaction	Q-Value
C13(p,n)N13	-3002.82 keV

<< 6-C-13	<b>6-C-14</b>	7-N-14 >>
<< MT4 (p,n)	<b>MT4 (p,n) or MT5 (N14 production)</b>	MT4 (p,n) >>



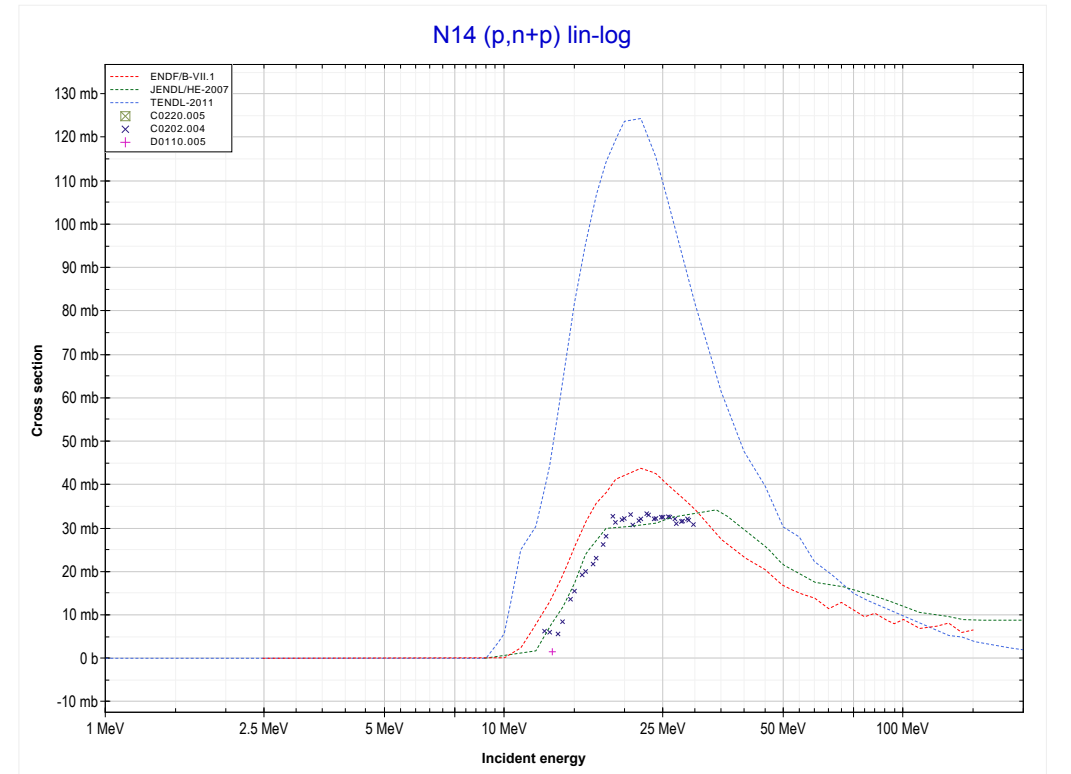
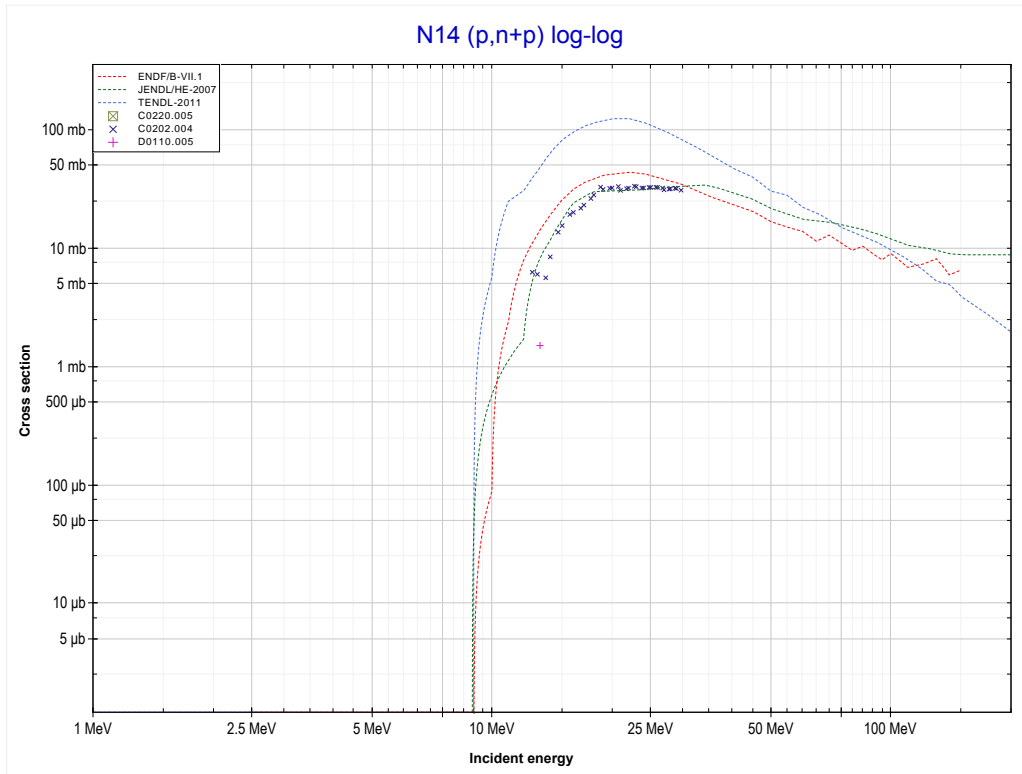
Reaction	Q-Value
C14(p,n)N14	-625.87 keV

<< 6-C-14	<b>7-N-14</b>	7-N-15 >>
<< MT4 (p,n)	<b>MT4 (p,n) or MT5 (O14 production)</b>	MT28 (p,n+p) >>



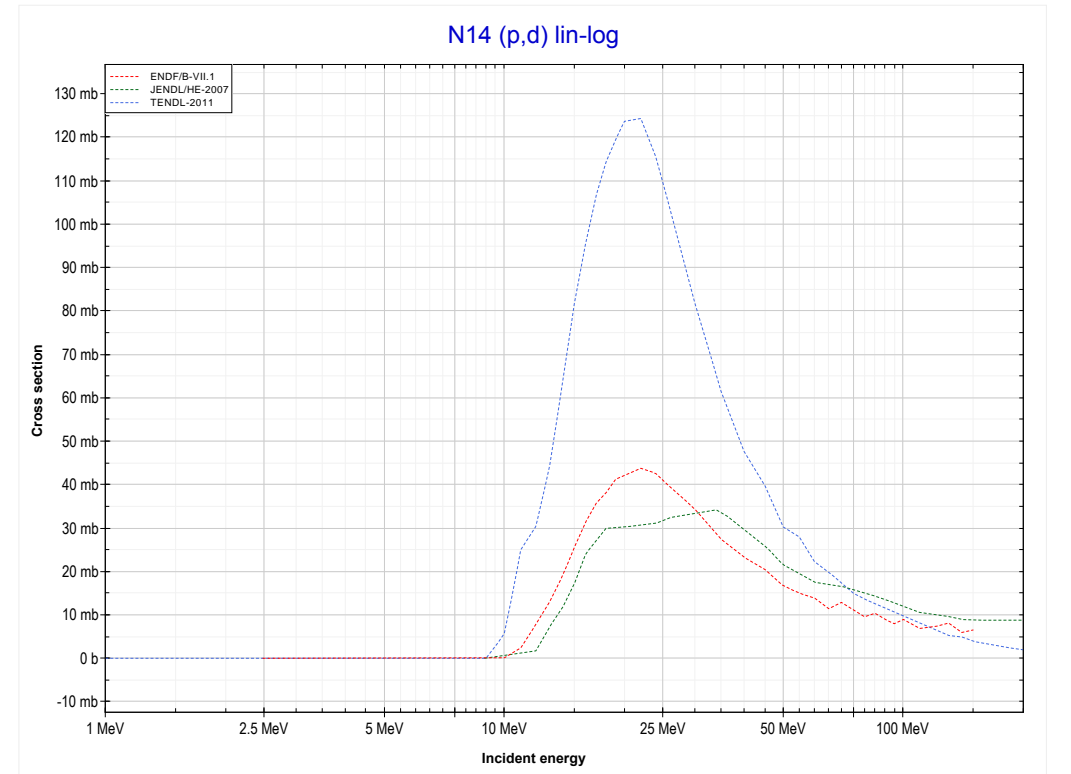
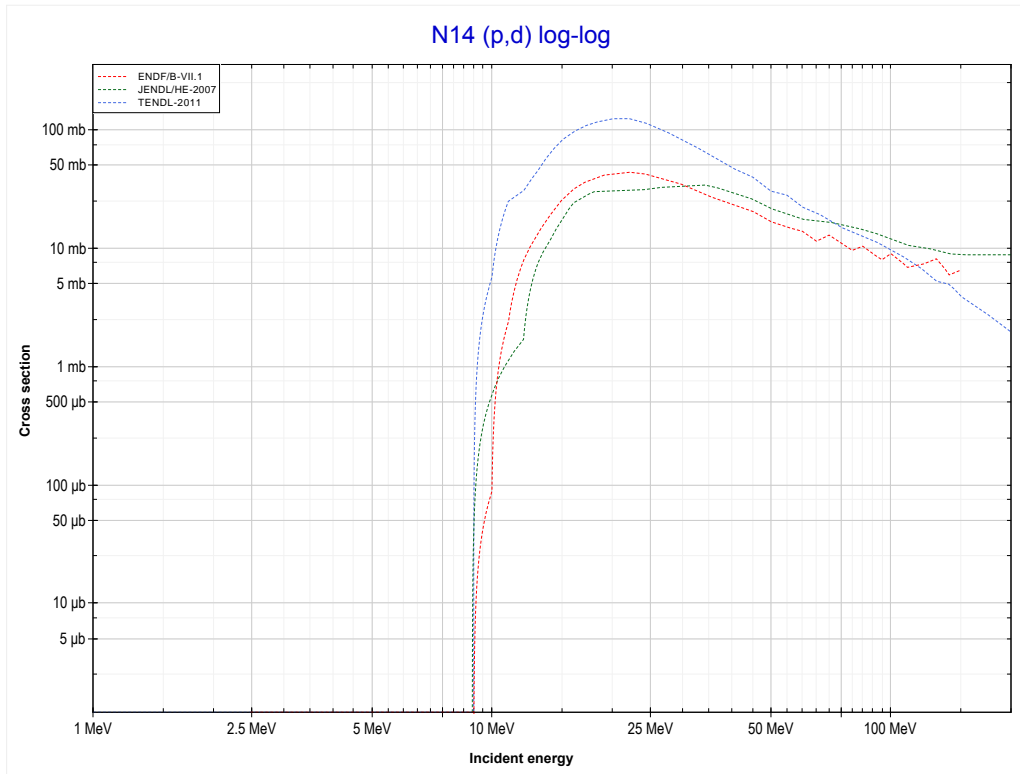
Reaction	Q-Value
N14(p,n)O14	-5926.29 keV

<< 6-C-12	<b>7-N-14</b>	8-O-16 >>
<< MT4 (p,n)	<b>MT28 (p,n+p) or MT5 (N13 production)</b>	MT104 (p,d) >>



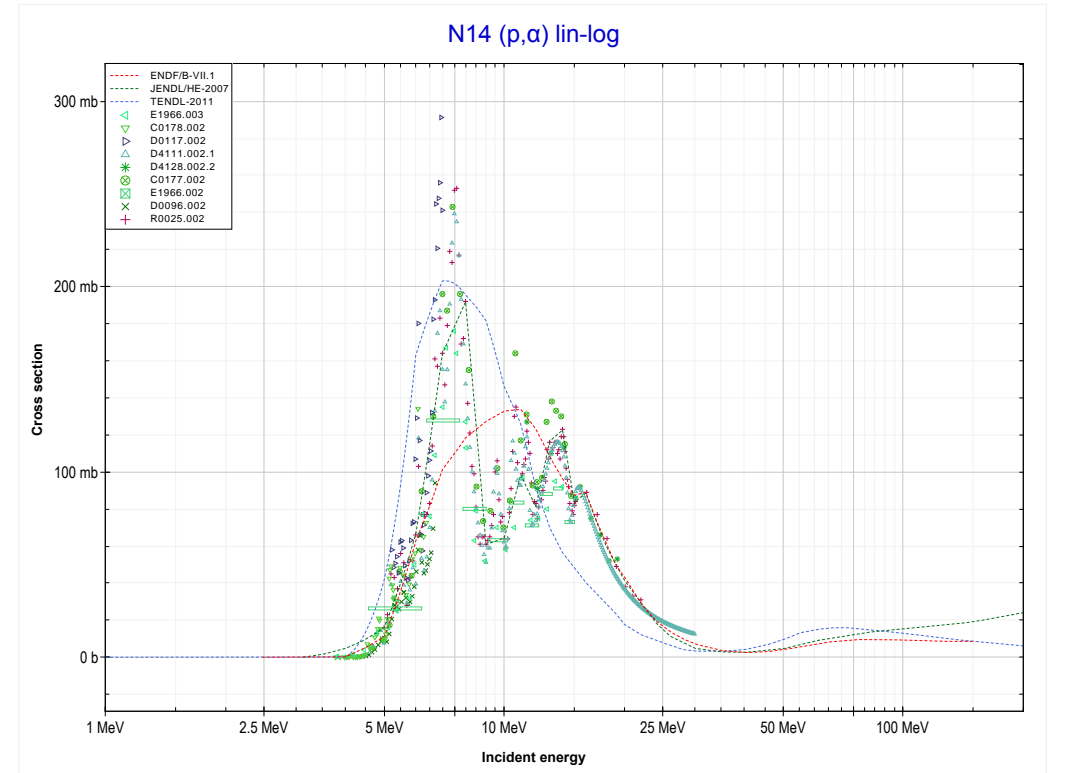
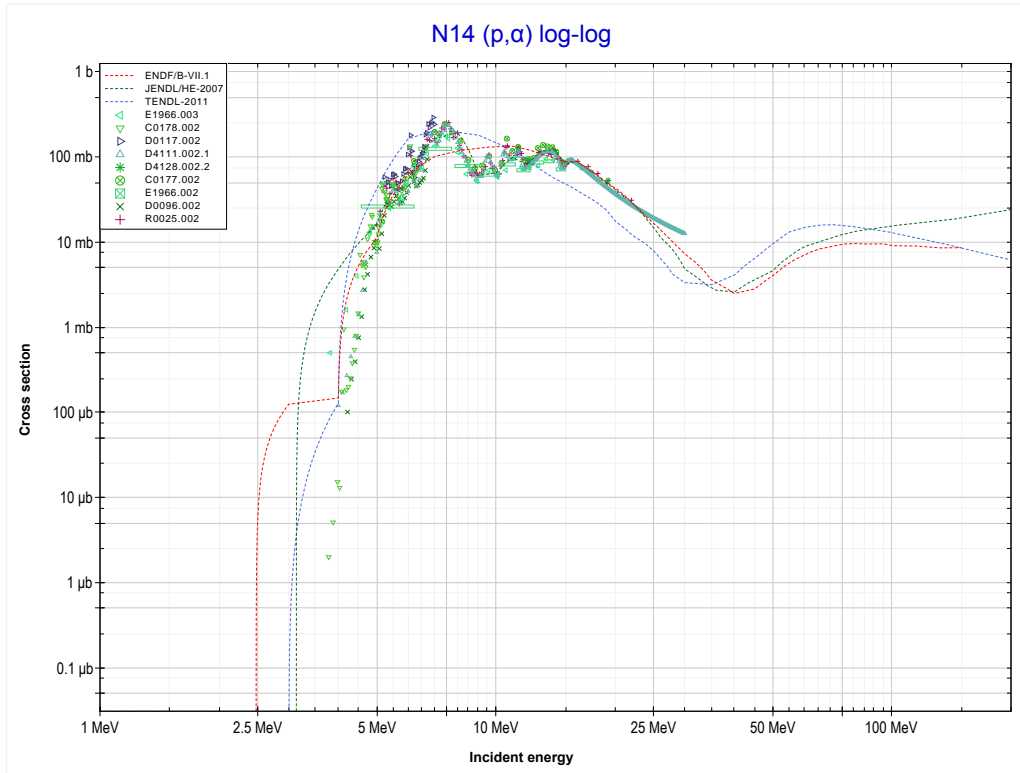
Reaction	Q-Value
N14(p,d)N13	-8328.81 keV
N14(p,n+p)N13	-10553.38 keV

<< 4-Be-9	<b>7-N-14</b>	90-Th-232 >>
<< MT28 (p,n+p)	<b>MT104 (p,d) or MT5 (N13 production)</b>	MT107 (p, $\alpha$ ) >>



Reaction	Q-Value
N14(p,d)N13	-8328.81 keV
N14(p,n+p)N13	-10553.38 keV

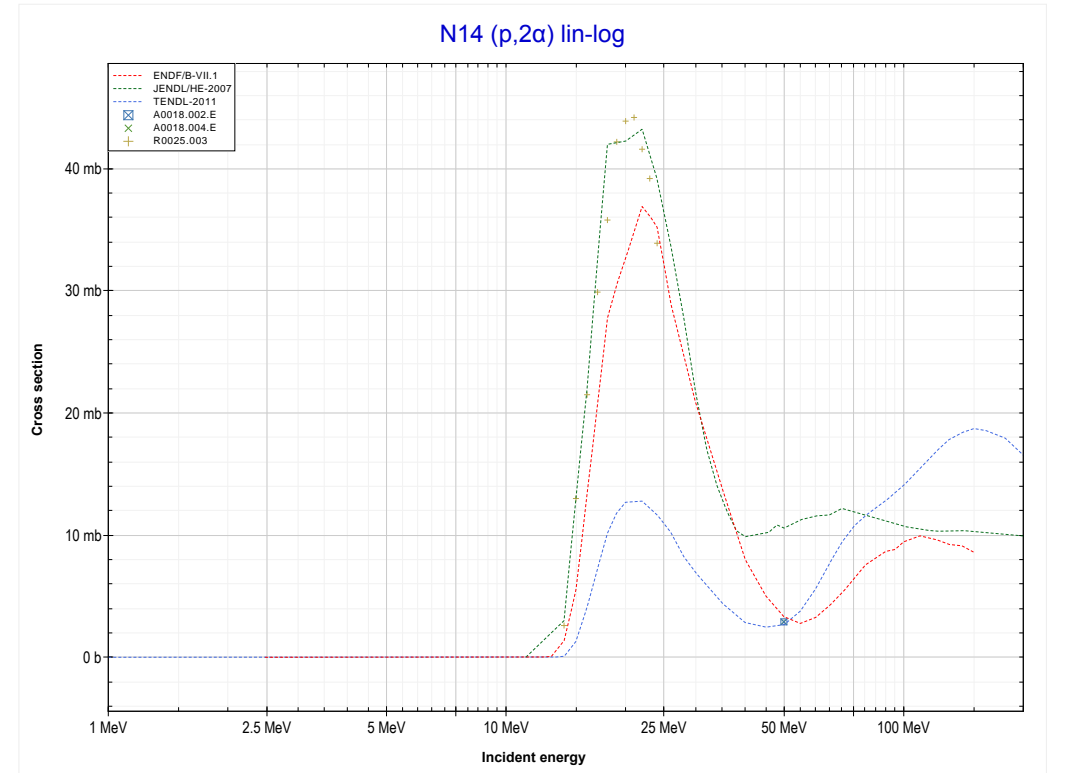
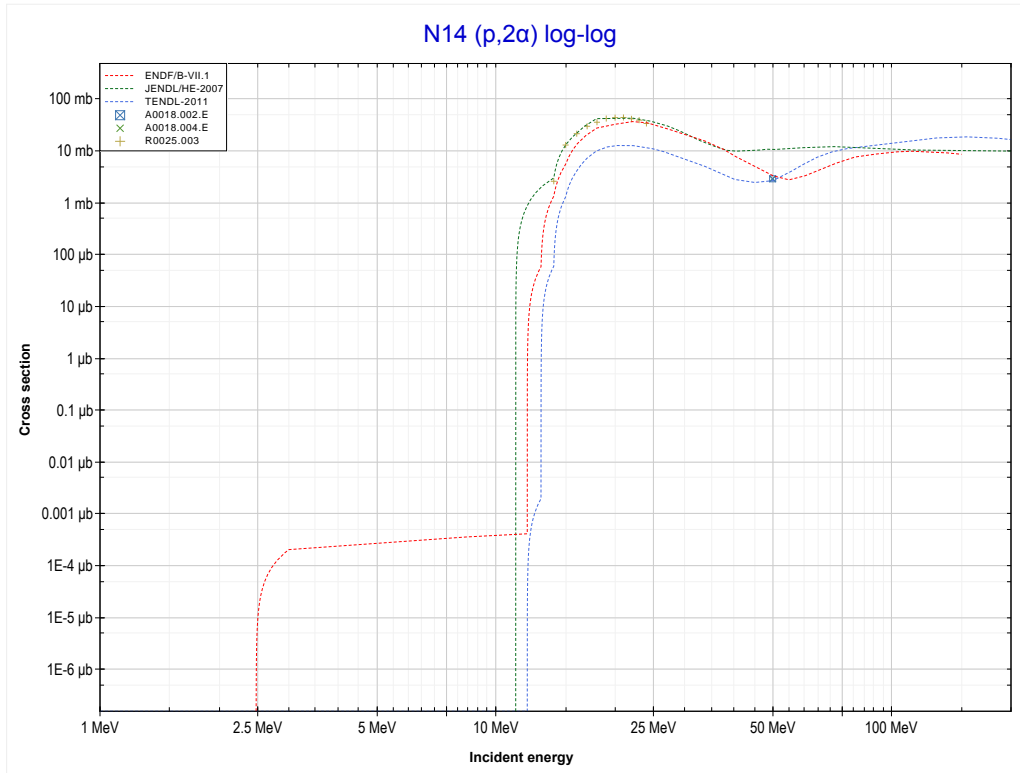
<< 6-C-12	<b>7-N-14</b>	7-N-15 >>
<< MT104 (p,d)	<b>MT107 (p,<math>\alpha</math>) or MT5 (C11 production)</b>	MT108 (p, $2\alpha$ ) >>



Reaction	Q-Value
N14(p, $\alpha$ )C11	-2922.83 keV
N14(p,p+t)C11	-22736.69 keV
N14(p,n+He3)C11	-23500.44 keV
N14(p, $2d$ )C11	-26769.36 keV
N14(p,n+p+d)C11	-28993.92 keV
N14(p, $2n+2p$ )C11	-31218.49 keV

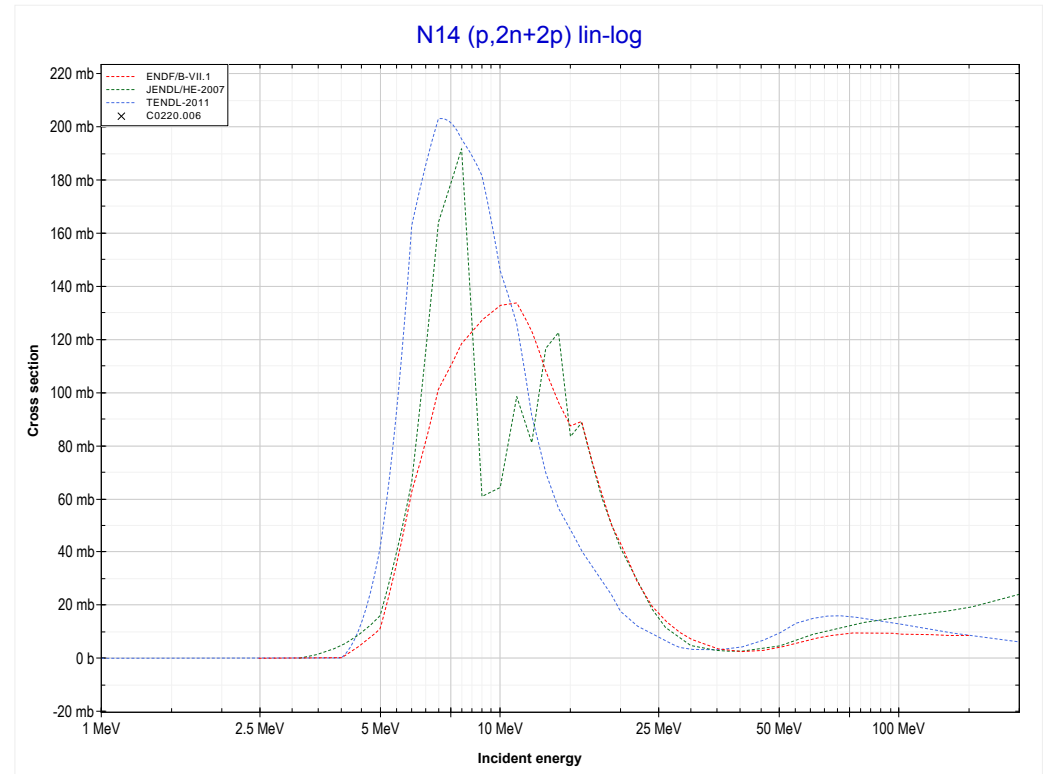
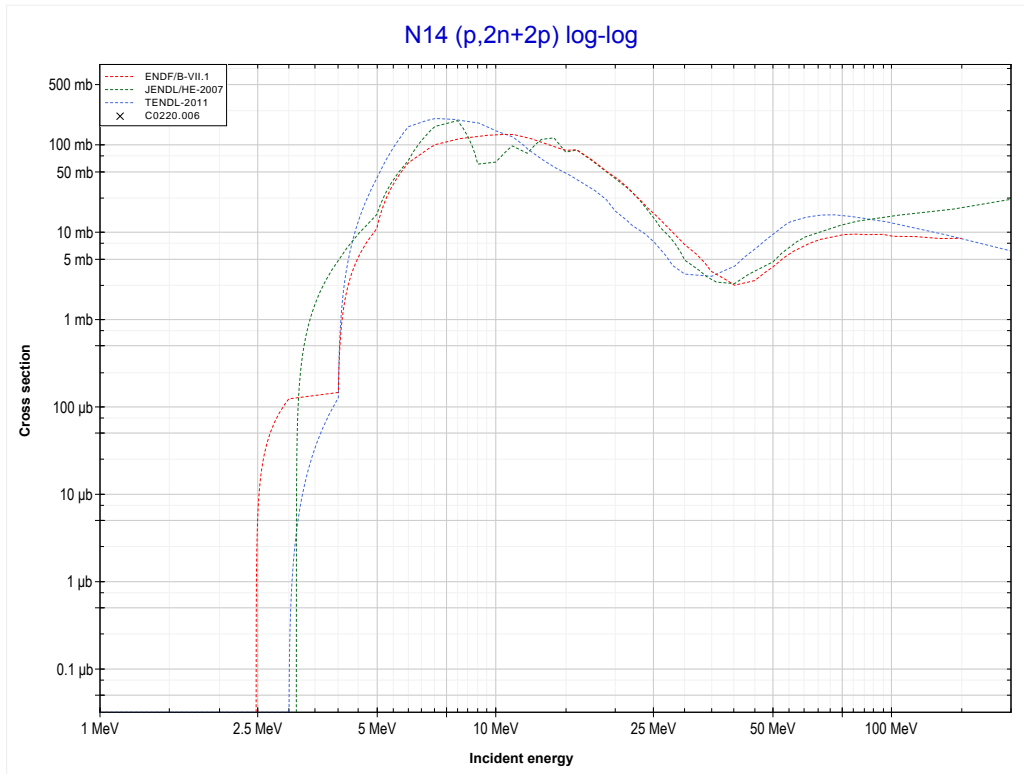


<< 5-B-11	<b>7-N-14</b>	22-Ti-50 >>
<< MT107 (p, $\alpha$ )	<b>MT108 (p,2<math>\alpha</math>) or MT5 (Be7 production)</b>	MT190 (p,2n+2p) >>



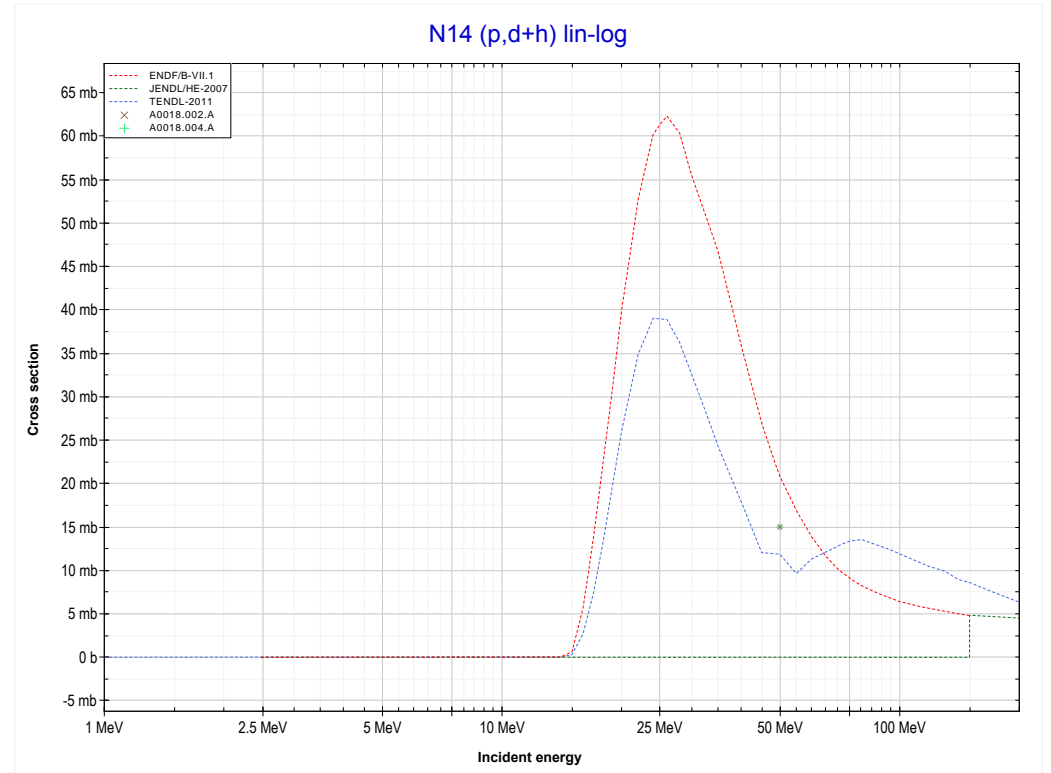
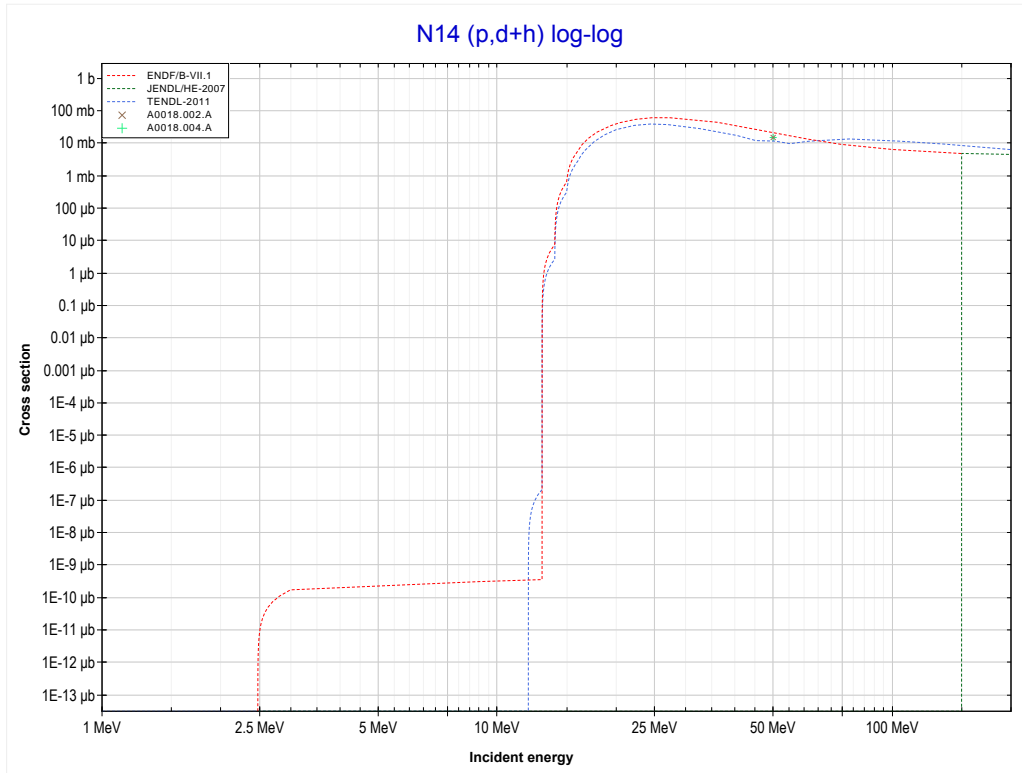
Reaction	Q-Value	Reaction	Q-Value
N14(p,2 $\alpha$ )Be7	-10467.47 keV	N14(p,n+p+t+He3)Be7	-50858.95 keV
N14(p,p+t $\alpha$ )Be7	-30281.33 keV	N14(p,2n+2He3)Be7	-51622.71 keV
N14(p,n+He3 $\alpha$ )Be7	-31045.09 keV	N14(p,p+2d+t)Be7	-54127.86 keV
N14(p,2d $\alpha$ )Be7	-34314.00 keV	N14(p,n+2d+He3)Be7	-54891.62 keV
N14(p,n+p+d $\alpha$ )Be7	-36538.57 keV	N14(p,n+2p+d+t)Be7	-56352.43 keV
N14(p,2n+2p $\alpha$ )Be7	-38763.13 keV	N14(p,2n+p+d+He3)Be7	-57116.18 keV
N14(p,d+t+He3)Be7	-48634.38 keV	N14(p,4d)Be7	-58160.53 keV
N14(p,2p+2t)Be7	-50095.20 keV	N14(p,2n+3p+t)Be7	-58576.99 keV

	<b>7-N-14</b>	8-O-16 >>
<< MT108 (p,2 $\alpha$ )	<b>MT190 (p,2n+2p) or MT5 (C11 production)</b>	MT192 (p,d+h) >>



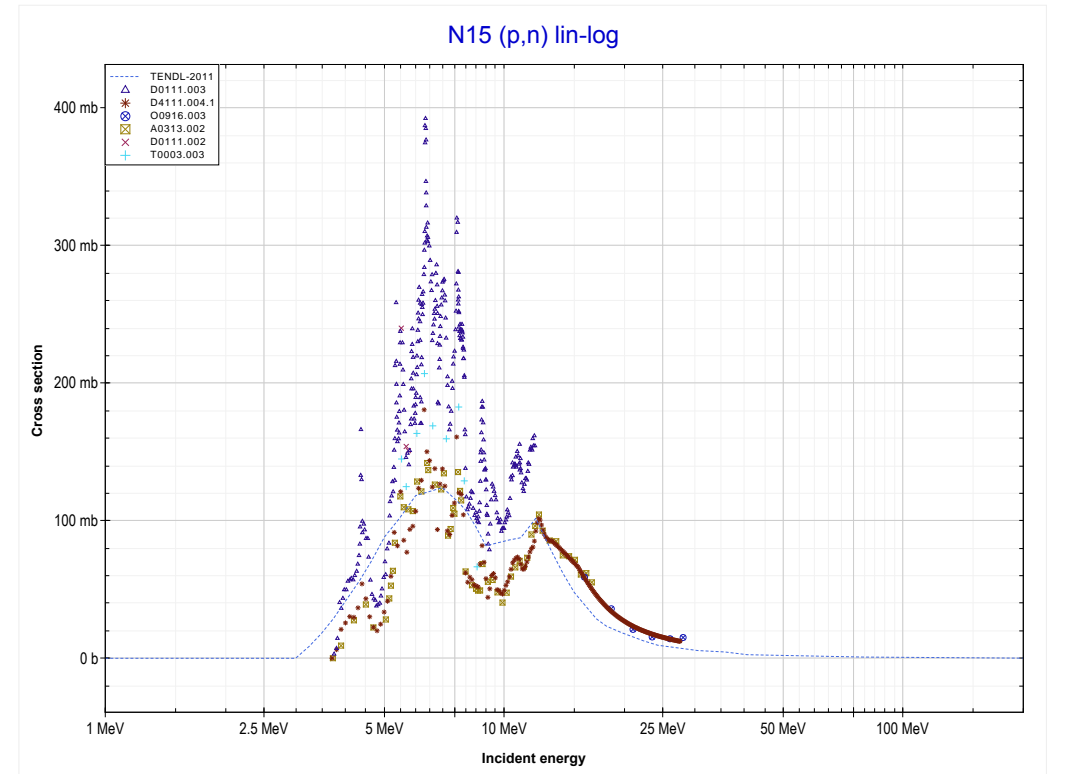
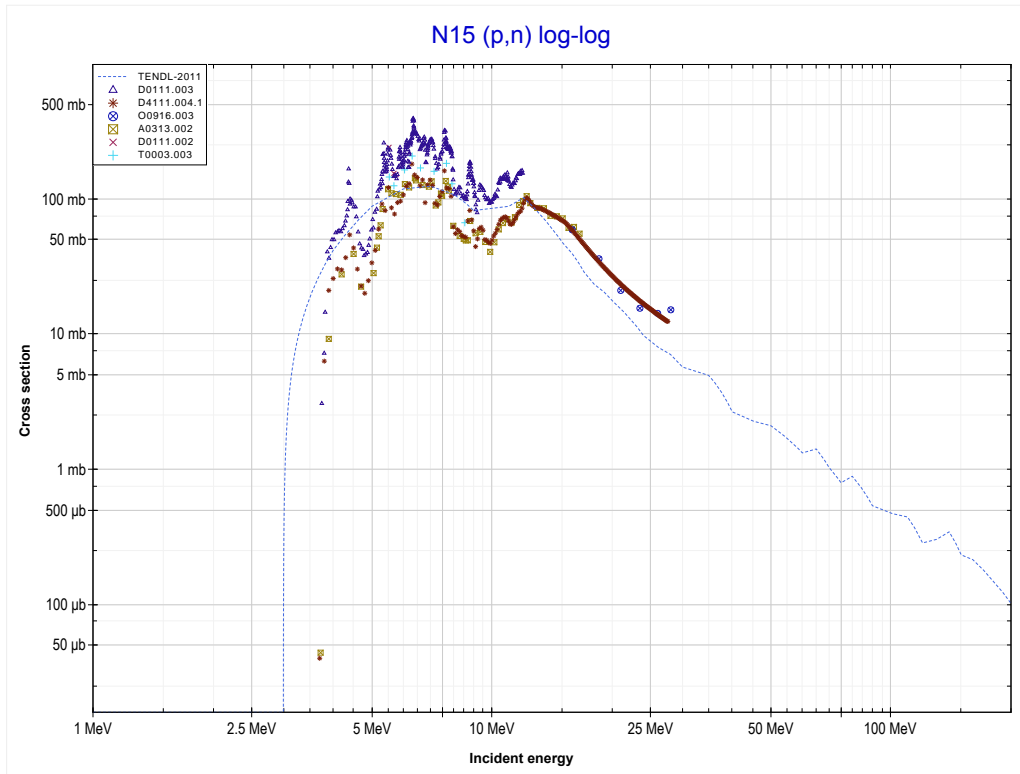
Reaction	Q-Value
N14(p, $\alpha$ )C11	-2922.83 keV
N14(p,p+t)C11	-22736.69 keV
N14(p,n+He3)C11	-23500.44 keV
N14(p,2d)C11	-26769.36 keV
N14(p,n+p+d)C11	-28993.92 keV
N14(p,2n+2p)C11	-31218.49 keV

	<b>7-N-14</b>	
<< MT190 (p,2n+2p)	<b>MT192 (p,d+h) or MT5 (B10 production)</b>	MT4 (p,n) >>



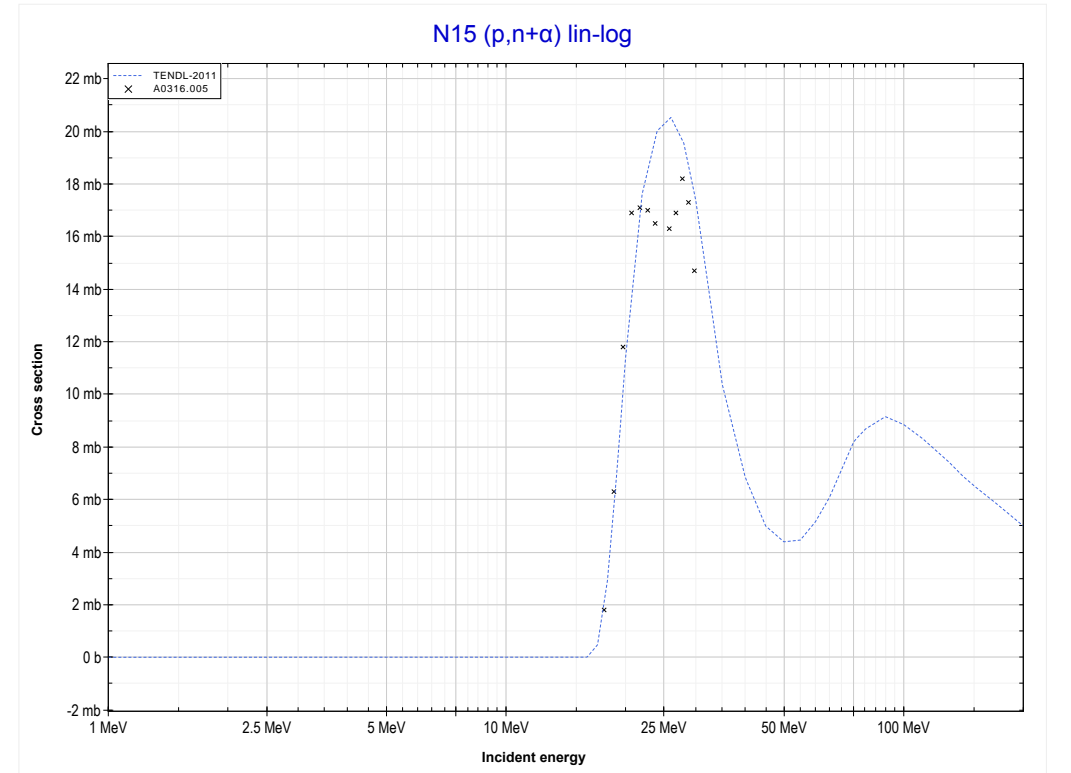
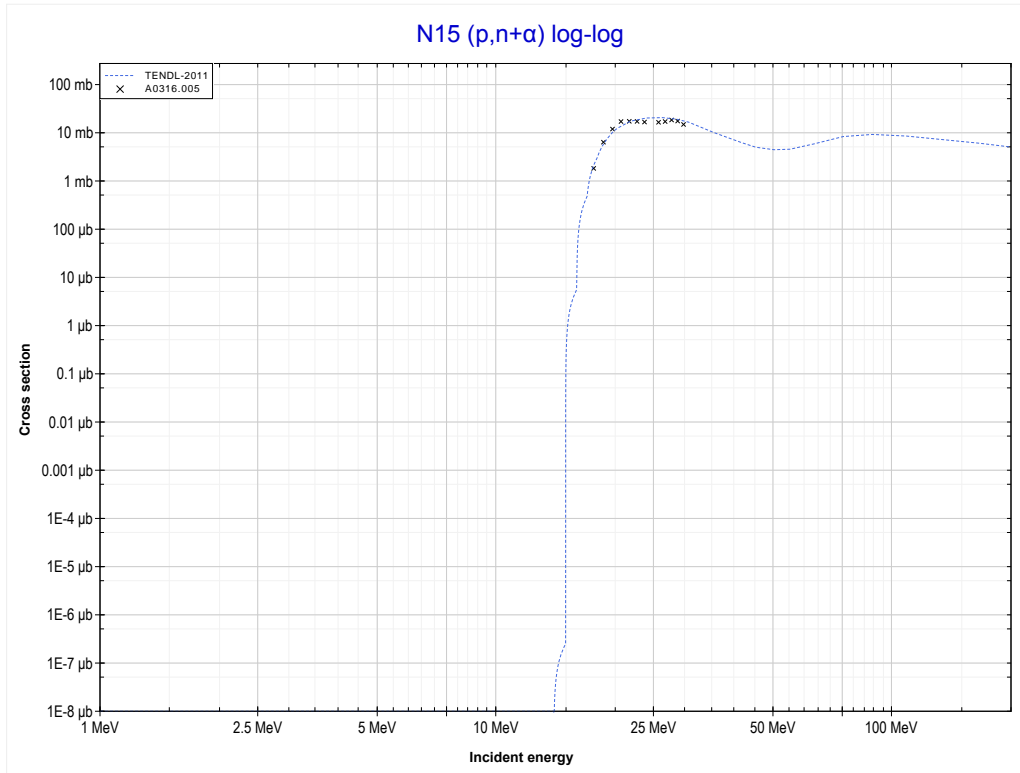
Reaction	Q-Value
N14(p,p+α)B10	-11612.20 keV
N14(p,d+He3)B10	-29965.25 keV
N14(p,2p+t)B10	-31426.06 keV
N14(p,n+p+He3)B10	-32189.81 keV
N14(p,p+2d)B10	-35458.73 keV
N14(p,n+2p+d)B10	-37683.29 keV
N14(p,2n+3p)B10	-39907.86 keV

<< 7-N-14	<b>7-N-15</b>	8-O-17 >>
<< MT192 (p,d+h)	<b>MT4 (p,n) or MT5 (O15 production)</b>	MT22 (p,n+α) >>



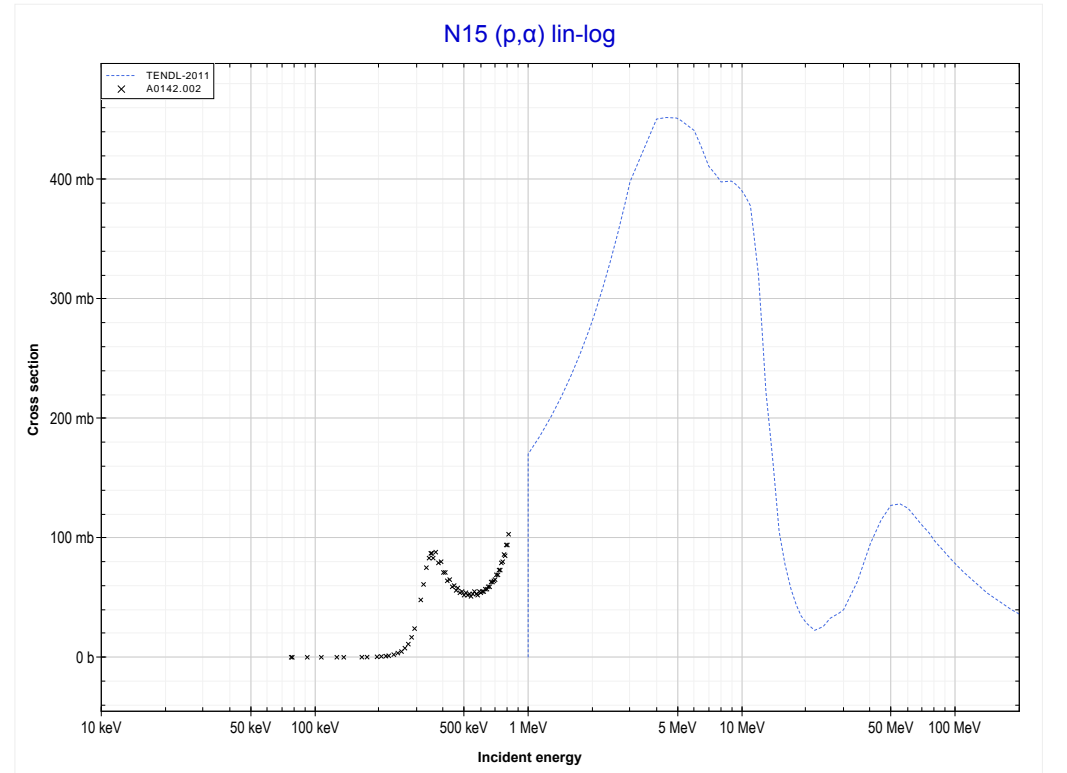
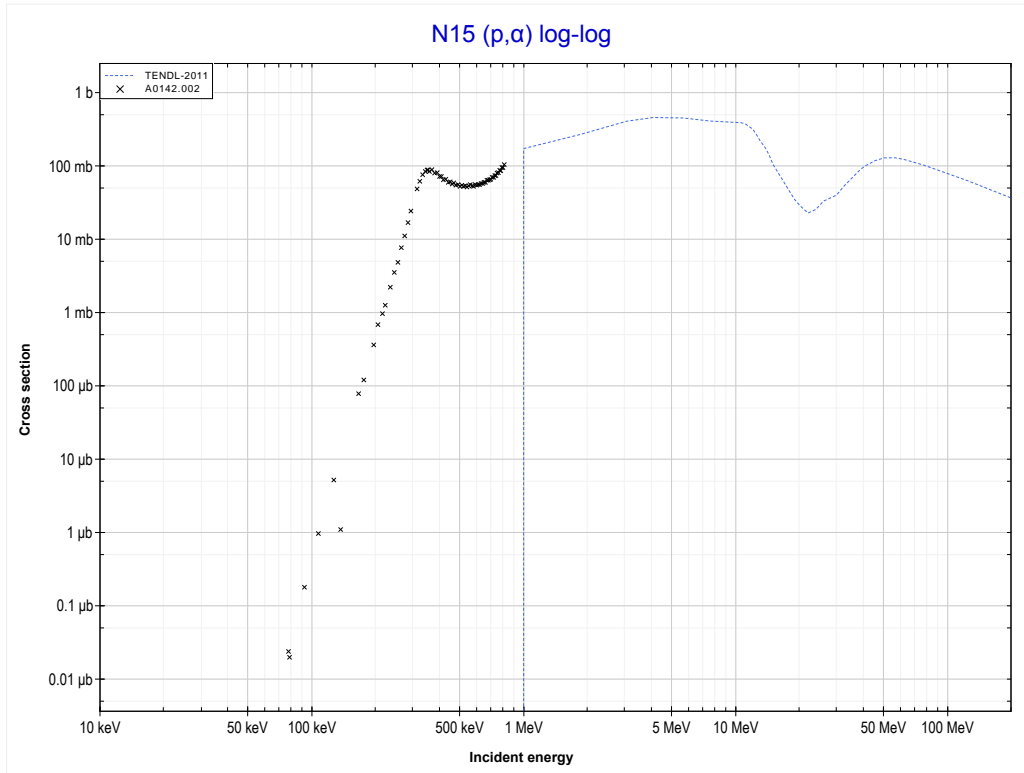
Reaction	Q-Value
N15(p,n)O15	-3536.51 keV

	<b>7-N-15</b>	<b>22-Ti-47 &gt;&gt;</b>
<b>&lt;&lt; MT4 (p,n)</b>	<b>MT22 (p,n+α) or MT5 (C11 production)</b>	<b>MT107 (p,α) &gt;&gt;</b>



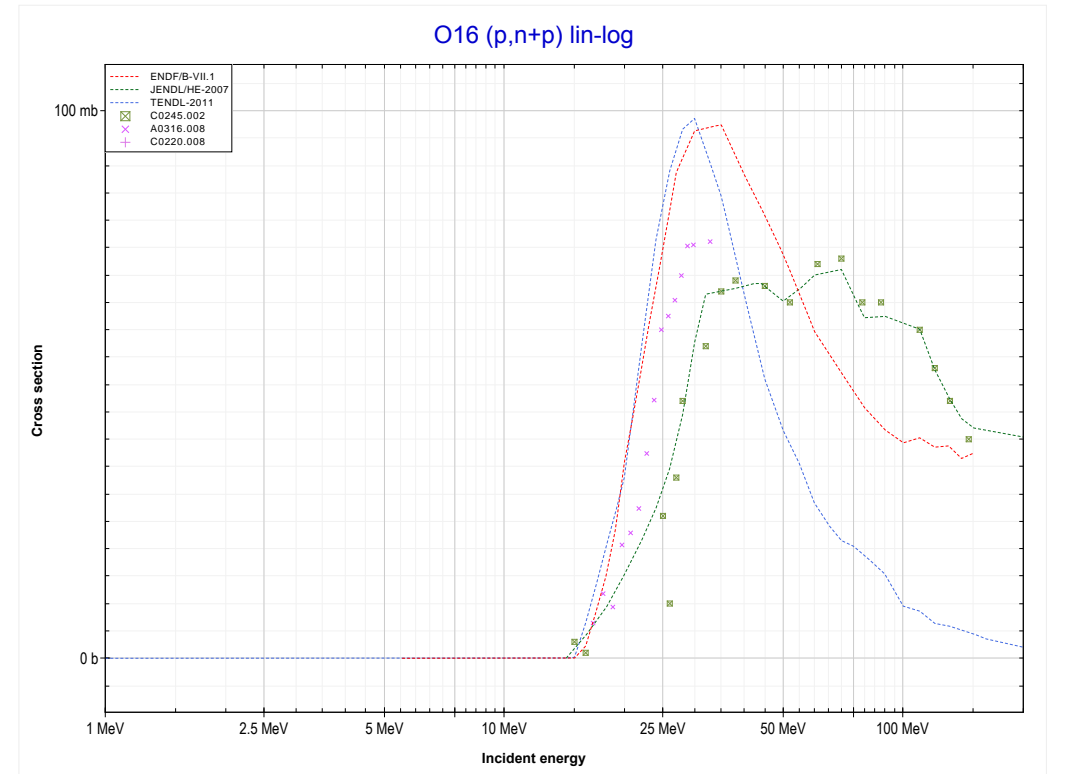
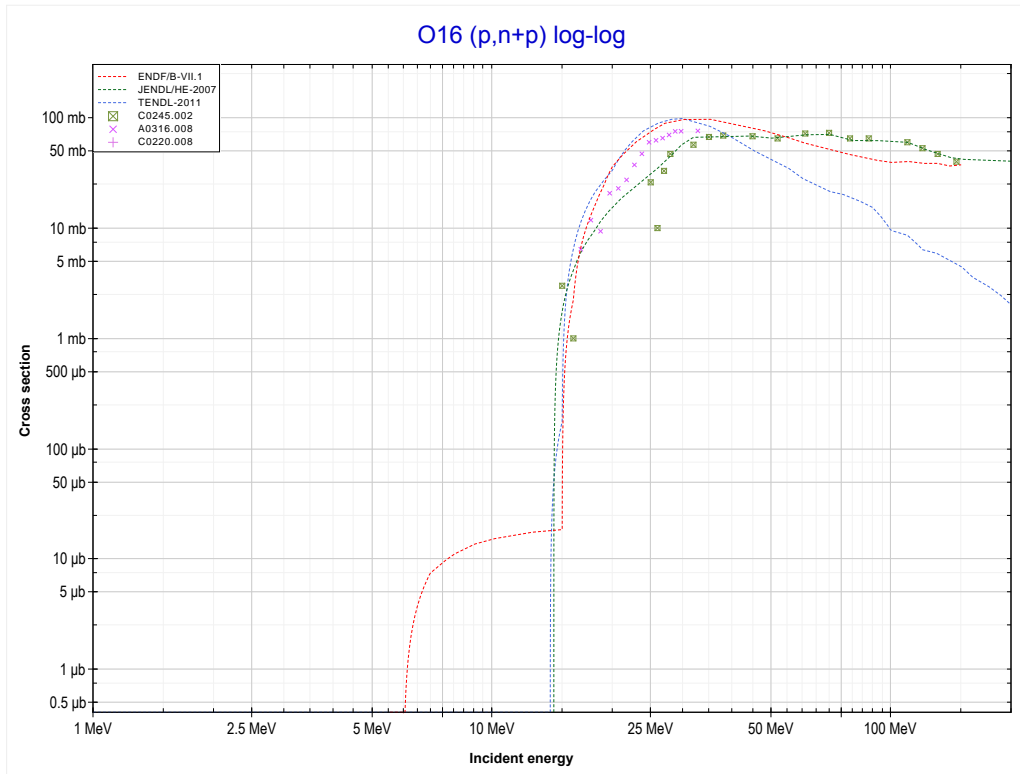
Reaction	Q-Value
N15(p,n+α)C11	-13756.12 keV
N15(p,d+t)C11	-31345.42 keV
N15(p,n+p+t)C11	-33569.99 keV
N15(p,2n+He3)C11	-34333.74 keV
N15(p,n+2d)C11	-37602.65 keV
N15(p,2n+p+d)C11	-39827.22 keV
N15(p,3n+2p)C11	-42051.78 keV

<< 7-N-14	<b>7-N-15</b>	8-O-16 >>
<< MT22 (p,n+α)	<b>MT107 (p,α) or MT5 (C12 production)</b>	MT28 (p,n+p) >>



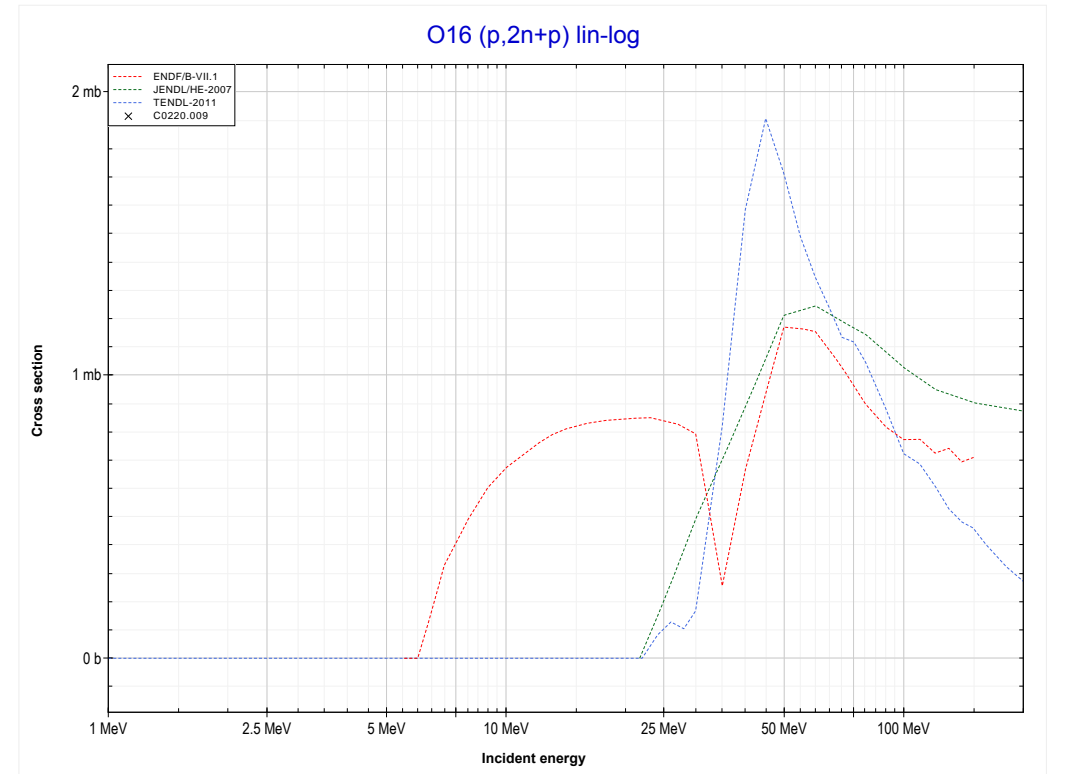
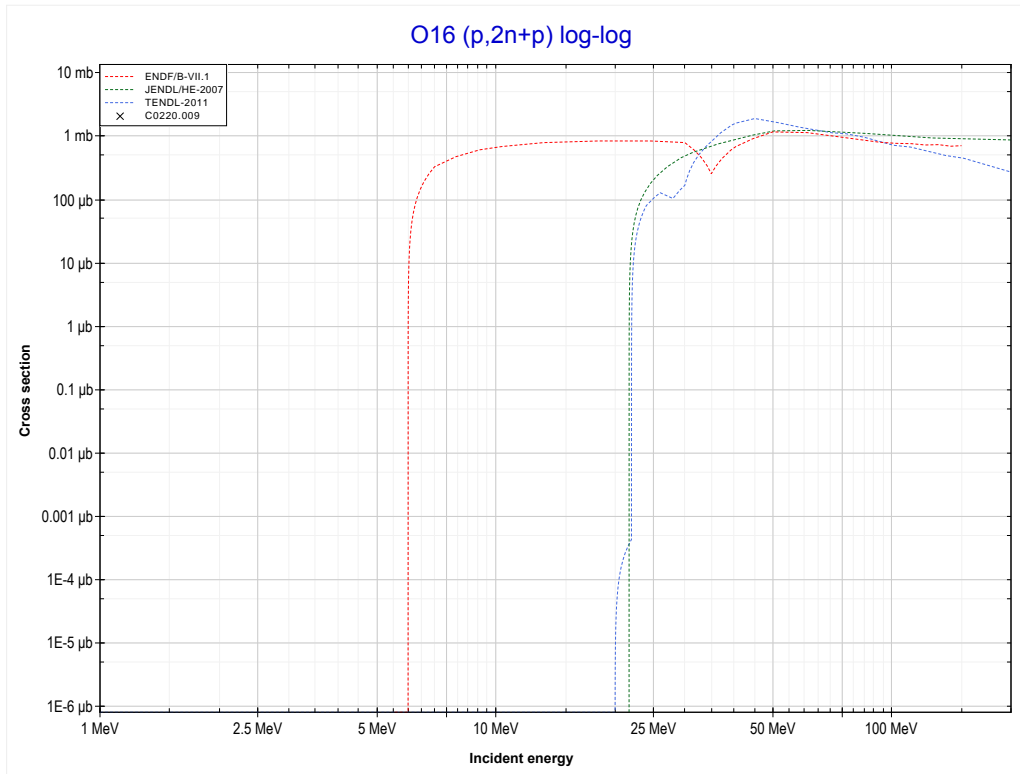
Reaction	Q-Value
N15(p,α)C12	4965.49 keV
N15(p,p+t)C12	-14848.37 keV
N15(p,n+He3)C12	-15612.12 keV
N15(p,2d)C12	-18881.03 keV
N15(p,n+p+d)C12	-21105.60 keV
N15(p,2n+2p)C12	-23330.17 keV

<< 7-N-14	<b>8-O-16</b>	9-F-19 >>
<< MT107 (p, $\alpha$ )	<b>MT28 (p,n+p) or MT5 (O15 production)</b>	MT41 (p,2n+p) >>



Reaction	Q-Value
O16(p,d)O15	-13439.35 keV
O16(p,n+p)O15	-15663.92 keV

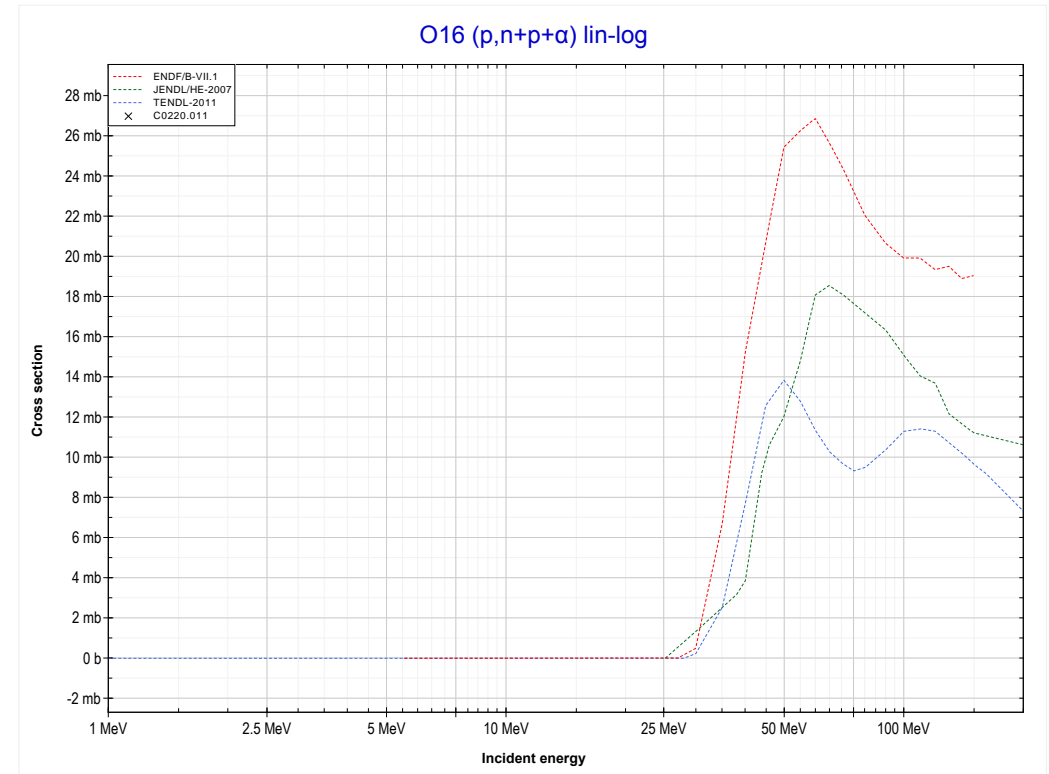
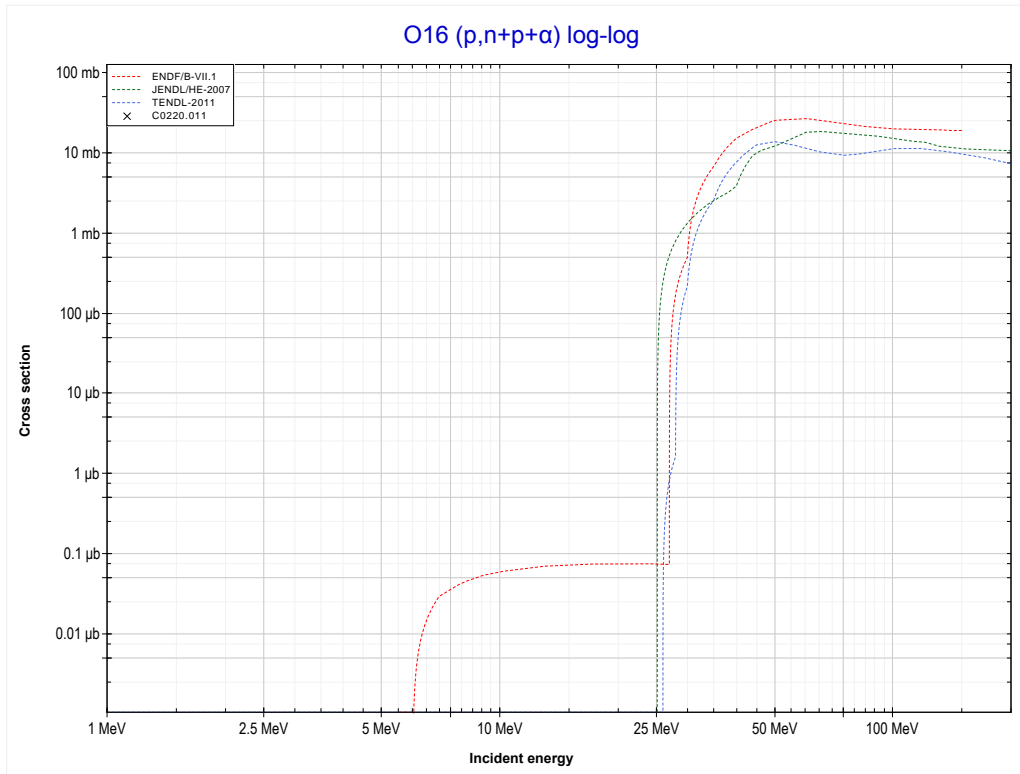
<< 4-Be-9	8-O-16	21-Sc-45 >>
<< MT28 (p,n+p)	MT41 (p,2n+p) or MT5 (O14 production)	MT45 (p,n+p+α) >>



Reaction	Q-Value
O16(p,t)O14	-20405.20 keV
O16(p,n+d)O14	-26662.43 keV
O16(p,2n+p)O14	-28887.00 keV

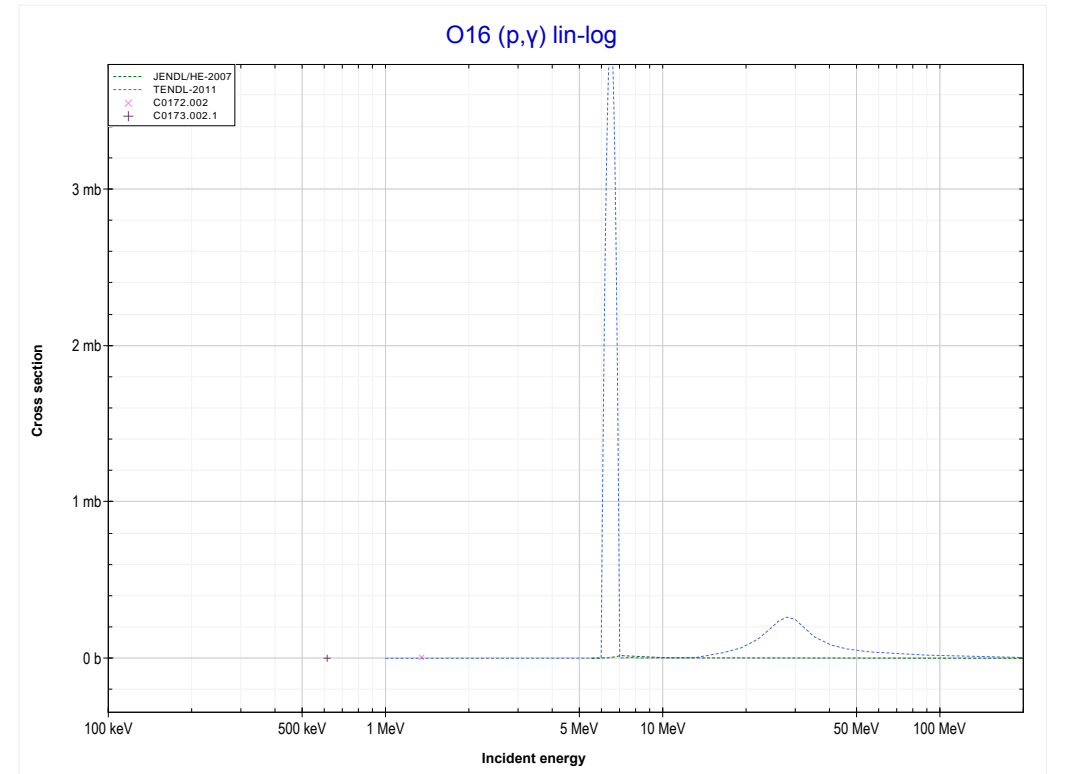
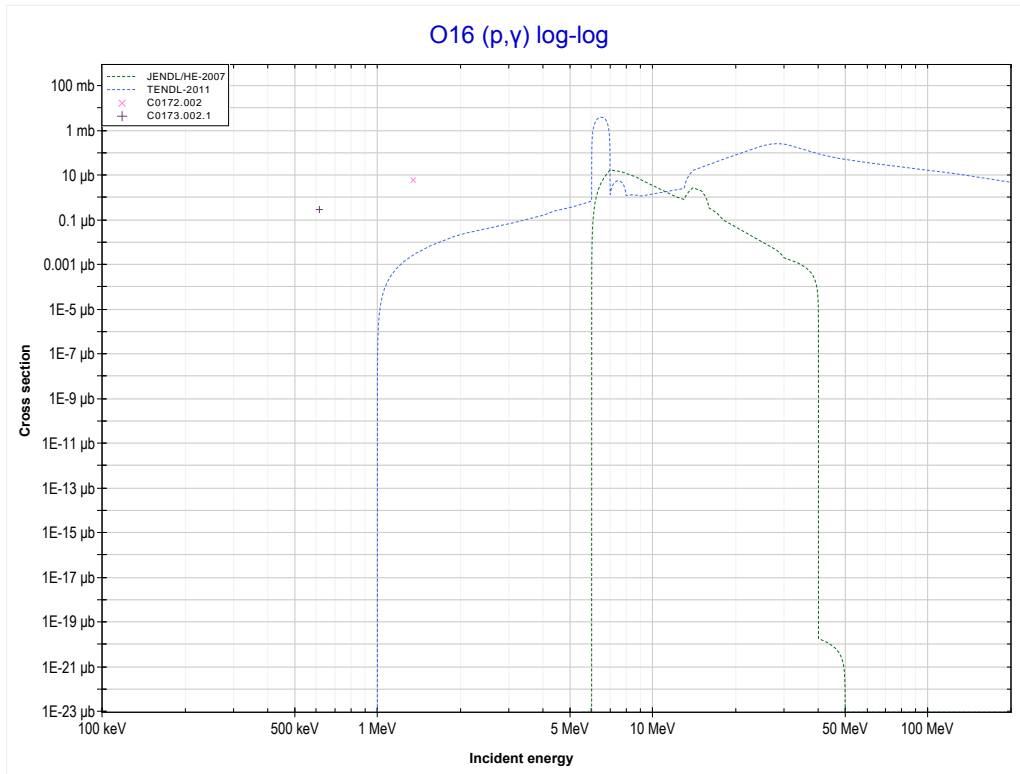


<< 6-C-12	<b>8-O-16</b>	11-Na-23 >>
<< MT41 (p,2n+p)	<b>MT45 (p,n+p+α) or MT5 (C11 production)</b>	MT102 (p,γ) >>



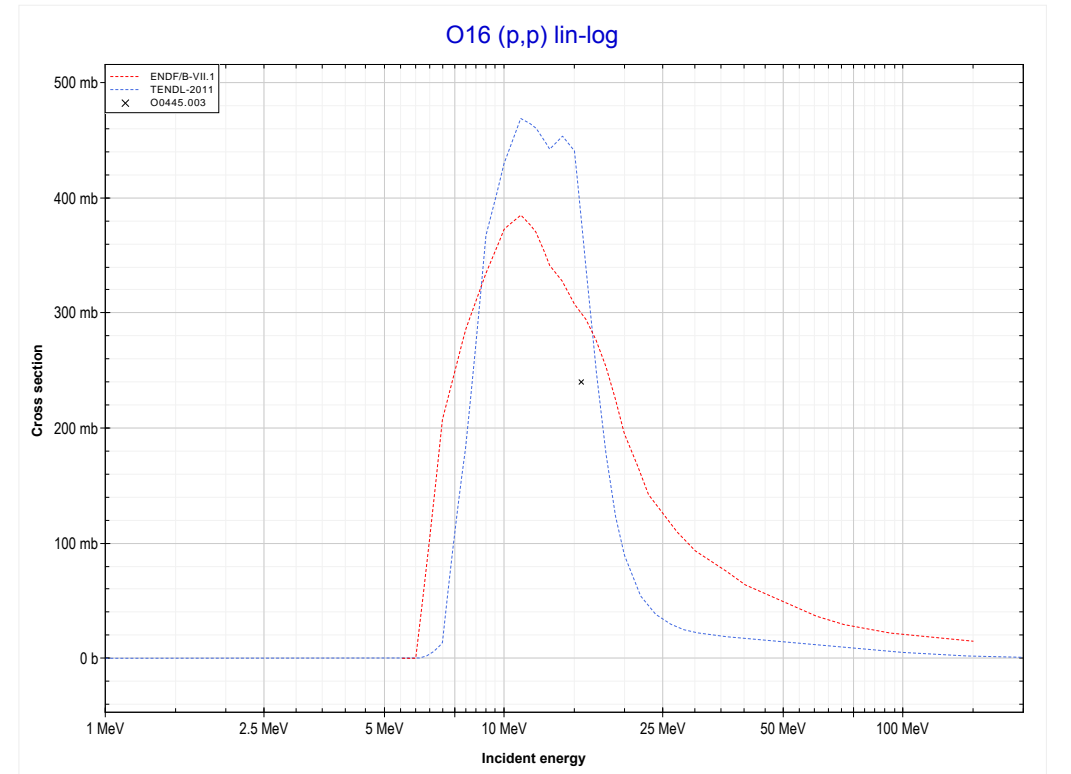
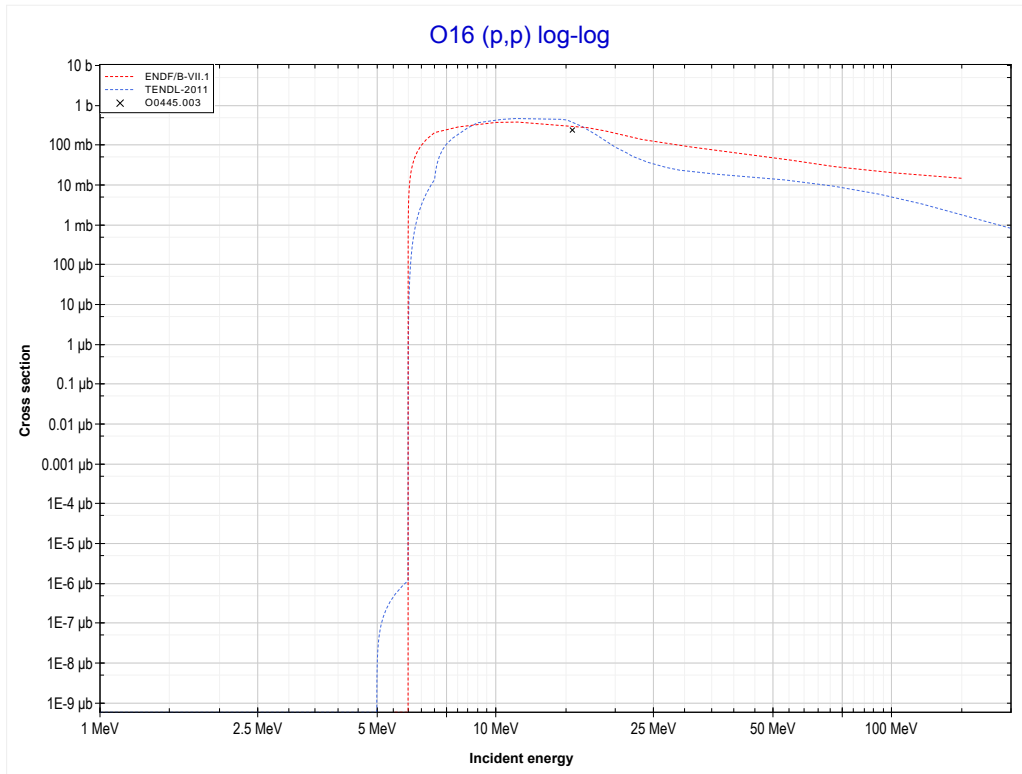
Reaction	Q-Value	Reaction	Q-Value
O16(p,d+α)C11	-23658.97 keV	O16(p,n+p+2d)C11	-49730.06 keV
O16(p,n+p+α)C11	-25883.53 keV	O16(p,2n+2p+d)C11	-51954.63 keV
O16(p,t+He3)C11	-37979.35 keV	O16(p,3n+3p)C11	-54179.19 keV
O16(p,p+d+t)C11	-43472.83 keV		
O16(p,n+d+He3)C11	-44236.58 keV		
O16(p,n+2p+t)C11	-45697.39 keV		
O16(p,2n+p+He3)C11	-46461.15 keV		
O16(p,3d)C11	-47505.50 keV		

<< 6-C-12	<b>8-O-16</b>	8-O-17 >>
<< MT45 (p,n+p+α)	<b>MT102 (p,γ) or MT5 (F17 production)</b>	MT103 (p,p) >>



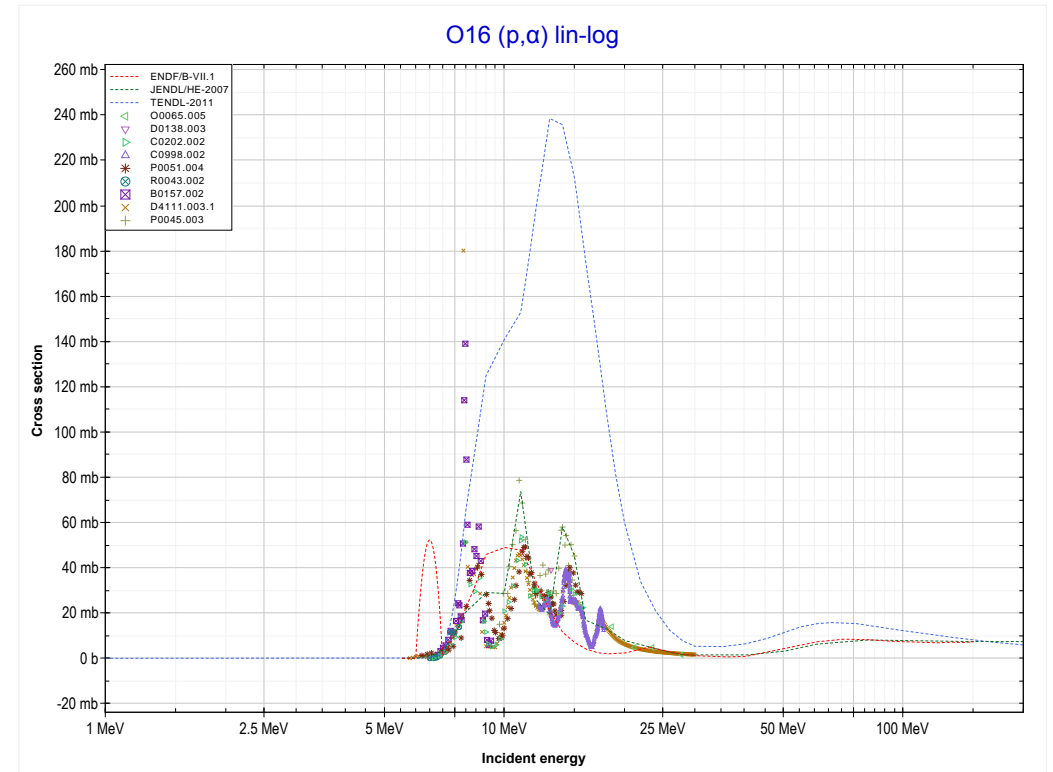
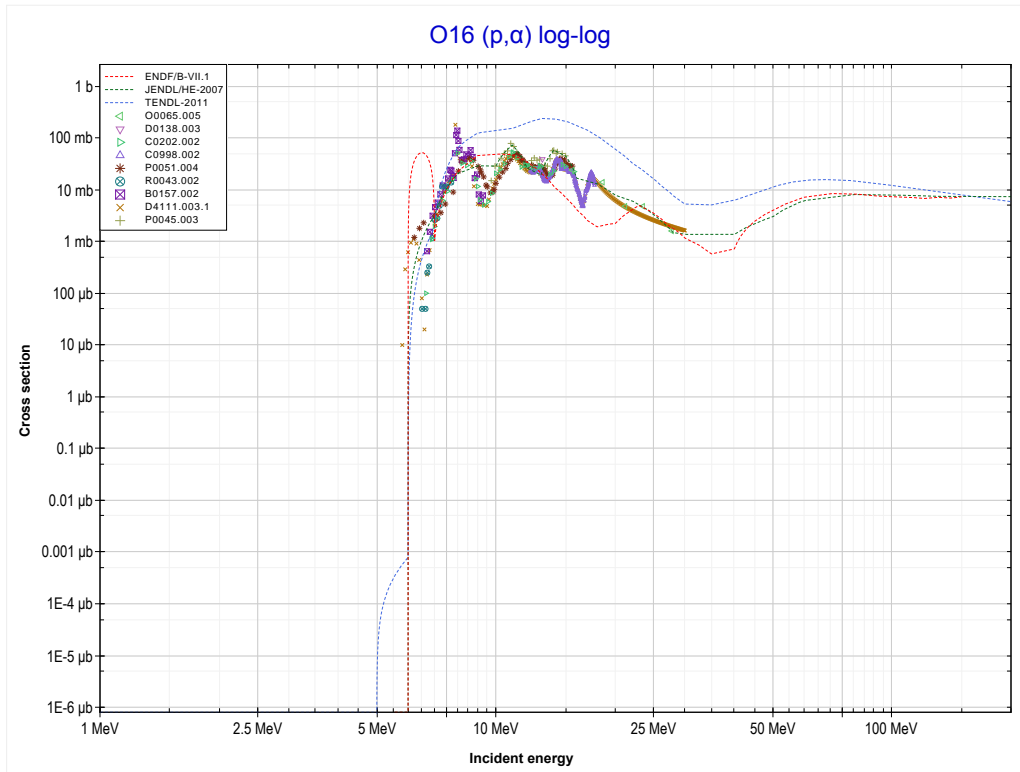
Reaction	Q-Value
O16(p,γ)F17	600.27 keV

<< 4-Be-9	8-O-16	13-Al-27 >>
<< MT102 (p, $\gamma$ )	MT103 (p,p) or MT5 (O16 production)	MT107 (p, $\alpha$ ) >>



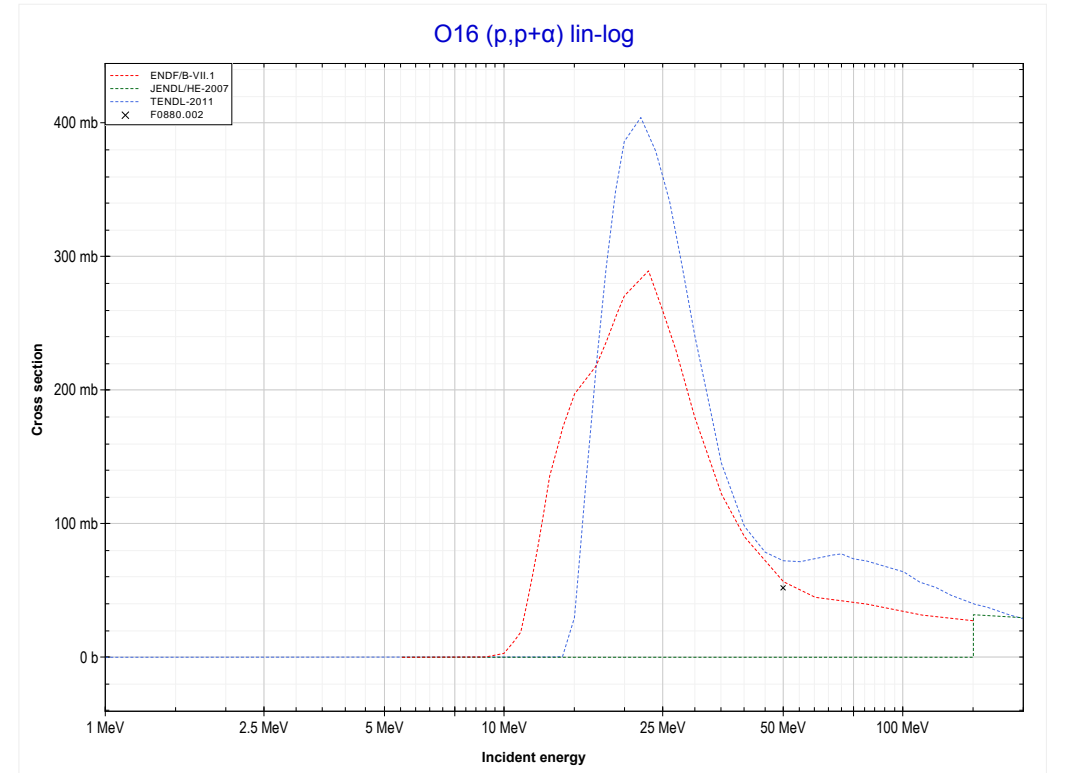
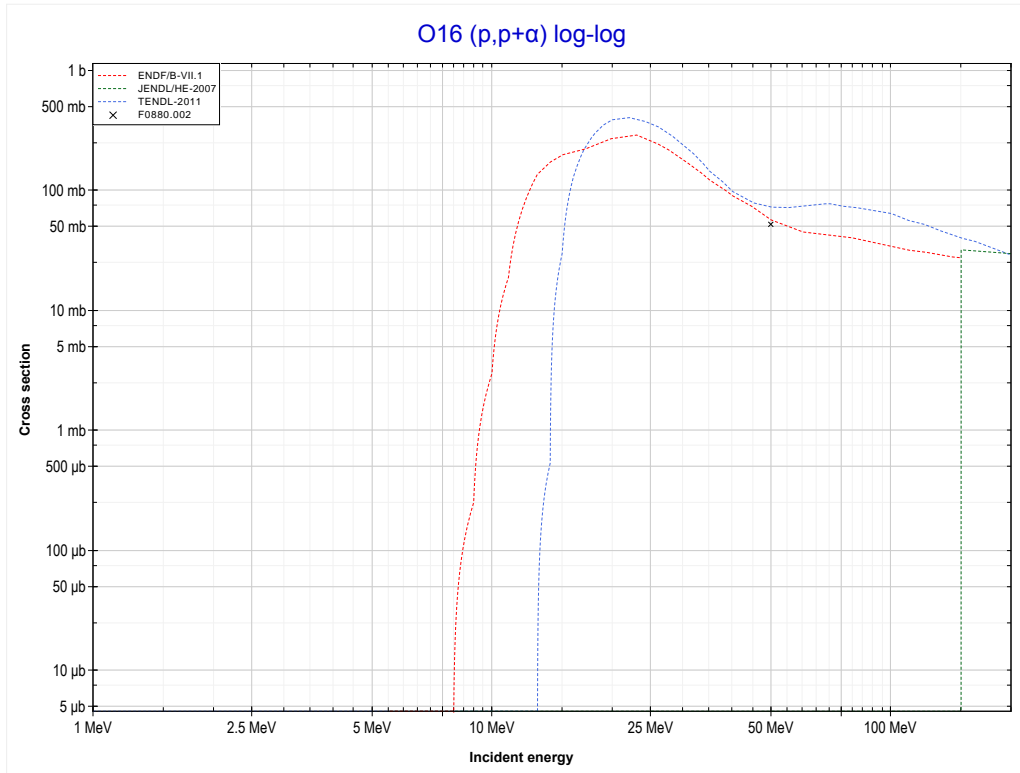
Reaction	Q-Value
O16(p,p)O16	0.00 keV

<< 7-N-15	<b>8-O-16</b>	8-O-18 >>
<< MT103 (p,p)	<b>MT107 (p,<math>\alpha</math>) or MT5 (N13 production)</b>	MT112 (p,p+ $\alpha$ ) >>



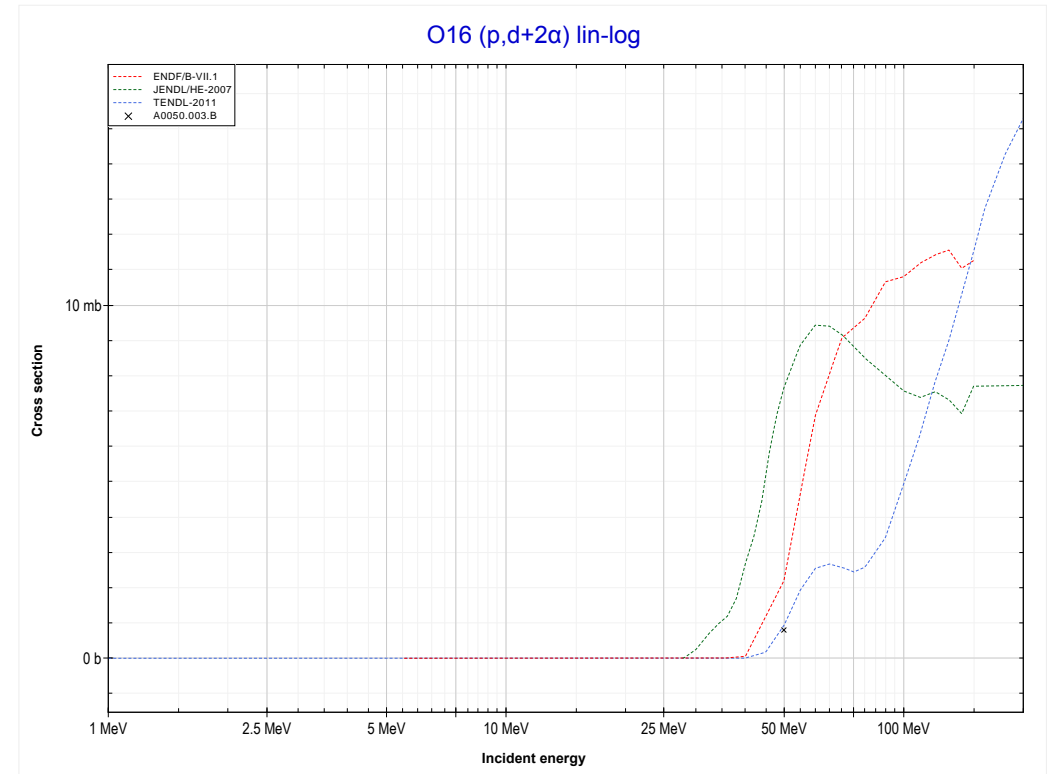
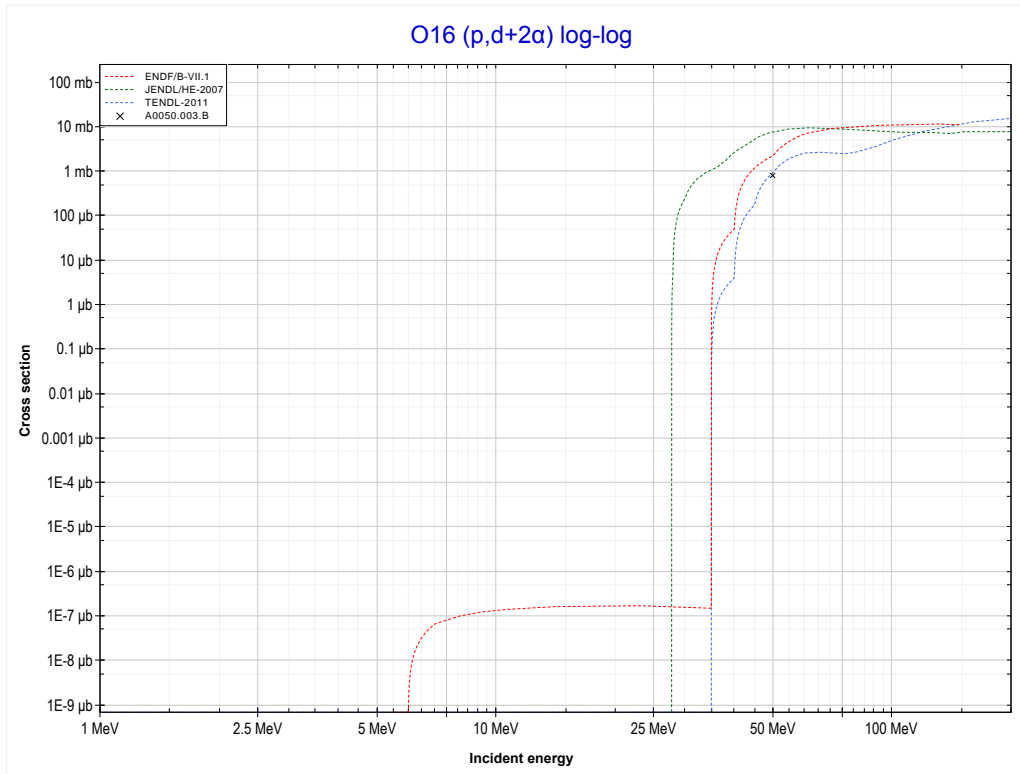
Reaction	Q-Value
O16(p, $\alpha$ )N13	-5218.43 keV
O16(p,p+t)N13	-25032.29 keV
O16(p,n+He3)N13	-25796.04 keV
O16(p,2d)N13	-29064.95 keV
O16(p,n+p+d)N13	-31289.52 keV
O16(p,2n+2p)N13	-33514.09 keV

	<b>8-O-16</b>	23-V-51 >>
<< MT107 (p, $\alpha$ )	<b>MT112 (p,p<math>\alpha</math>) or MT5 (C12 production)</b>	MT114 (p,d+2 $\alpha$ ) >>



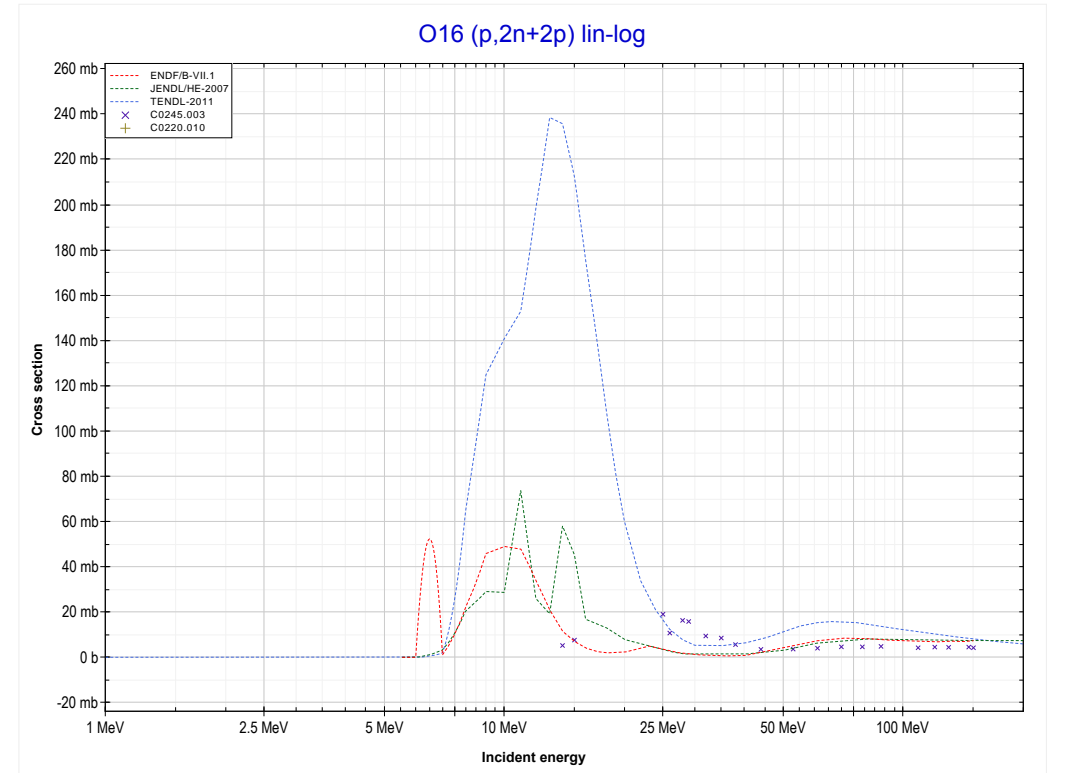
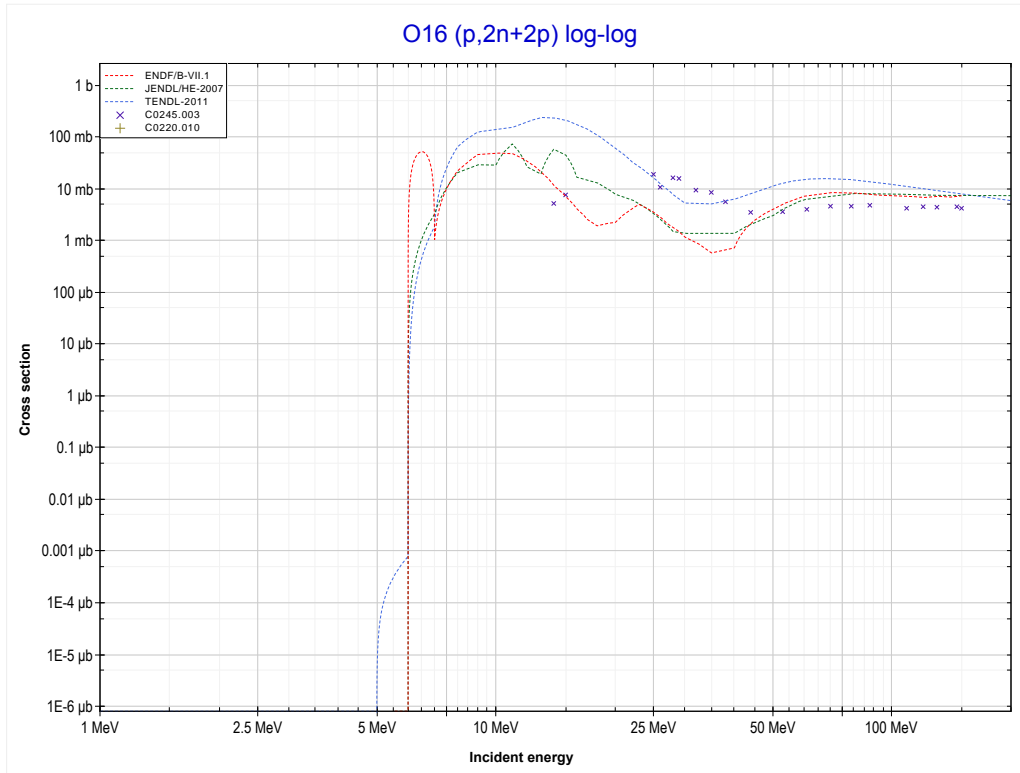
Reaction	Q-Value
O16(p,p $\alpha$ )C12	-7161.92 keV
O16(p,d+He3)C12	-25514.97 keV
O16(p,2p+t)C12	-26975.78 keV
O16(p,n+p+He3)C12	-27739.53 keV
O16(p,p+2d)C12	-31008.44 keV
O16(p,n+2p+d)C12	-33233.01 keV
O16(p,2n+3p)C12	-35457.58 keV

<b>8-O-16</b>		
<< MT112 (p,p+α)	<b>MT114 (p,d+2α) or MT5 (Be7 production)</b>	MT190 (p,2n+2p) >>



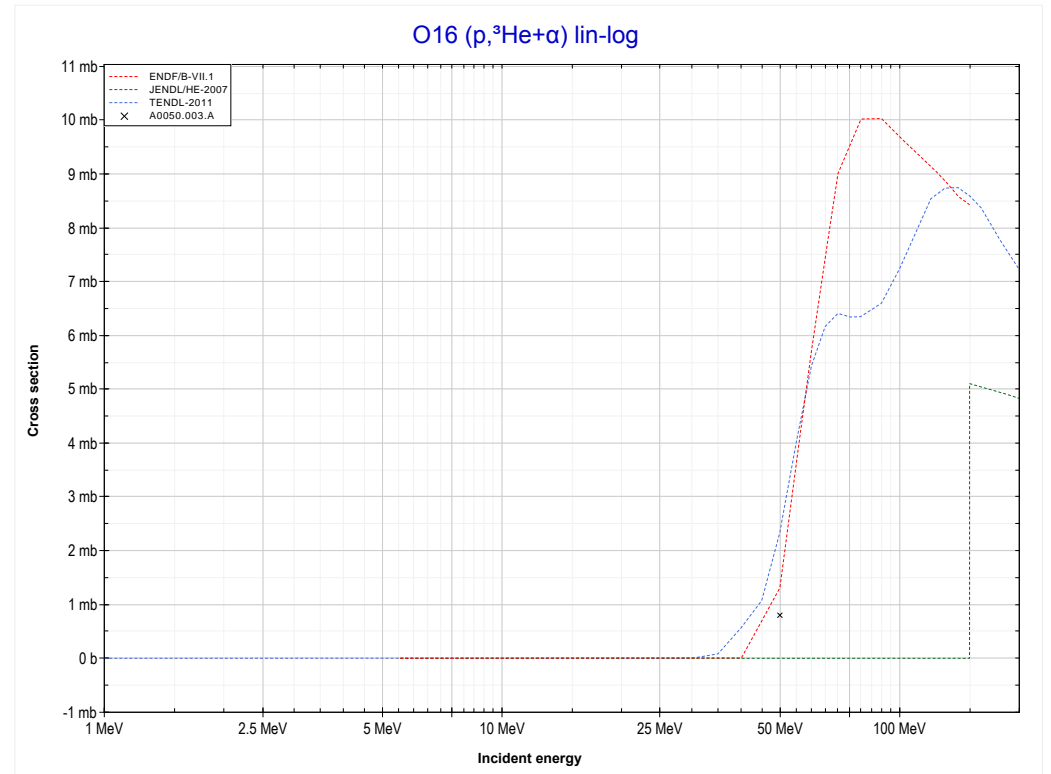
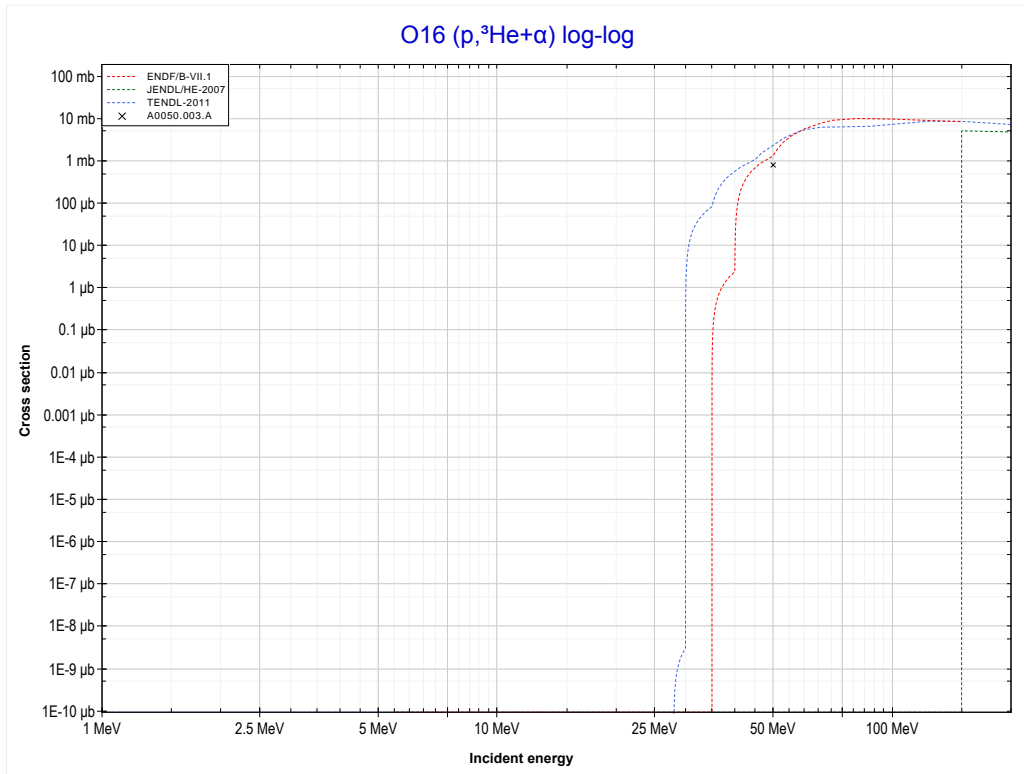
Reaction	Q-Value	Reaction	Q-Value
O16(p,d+2α)Be7	-31203.61 keV	O16(p,n+p+2d+α)Be7	-57274.71 keV
O16(p,n+p+2α)Be7	-33428.18 keV	O16(p,2n+2p+d+α)Be7	-59499.27 keV
O16(p,t+He3+α)Be7	-45524.00 keV	O16(p,3n+3p+α)Be7	-61723.84 keV
O16(p,p+d+t+α)Be7	-51017.47 keV	O16(p,p+2t+He3)Be7	-65337.86 keV
O16(p,n+d+He3+α)Be7	-51781.23 keV	O16(p,n+t+2He3)Be7	-66101.61 keV
O16(p,n+2p+t+α)Be7	-53242.04 keV	O16(p,2d+t+He3)Be7	-69370.52 keV
O16(p,2n+p+He3+α)Be7	-54005.80 keV	O16(p,2p+d+2t)Be7	-70831.34 keV
O16(p,3d+α)Be7	-55050.14 keV	O16(p,n+p+d+t+He3)Be7	-71595.09 keV

<< 7-N-14	<b>8-O-16</b>	12-Mg-25 >>
<< MT114 (p,d+2 $\alpha$ )	<b>MT190 (p,2n+2p) or MT5 (N13 production)</b>	MT193 (p, <sup>3</sup> He+ $\alpha$ ) >>



Reaction	Q-Value
O16(p, $\alpha$ )N13	-5218.43 keV
O16(p,p+t)N13	-25032.29 keV
O16(p,n+He3)N13	-25796.04 keV
O16(p,2d)N13	-29064.95 keV
O16(p,n+p+d)N13	-31289.52 keV
O16(p,2n+2p)N13	-33514.09 keV

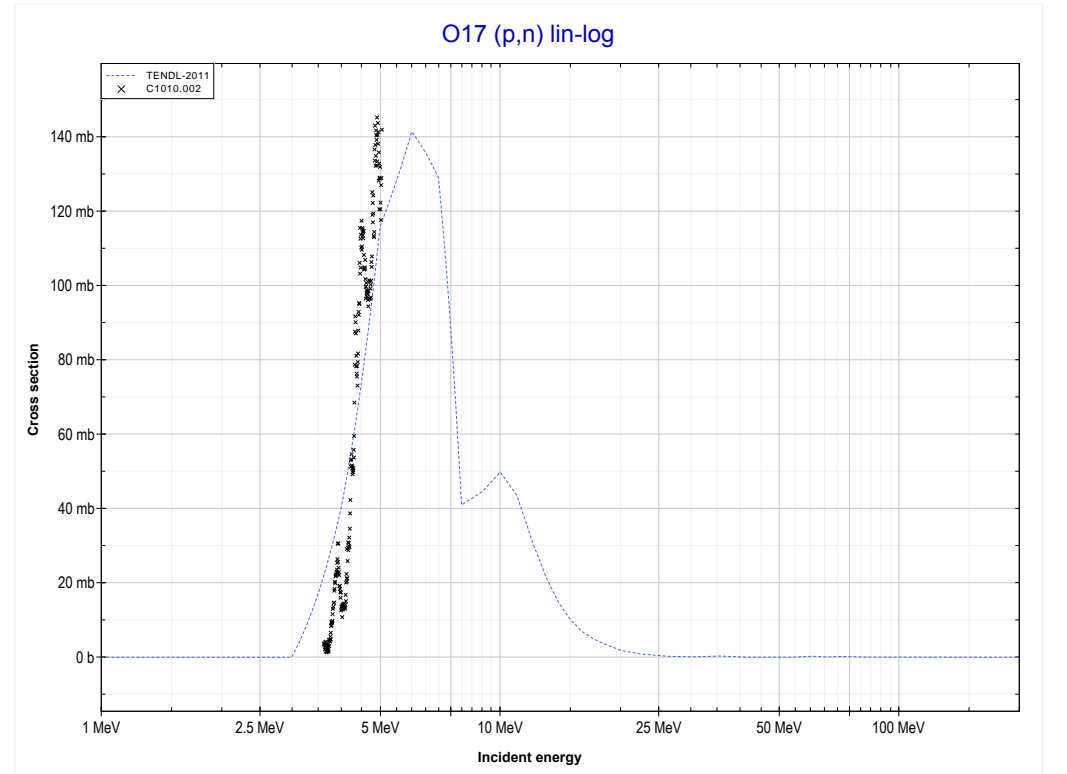
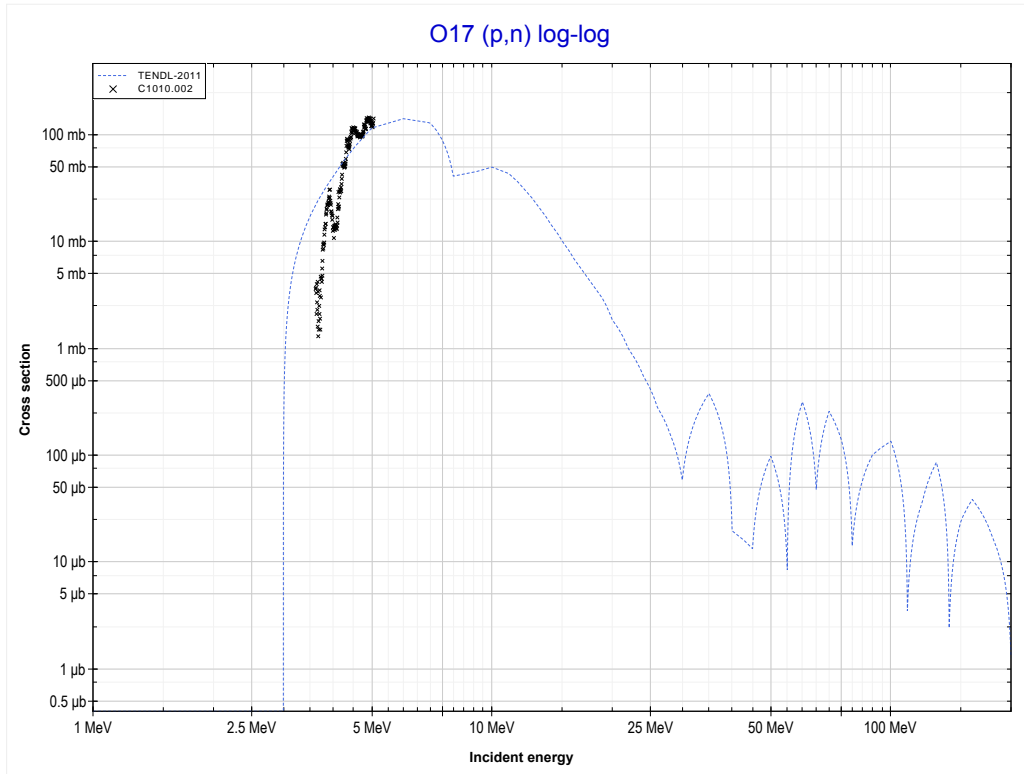
<b>8-O-16</b>		
<< MT190 (p,2n+2p)	<b>MT193 (p,<sup>3</sup>He+α) or MT5 (B10 production)</b>	MT4 (p,n) >>



Reaction	Q-Value	Reaction	Q-Value
O16(p,He3+α)B10	-26854.86 keV	O16(p,n+3p+t)B10	-54386.77 keV
O16(p,p+d+α)B10	-32348.34 keV	O16(p,2n+2p+He3)B10	-55150.52 keV
O16(p,n+2p+α)B10	-34572.90 keV	O16(p,p+3d)B10	-56194.87 keV
O16(p,p+t+He3)B10	-46668.72 keV	O16(p,n+2p+2d)B10	-58419.43 keV
O16(p,n+2He3)B10	-47432.48 keV	O16(p,2n+3p+d)B10	-60644.00 keV
O16(p,2d+He3)B10	-50701.39 keV	O16(p,3n+4p)B10	-62868.56 keV
O16(p,2p+d+t)B10	-52162.20 keV		
O16(p,n+p+d+He3)B10	-52925.95 keV		

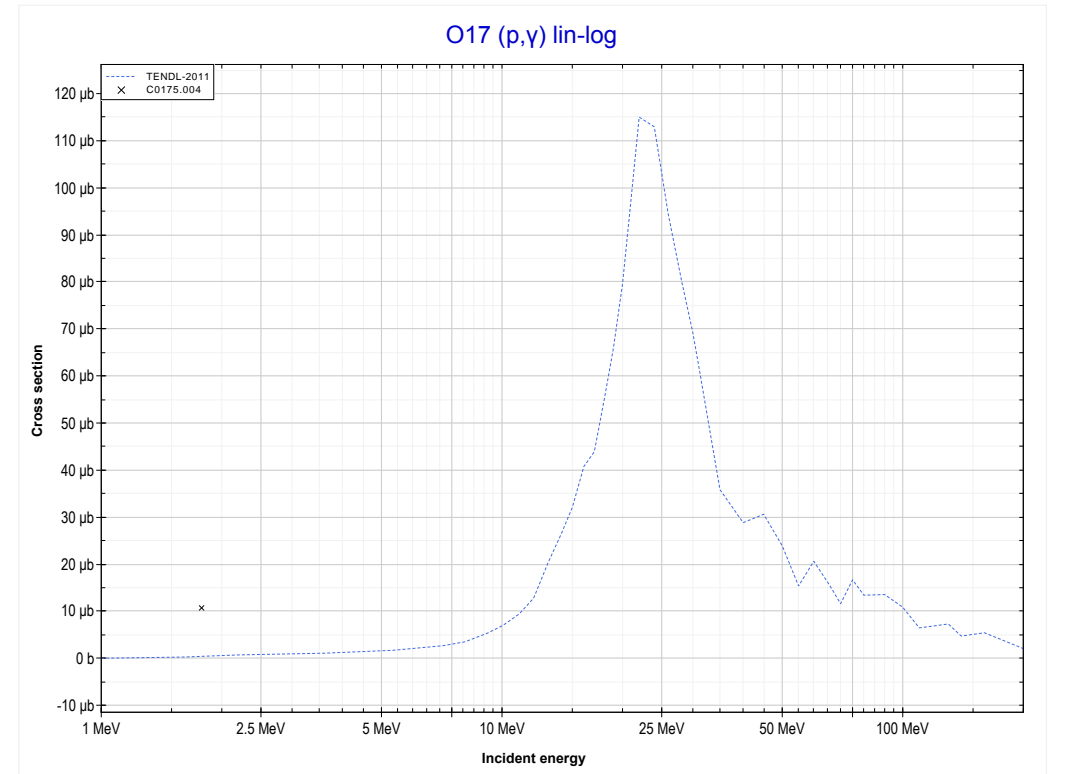
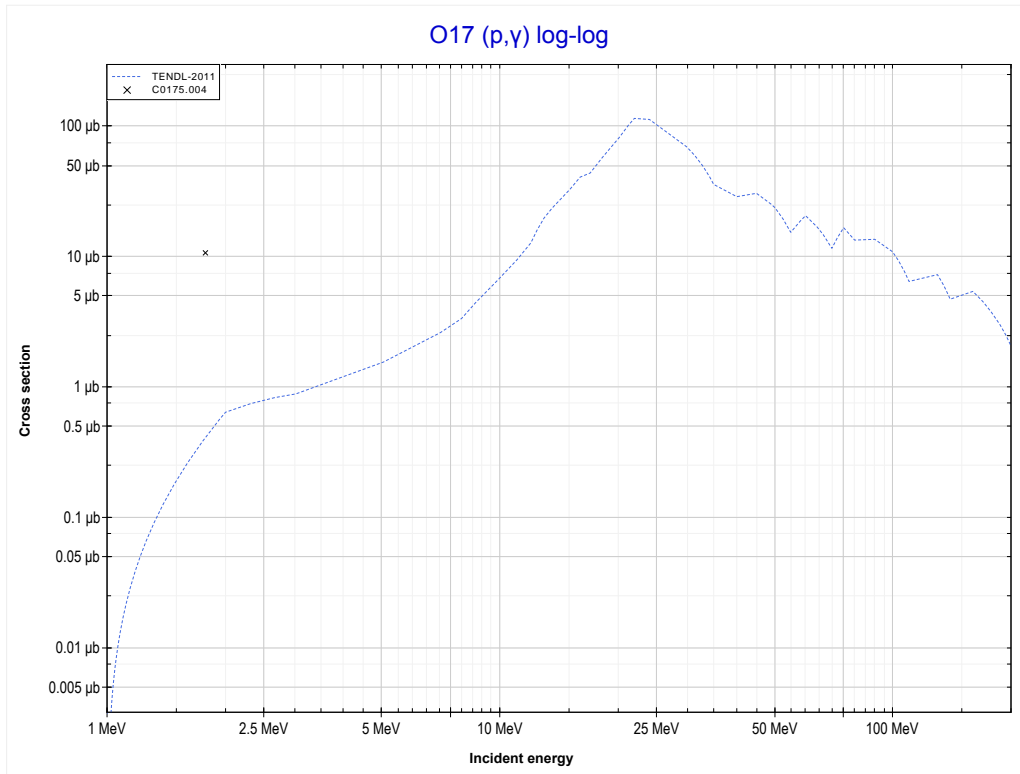


<< 7-N-15	<b>8-O-17</b>	8-O-18 >>
<< MT193 (p, <sup>3</sup> He+α)	<b>MT4 (p,n) or MT5 (F17 production)</b>	MT102 (p,γ) >>



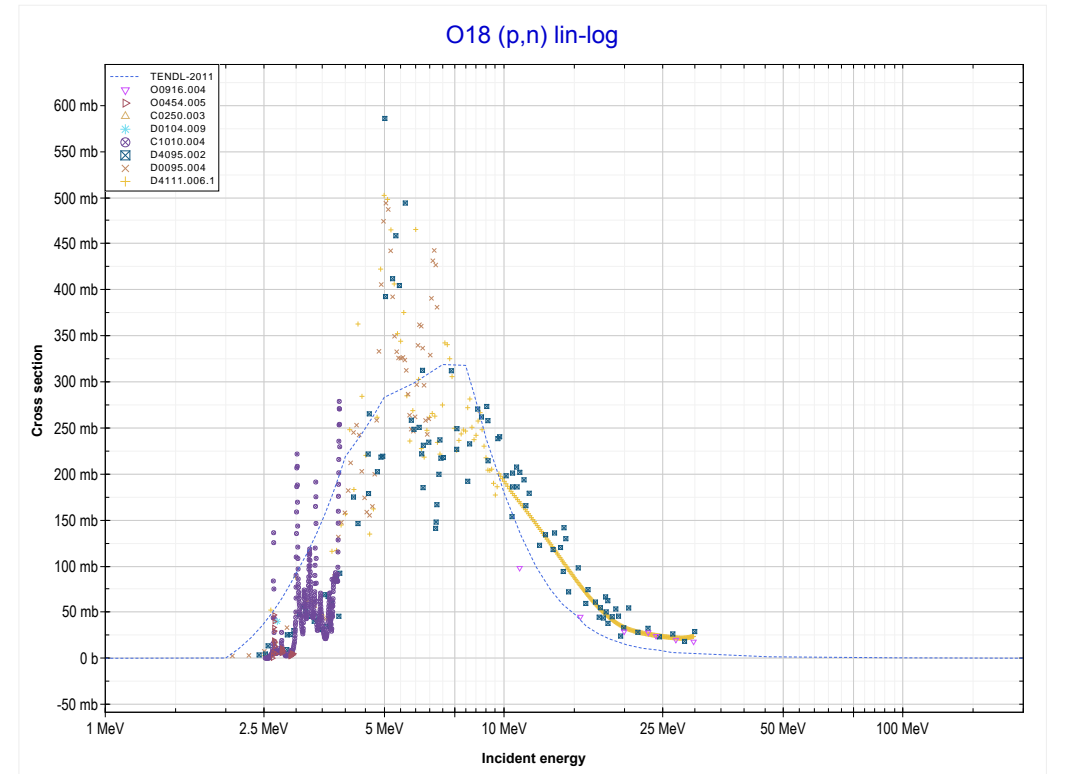
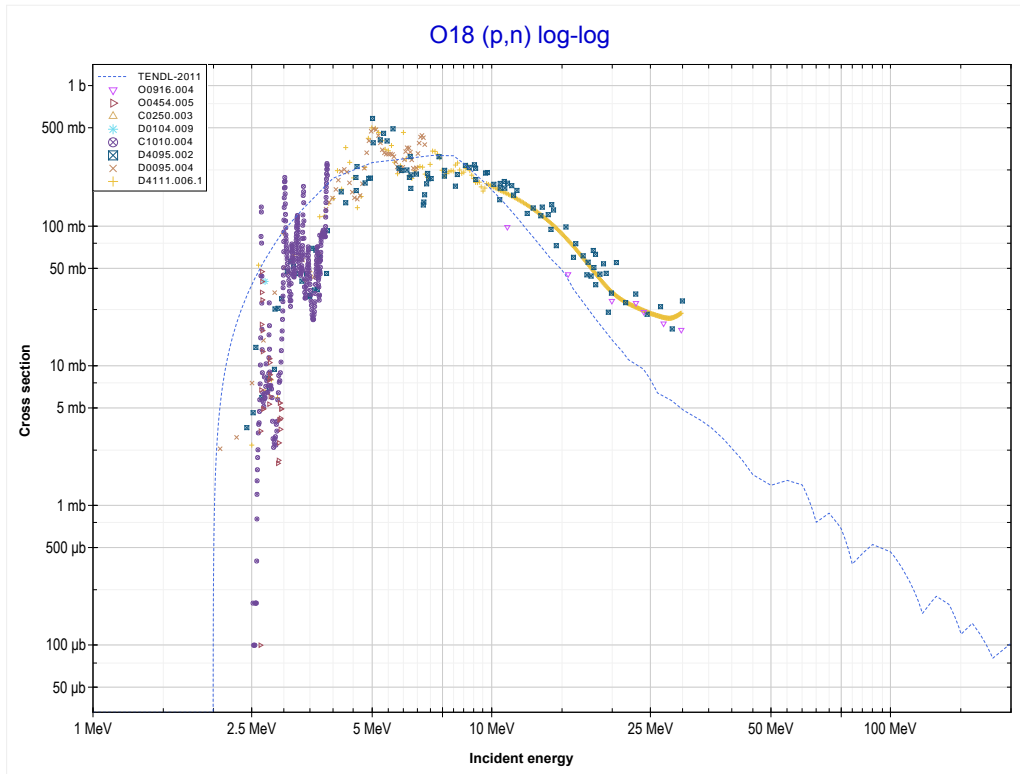
Reaction	Q-Value
O17(p,n)F17	-3542.86 keV

<< 8-O-16	<b>8-O-17</b>	9-F-19 >>
<< MT4 (p,n)	<b>MT102 (p,<math>\gamma</math>) or MT5 (F18 production)</b>	MT4 (p,n) >>



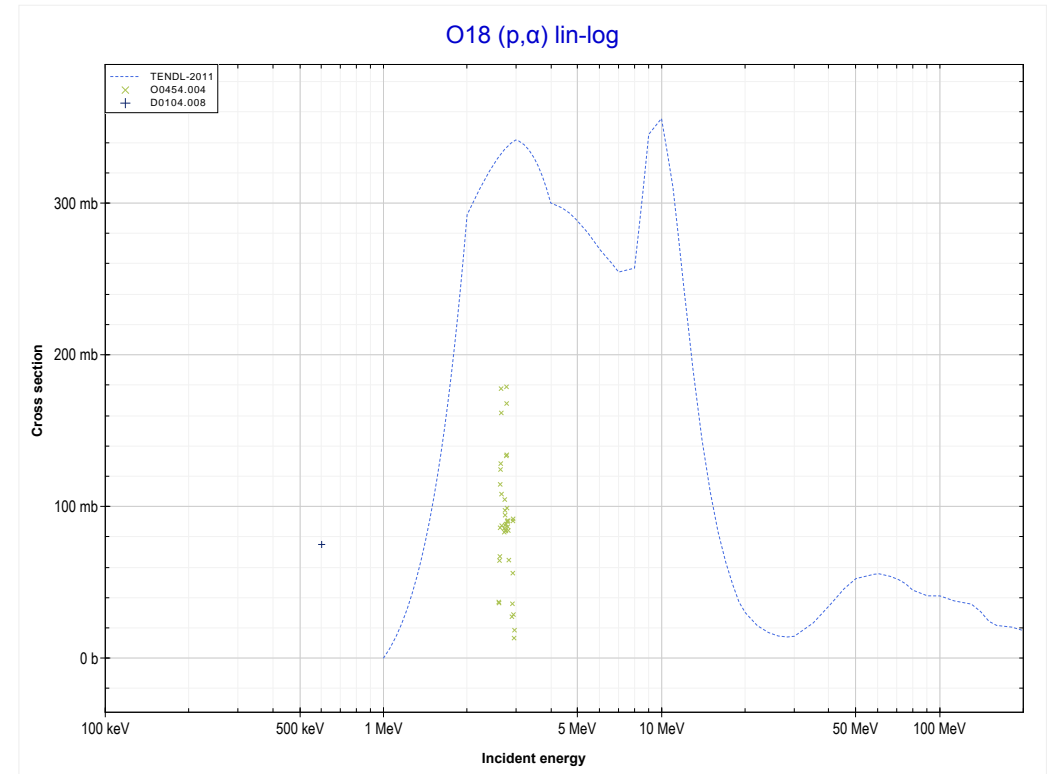
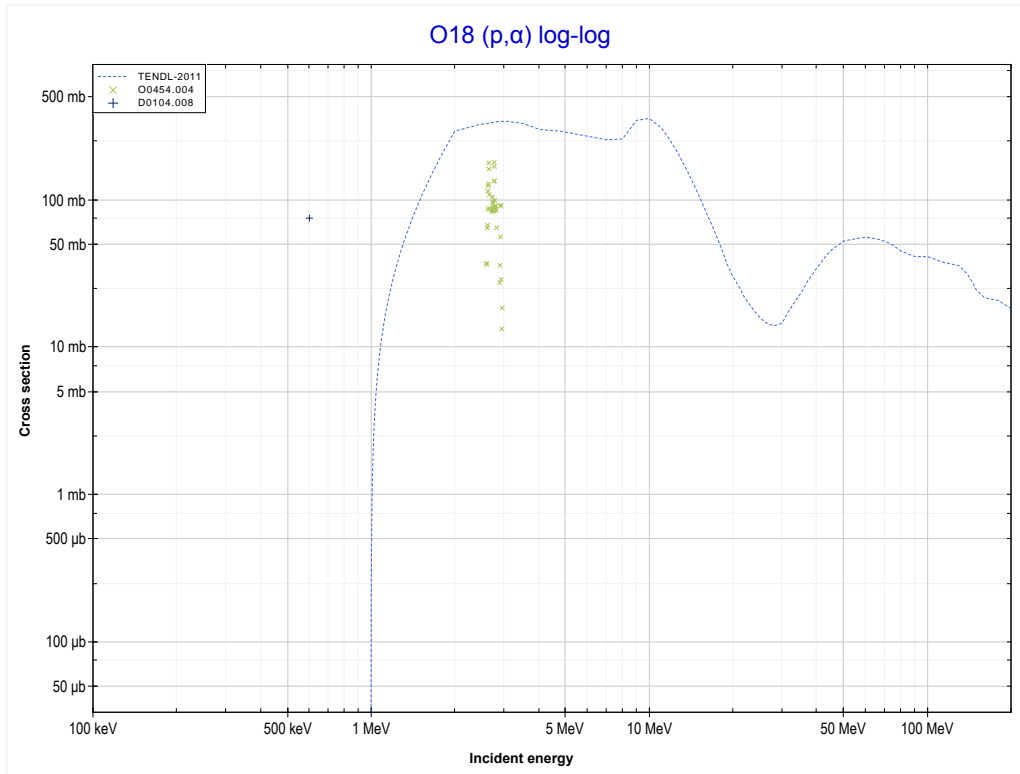
Reaction	Q-Value
O17(p, $\gamma$ )F18	5606.46 keV

<< 8-O-17	<b>8-O-18</b>	9-F-19 >>
<< MT102 (p, $\gamma$ )	<b>MT4 (p,n) or MT5 (F18 production)</b>	MT107 (p, $\alpha$ ) >>



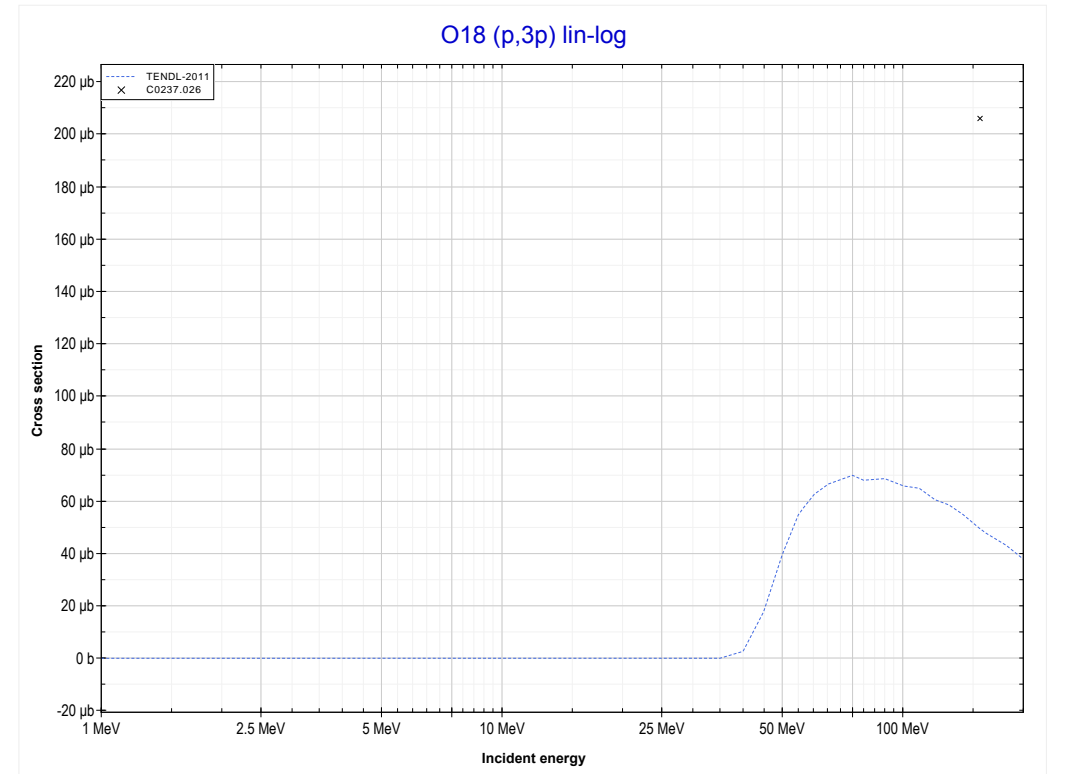
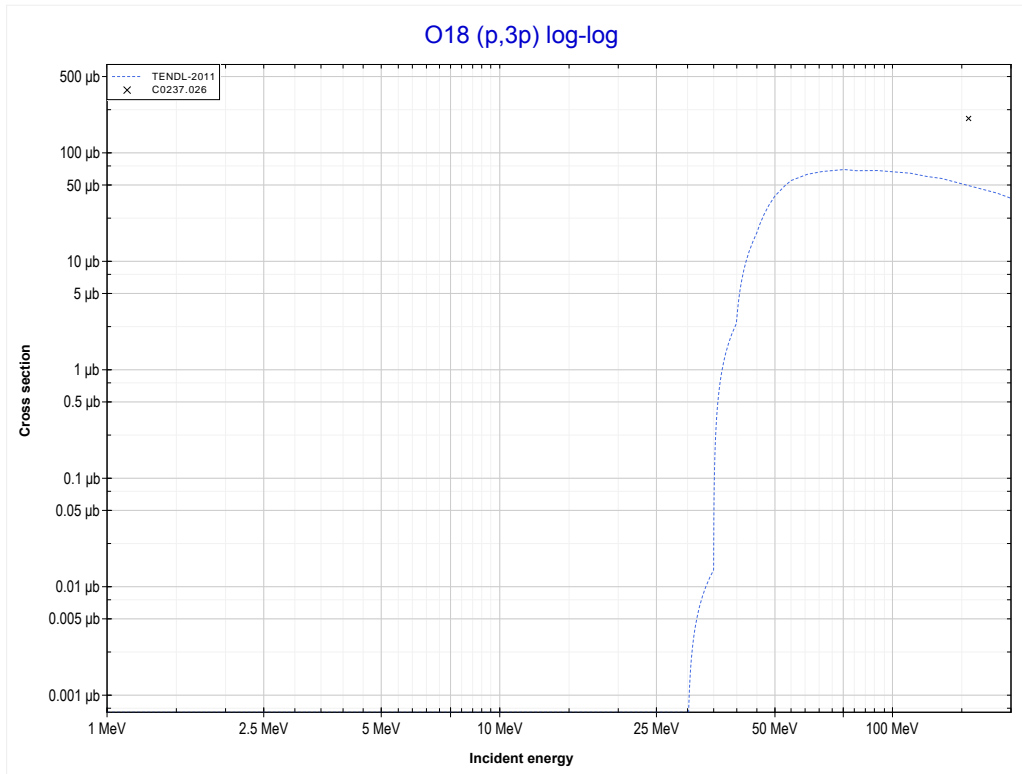
Reaction	Q-Value
O18(p,n)F18	-2437.55 keV

<< 8-O-16	<b>8-O-18</b>	9-F-18 >>
<< MT4 (p,n)	<b>MT107 (p,<math>\alpha</math>) or MT5 (N15 production)</b>	MT197 (p,3p) >>



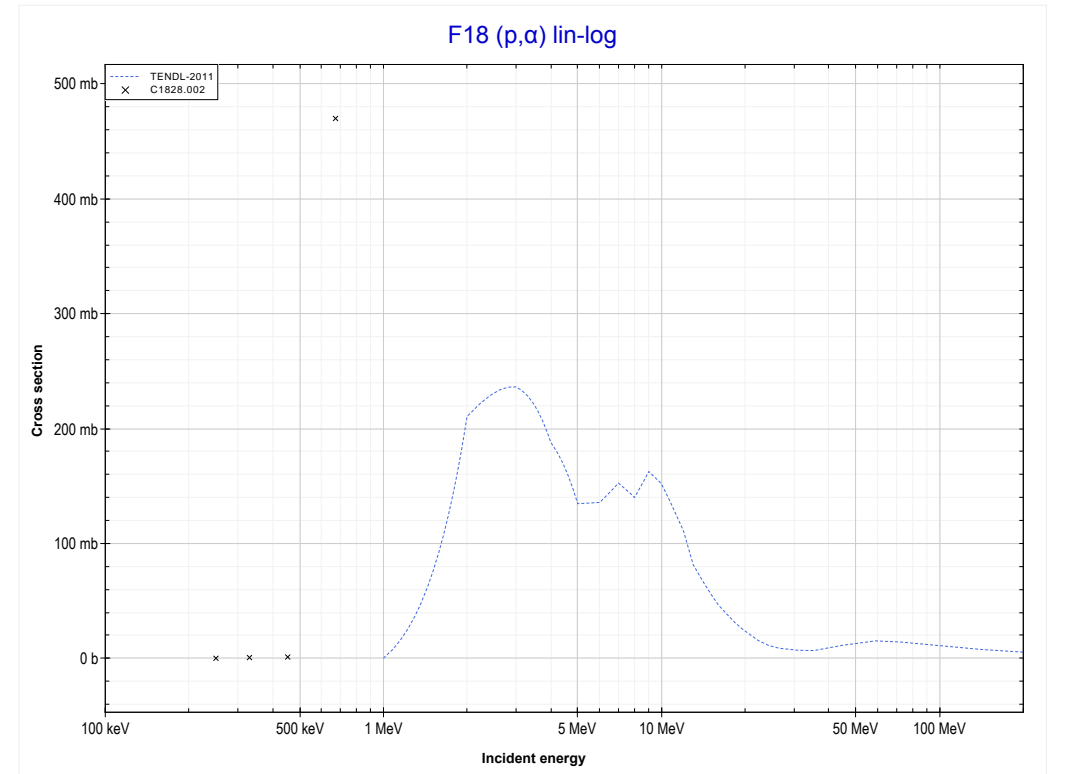
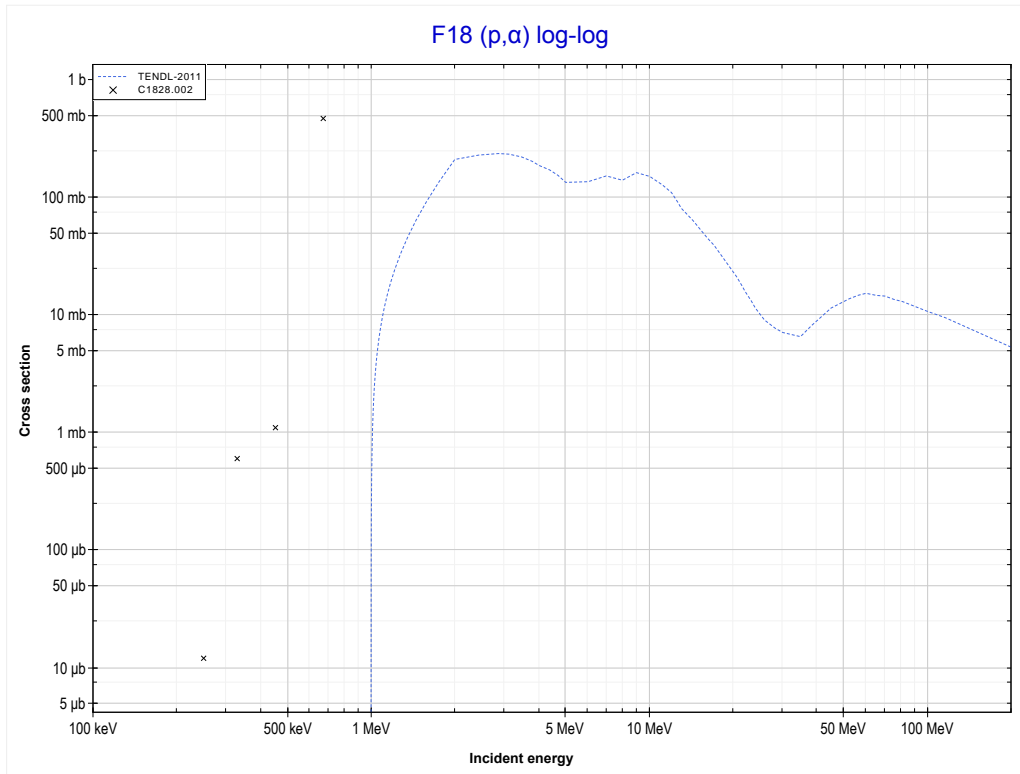
Reaction	Q-Value
O18(p, $\alpha$ )N15	3981.12 keV
O18(p,p+t)N15	-15832.74 keV
O18(p,n+He3)N15	-16596.50 keV
O18(p,2d)N15	-19865.41 keV
O18(p,n+p+d)N15	-22089.98 keV
O18(p,2n+2p)N15	-24314.54 keV

<< 5-B-11	<b>8-O-18</b>	9-F-19 >>
<< MT107 (p, $\alpha$ )	<b>MT197 (p,3p) or MT5 (C16 production)</b>	MT107 (p, $\alpha$ ) >>



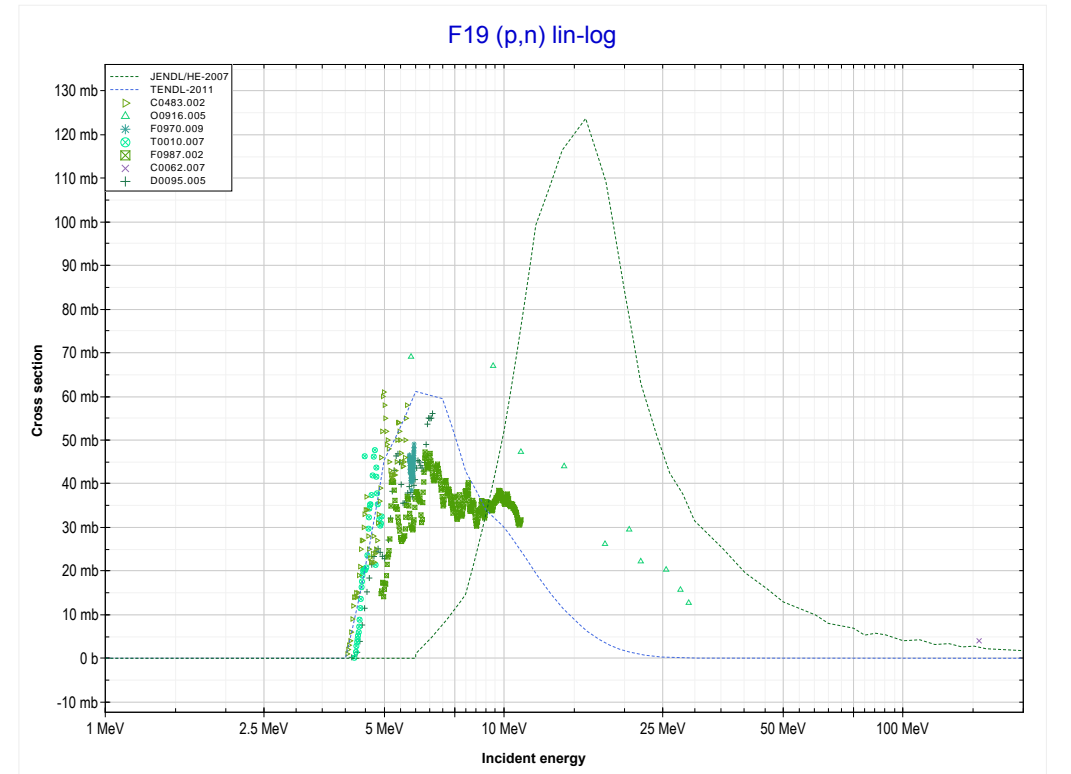
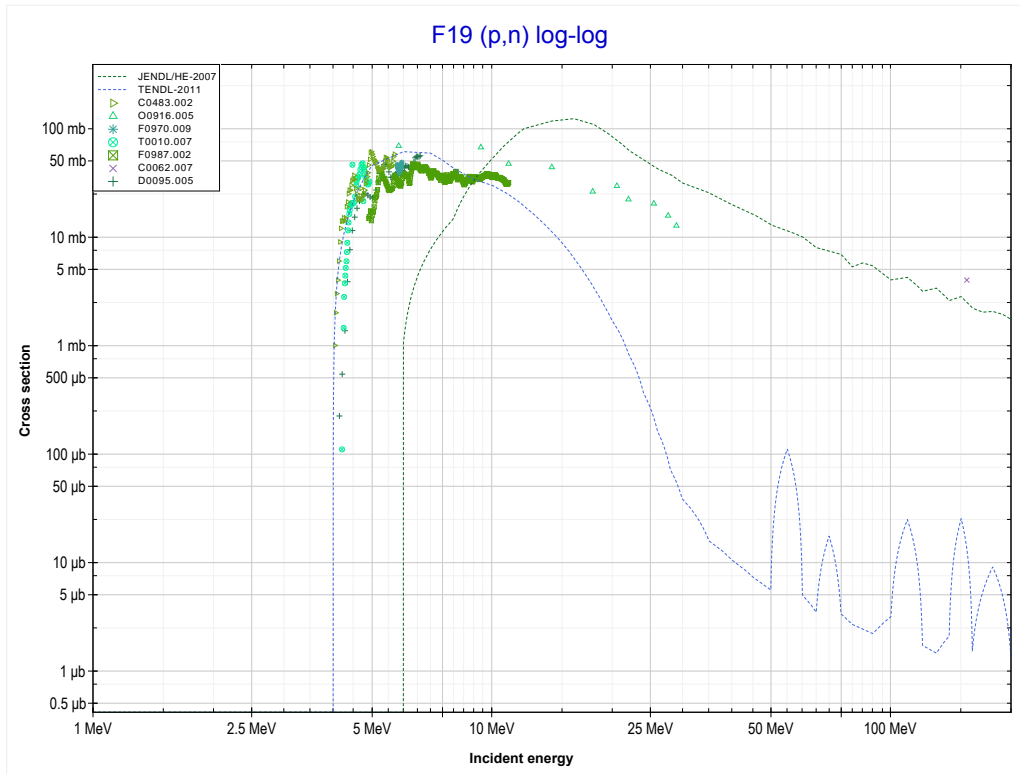
Reaction	Q-Value
O18(p,3p)C16	-29053.44 keV

<< 8-O-18	<b>9-F-18</b>	9-F-19 >>
<< MT197 (p,3p)	<b>MT107 (p,<math>\alpha</math>) or MT5 (O15 production)</b>	MT4 (p,n) >>



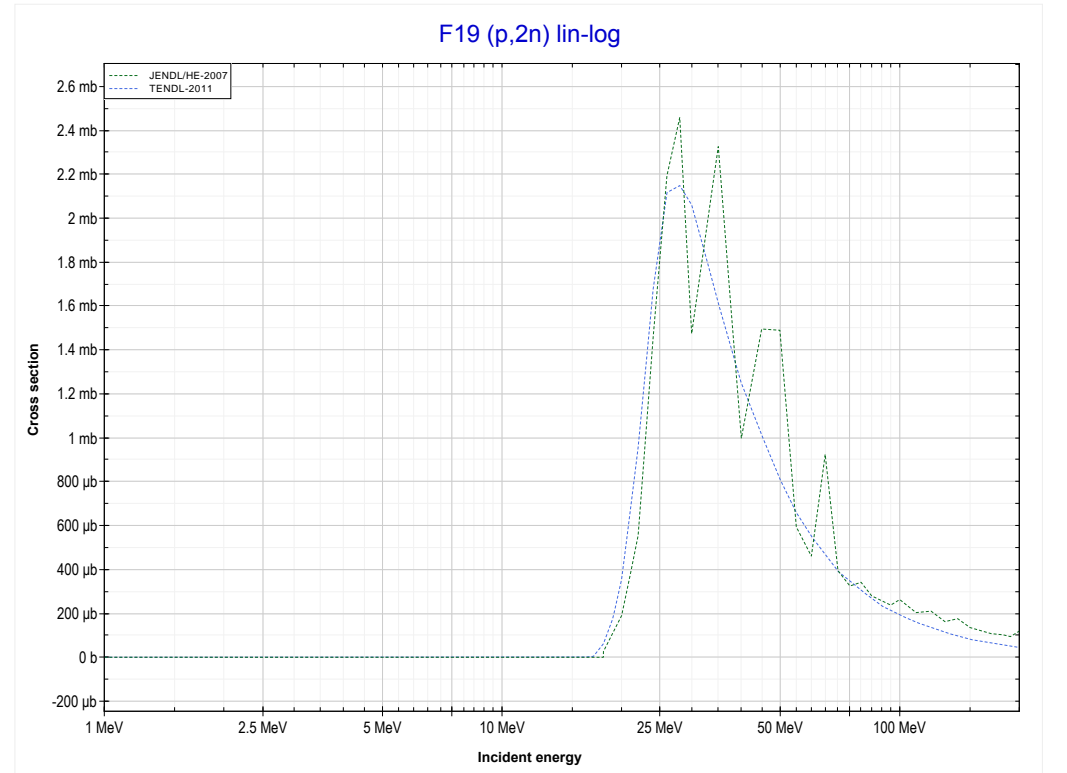
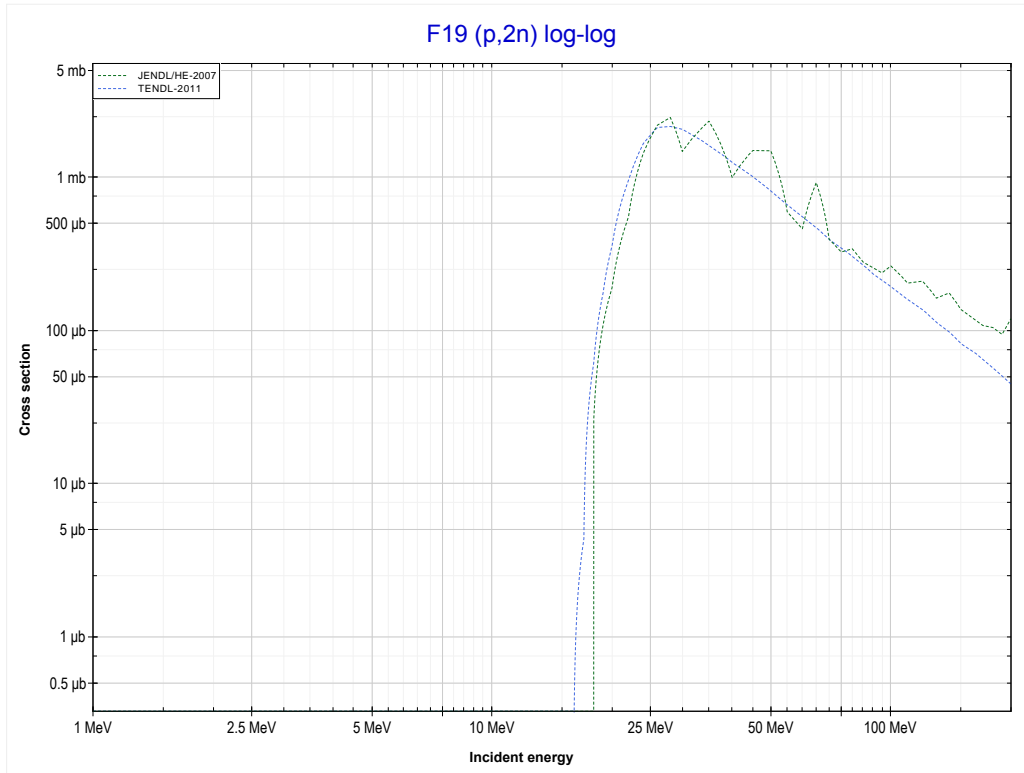
Reaction	Q-Value
F18(p, $\alpha$ )O15	2882.15 keV
F18(p,p+t)O15	-16931.71 keV
F18(p,n+He3)O15	-17695.46 keV
F18(p,2d)O15	-20964.37 keV
F18(p,n+p+d)O15	-23188.94 keV
F18(p,2n+2p)O15	-25413.50 keV

<< 8-O-18	<b>9-F-19</b>	10-Ne-22 >>
<< MT107 (p, $\alpha$ )	<b>MT4 (p,n) or MT5 (Ne19 production)</b>	MT16 (p,2n) >>



Reaction	Q-Value
F19(p,n)Ne19	-4021.18 keV

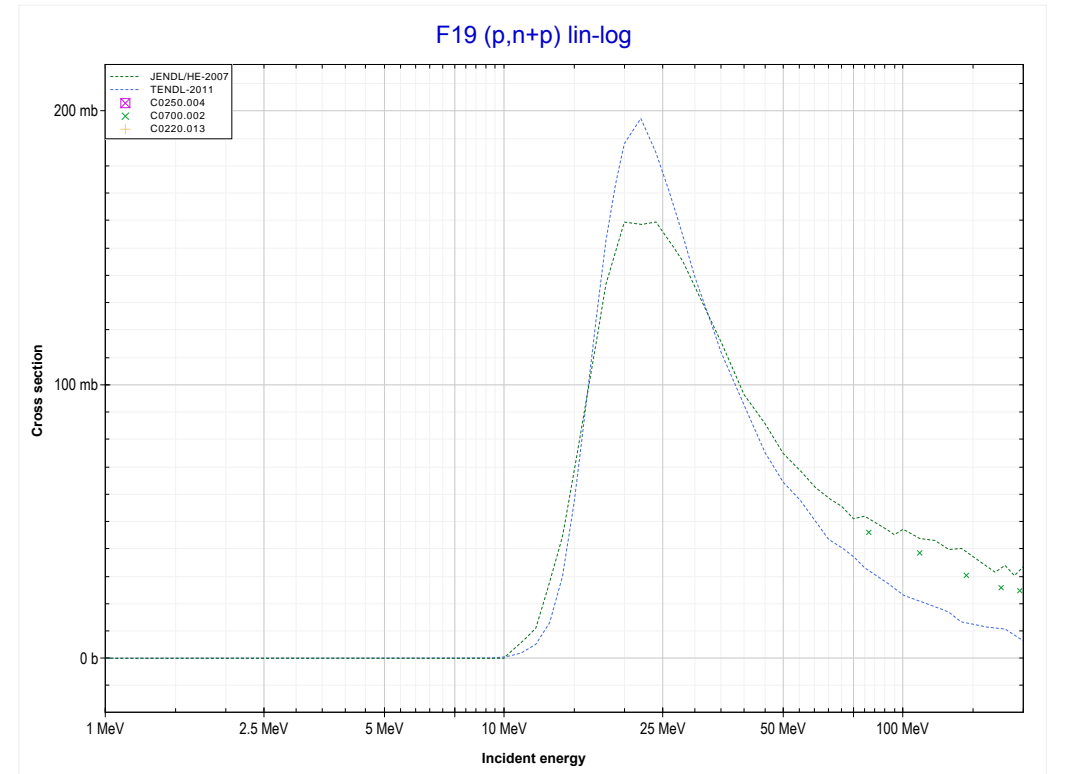
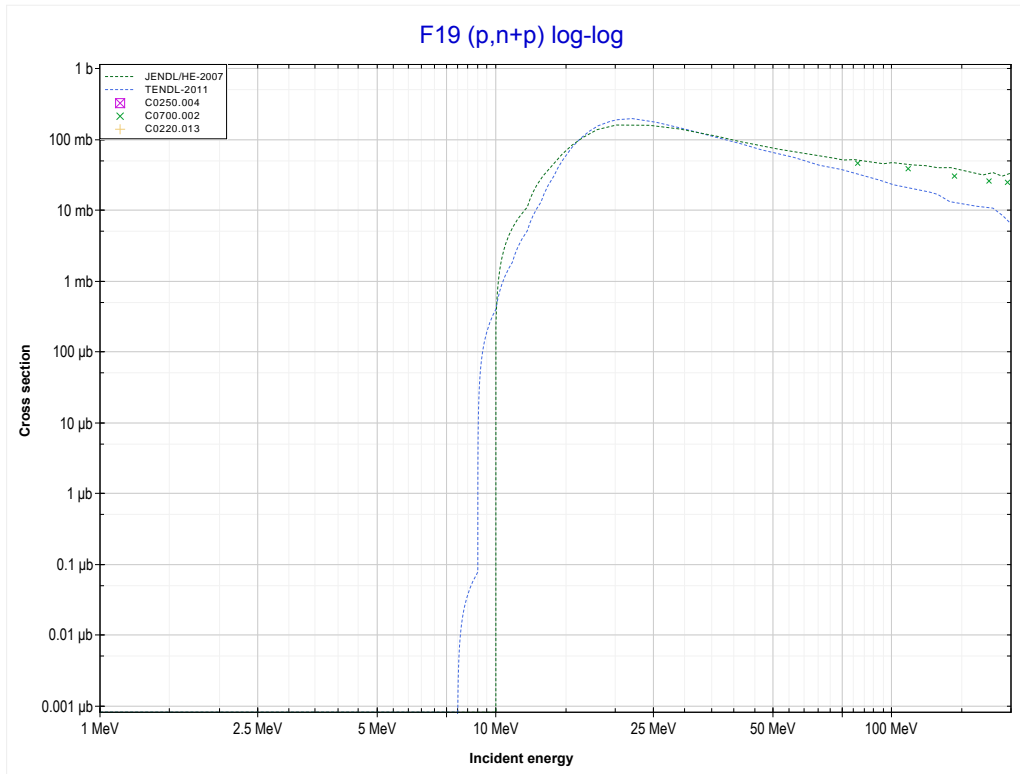
<< 5-B-11	<b>9-F-19</b>	11-Na-23 >>
<< MT4 (p,n)	<b>MT16 (p,2n) or MT5 (Ne18 production)</b>	MT28 (p,n+p) >>



Reaction	Q-Value
F19(p,2n)Ne18	-15658.22 keV

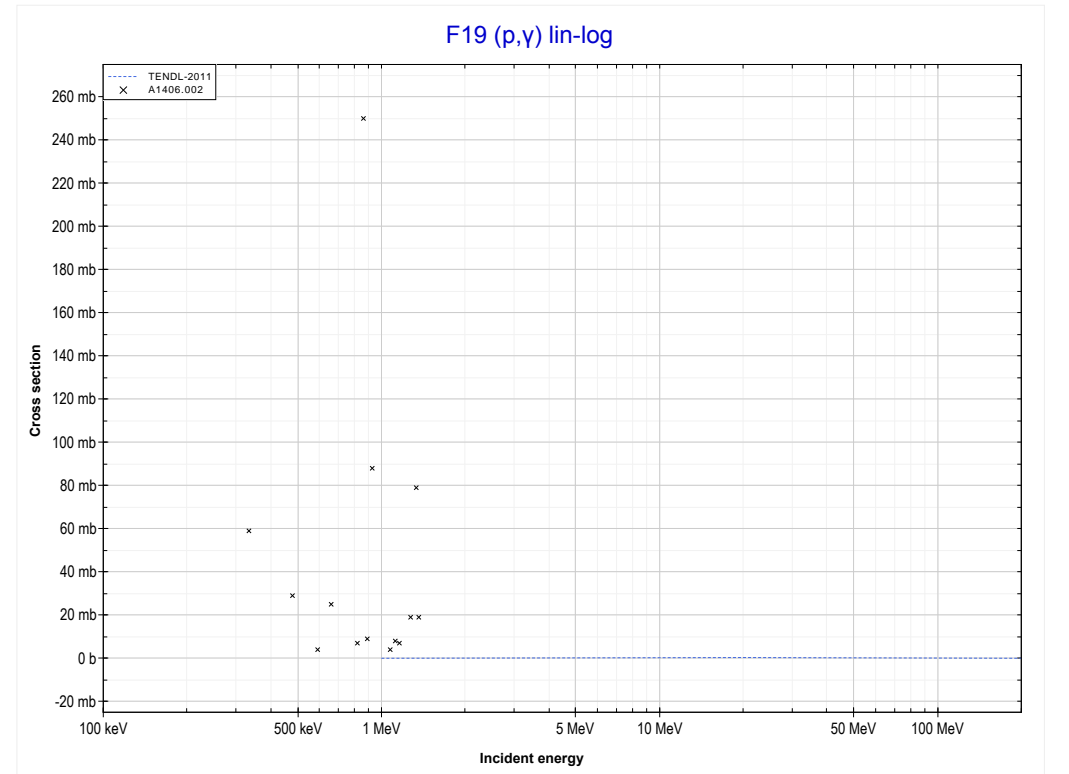
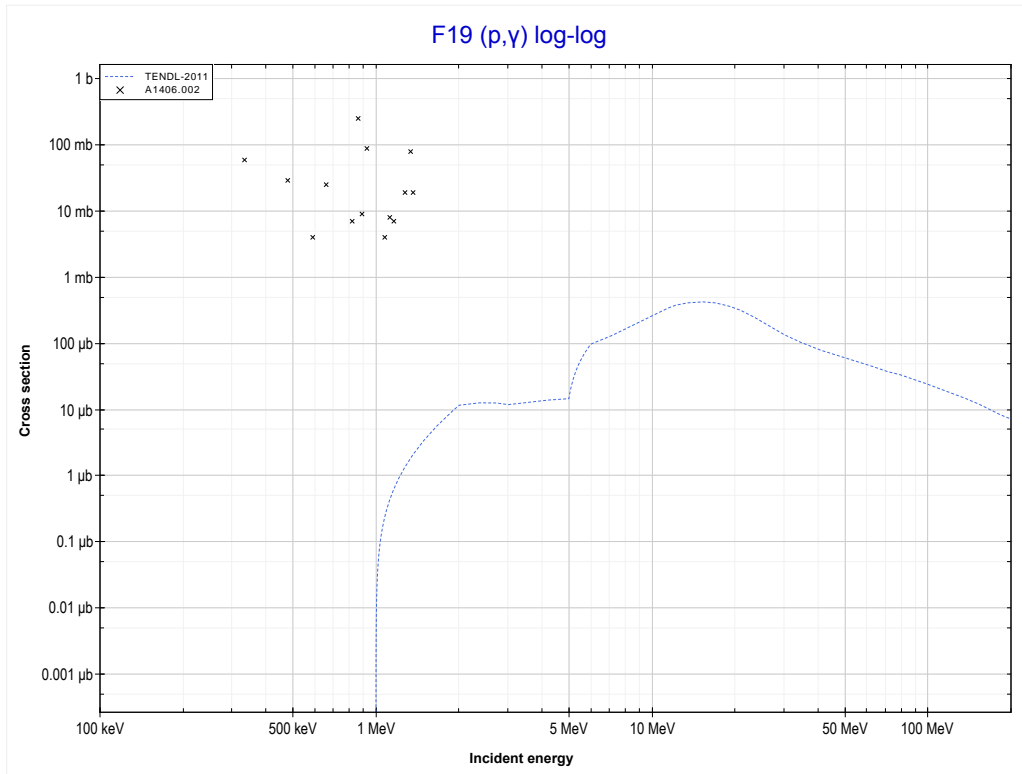


<< 8-O-16	<b>9-F-19</b>	11-Na-23 >>
<< MT16 (p,2n)	<b>MT28 (p,n+p) or MT5 (F18 production)</b>	MT102 (p, $\gamma$ ) >>



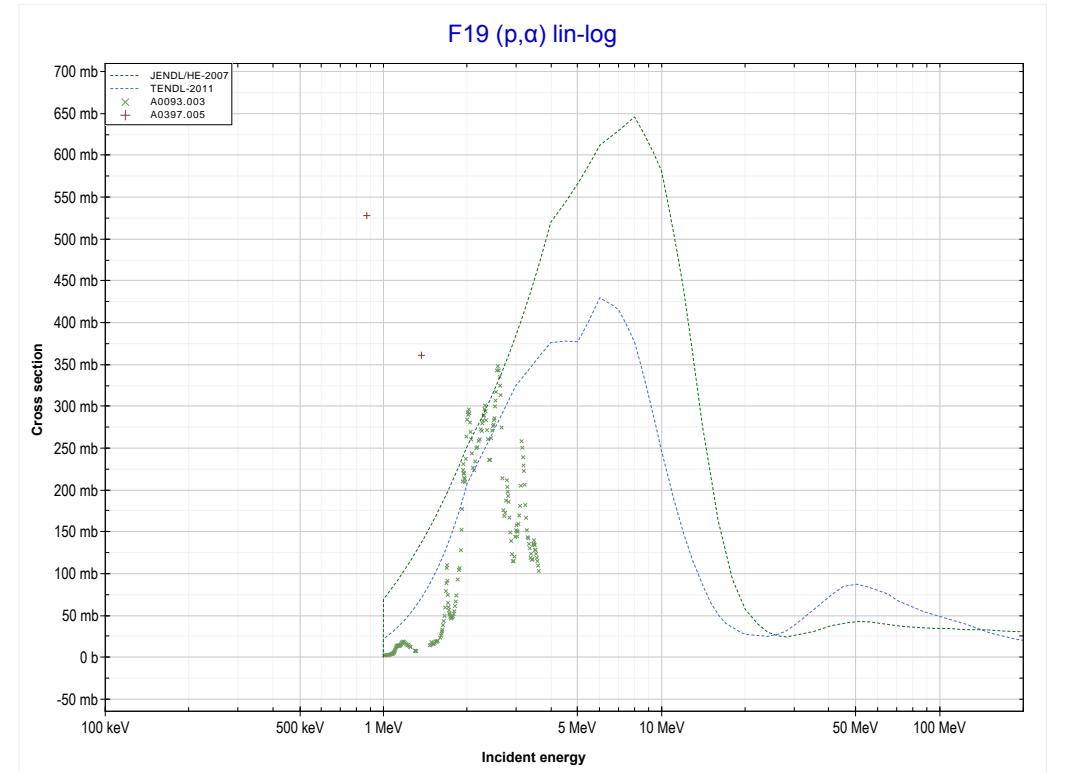
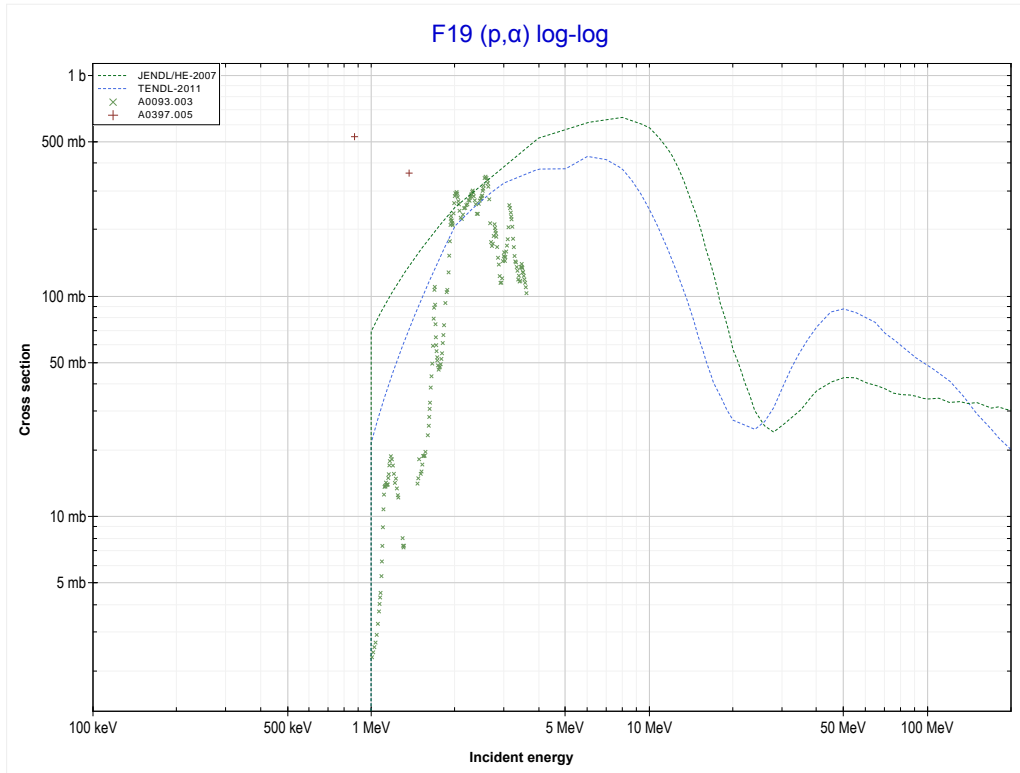
Reaction	Q-Value
F19(p,d)F18	-8207.84 keV
F19(p,n+p)F18	-10432.41 keV

<< 8-O-17	<b>9-F-19</b>	20-Ca-42 >>
<< MT28 (p,n+p)	<b>MT102 (p,<math>\gamma</math>) or MT5 (Ne20 production)</b>	MT107 (p, $\alpha$ ) >>



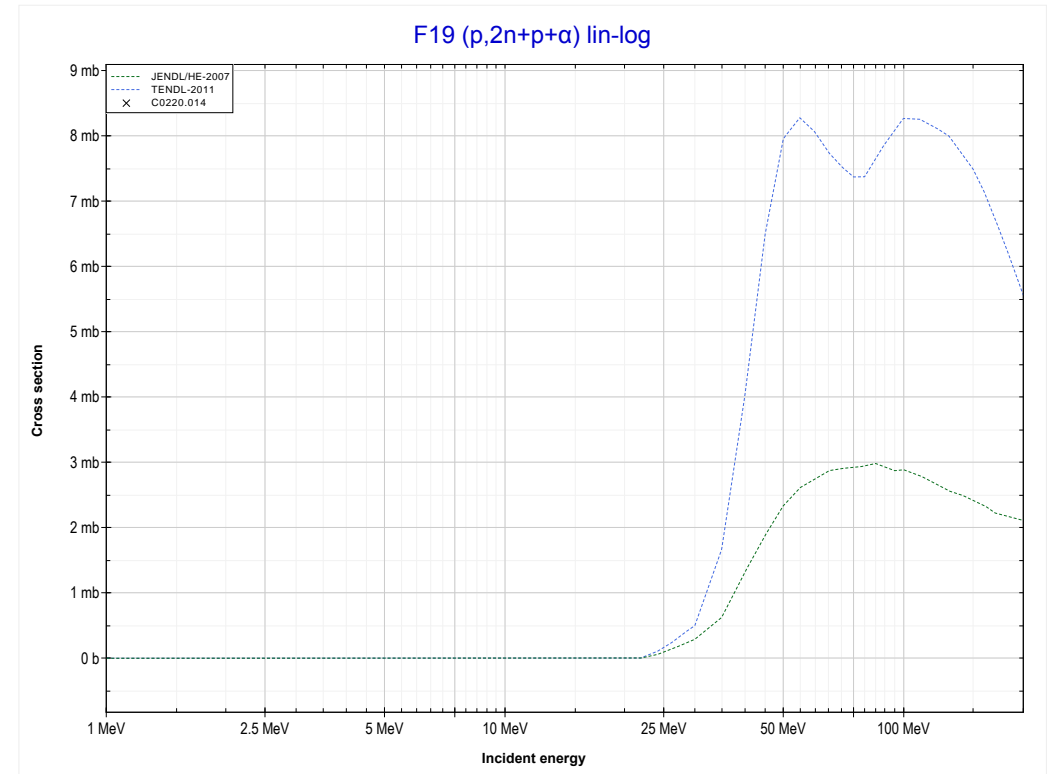
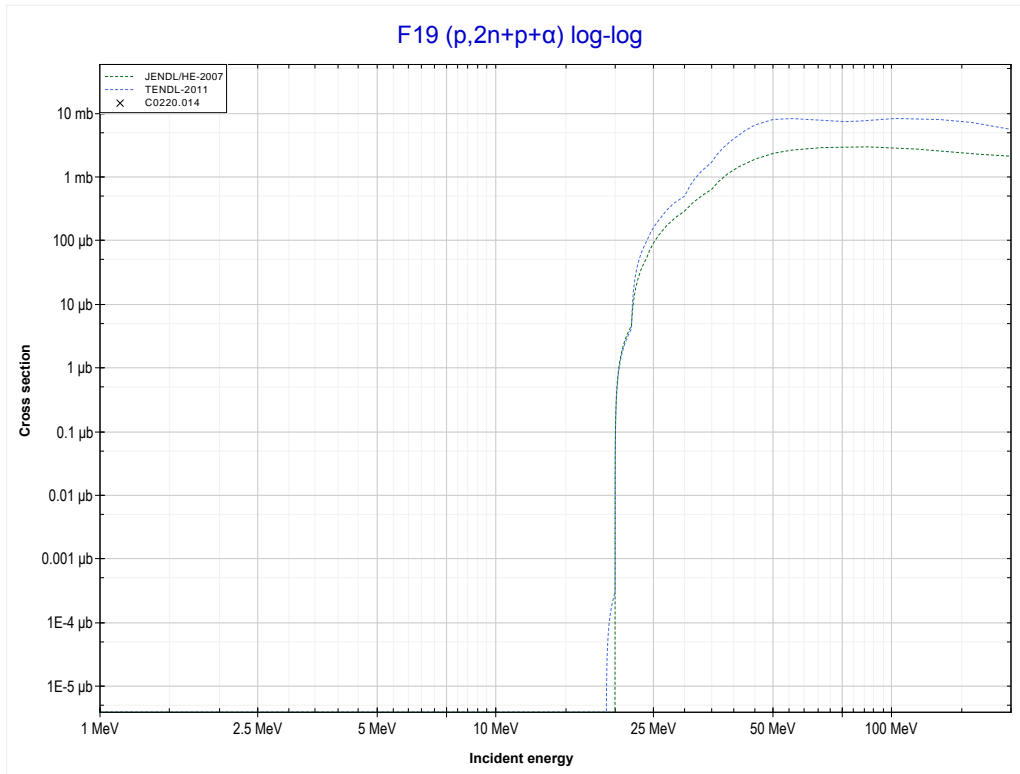
Reaction	Q-Value
F19(p, $\gamma$ )Ne20	12843.51 keV

<< 9-F-18	<b>9-F-19</b>	10-Ne-20 >>
<< MT102 (p, $\gamma$ )	<b>MT107 (p,<math>\alpha</math>) or MT5 (O16 production)</b>	MT159 (p, $2n+p+\alpha$ ) >>



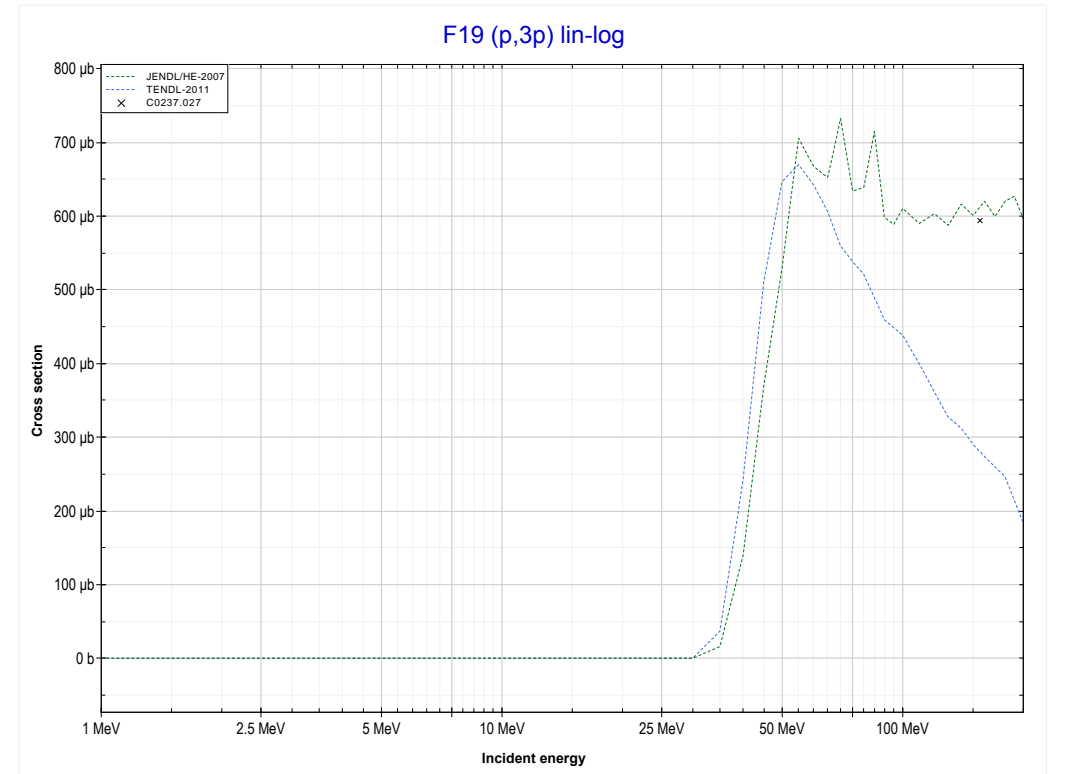
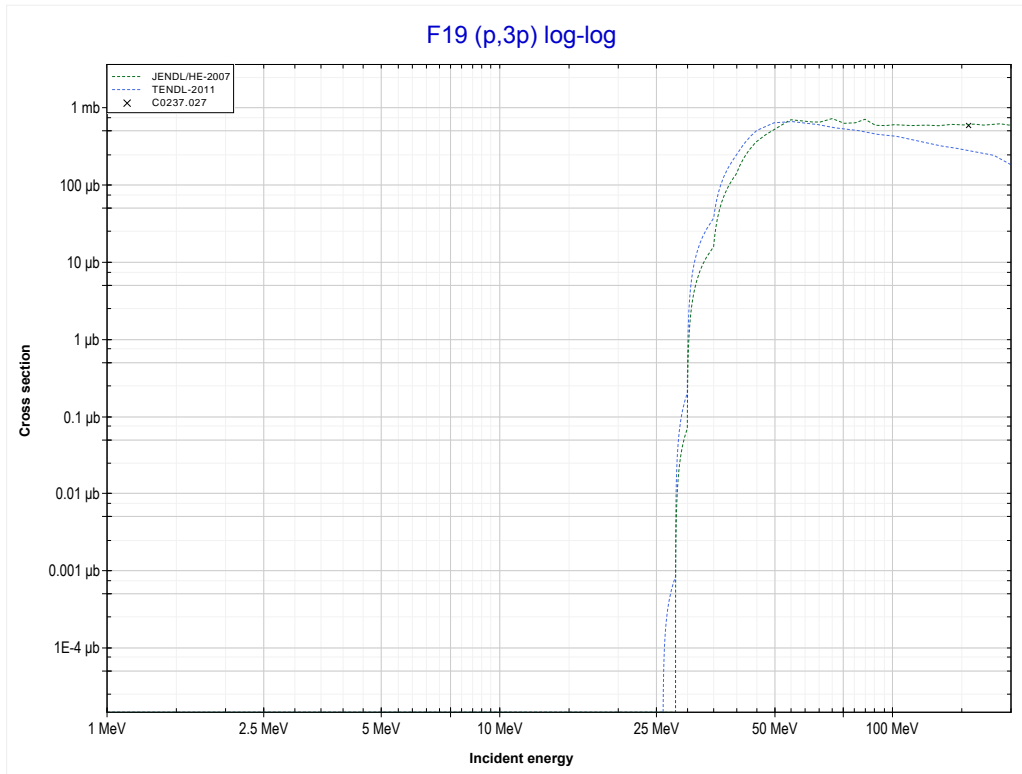
Reaction	Q-Value
F19(p, $\alpha$ )O16	8113.67 keV
F19(p,p+t)O16	-11700.19 keV
F19(p,n+He3)O16	-12463.95 keV
F19(p,2d)O16	-15732.86 keV
F19(p,n+p+d)O16	-17957.43 keV
F19(p,2n+2p)O16	-20181.99 keV

	<b>9-F-19</b>	
<< MT107 (p, $\alpha$ )	<b>MT159 (p,2n+p<math>\alpha</math>) or MT5 (N13 production)</b>	MT197 (p,3p) >>



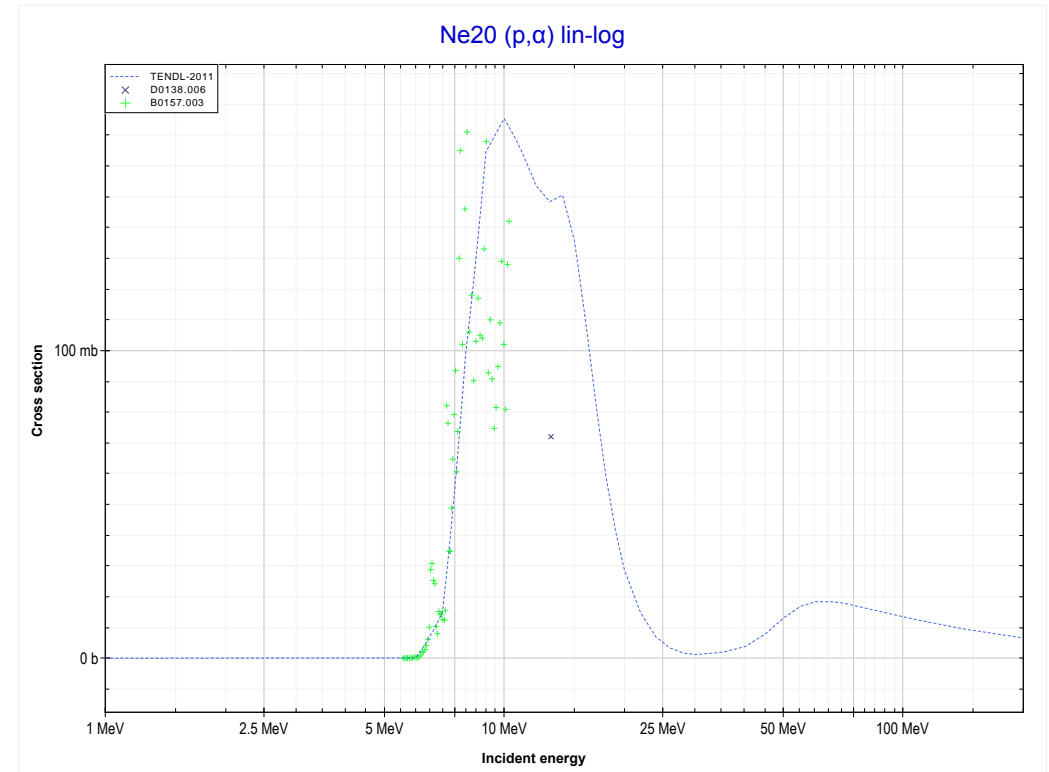
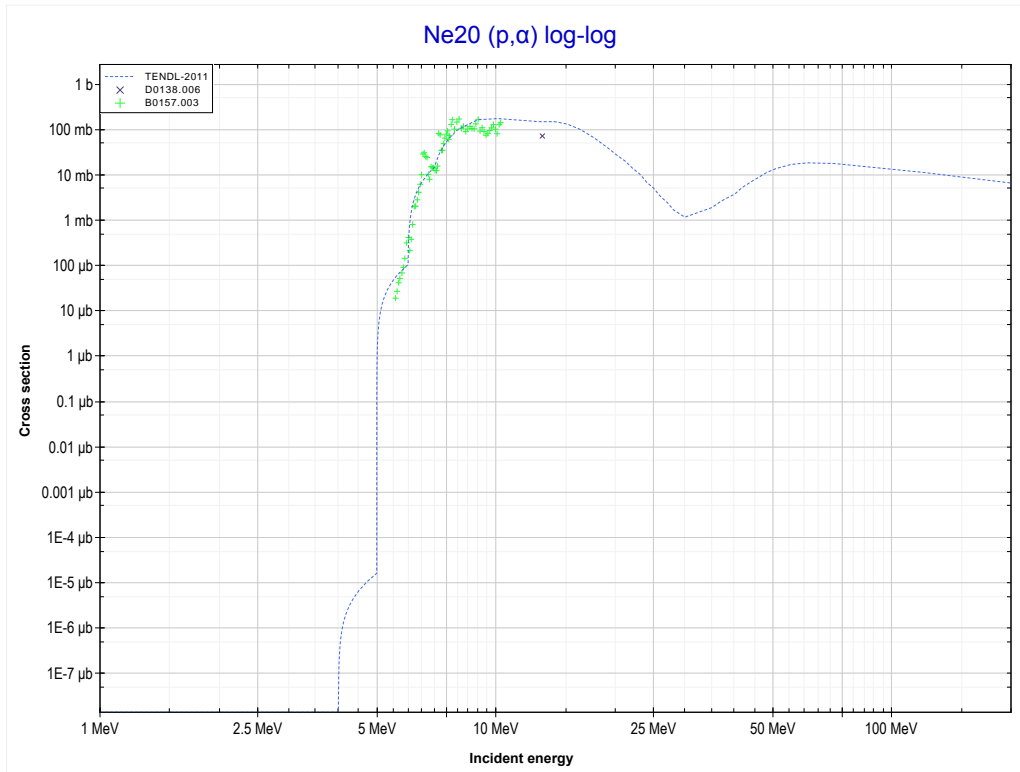
Reaction	Q-Value	Reaction	Q-Value
F19(p,t+ $\alpha$ )N13	-16918.62 keV	F19(p,2n+2p+t)N13	-45214.28 keV
F19(p,n+d+ $\alpha$ )N13	-23175.85 keV	F19(p,3n+p+He3)N13	-45978.04 keV
F19(p,2n+p+ $\alpha$ )N13	-25400.42 keV	F19(p,n+3d)N13	-47022.38 keV
F19(p,p+2t)N13	-36732.48 keV	F19(p,2n+p+2d)N13	-49246.95 keV
F19(p,n+t+He3)N13	-37496.24 keV	F19(p,3n+2p+d)N13	-51471.51 keV
F19(p,2d+t)N13	-40765.15 keV	F19(p,4n+3p)N13	-53696.08 keV
F19(p,n+p+d+t)N13	-42989.71 keV		
F19(p,2n+d+He3)N13	-43753.47 keV		

<< 8-O-18	<b>9-F-19</b>	14-Si-30 >>
<< MT159 (p,2n+p+α)	<b>MT197 (p,3p) or MT5 (N17 production)</b>	MT107 (p,α) >>



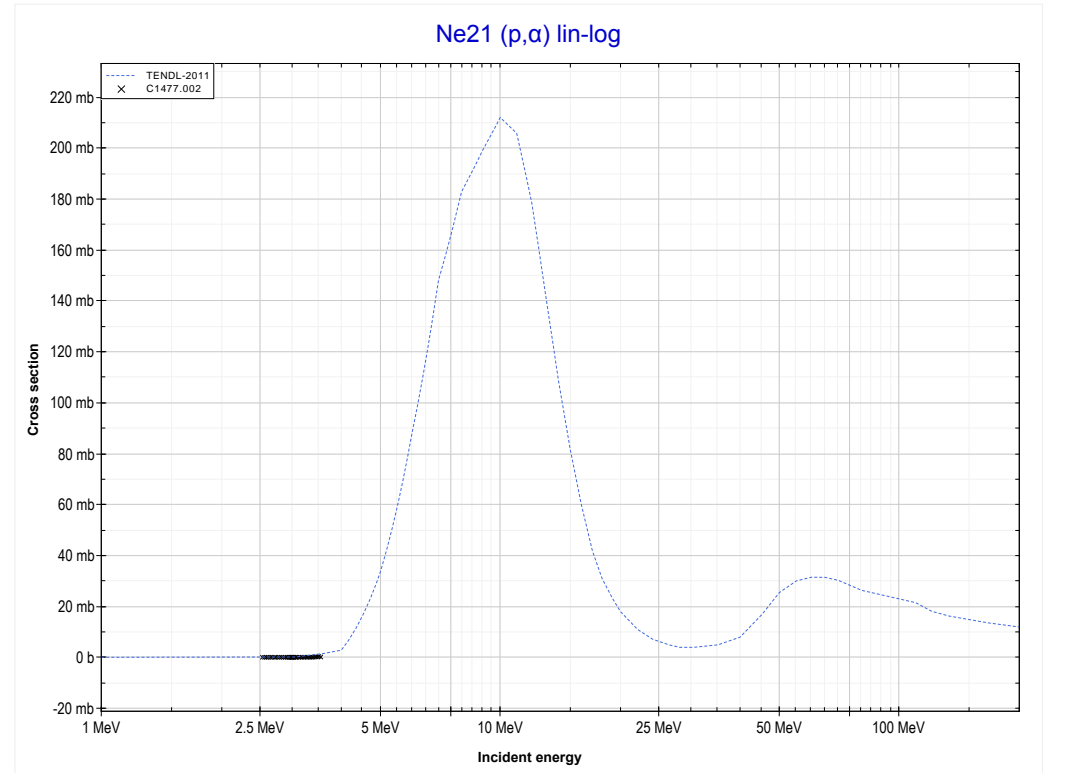
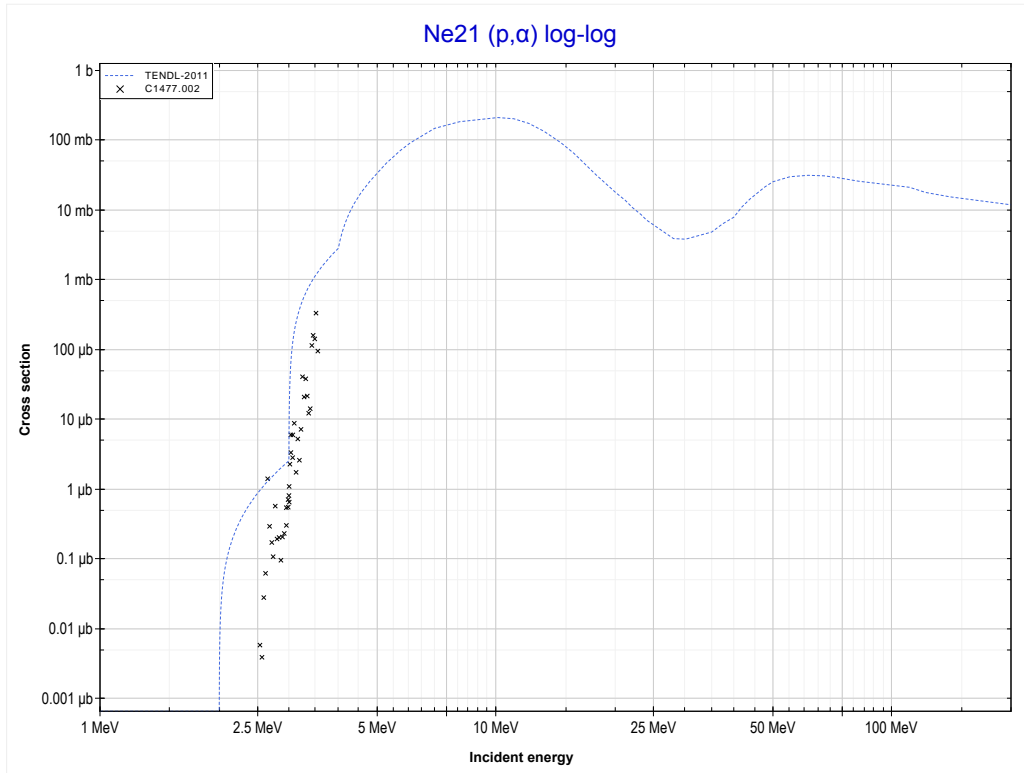
Reaction	Q-Value
F19(p,3p)N17	-23936.33 keV

<< 9-F-19	<b>10-Ne-20</b>	10-Ne-21 >>
<< MT197 (p,3p)	<b>MT107 (p,<math>\alpha</math>) or MT5 (F17 production)</b>	MT107 (p, $\alpha$ ) >>



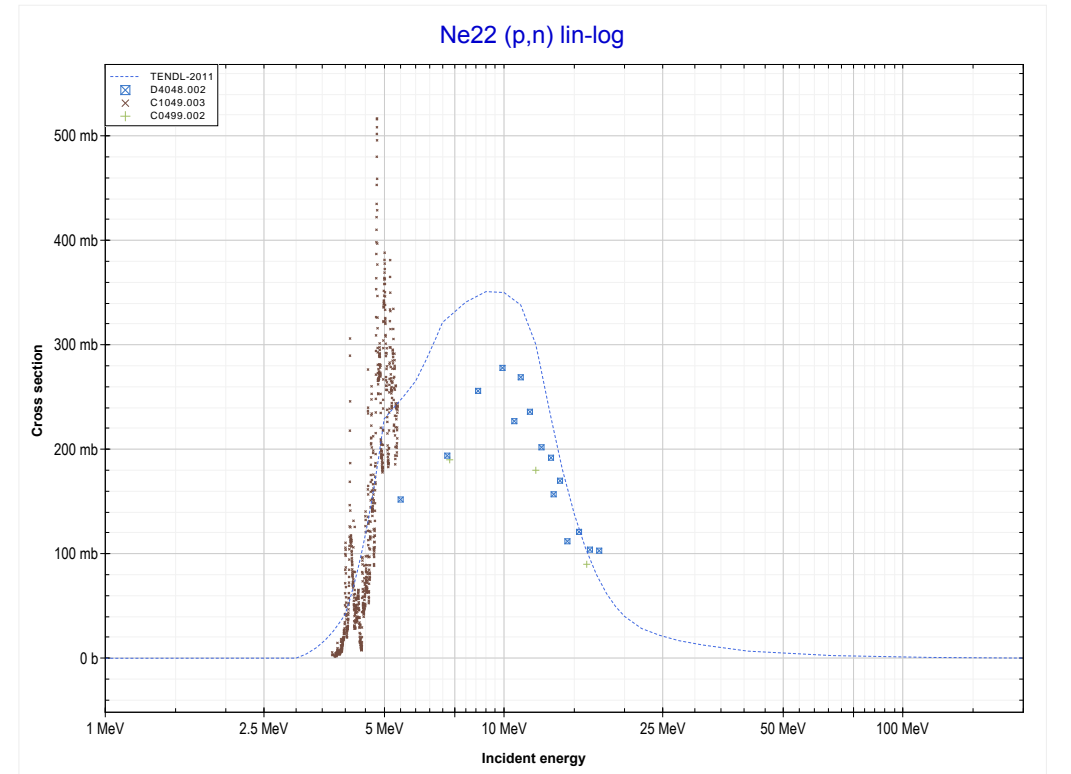
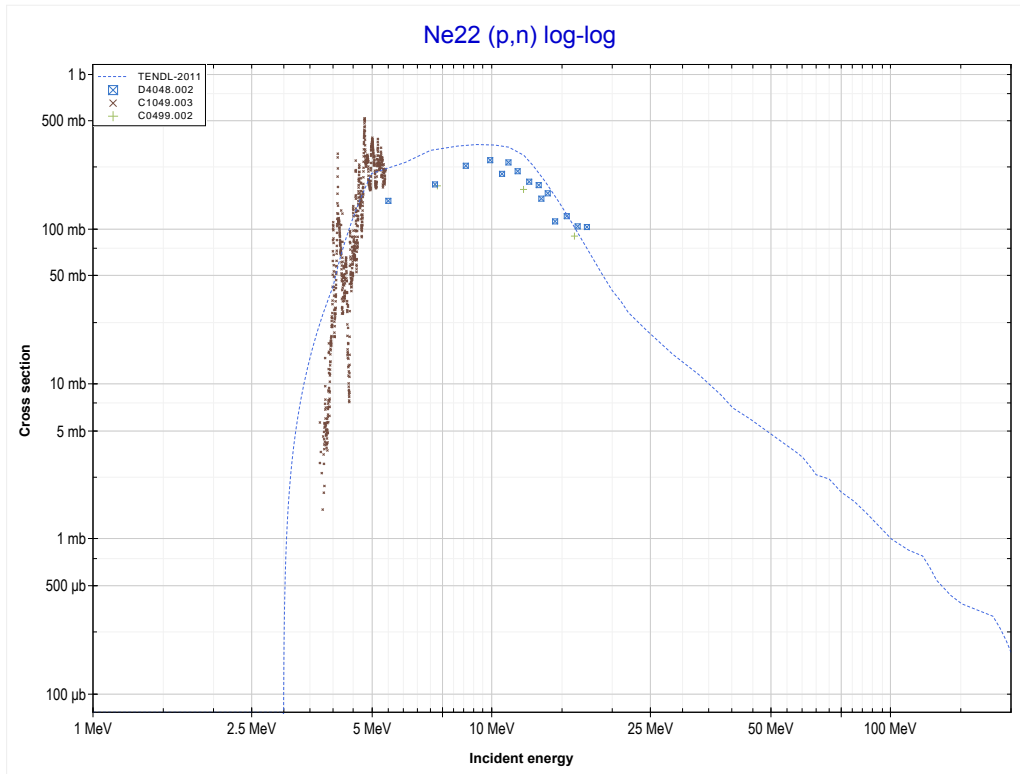
Reaction	Q-Value
Ne20(p, $\alpha$ )F17	-4129.58 keV
Ne20(p,p+t)F17	-23943.44 keV
Ne20(p,n+He3)F17	-24707.19 keV
Ne20(p,2d)F17	-27976.10 keV
Ne20(p,n+p+d)F17	-30200.67 keV
Ne20(p,2n+2p)F17	-32425.24 keV

<< 10-Ne-20	<b>10-Ne-21</b>	12-Mg-24 >>
<< MT107 (p, $\alpha$ )	<b>MT107 (p,<math>\alpha</math>) or MT5 (F18 production)</b>	MT4 (p,n) >>



Reaction	Q-Value
Ne21(p, $\alpha$ )F18	-1741.43 keV
Ne21(p,p+t)F18	-21555.29 keV
Ne21(p,n+He3)F18	-22319.04 keV
Ne21(p,2d)F18	-25587.95 keV
Ne21(p,n+p+d)F18	-27812.52 keV
Ne21(p,2n+2p)F18	-30037.08 keV

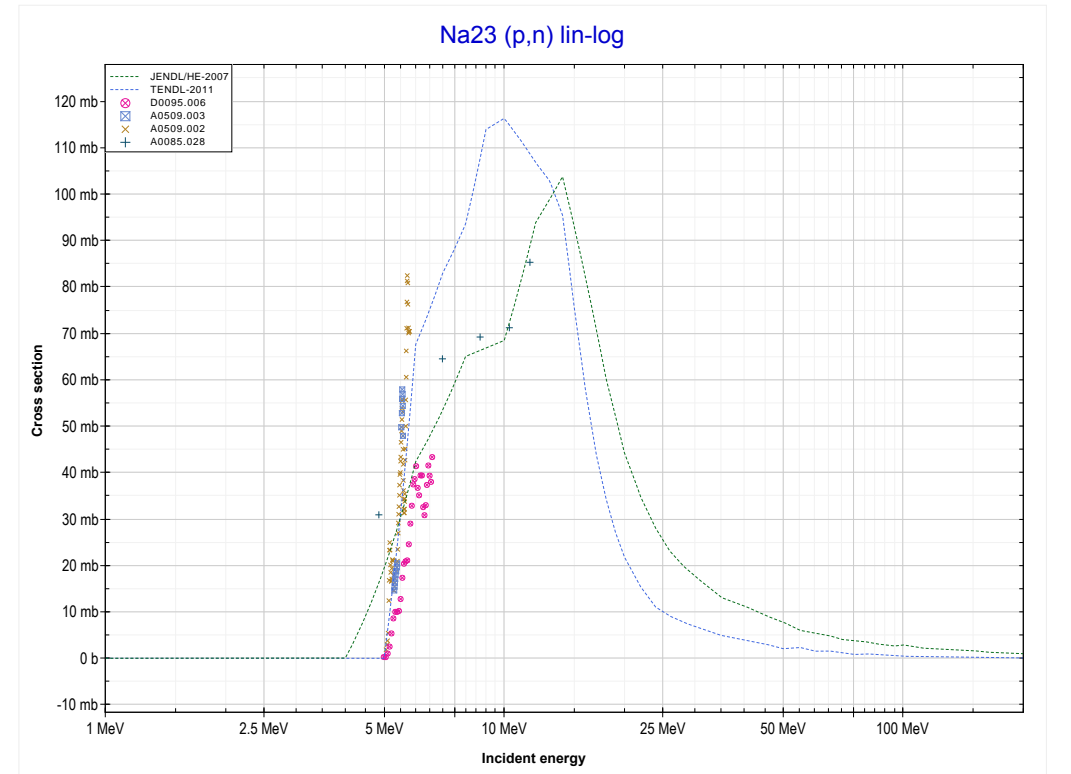
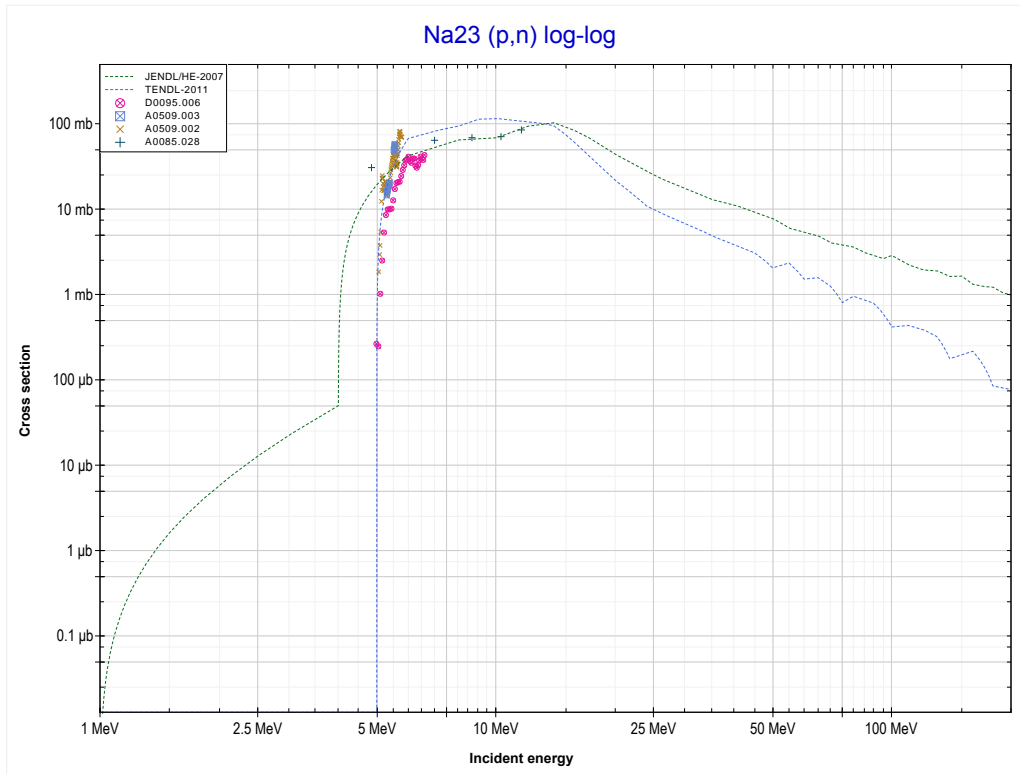
<< 9-F-19	<b>10-Ne-22</b>	11-Na-23 >>
<< MT107 (p, $\alpha$ )	<b>MT4 (p,n) or MT5 (Na22 production)</b>	MT4 (p,n) >>



Reaction	Q-Value
Ne22(p,n)Na22	-3624.66 keV

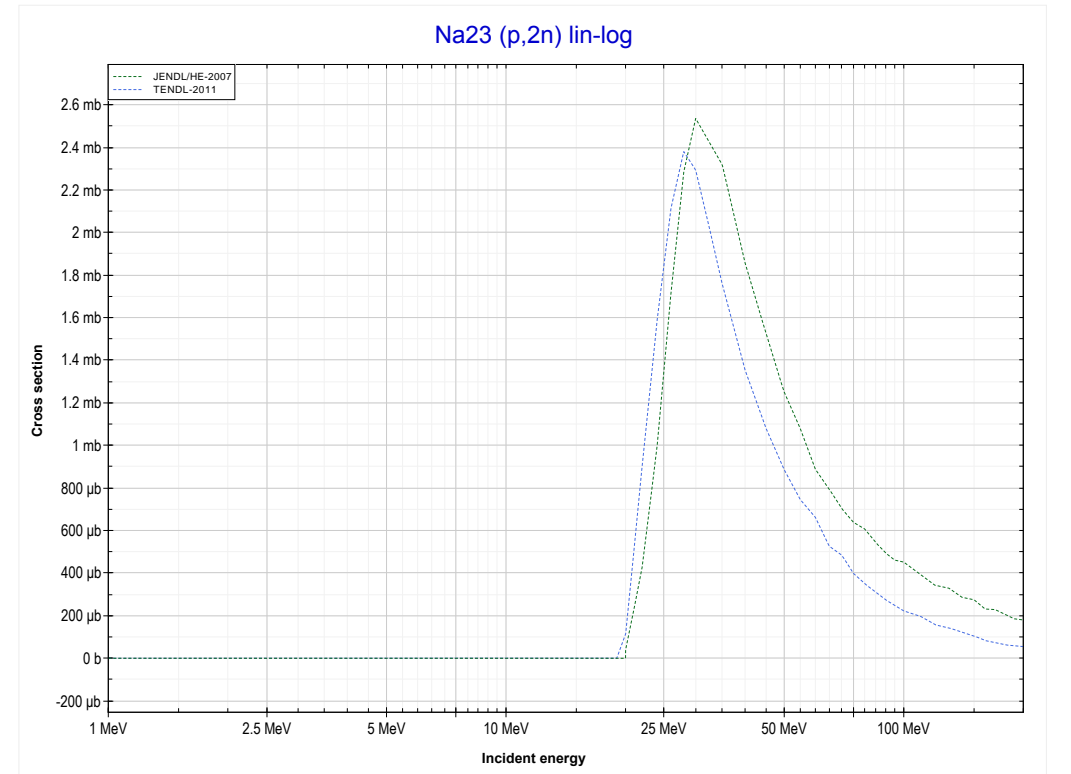
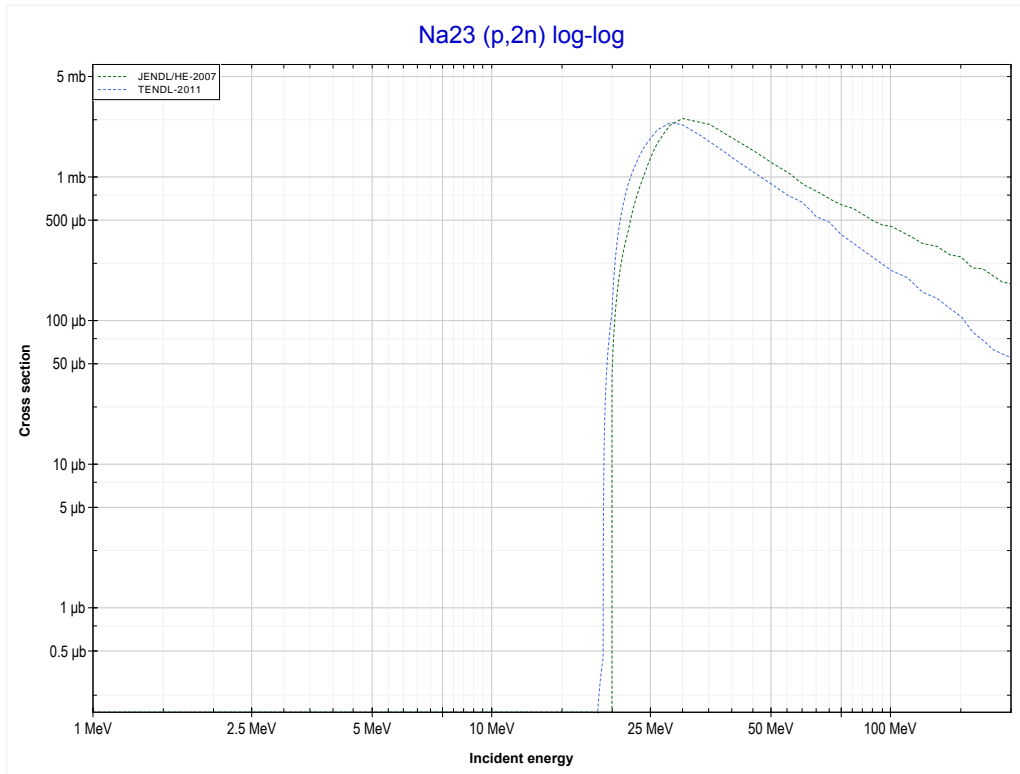


<< 10-Ne-22	<b>11-Na-23</b>	12-Mg-25 >>
<< MT4 (p,n)	<b>MT4 (p,n) or MT5 (Mg23 production)</b>	MT16 (p,2n) >>



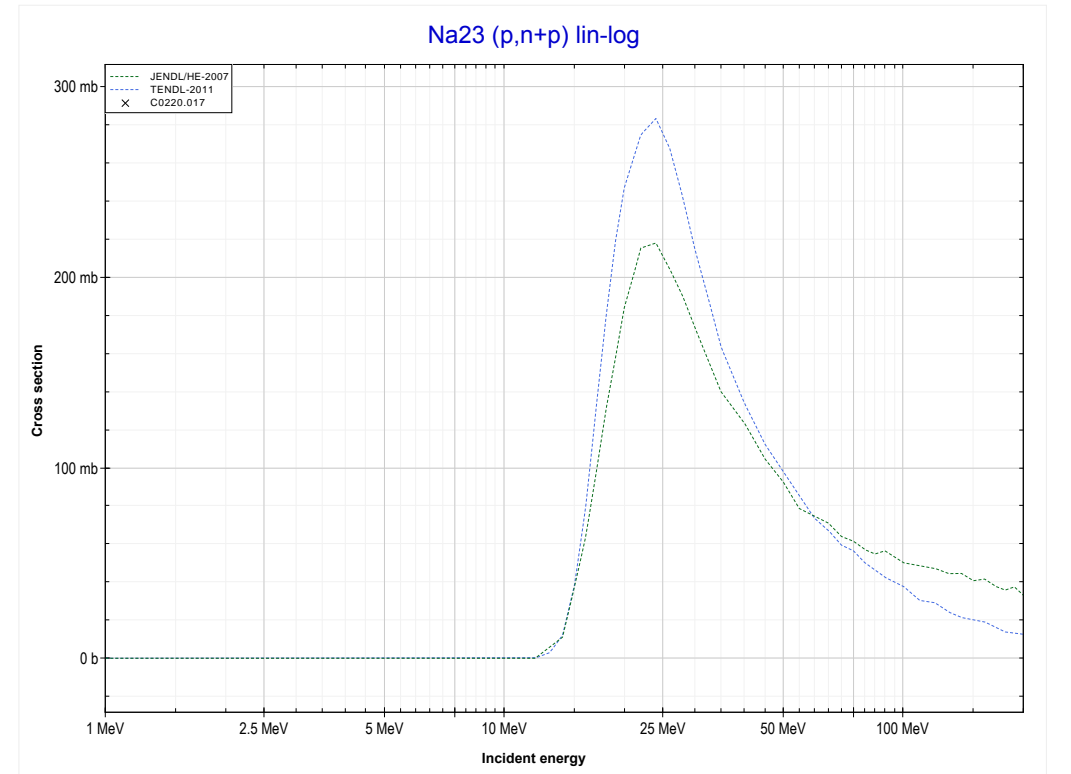
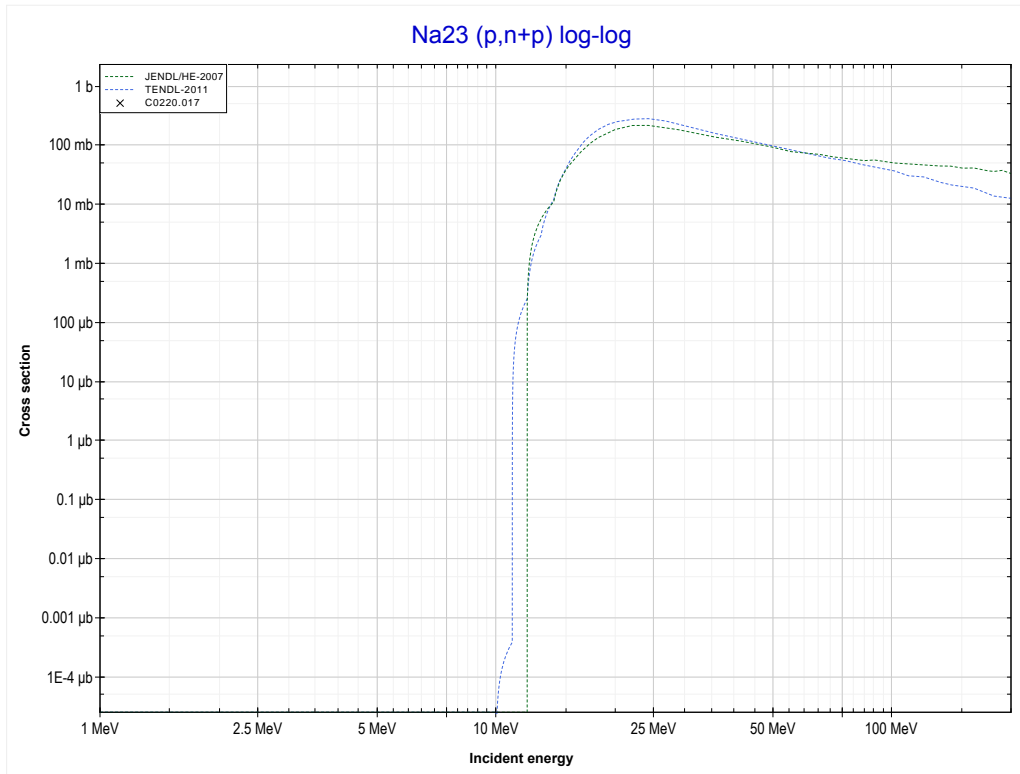
Reaction	Q-Value
Na23(p,n)Mg23	-4838.40 keV

<< 9-F-19	<b>11-Na-23</b>	20-Ca-44 >>
<< MT4 (p,n)	<b>MT16 (p,2n) or MT5 (Mg22 production)</b>	MT28 (p,n+p) >>



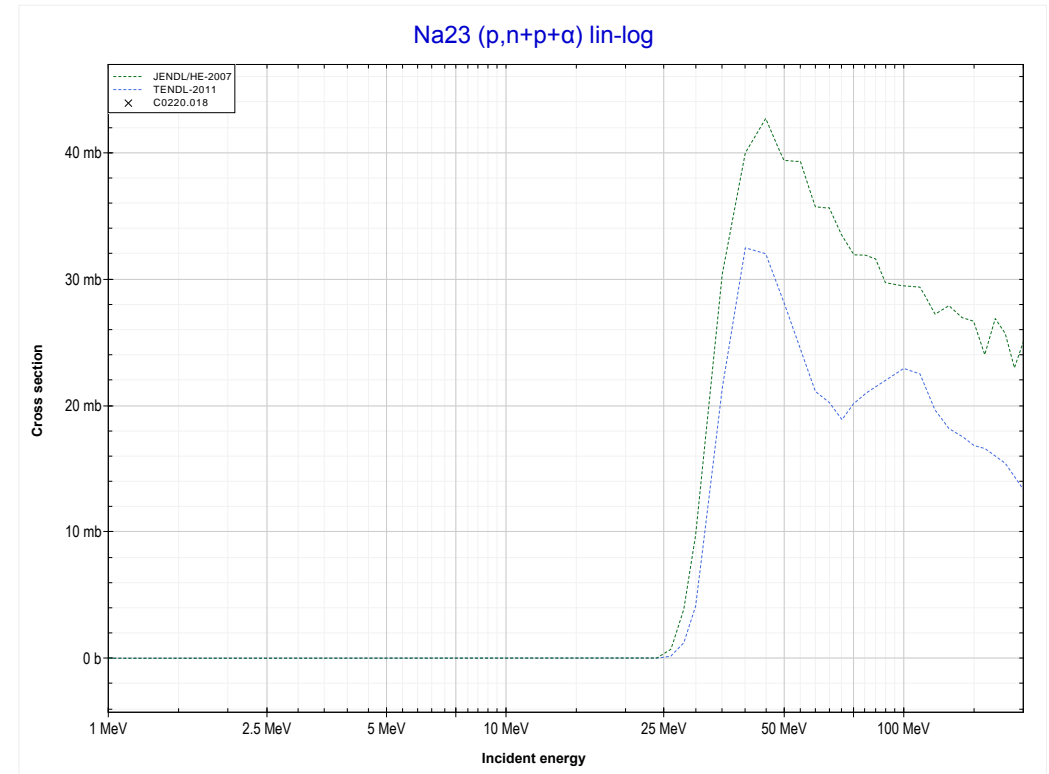
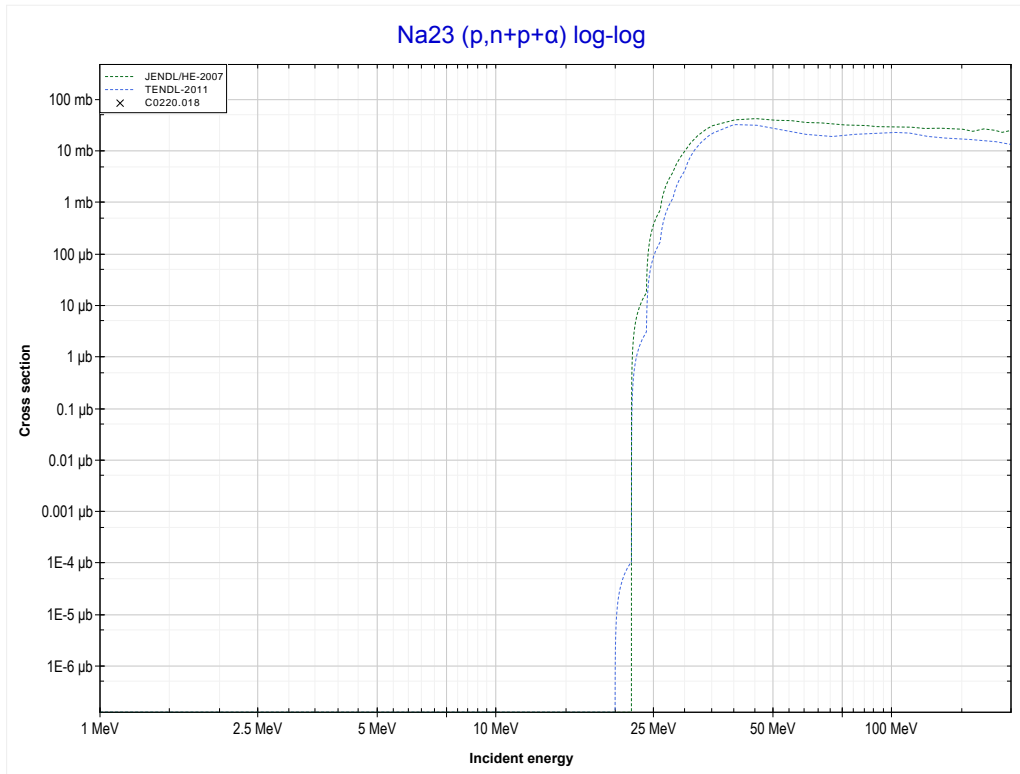
Reaction	Q-Value
Na23(p,2n)Mg22	-17986.52 keV

<< 9-F-19	<b>11-Na-23</b>	13-AI-27 >>
<< MT16 (p,2n)	<b>MT28 (p,n+p) or MT5 (Na22 production)</b>	MT45 (p,n+p+α) >>



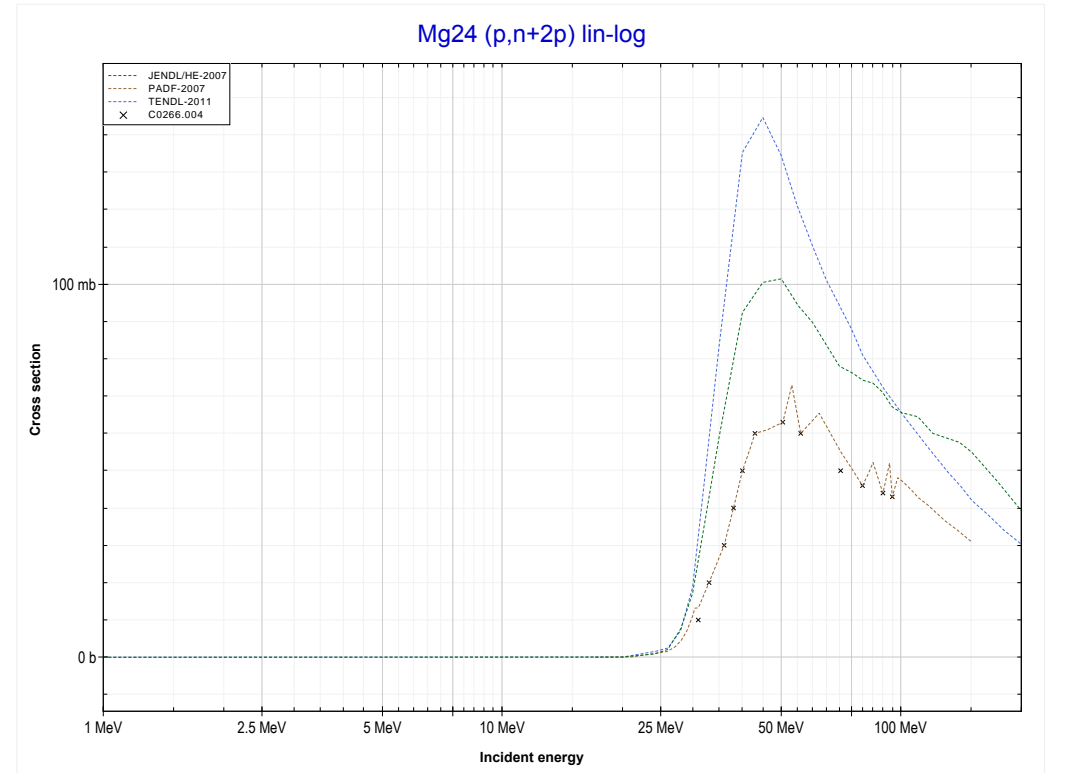
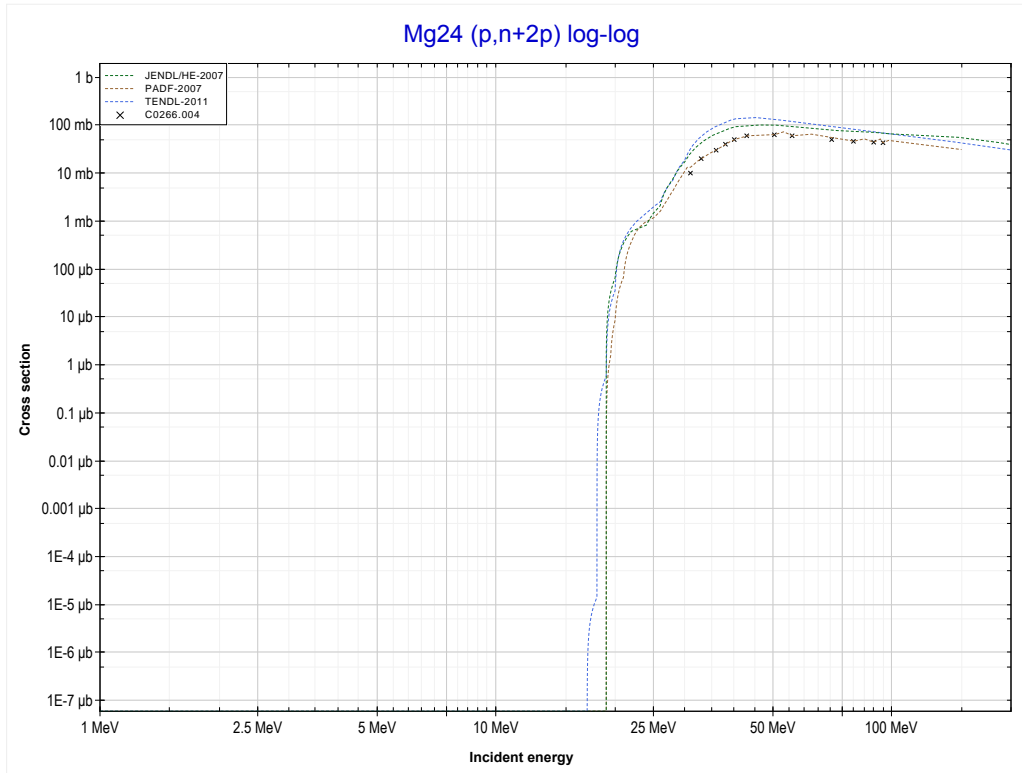
Reaction	Q-Value
Na23(p,d)Na22	-10194.20 keV
Na23(p,n+p)Na22	-12418.77 keV

<< 8-O-16	<b>11-Na-23</b>	13-Al-27 >>
<< MT28 (p,n+p)	<b>MT45 (p,n+p+α) or MT5 (F18 production)</b>	MT44 (p,n+2p) >>



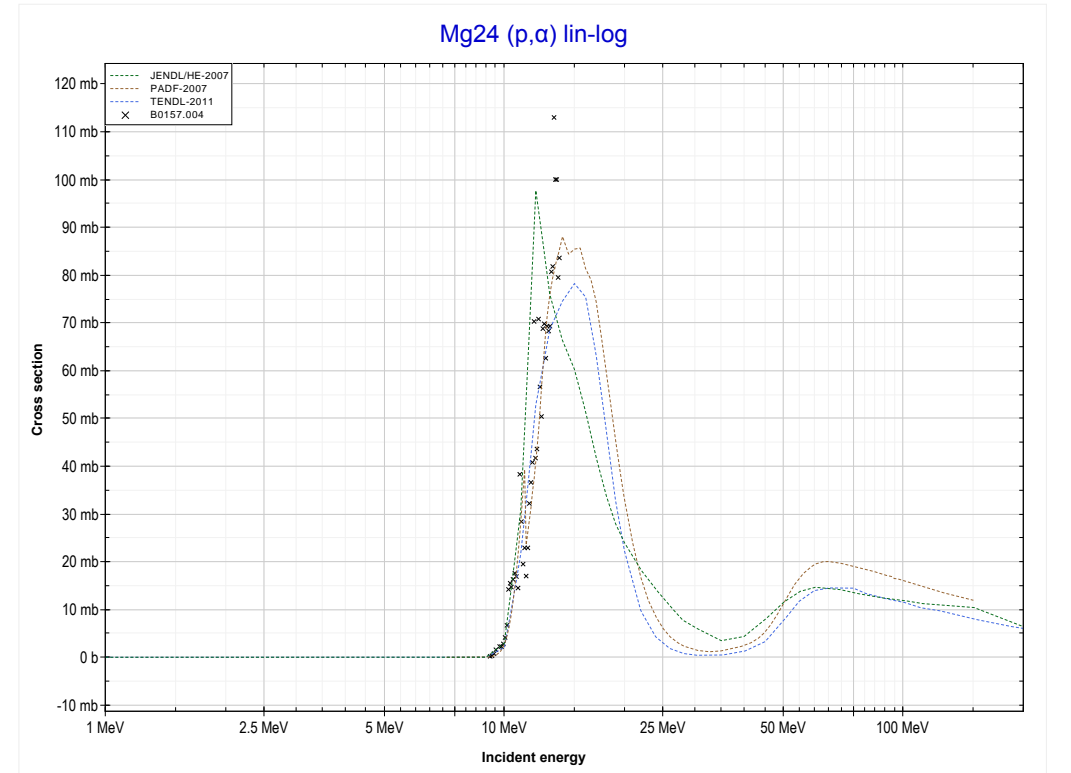
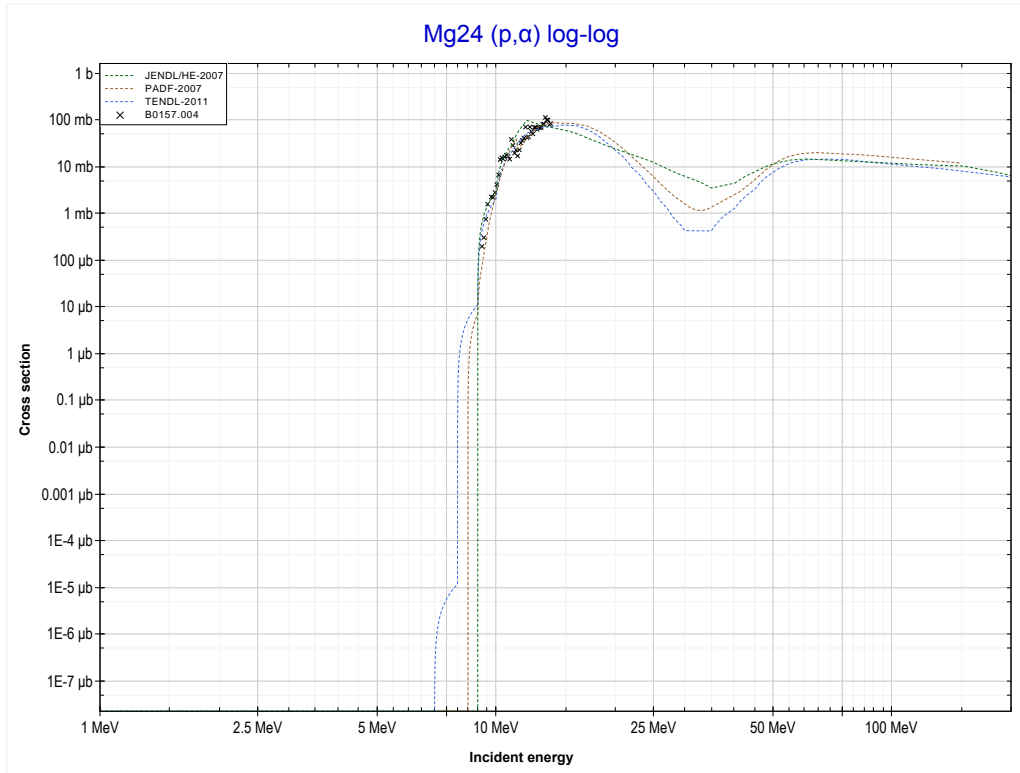
Reaction	Q-Value	Reaction	Q-Value
Na23(p,d+α)F18	-18675.22 keV	Na23(p,n+p+2d)F18	-44746.31 keV
Na23(p,n+p+α)F18	-20899.79 keV	Na23(p,2n+2p+d)F18	-46970.88 keV
Na23(p,t+He3)F18	-32995.60 keV	Na23(p,3n+3p)F18	-49195.45 keV
Na23(p,p+d+t)F18	-38489.08 keV		
Na23(p,n+d+He3)F18	-39252.84 keV		
Na23(p,n+2p+t)F18	-40713.65 keV		
Na23(p,2n+p+He3)F18	-41477.40 keV		
Na23(p,3d)F18	-42521.75 keV		

	<b>12-Mg-24</b>	22-Ti-46 >>
<< MT45 (p,n+p+α)	<b>MT44 (p,n+2p) or MT5 (Na22 production)</b>	MT107 (p,α) >>



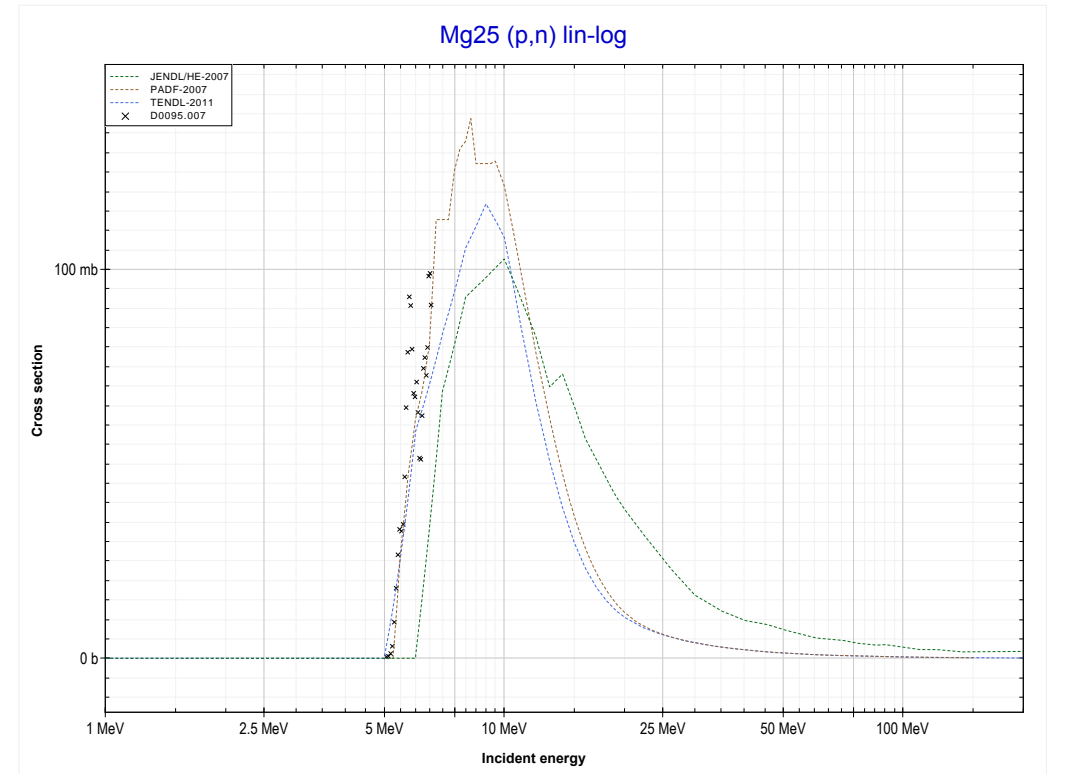
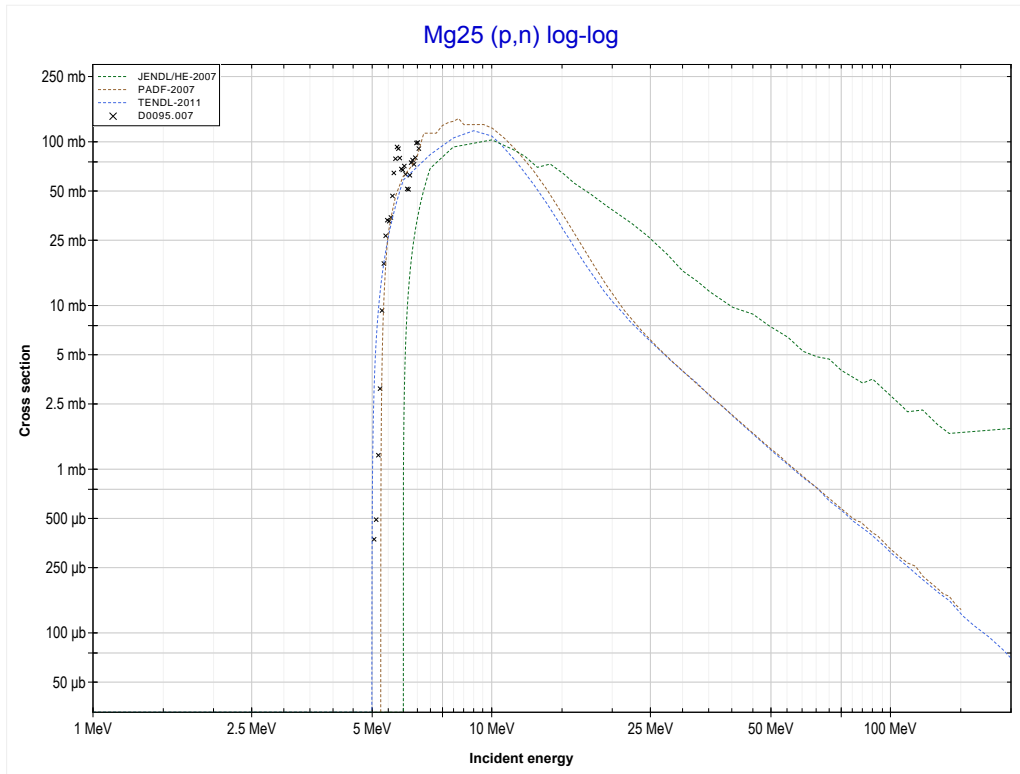
Reaction	Q-Value
Mg24(p,He3)Na22	-16393.41 keV
Mg24(p,p+d)Na22	-21886.89 keV
Mg24(p,n+2p)Na22	-24111.45 keV

<< 10-Ne-21	<b>12-Mg-24</b>	22-Ti-46 >>
<< MT44 (p,n+2p)	<b>MT107 (p,<math>\alpha</math>) or MT5 (Na21 production)</b>	MT4 (p,n) >>



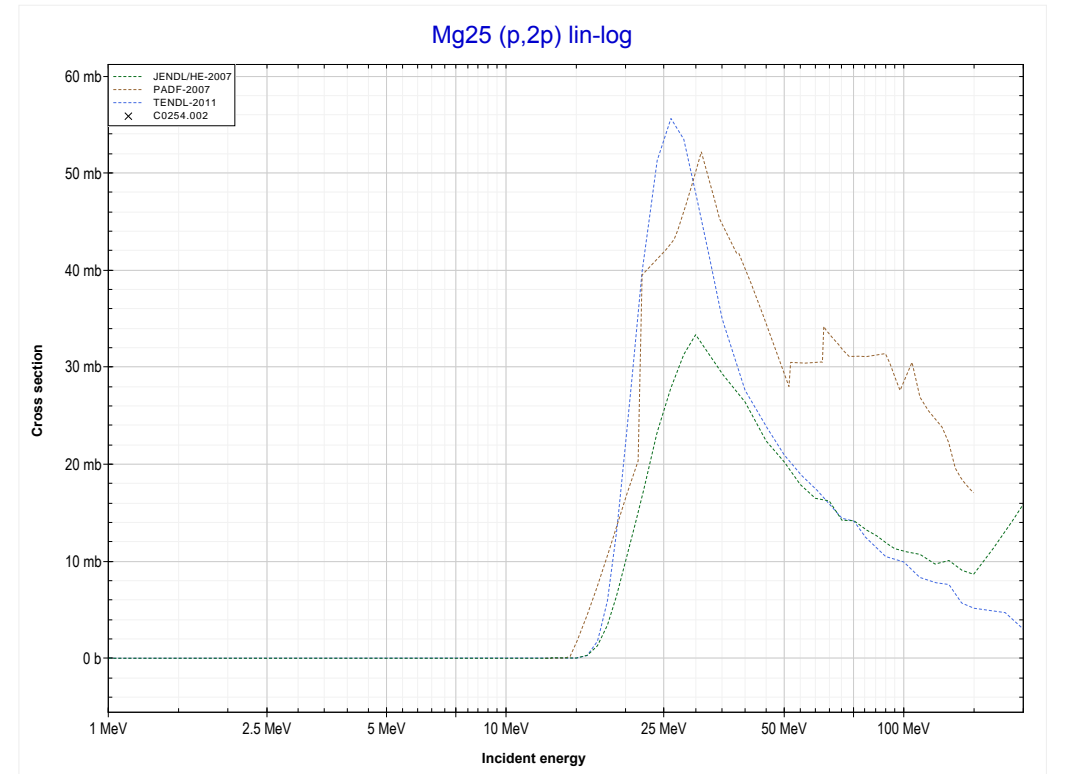
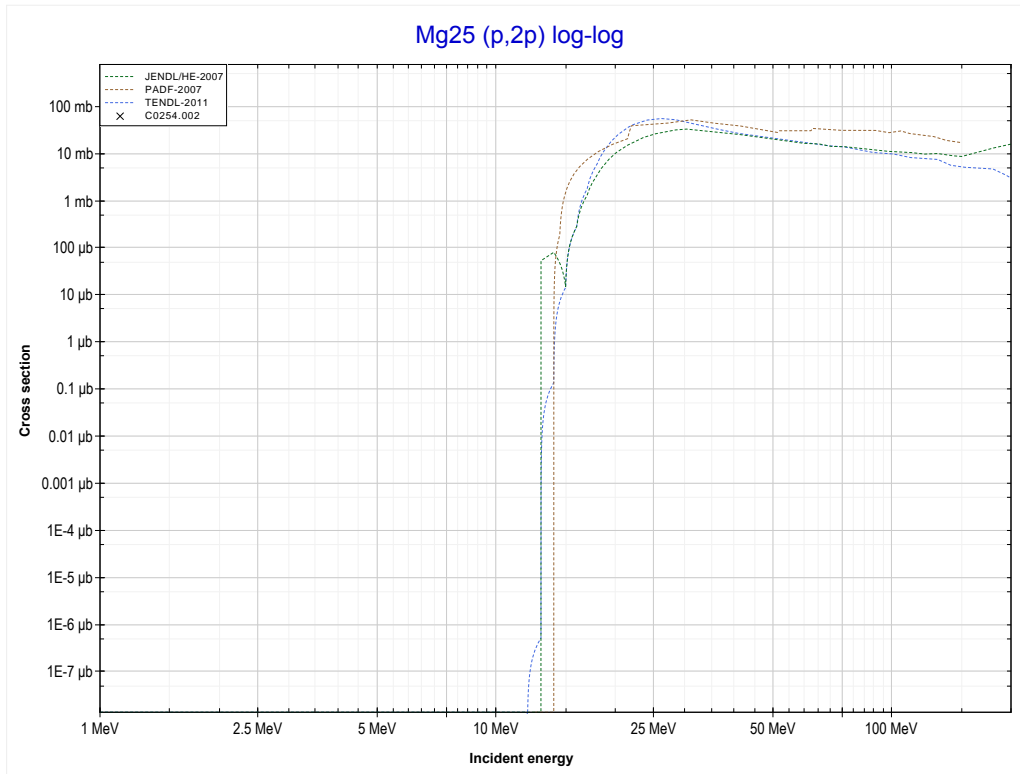
Reaction	Q-Value
Mg24(p, $\alpha$ )Na21	-6885.31 keV
Mg24(p,p+t)Na21	-26699.17 keV
Mg24(p,n+He3)Na21	-27462.93 keV
Mg24(p,2d)Na21	-30731.84 keV
Mg24(p,n+p+d)Na21	-32956.41 keV
Mg24(p,2n+2p)Na21	-35180.97 keV

<< 11-Na-23	<b>12-Mg-25</b>	12-Mg-26 >>
<< MT107 (p, $\alpha$ )	<b>MT4 (p,n) or MT5 (Al25 production)</b>	MT111 (p,2p) >>



Reaction	Q-Value
Mg25(p,n)Al25	-5058.98 keV

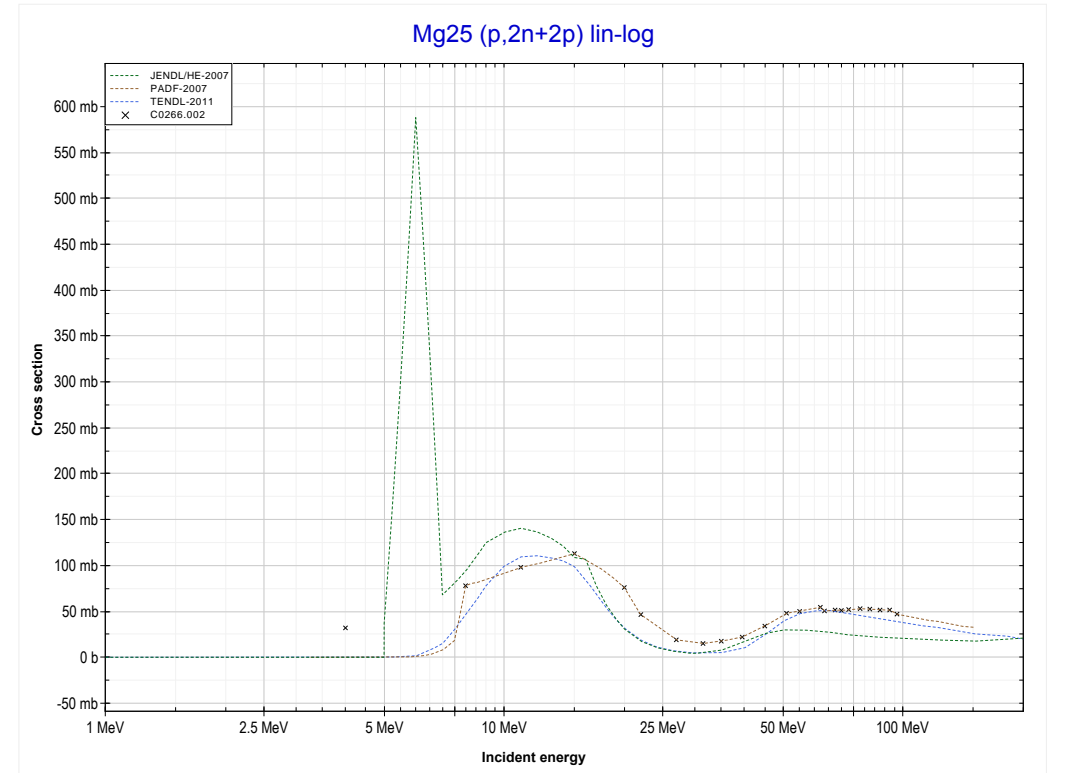
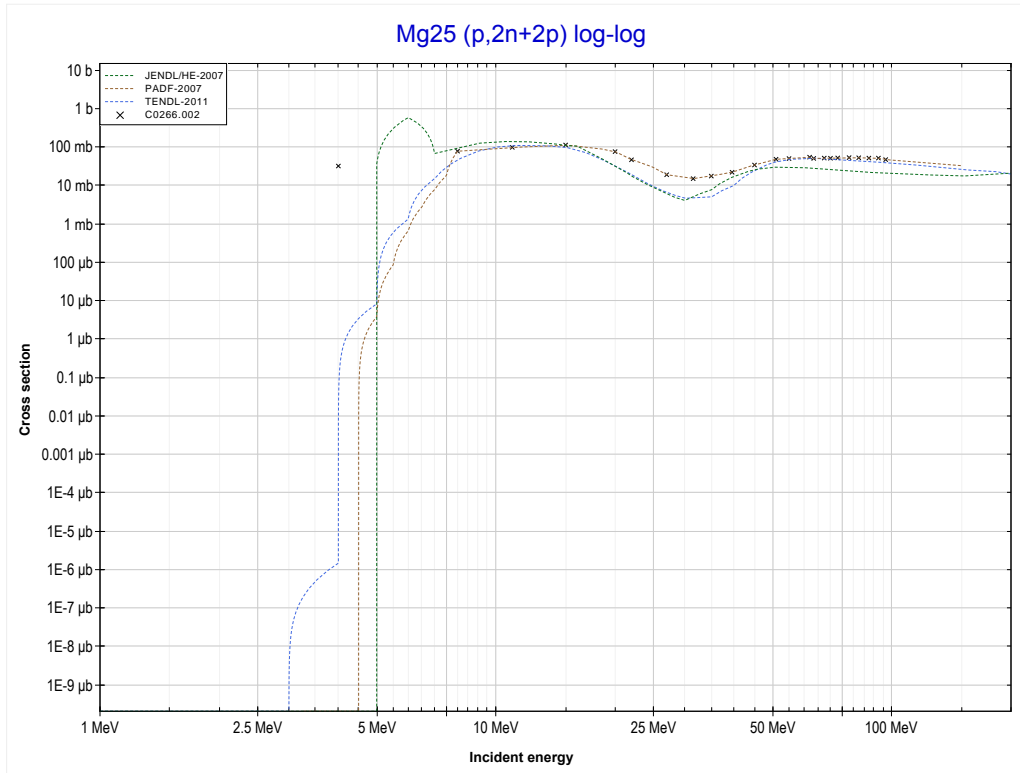
	<b>12-Mg-25</b>	<b>14-Si-29 &gt;&gt;</b>
<b>&lt;&lt; MT4 (p,n)</b>	<b>MT111 (p,2p) or MT5 (Na24 production)</b>	<b>MT190 (p,2n+2p) &gt;&gt;</b>



Reaction	Q-Value
Mg25(p,2p)Na24	-12063.69 keV

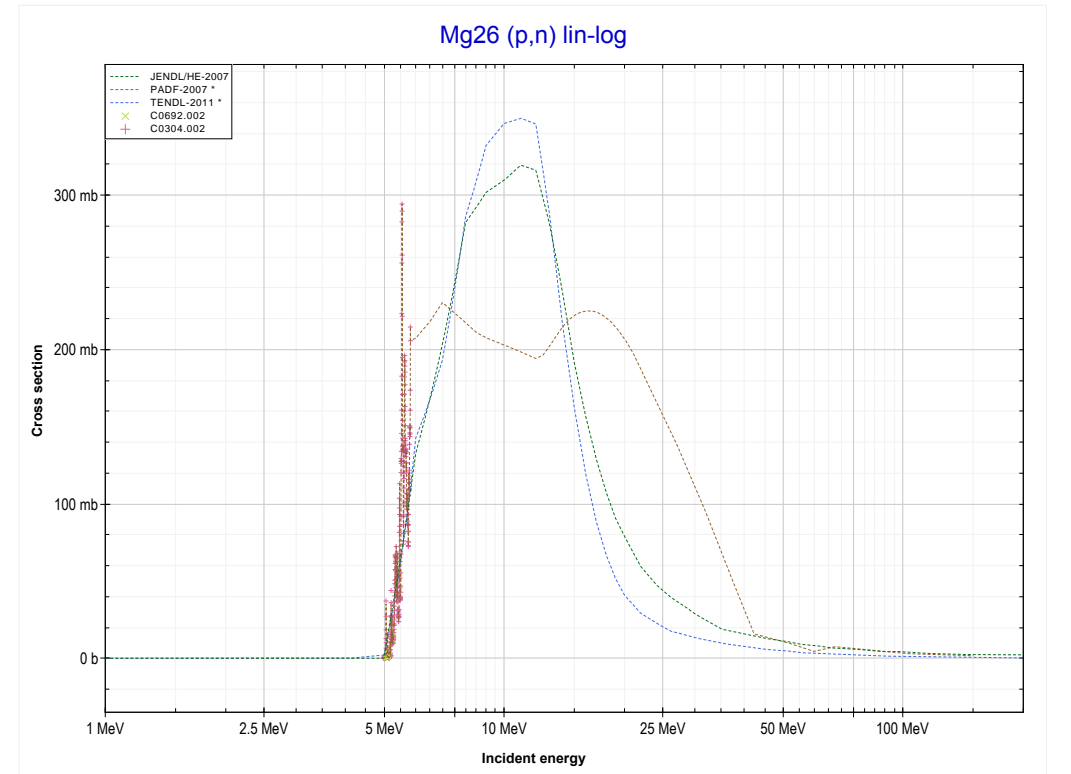
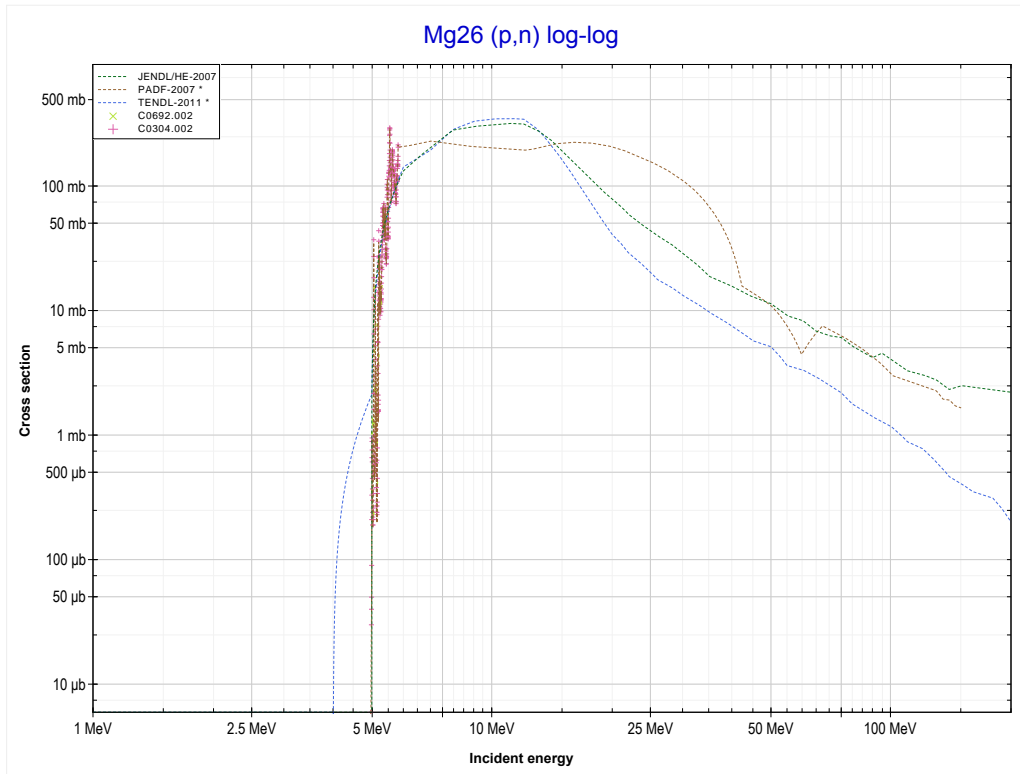


<< 8-O-16	<b>12-Mg-25</b>	24-Cr-50 >>
<< MT111 (p,2p)	<b>MT190 (p,2n+2p) or MT5 (Na22 production)</b>	MT4 (p,n) >>



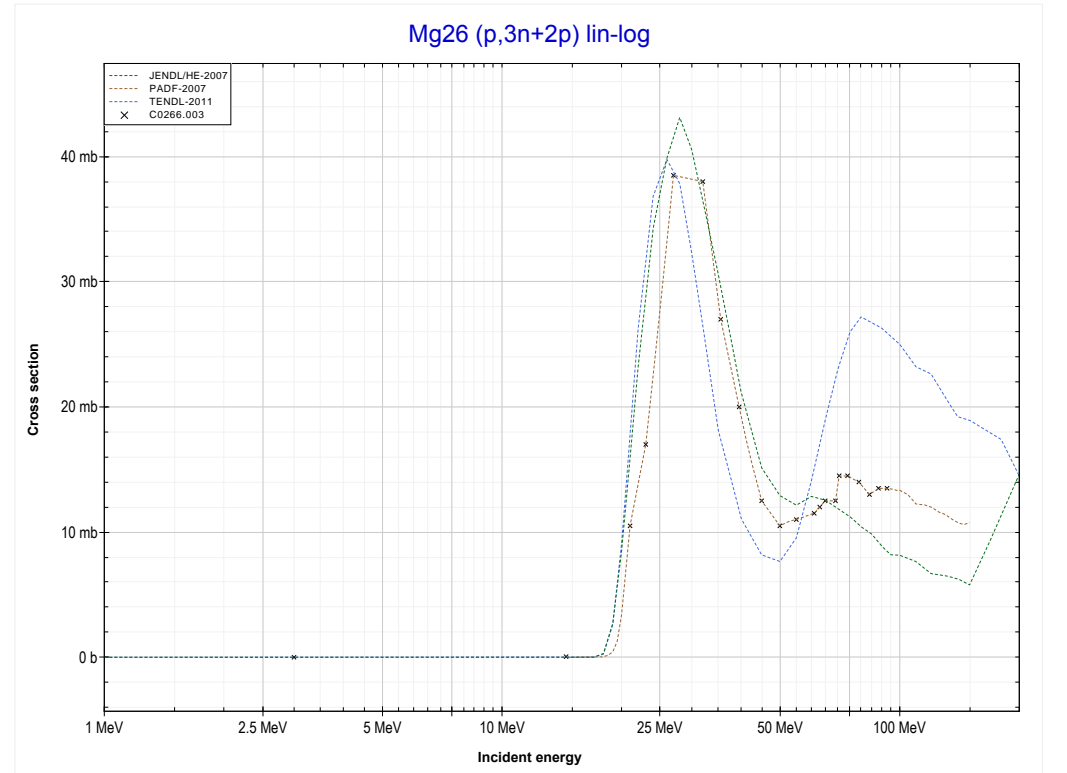
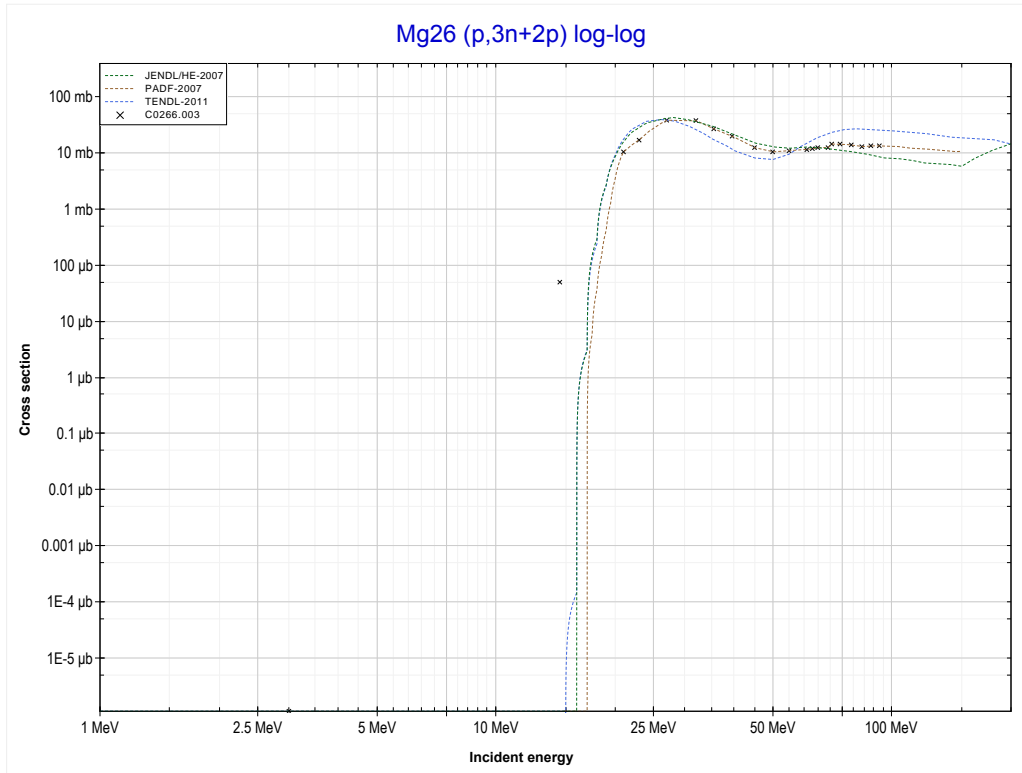
Reaction	Q-Value
Mg25(p, $\alpha$ )Na22	-3146.38 keV
Mg25(p,p+t)Na22	-22960.24 keV
Mg25(p,n+He3)Na22	-23723.99 keV
Mg25(p,2d)Na22	-26992.90 keV
Mg25(p,n+p+d)Na22	-29217.47 keV
Mg25(p,2n+2p)Na22	-31442.03 keV

<< 12-Mg-25	<b>12-Mg-26</b>	13-Al-27 >>
<< MT190 (p,2n+2p)	<b>MT4 (p,n) or MT5 (Al26 production)</b>	MT179 (p,3n+2p) >>



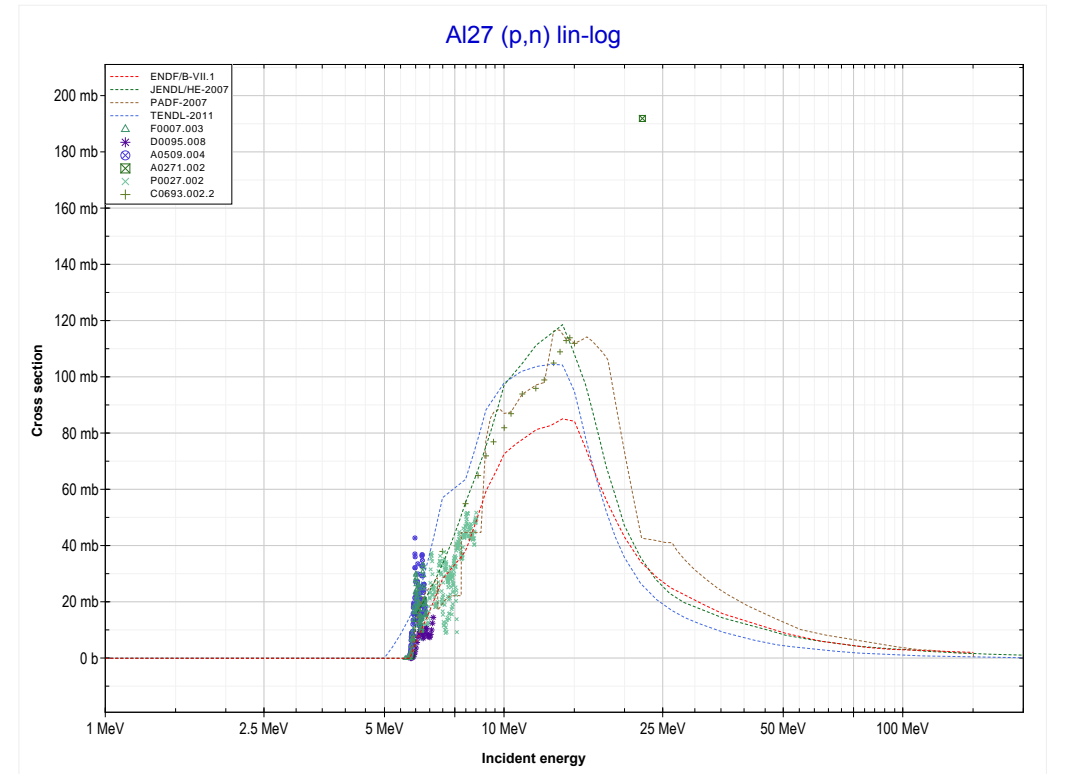
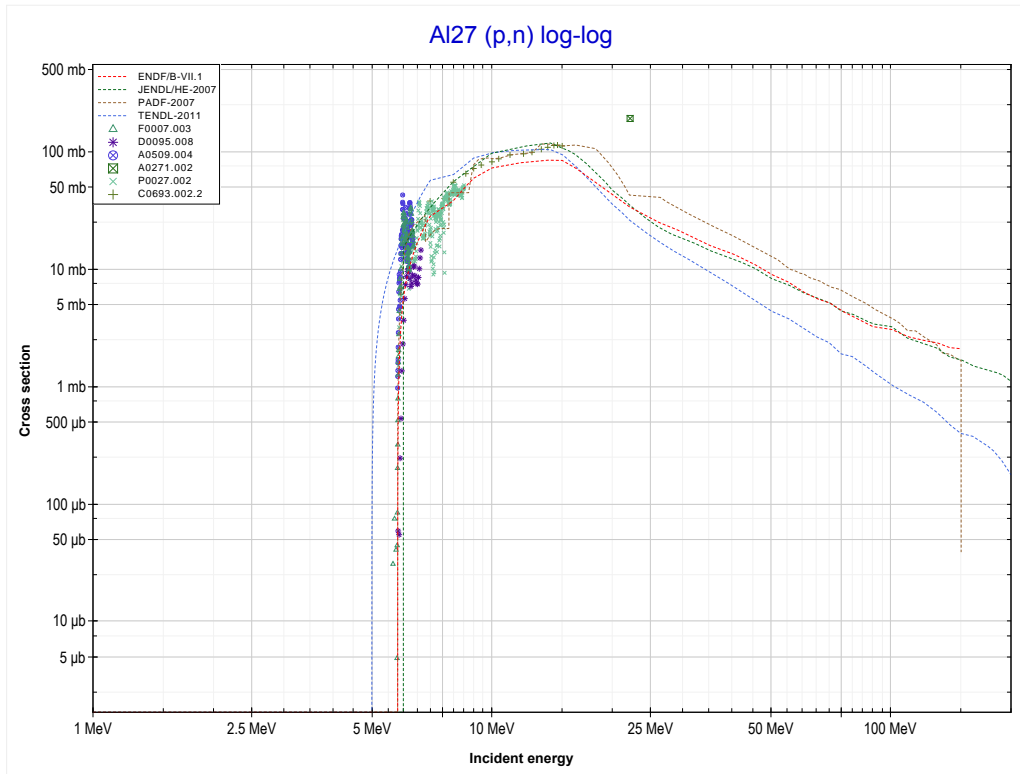
Reaction	Q-Value
Mg26(p,n)Al26	-4786.62 keV

	<b>12-Mg-26</b>	30-Zn-64 >>
<< MT4 (p,n)	<b>MT179 (p,3n+2p) or MT5 (Na22 production)</b>	MT4 (p,n) >>



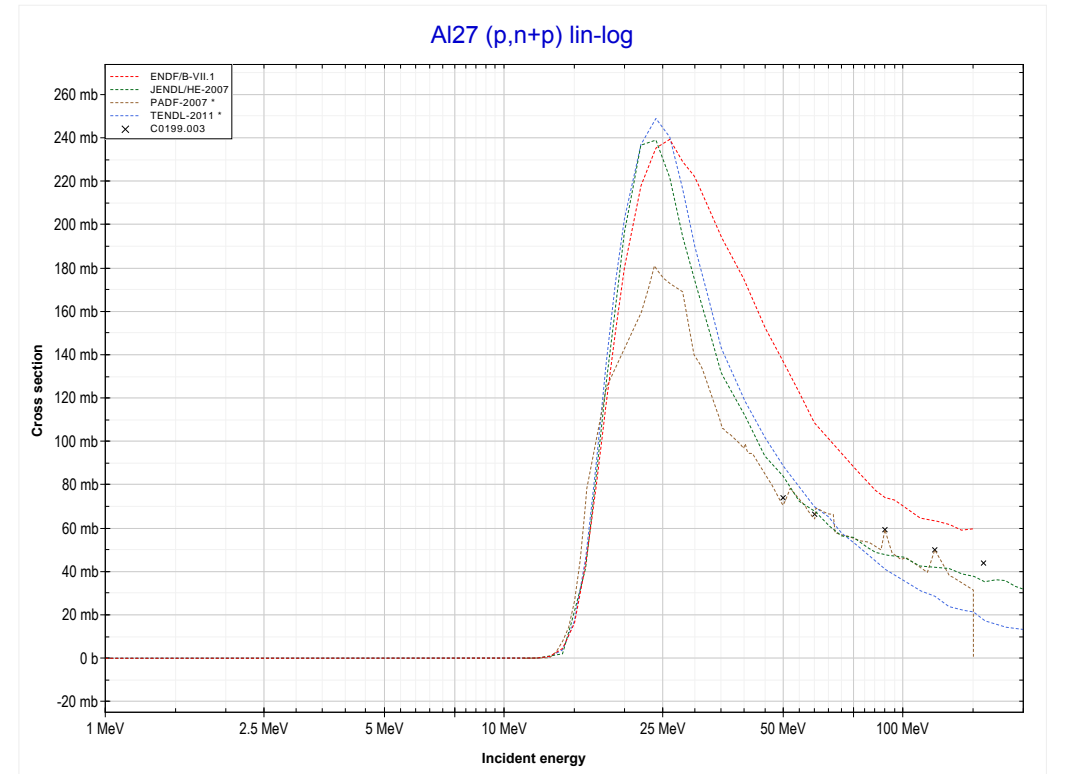
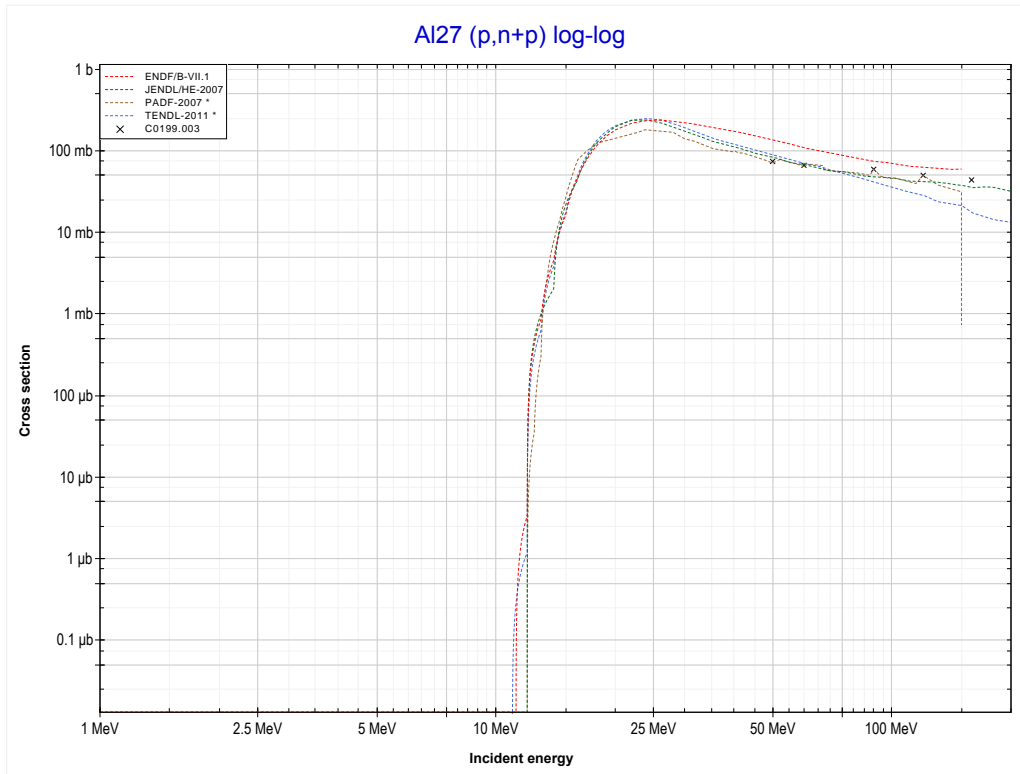
Reaction	Q-Value
Mg26(p,n+α)Na22	-14239.44 keV
Mg26(p,d+t)Na22	-31828.74 keV
Mg26(p,n+p+t)Na22	-34053.31 keV
Mg26(p,2n+He3)Na22	-34817.06 keV
Mg26(p,n+2d)Na22	-38085.97 keV
Mg26(p,2n+p+d)Na22	-40310.54 keV
Mg26(p,3n+2p)Na22	-42535.10 keV

<< 12-Mg-26	<b>13-Al-27</b>	16-S-34 >>
<< MT179 (p,3n+2p)	<b>MT4 (p,n) or MT5 (Si27 production)</b>	MT28 (p,n+p) >>



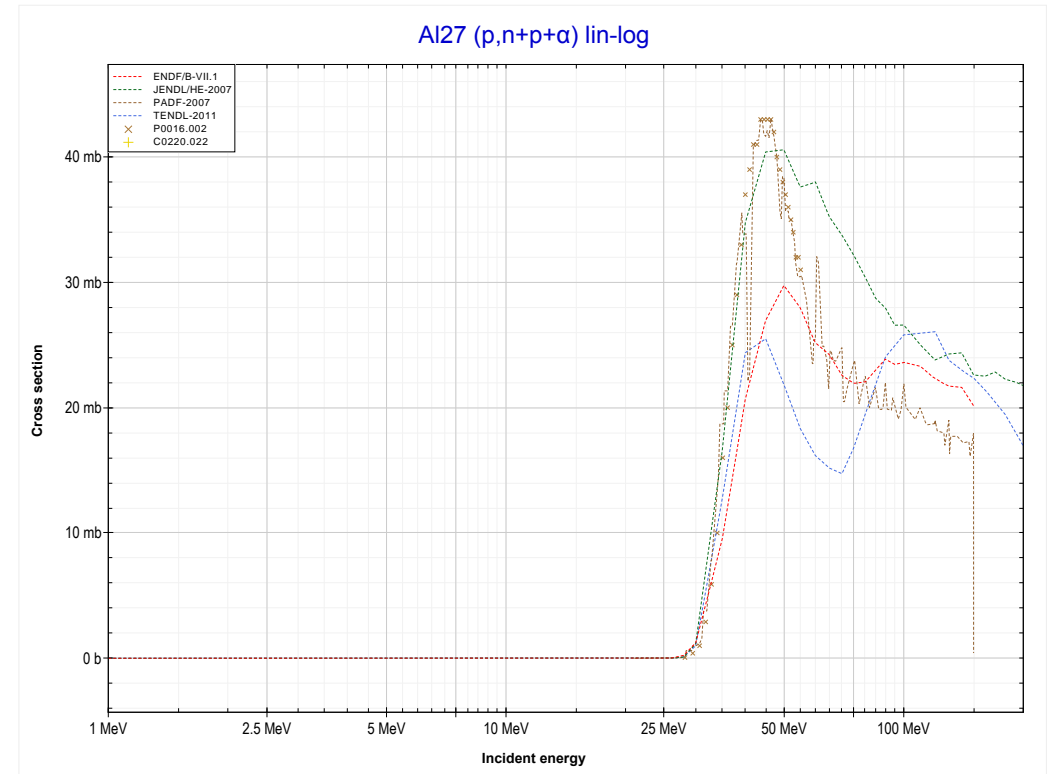
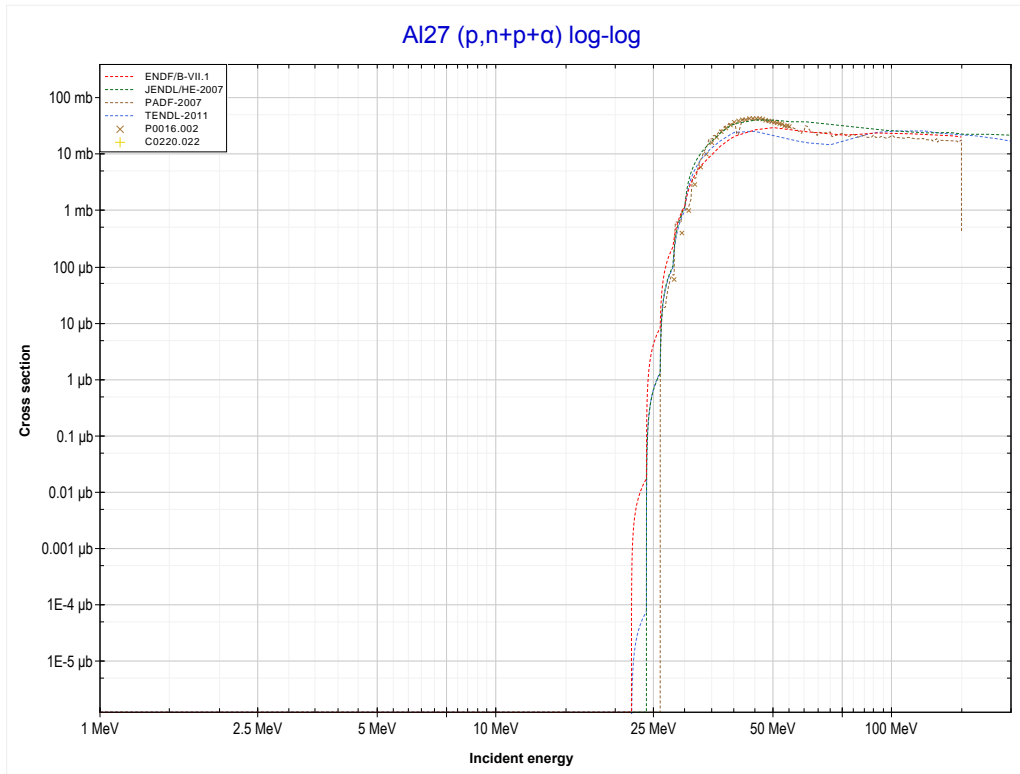
Reaction	Q-Value
Al27(p,n)Si27	-5594.71 keV

<< 11-Na-23	<b>13-Al-27</b>	20-Ca-48 >>
<< MT4 (p,n)	<b>MT28 (p,n+p) or MT5 (Al26 production)</b>	MT45 (p,n+p+α) >>



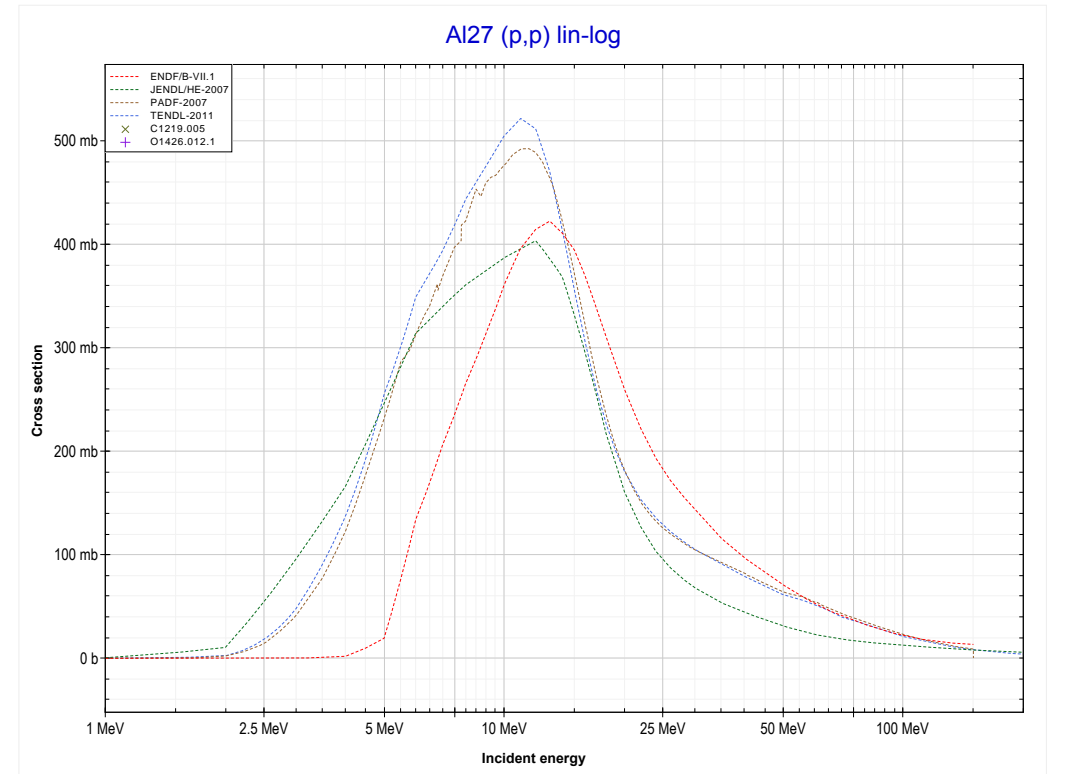
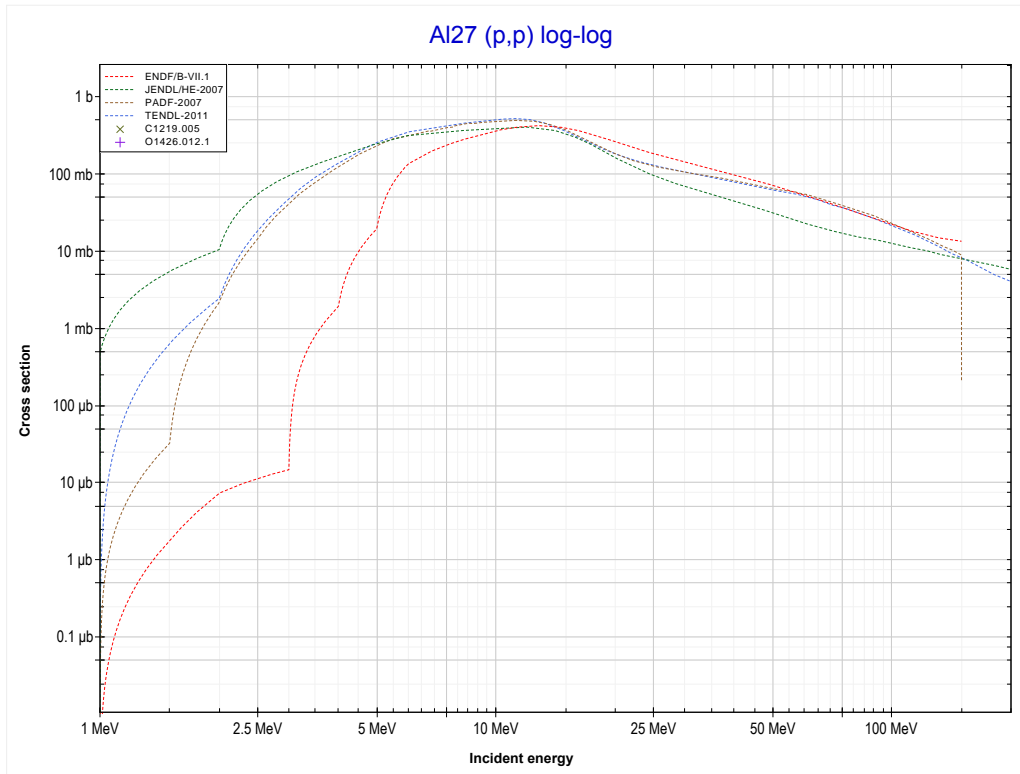
Reaction	Q-Value
Al27(p,d)Al26	-10833.10 keV
Al27(p,n+p)Al26	-13057.67 keV

<< 11-Na-23	<b>13-Al-27</b>	29-Cu-63 >>
<< MT28 (p,n+p)	<b>MT45 (p,n+p+α) or MT5 (Na22 production)</b>	MT103 (p,p) >>



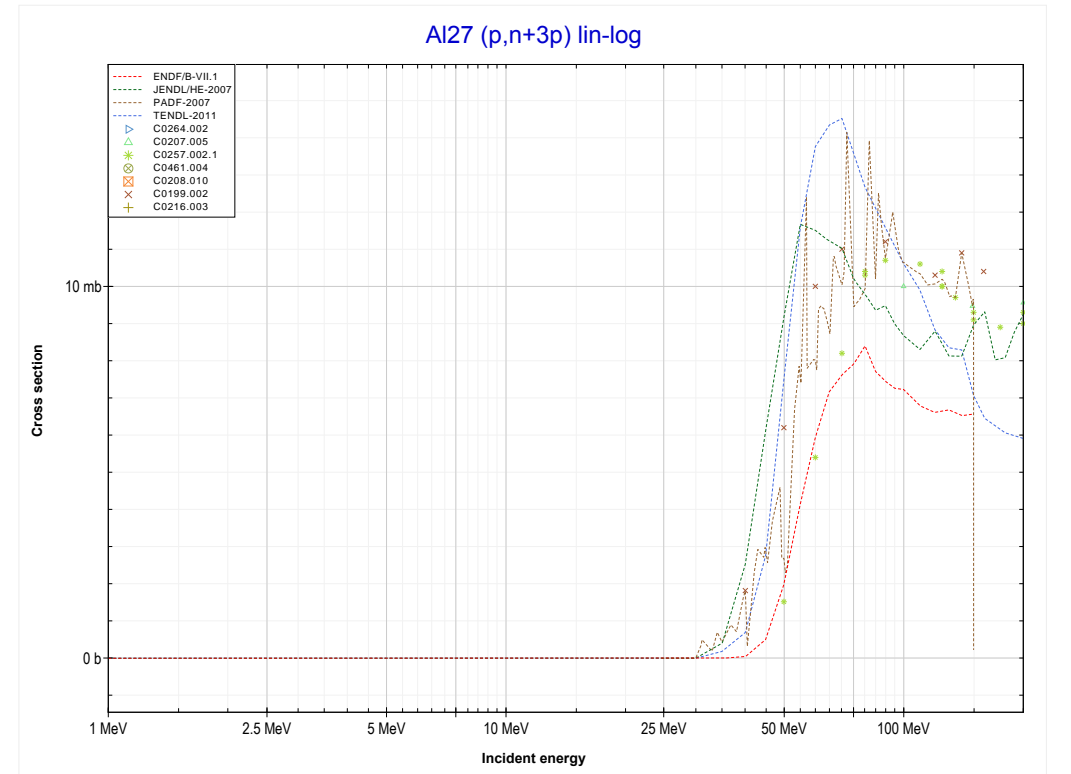
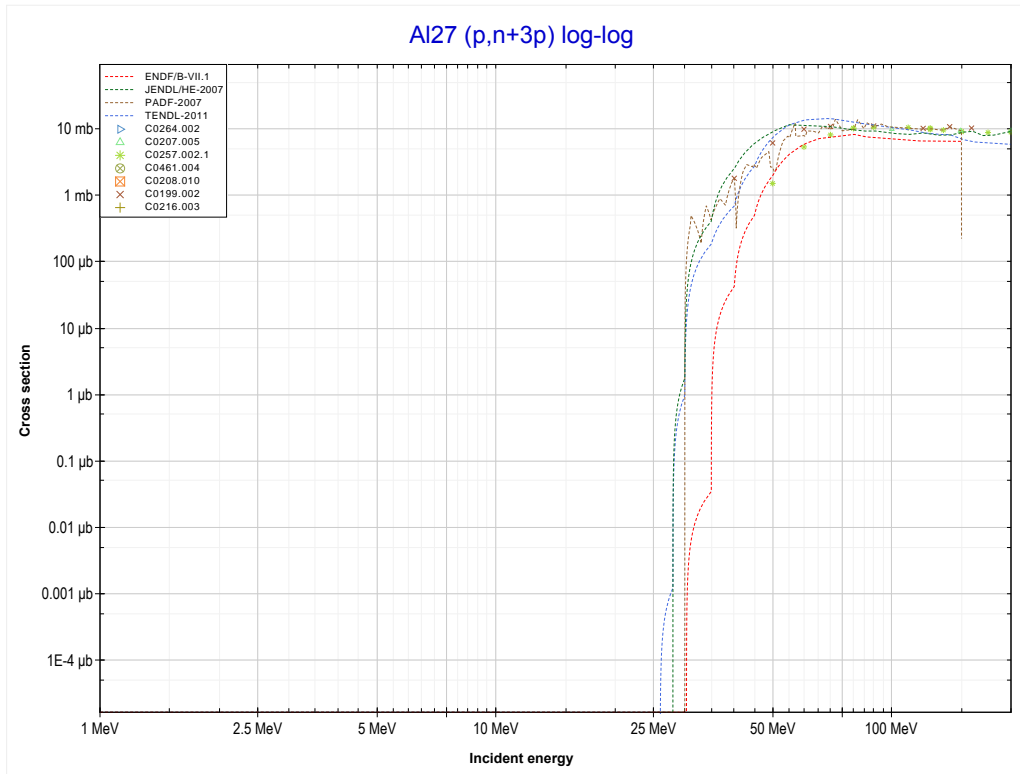
Reaction	Q-Value	Reaction	Q-Value
Al27(p,d+α)Na22	-20285.93 keV	Al27(p,n+p+2d)Na22	-46357.02 keV
Al27(p,n+p+α)Na22	-22510.49 keV	Al27(p,2n+2p+d)Na22	-48581.59 keV
Al27(p,t+He3)Na22	-34606.31 keV	Al27(p,3n+3p)Na22	-50806.15 keV
Al27(p,p+d+t)Na22	-40099.79 keV		
Al27(p,n+d+He3)Na22	-40863.54 keV		
Al27(p,n+2p+t)Na22	-42324.35 keV		
Al27(p,2n+p+He3)Na22	-43088.11 keV		
Al27(p,3d)Na22	-44132.45 keV		

<< 8-O-16	<b>13-Al-27</b>	14-Si-28 >>
<< MT45 (p,n+p+α)	<b>MT103 (p,p) or MT5 (Al27 production)</b>	MT198 (p,n+3p) >>



Reaction	Q-Value
Al27(p,p)Al27	0.00 keV

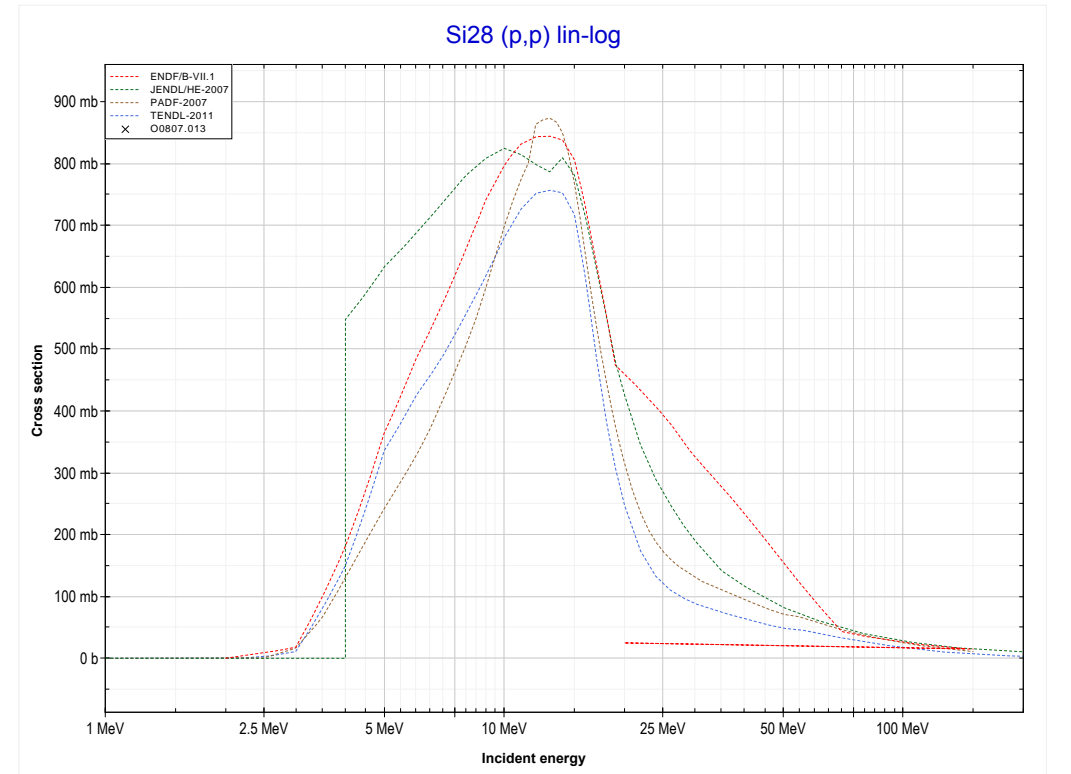
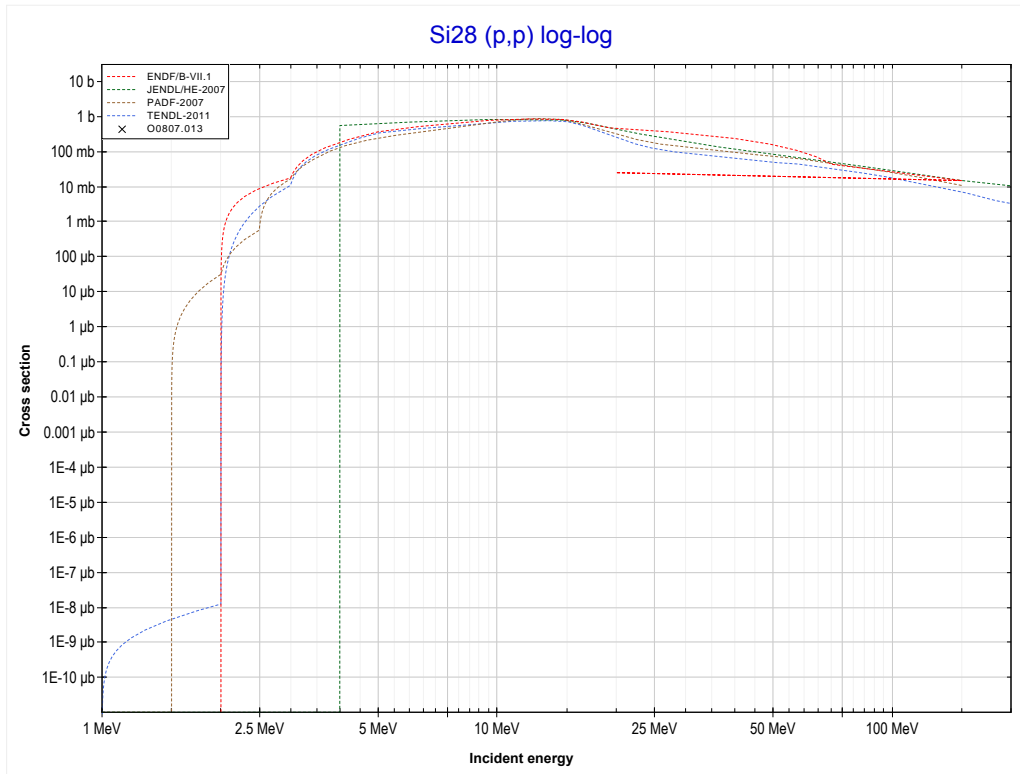
	<b>13-Al-27</b>	21-Sc-45 >>
<< MT103 (p,p)	<b>MT198 (p,n+3p) or MT5 (Na24 production)</b>	MT103 (p,p) >>



Reaction	Q-Value
Al27(p,p+He3)Na24	-23709.76 keV
Al27(p,2p+d)Na24	-29203.24 keV
Al27(p,n+3p)Na24	-31427.81 keV

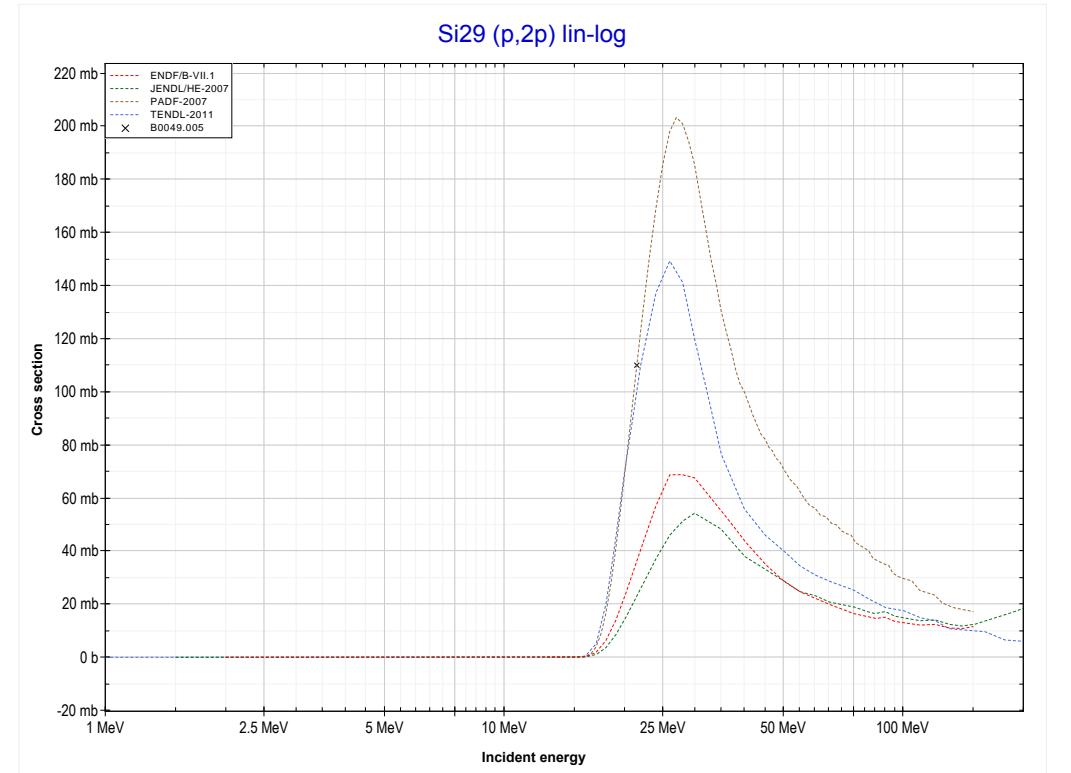
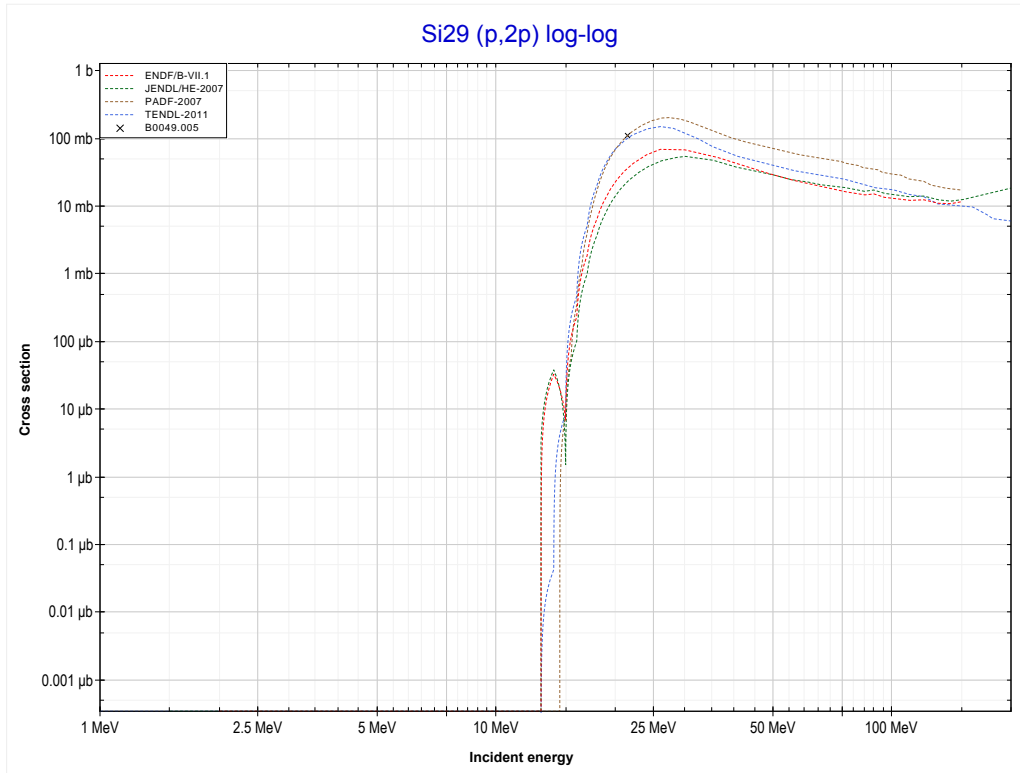


<< 13-Al-27	<b>14-Si-28</b>	20-Ca-40 >>
<< MT198 (p,n+3p)	<b>MT103 (p,p) or MT5 (Si28 production)</b>	MT111 (p,2p) >>



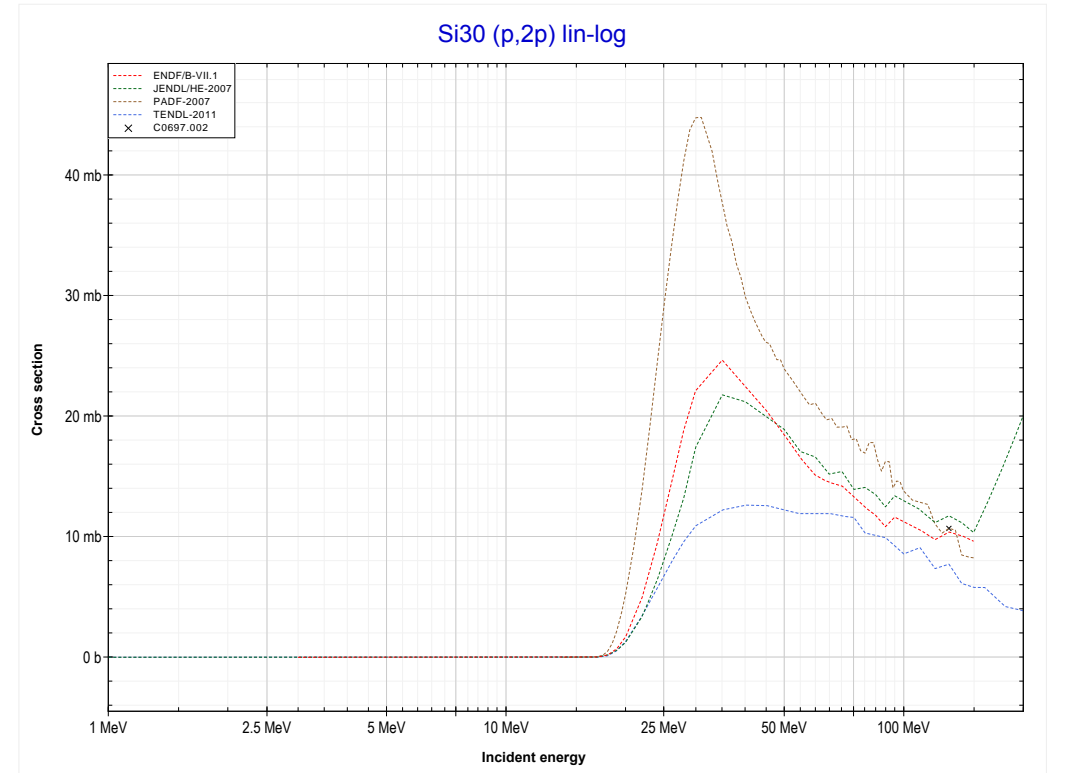
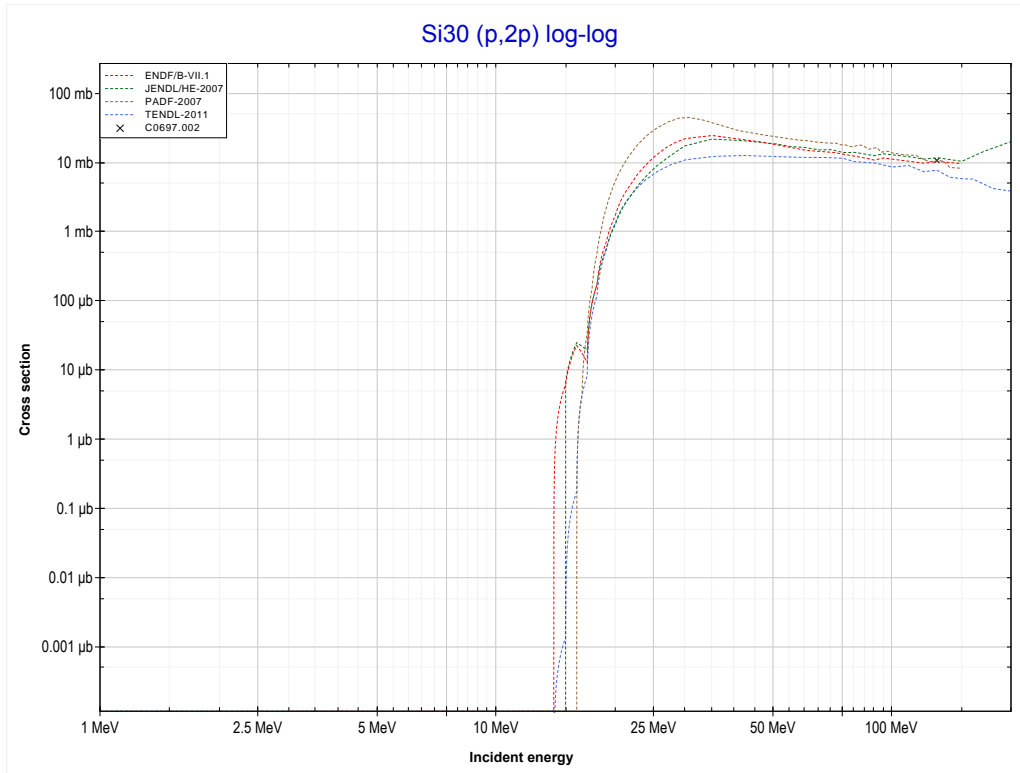
Reaction	Q-Value
Si28(p,p)Si28	0.00 keV

<< 12-Mg-25	<b>14-Si-29</b>	14-Si-30 >>
<< MT103 (p,p)	<b>MT111 (p,2p) or MT5 (Al28 production)</b>	MT111 (p,2p) >>



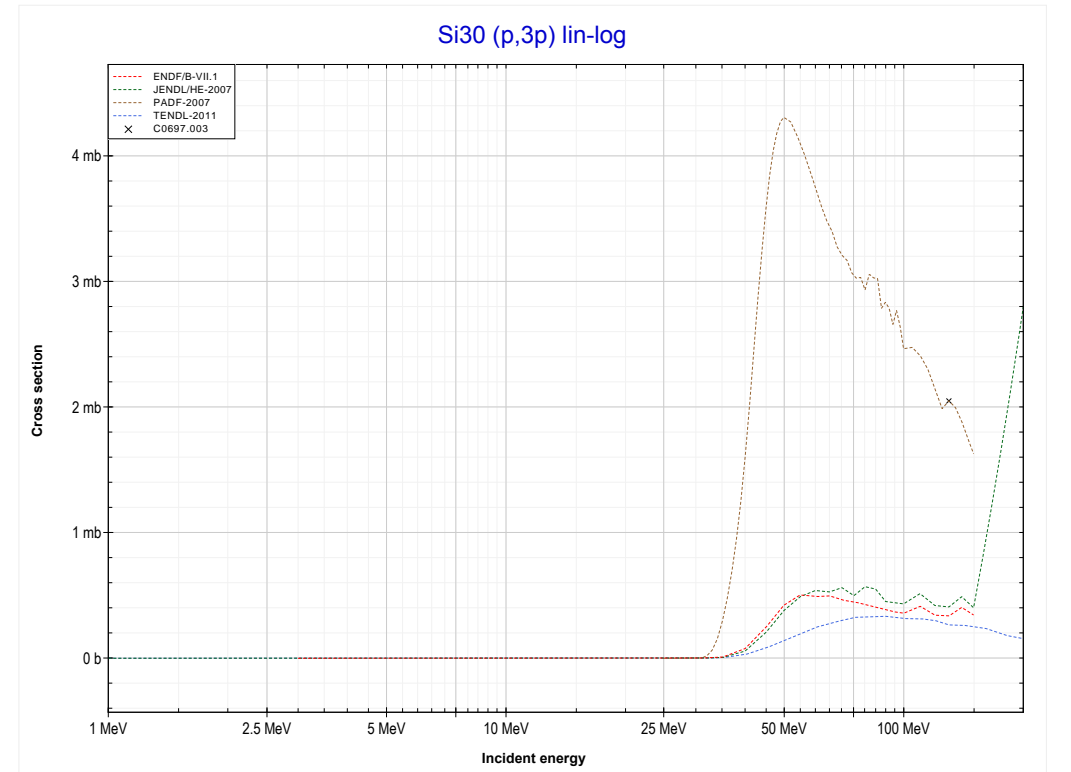
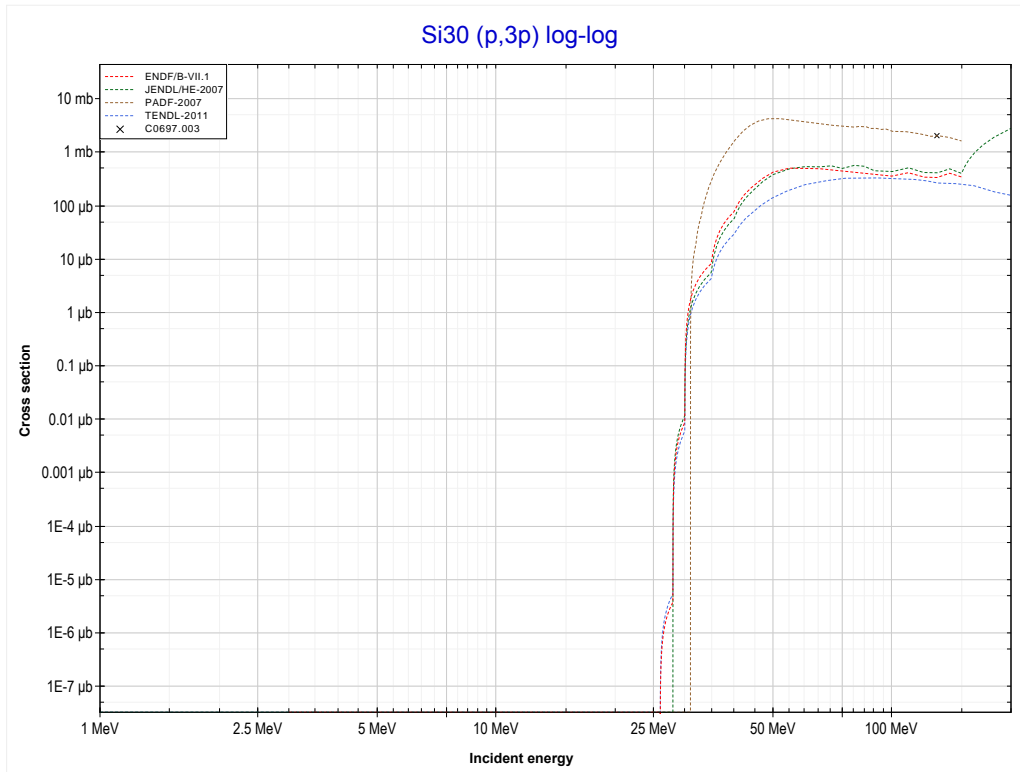
Reaction	Q-Value
Si29(p,2p)Al28	-12333.58 keV

<< 14-Si-29	<b>14-Si-30</b>	18-Ar-40 >>
<< MT111 (p,2p)	<b>MT111 (p,2p) or MT5 (Al29 production)</b>	MT197 (p,3p) >>



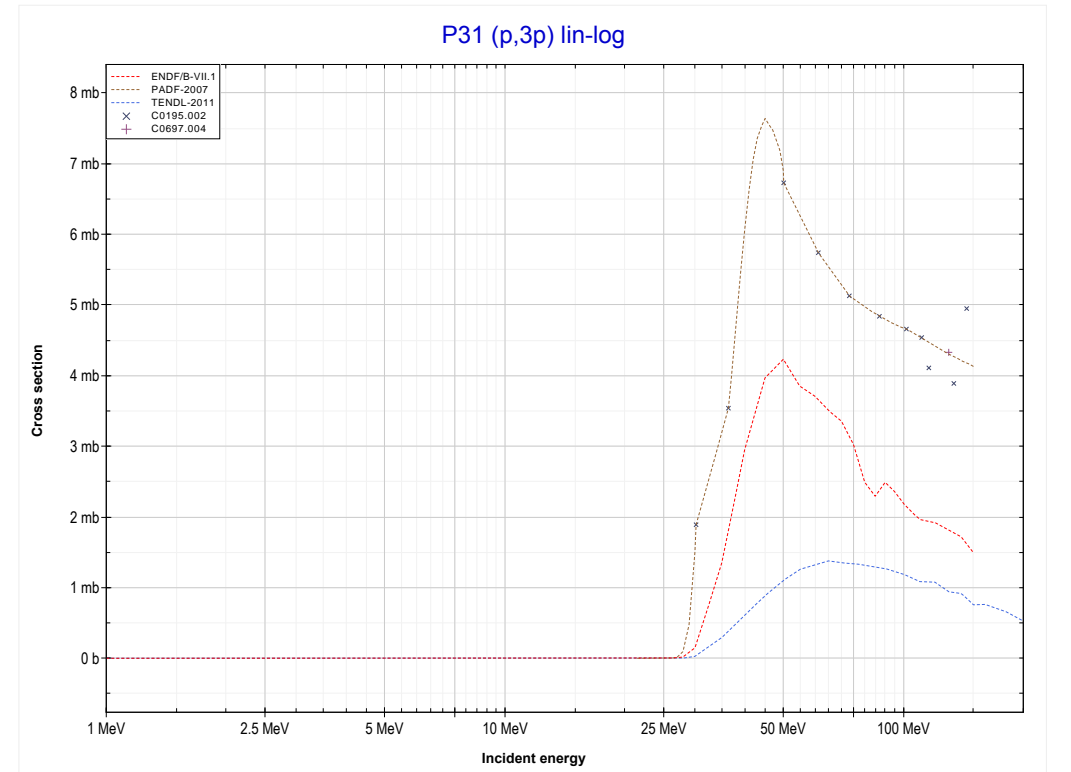
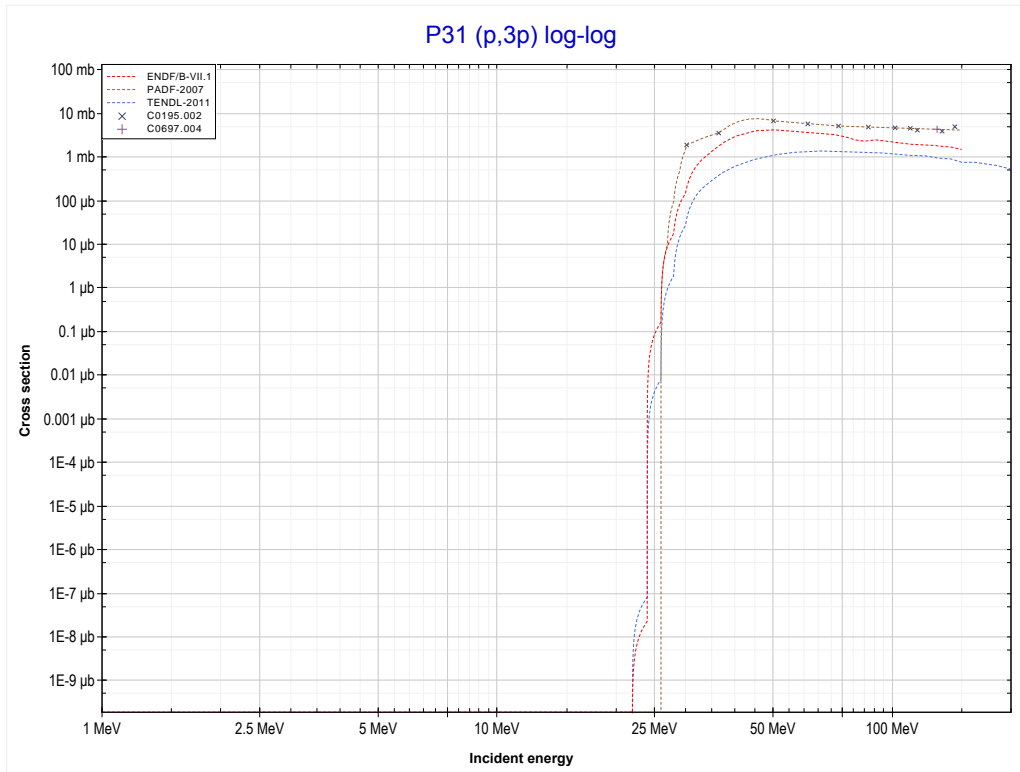
Reaction	Q-Value
Si30(p,2p)Al29	-13506.60 keV

<< 9-F-19	<b>14-Si-30</b>	15-P-31 >>
<< MT111 (p,2p)	<b>MT197 (p,3p) or MT5 (Mg28 production)</b>	MT197 (p,3p) >>



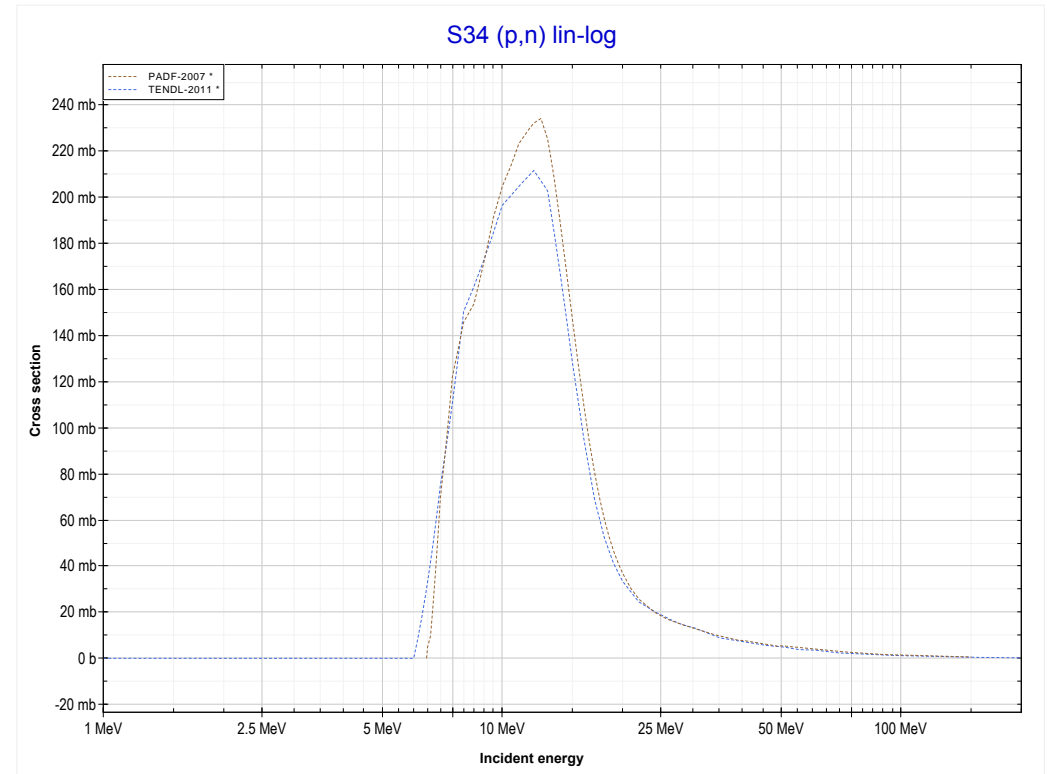
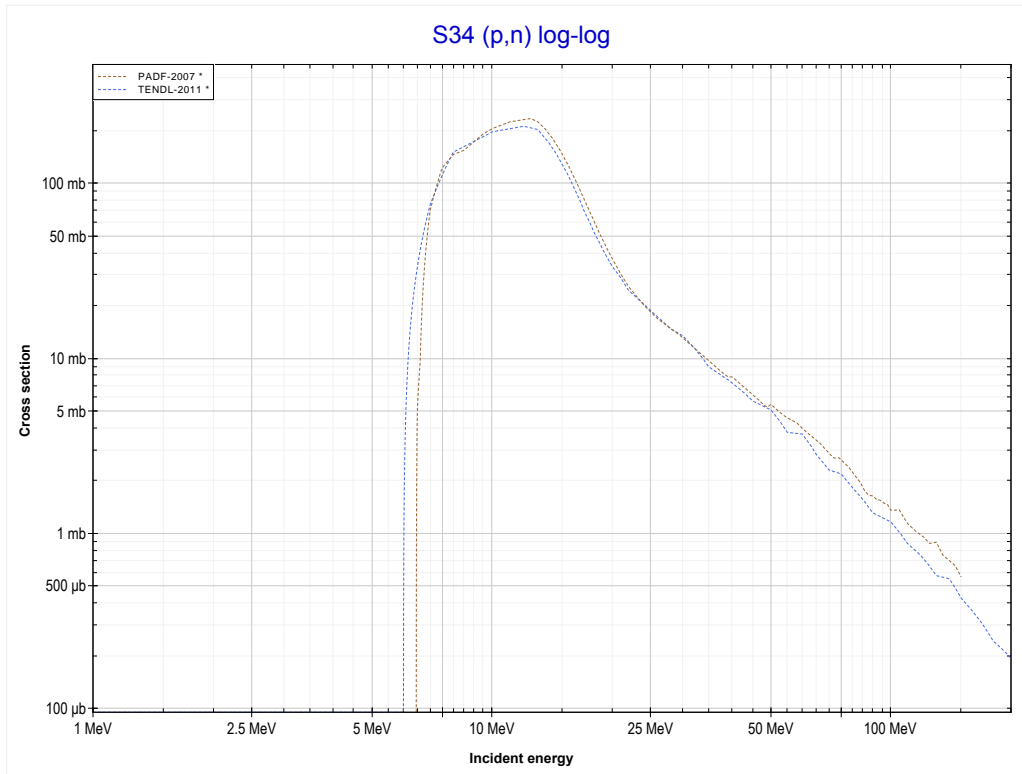
Reaction	Q-Value
Si30(p,3p)Mg28	-23992.27 keV

<< 14-Si-30	<b>15-P-31</b>	21-Sc-45 >>
<< MT197 (p,3p)	<b>MT197 (p,3p) or MT5 (Al29 production)</b>	MT4 (p,n) >>



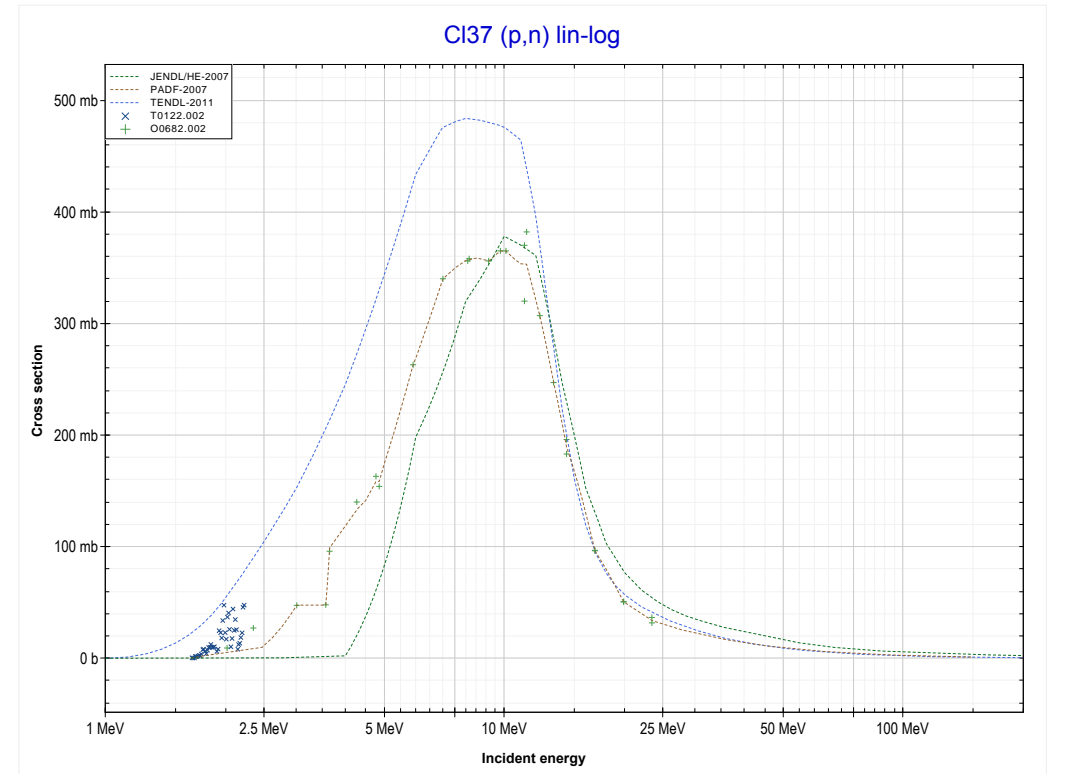
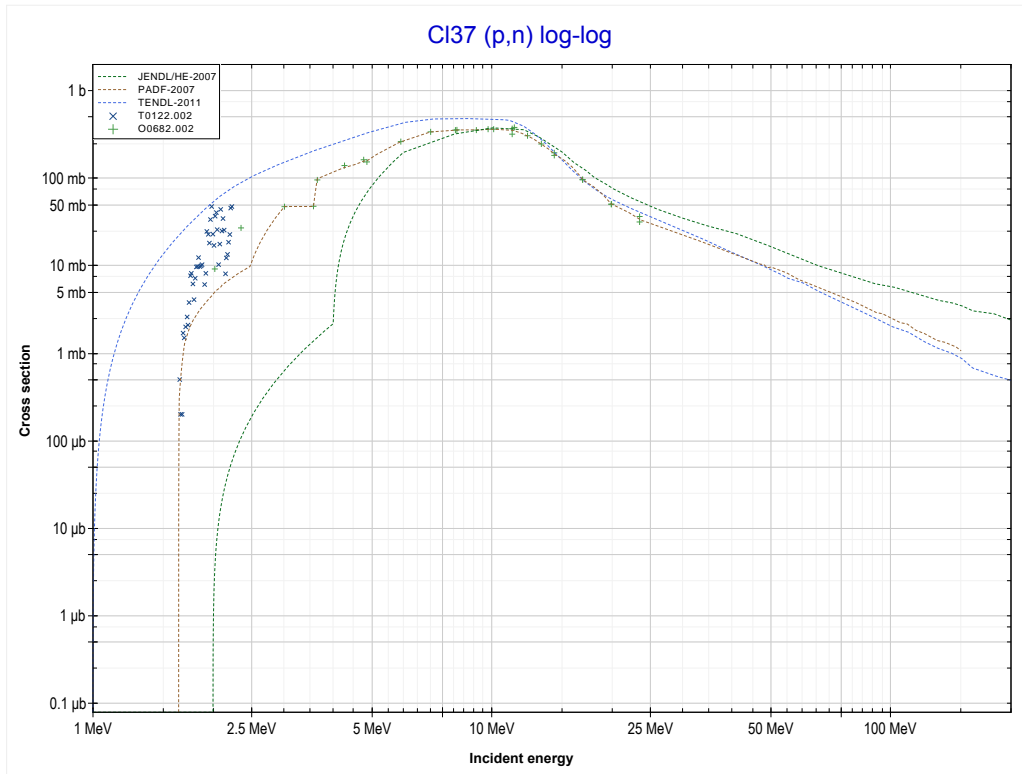
Reaction	Q-Value
P31(p,3p)Al29	-20803.52 keV

<< 13-AI-27	<b>16-S-34</b>	17-Cl-37 >>
<< MT197 (p,3p)	<b>MT4 (p,n) or MT5 (Cl34 production)</b>	MT4 (p,n) >>



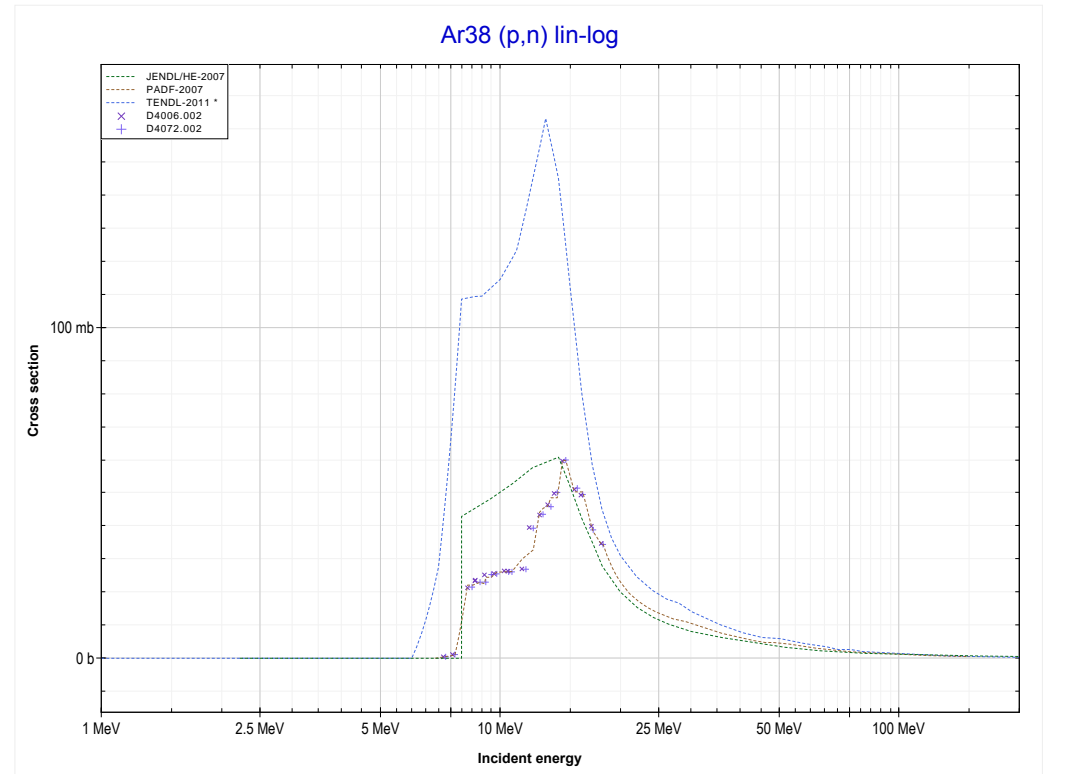
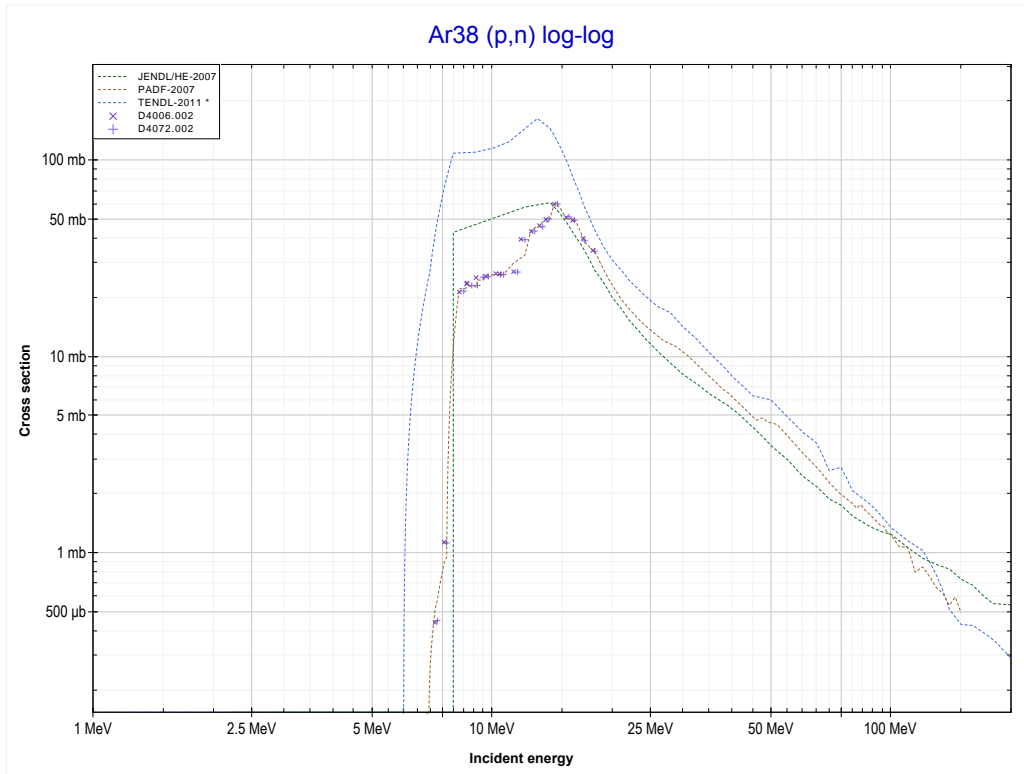
Reaction	Q-Value
S34(p,n)Cl34	-6274.36 keV

<< 16-S-34	<b>17-Cl-37</b>	18-Ar-38 >>
<< MT4 (p,n)	<b>MT4 (p,n) or MT5 (Ar37 production)</b>	MT4 (p,n) >>



Reaction	Q-Value
Cl37(p,n)Ar37	-1596.22 keV

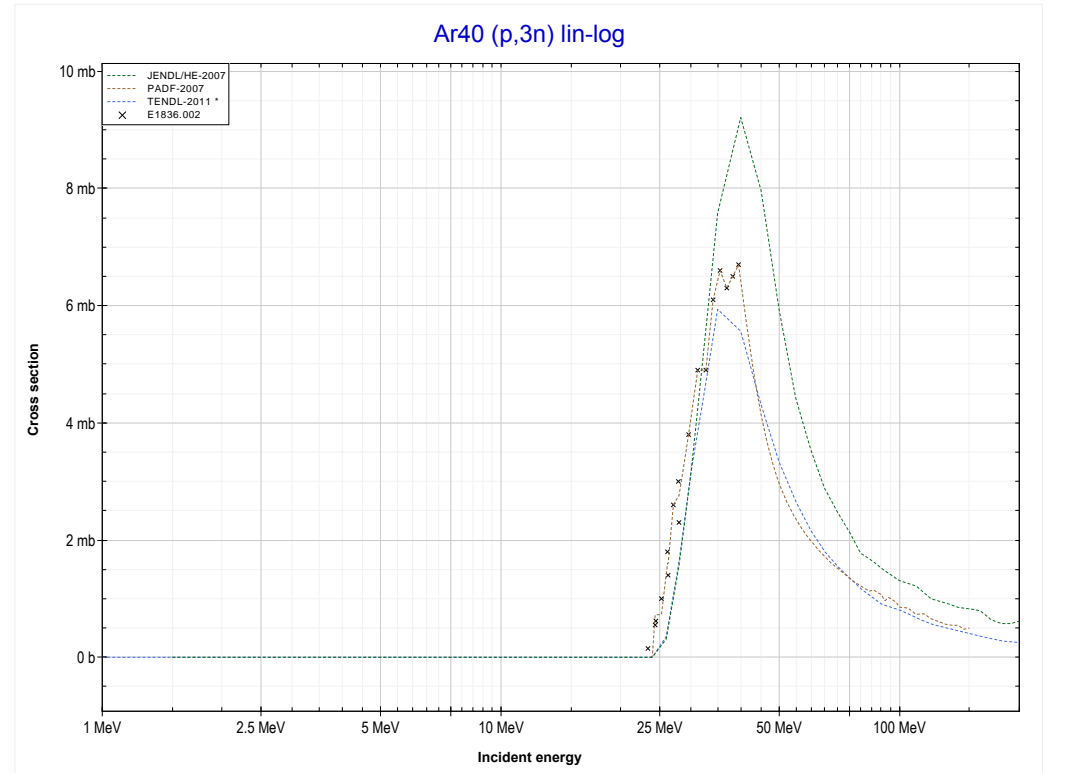
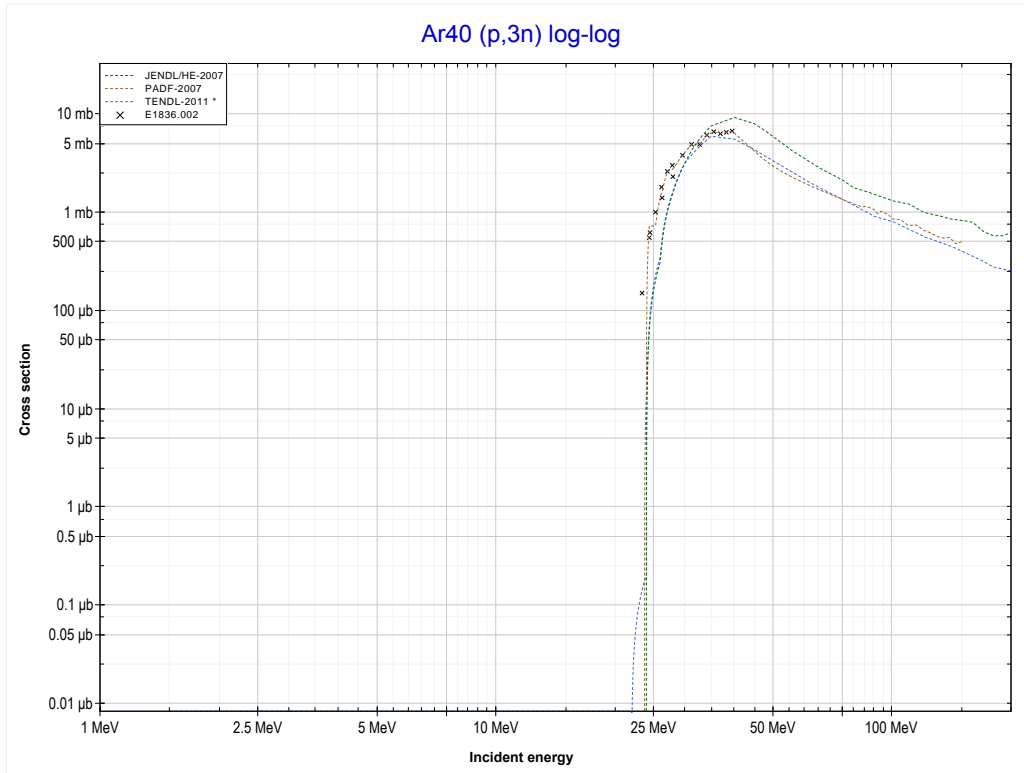
<< 17-CI-37	<b>18-Ar-38</b>	19-K-41 >>
<< MT4 (p,n)	<b>MT4 (p,n) or MT5 (K38 production)</b>	MT17 (p,3n) >>



Reaction	Q-Value
Ar38(p,n)K38	-6696.25 keV

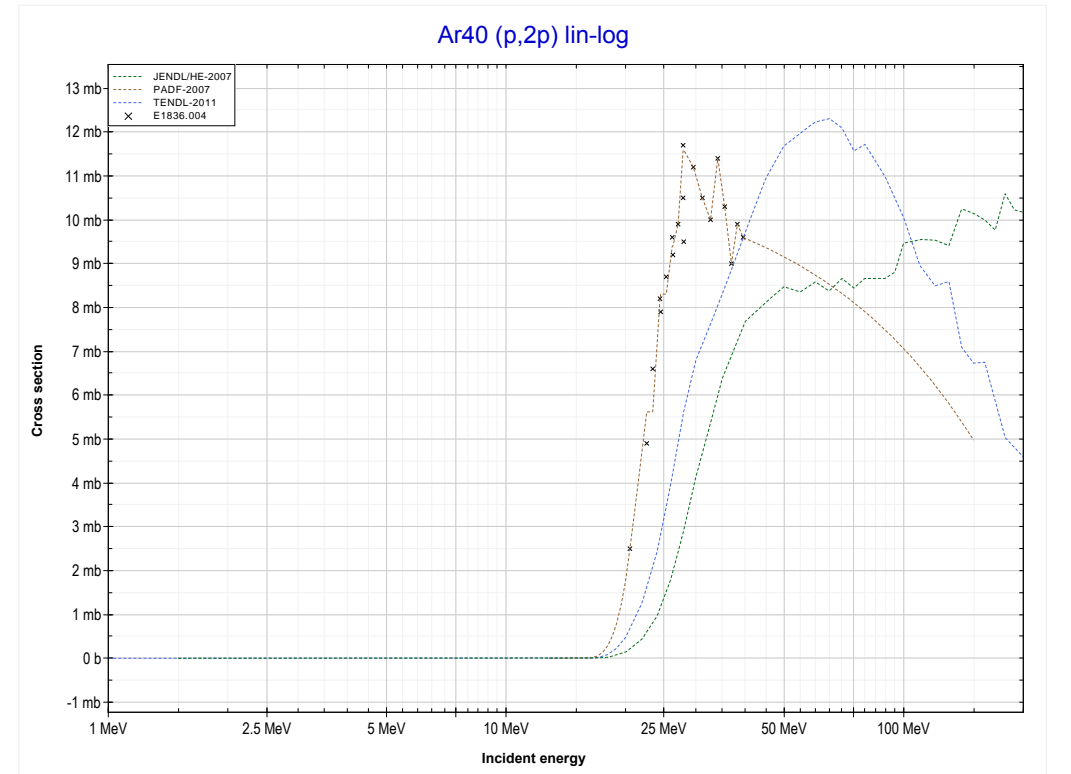
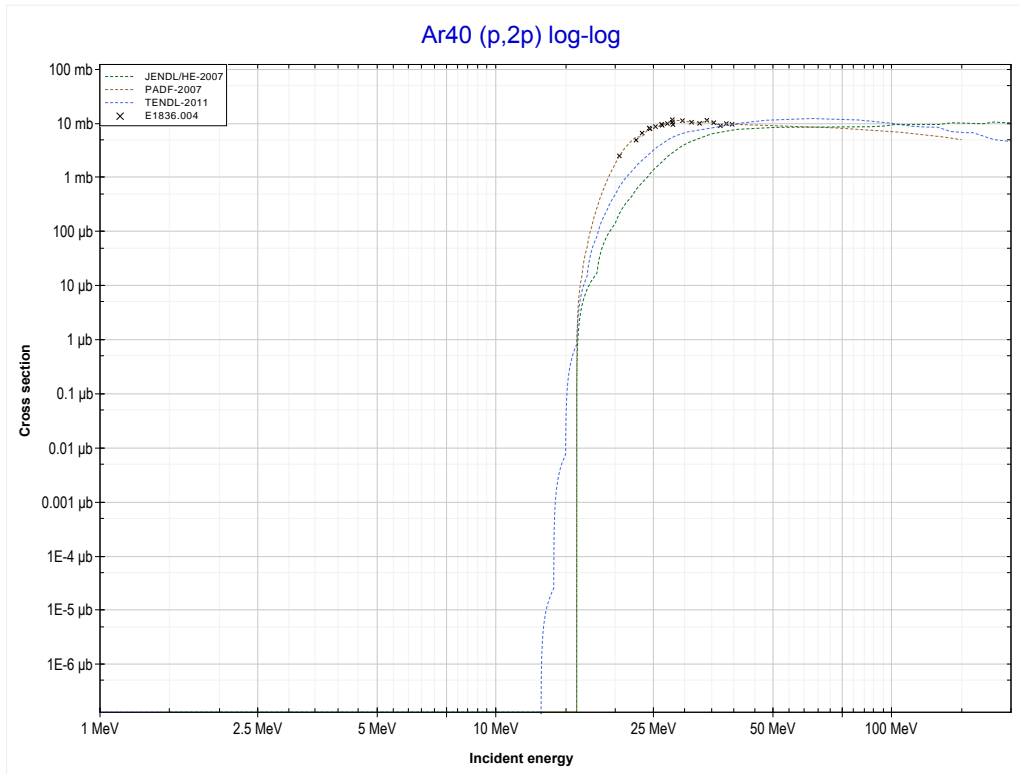


	<b>18-Ar-40</b>	23-V-51 >>
<< MT4 (p,n)	<b>MT17 (p,3n) or MT5 (K38 production)</b>	MT111 (p,2p) >>



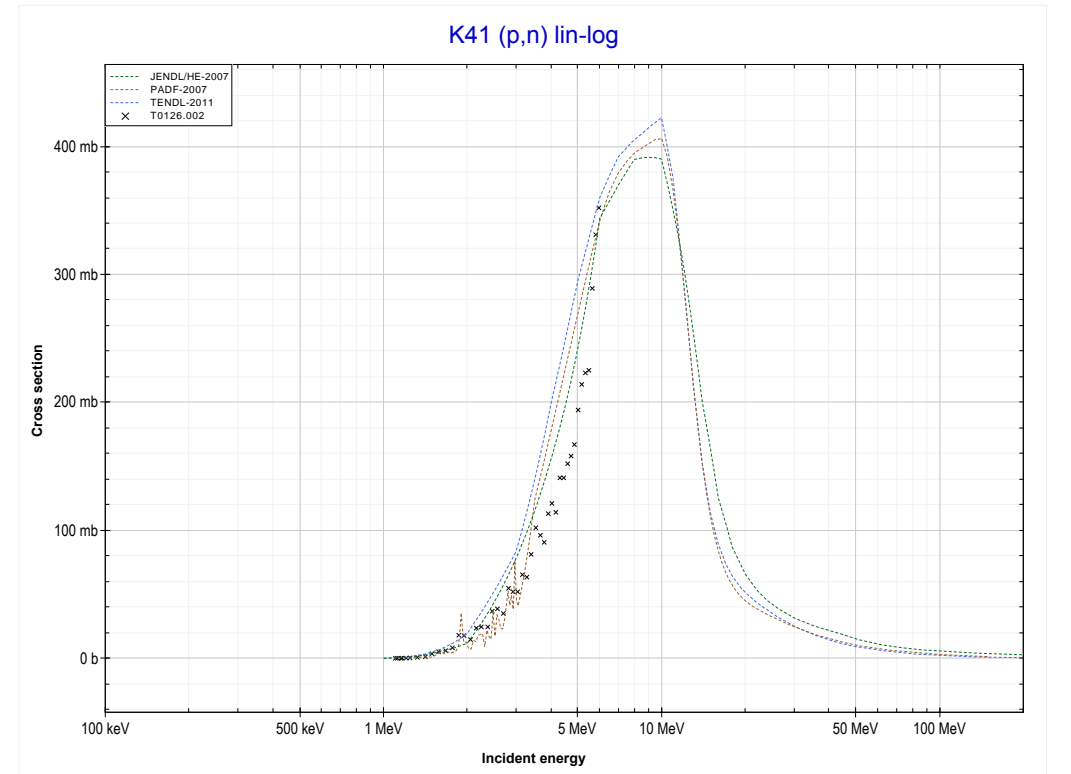
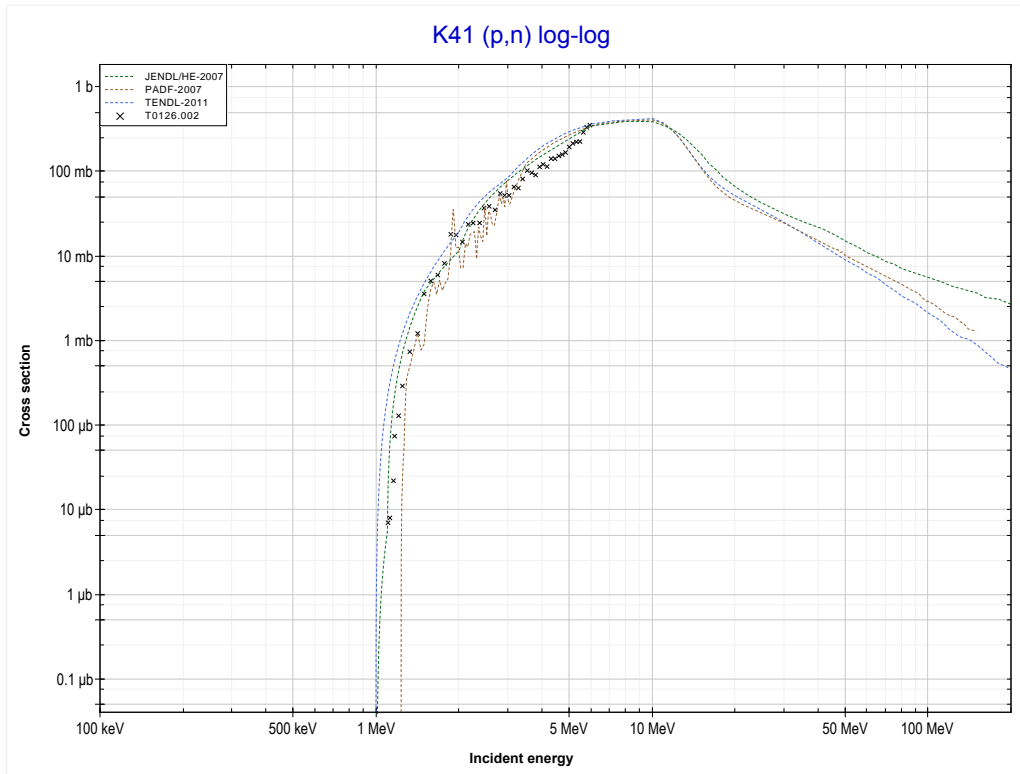
Reaction	Q-Value
Ar40(p,3n)K38	-23164.18 keV

<< 14-Si-30	<b>18-Ar-40</b>	20-Ca-43 >>
<< MT17 (p,3n)	<b>MT111 (p,2p) or MT5 (Cl39 production)</b>	MT4 (p,n) >>



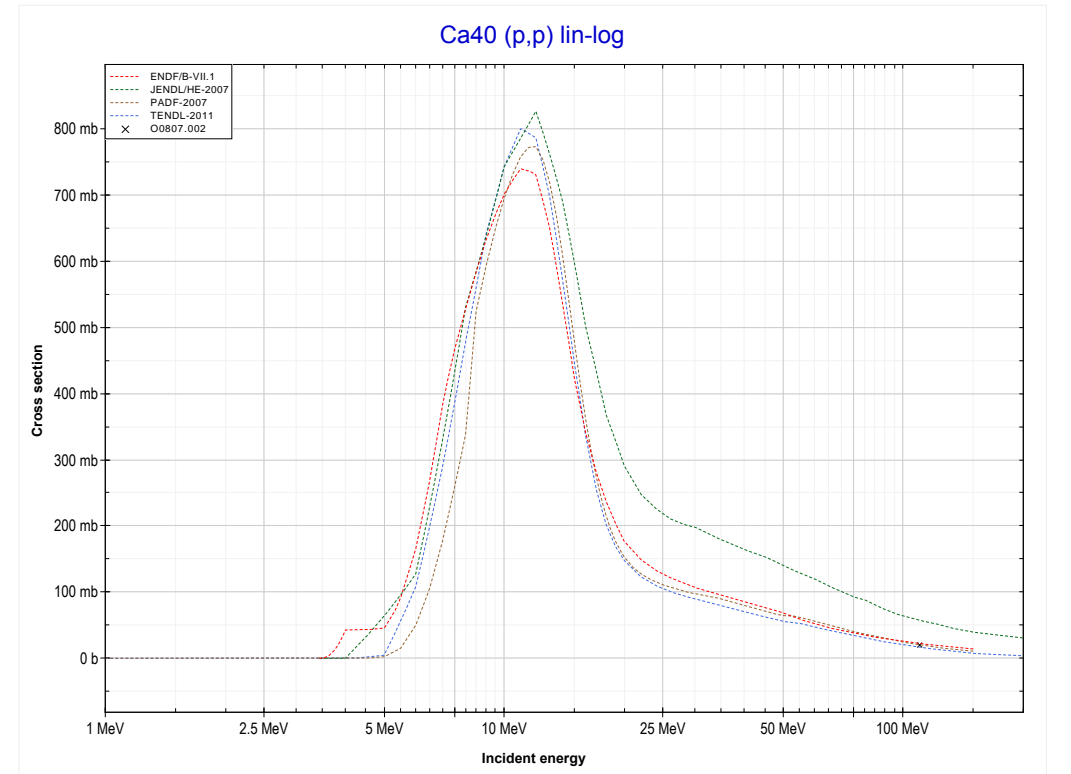
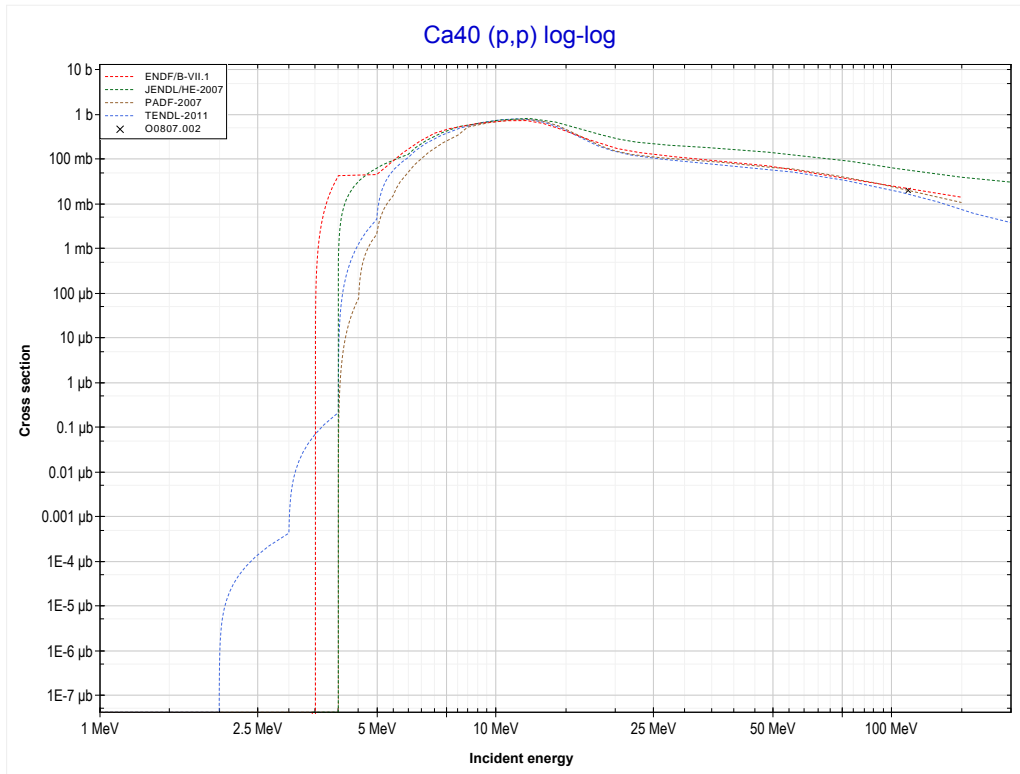
Reaction	Q-Value
Ar40(p,2p)Cl39	-12528.67 keV

<< 18-Ar-38	<b>19-K-41</b>	20-Ca-43 >>
<< MT111 (p,2p)	<b>MT4 (p,n) or MT5 (Ca41 production)</b>	MT103 (p,p) >>



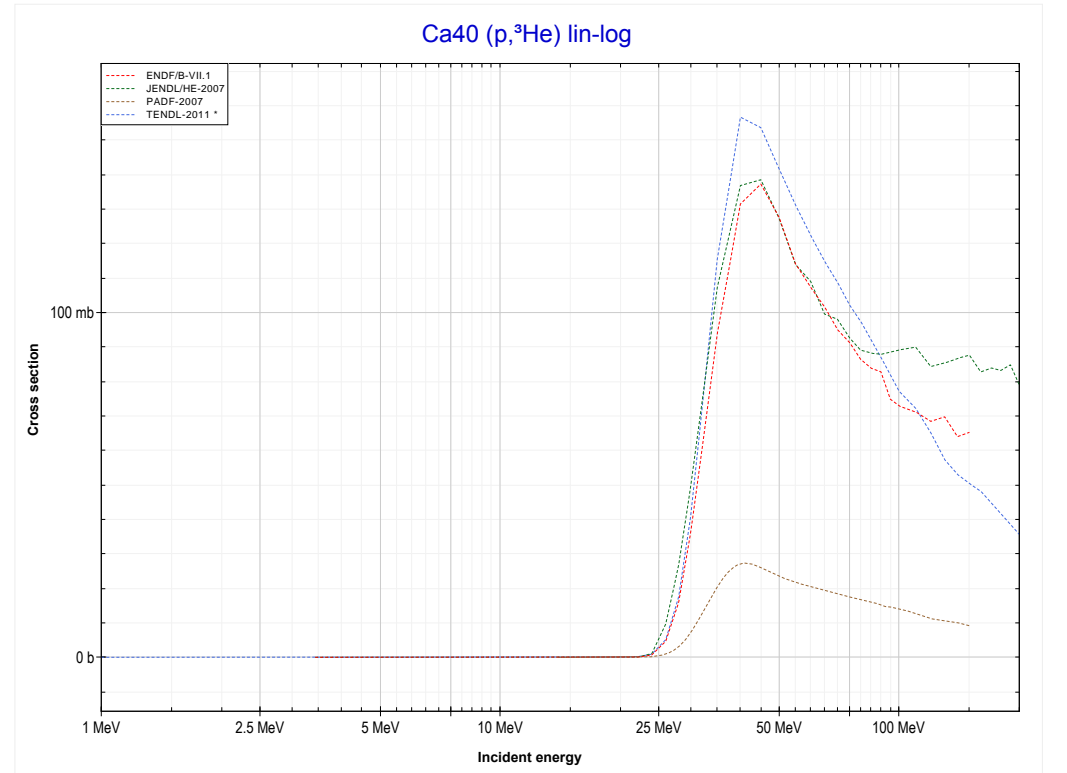
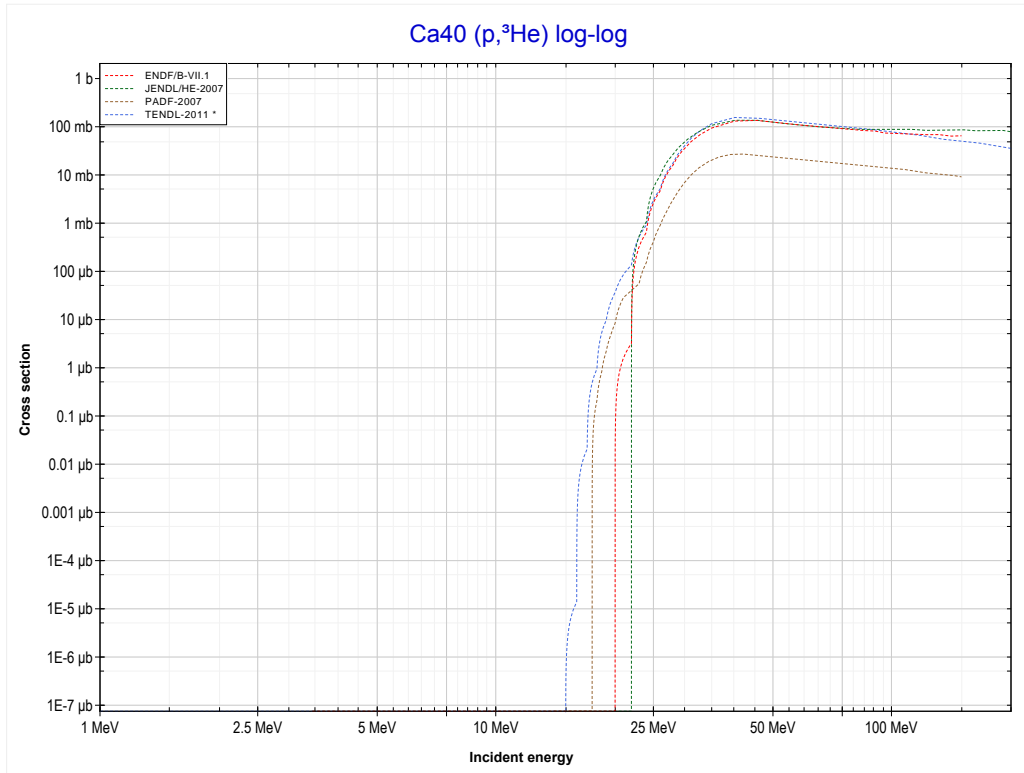
Reaction	Q-Value
K41(p,n)Ca41	-1203.66 keV

<< 14-Si-28	<b>20-Ca-40</b>	28-Ni-58 >>
<< MT4 (p,n)	<b>MT103 (p,p) or MT5 (Ca40 production)</b>	MT106 (p, <sup>3</sup> He) >>



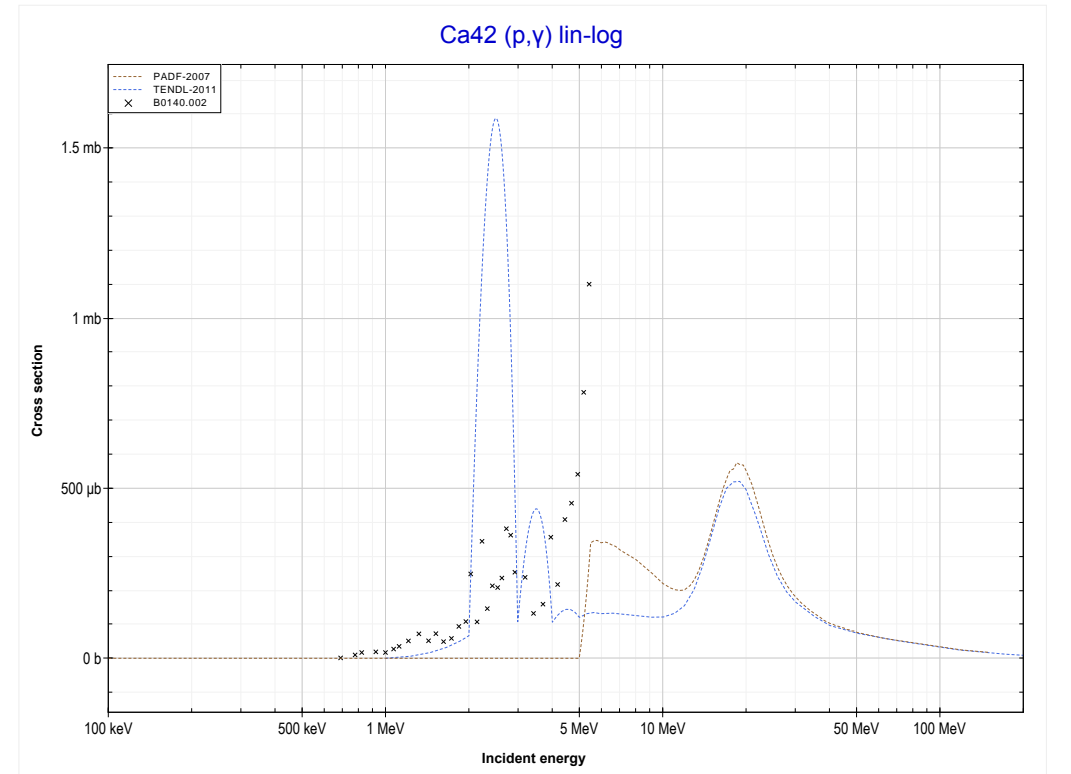
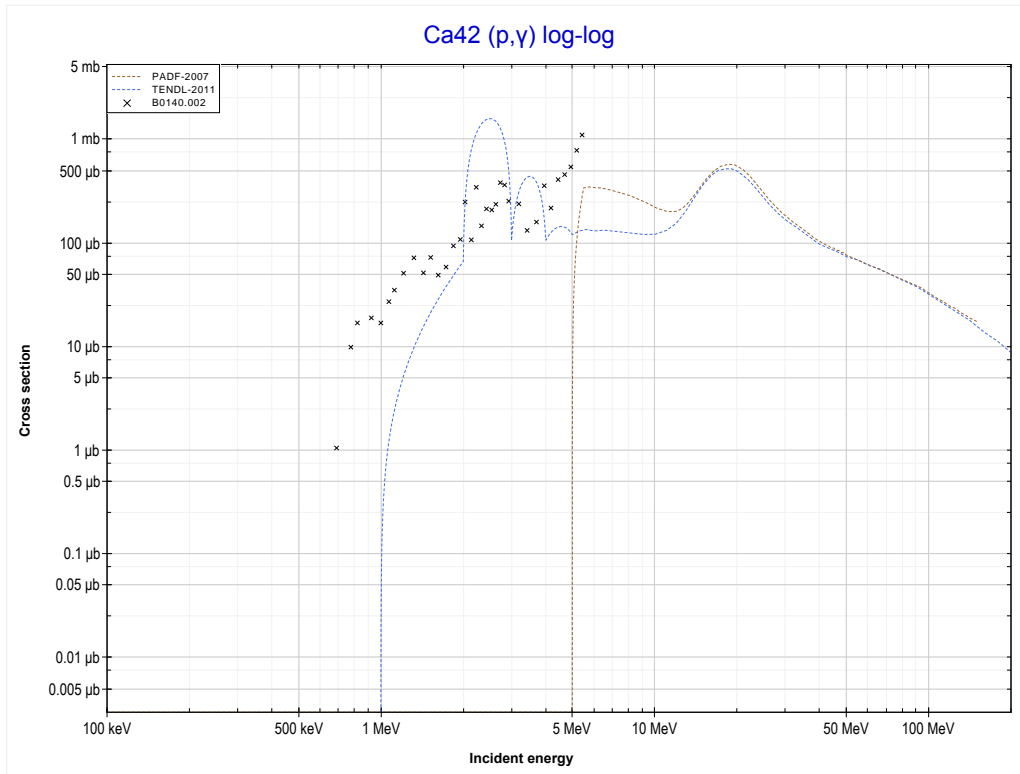
Reaction	Q-Value
Ca40(p,p)Ca40	0.00 keV

	<b>20-Ca-40</b>	20-Ca-44 >>
<< MT103 (p,p)	<b>MT106 (p,<sup>3</sup>He) or MT5 (K38 production)</b>	MT102 (p,γ) >>



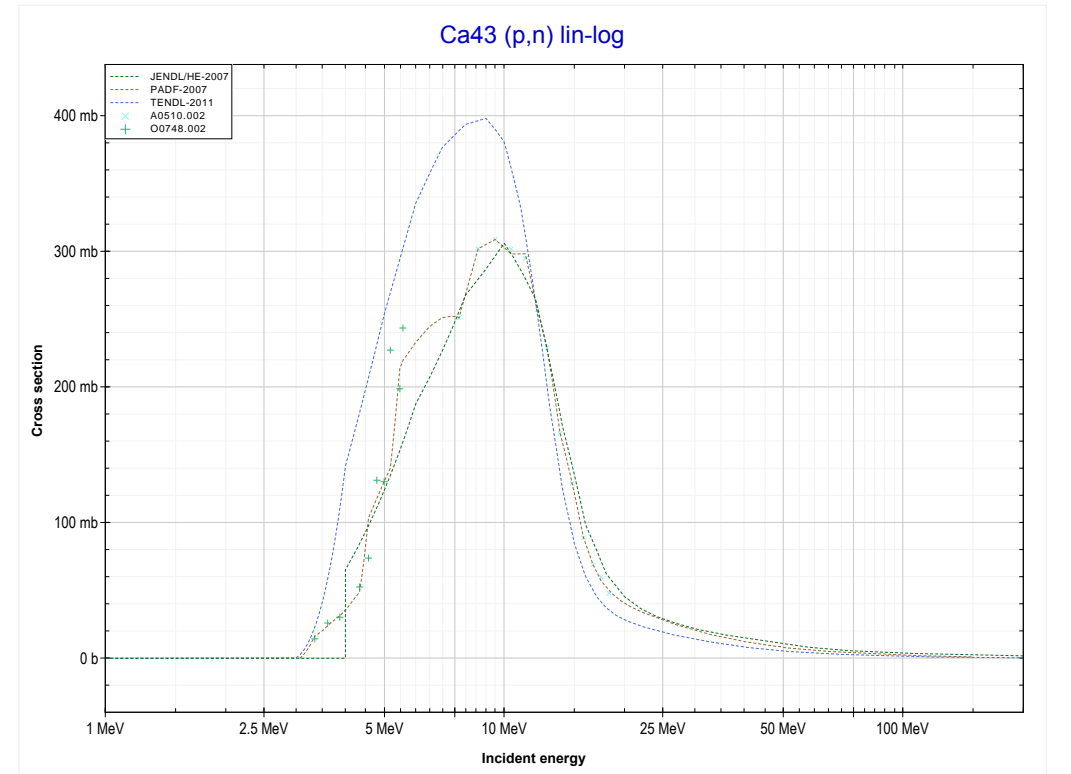
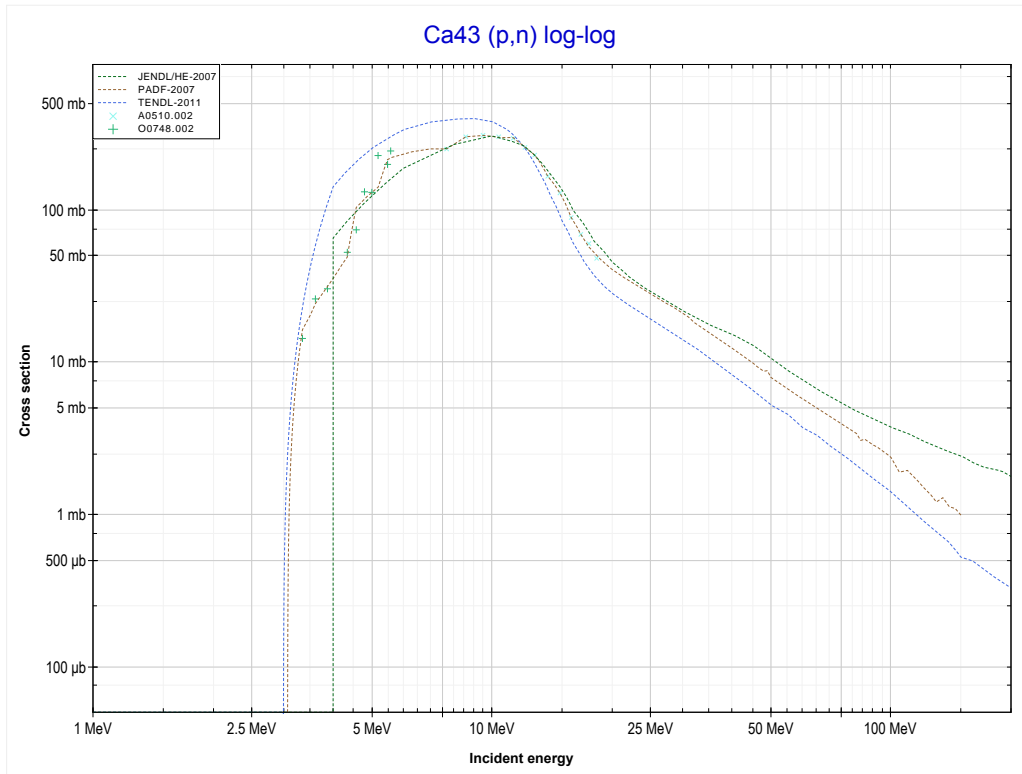
Reaction	Q-Value
Ca40(p,He3)K38	-13687.81 keV
Ca40(p,p+d)K38	-19181.29 keV
Ca40(p,n+2p)K38	-21405.86 keV

<< 9-F-19	<b>20-Ca-42</b>	20-Ca-44 >>
<< MT106 (p, <sup>3</sup> He)	<b>MT102 (p,γ) or MT5 (Sc43 production)</b>	MT4 (p,n) >>



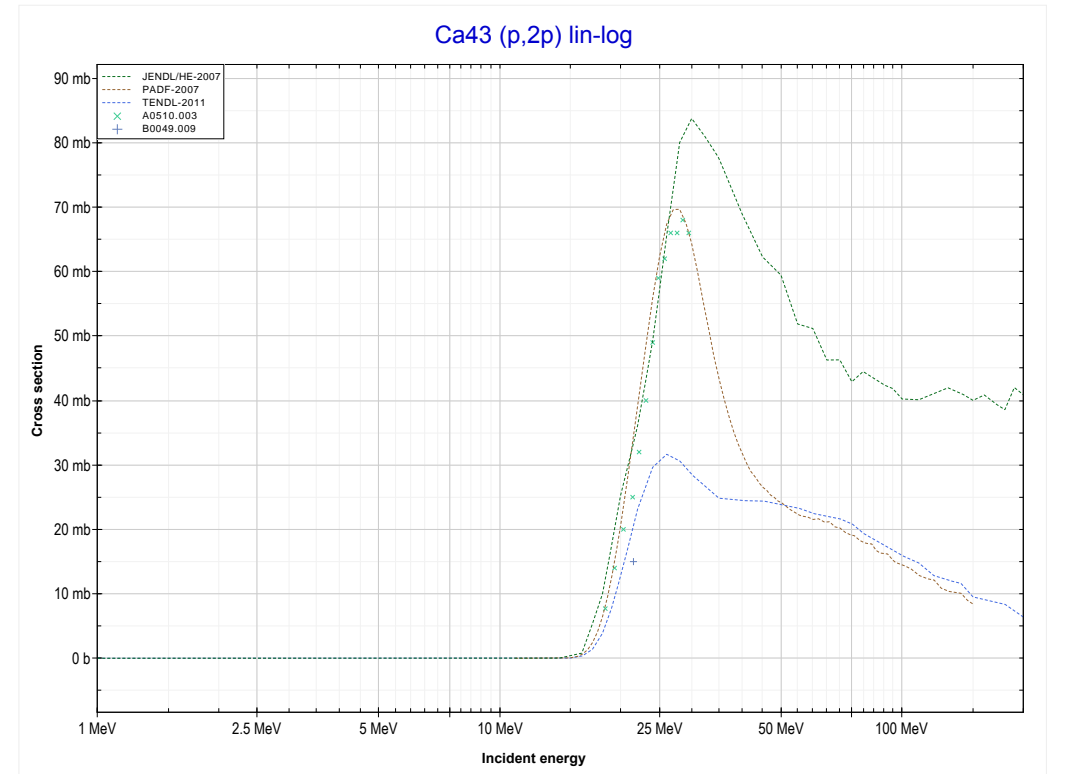
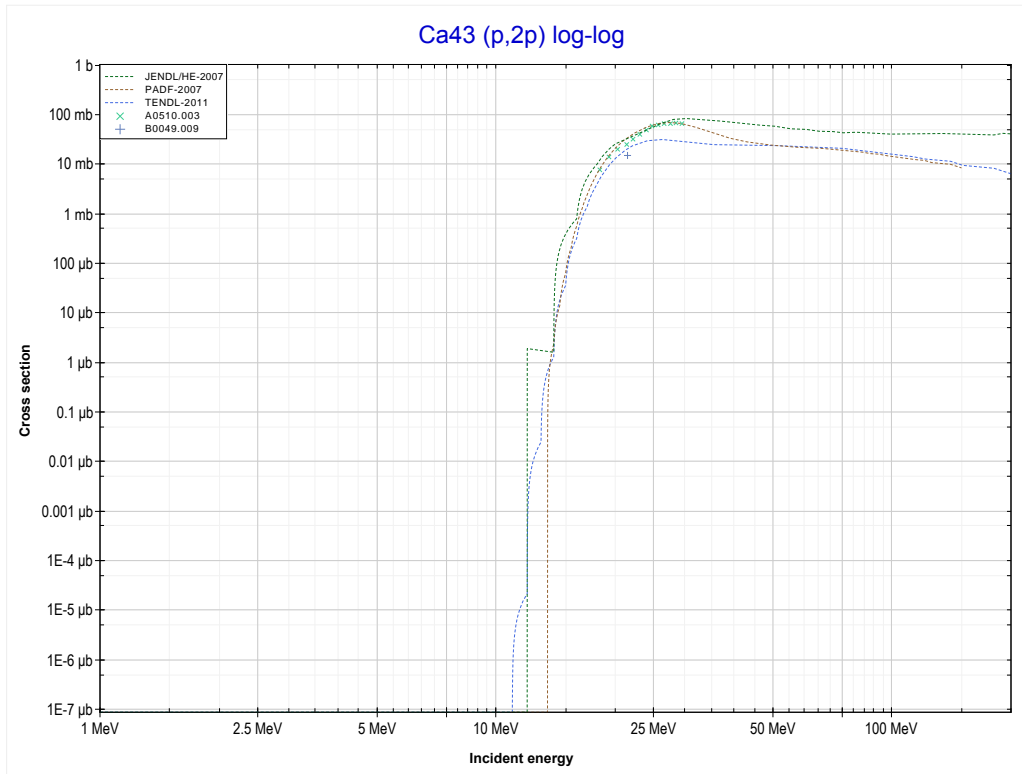
<b>Reaction</b>	<b>Q-Value</b>
Ca42(p,γ)Sc43	4929.80 keV

<< 19-K-41	<b>20-Ca-43</b>	20-Ca-44 >>
<< MT102 (p, $\gamma$ )	<b>MT4 (p,n) or MT5 (Sc43 production)</b>	MT111 (p,2p) >>



Reaction	Q-Value
Ca43(p,n)Sc43	-3003.05 keV

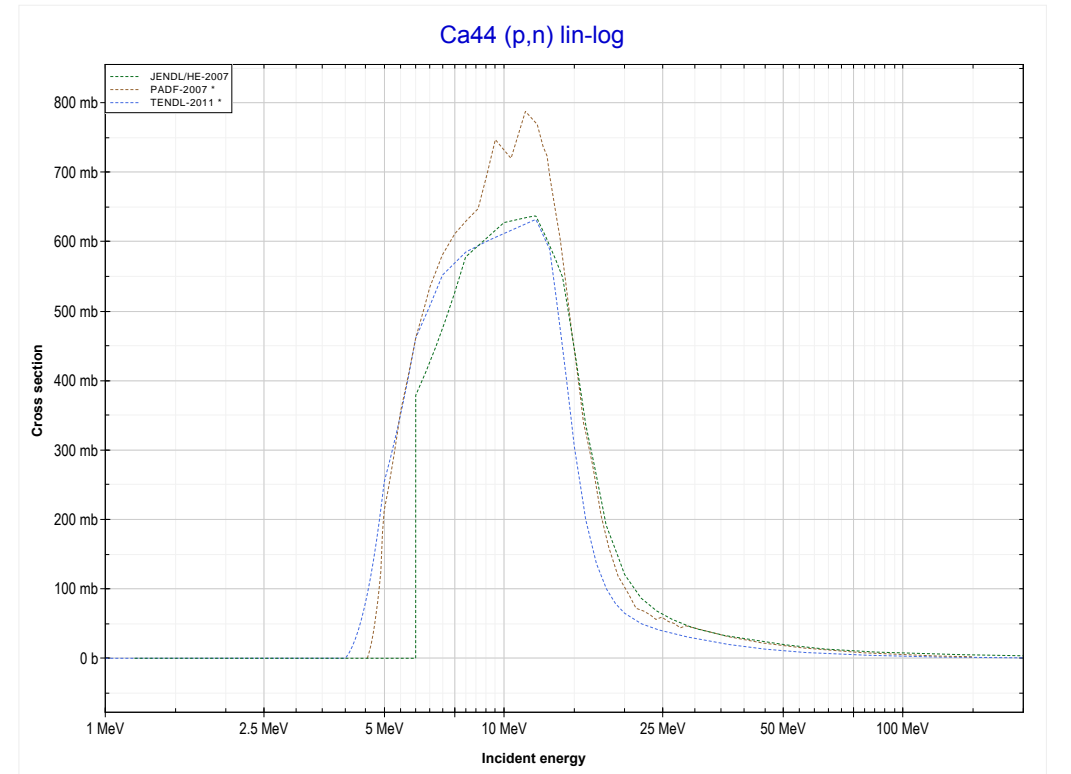
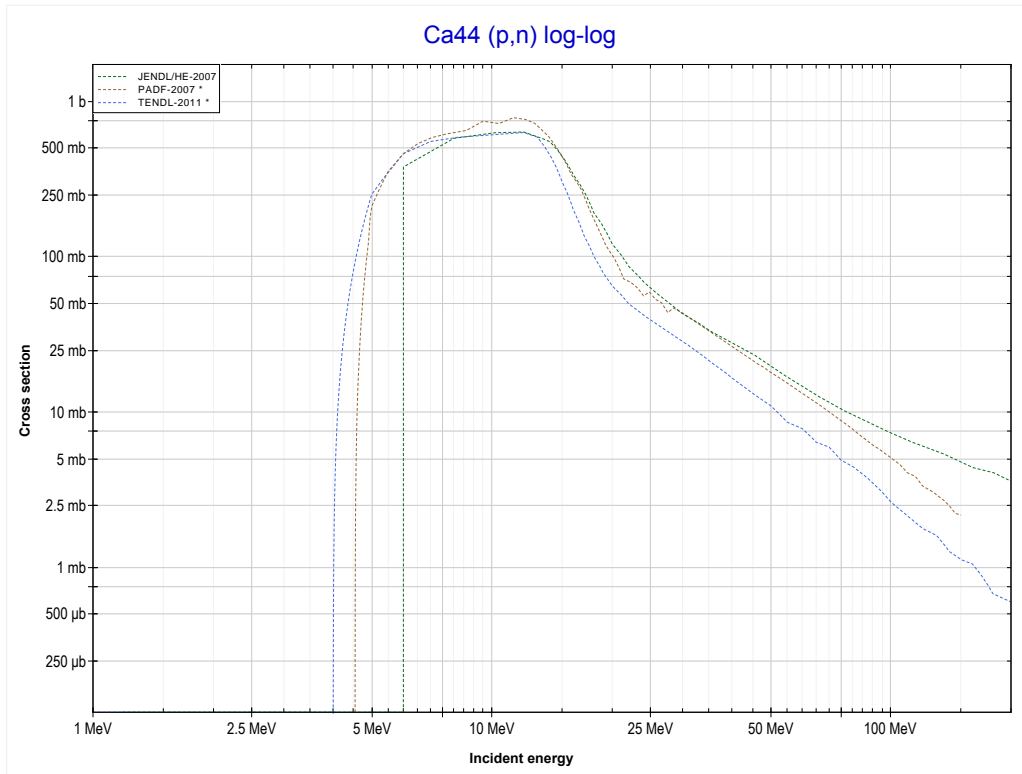
<< 18-Ar-40	<b>20-Ca-43</b>	20-Ca-44 >>
<< MT4 (p,n)	<b>MT111 (p,2p) or MT5 (K42 production)</b>	MT4 (p,n) >>



Reaction	Q-Value
Ca43(p,2p)K42	-10676.01 keV

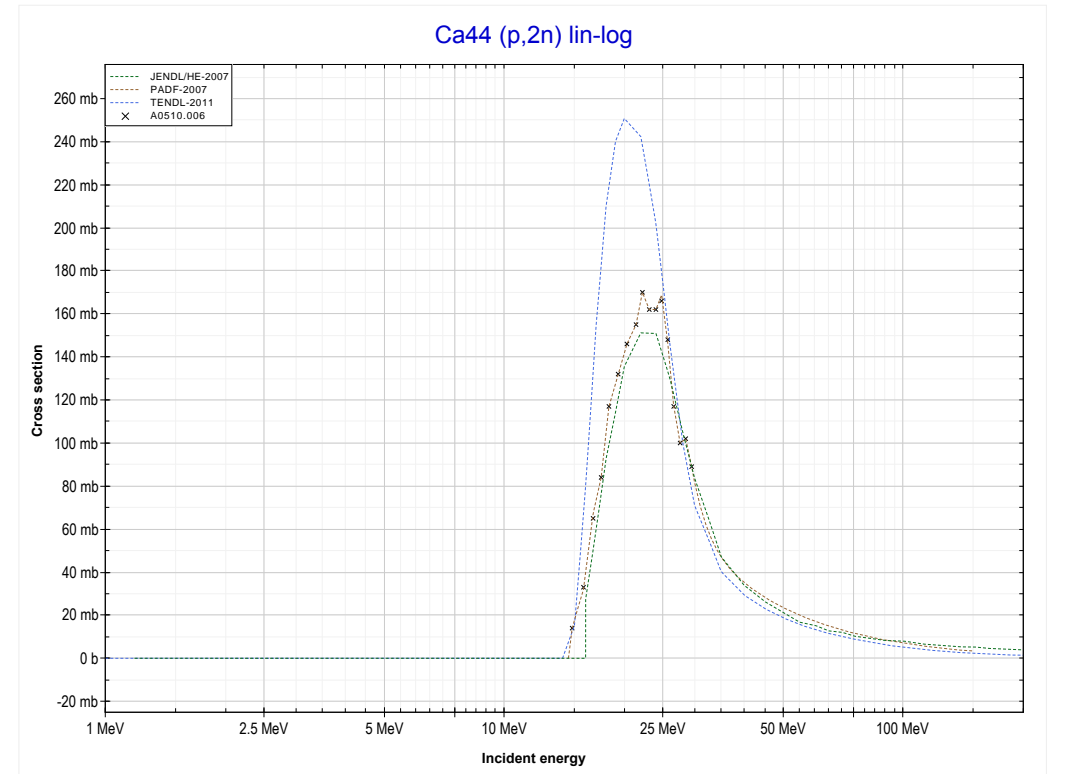
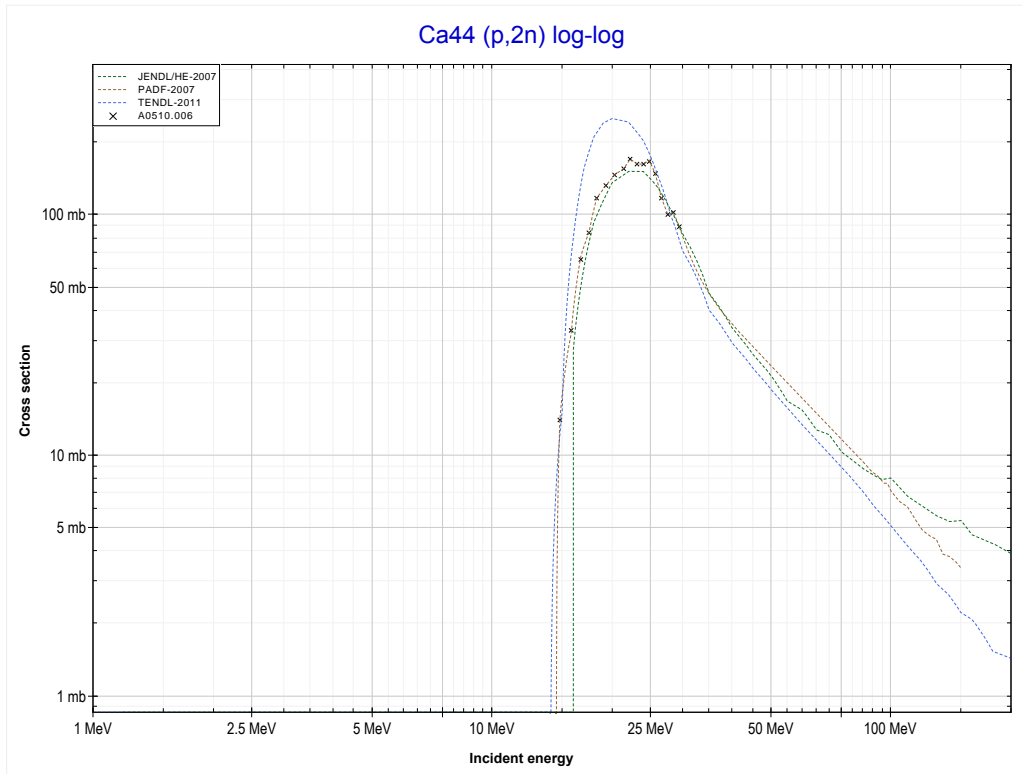


<< 20-Ca-43	<b>20-Ca-44</b>	20-Ca-48 >>
<< MT111 (p,2p)	<b>MT4 (p,n) or MT5 (Sc44 production)</b>	MT16 (p,2n) >>



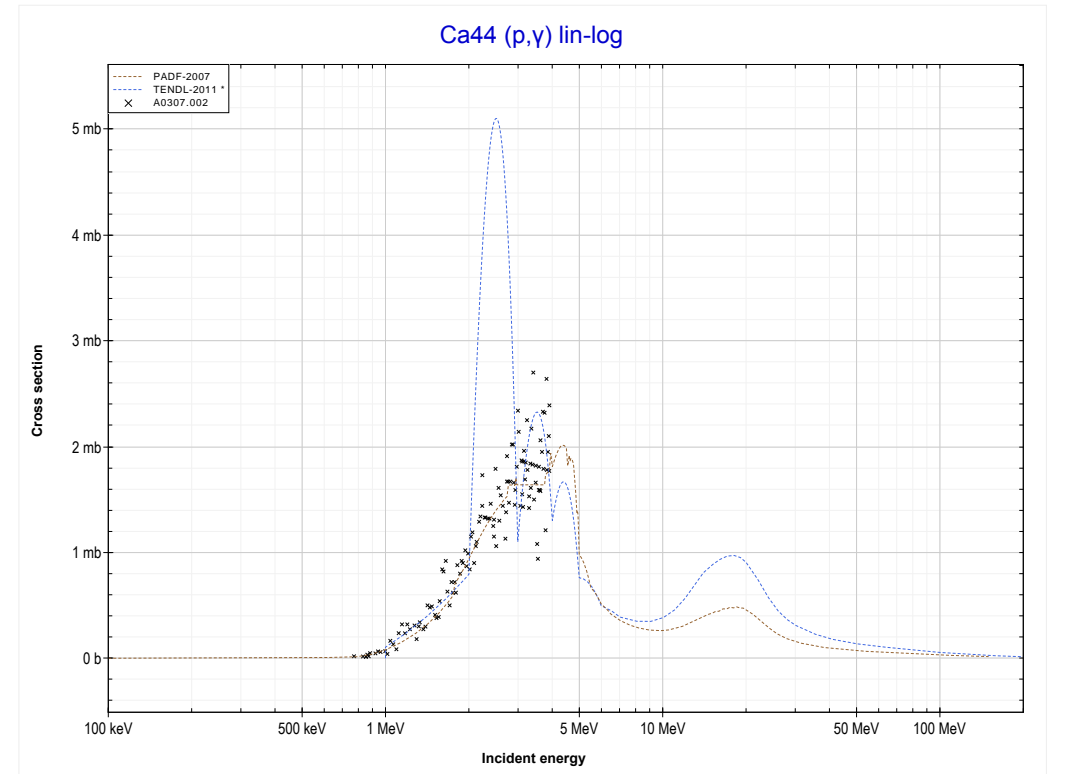
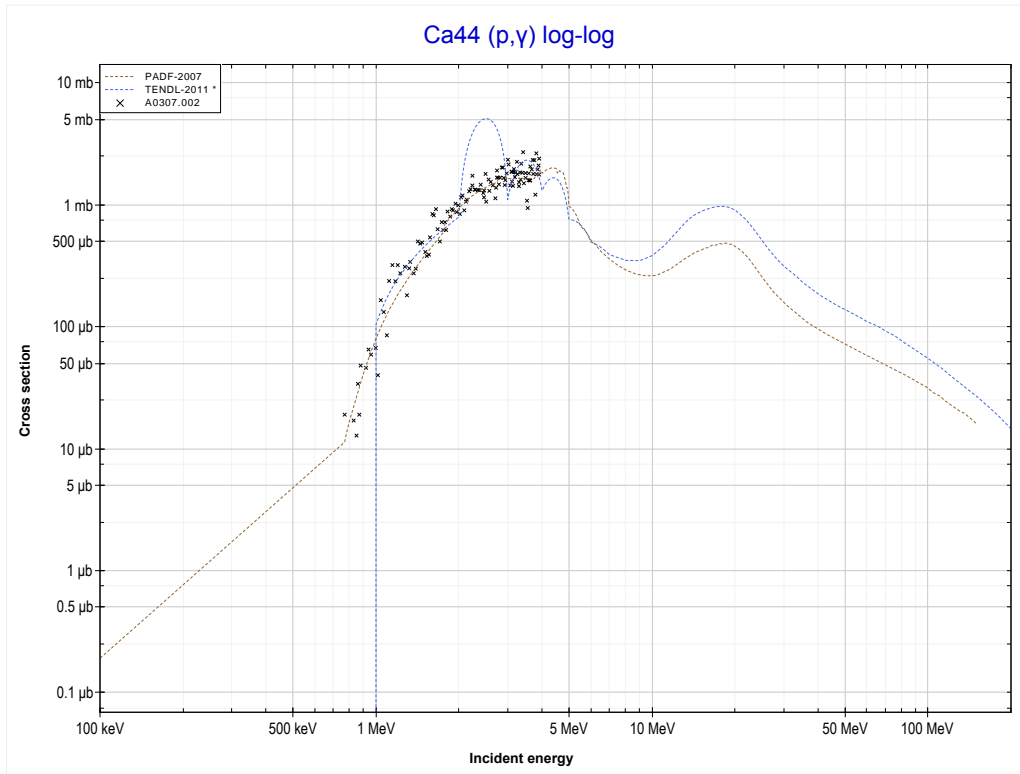
Reaction	Q-Value
Ca44(p,n)Sc44	-4434.75 keV

<< 11-Na-23	<b>20-Ca-44</b>	20-Ca-48 >>
<< MT4 (p,n)	<b>MT16 (p,2n) or MT5 (Sc43 production)</b>	MT102 (p, $\gamma$ ) >>



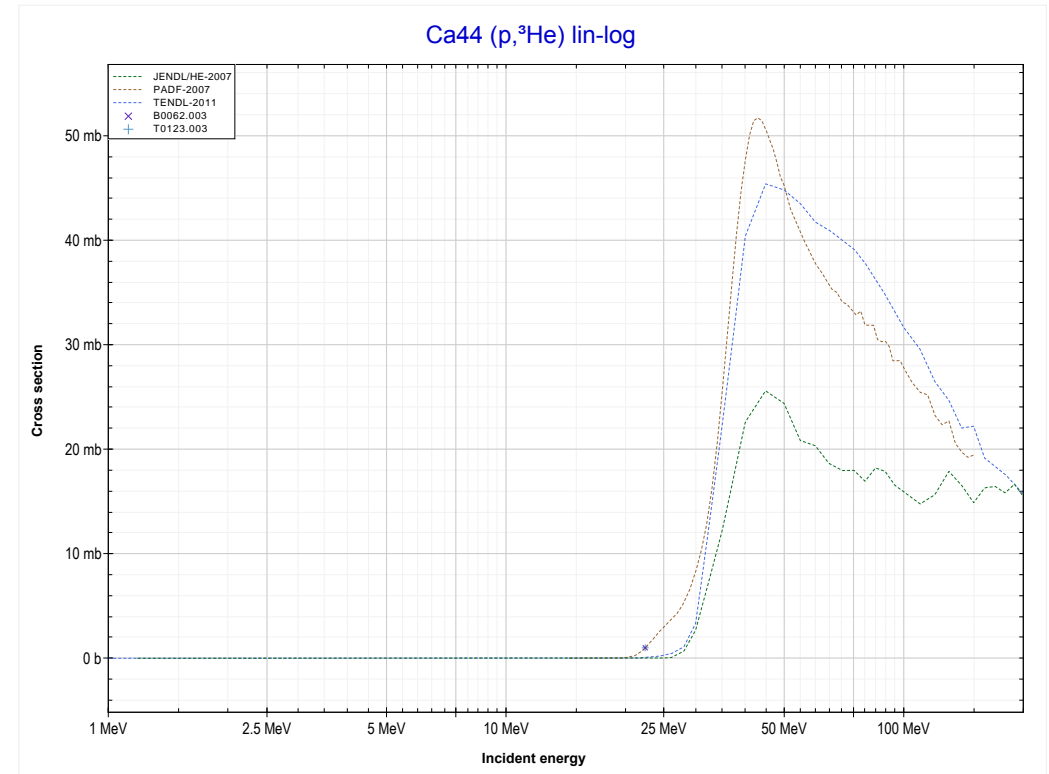
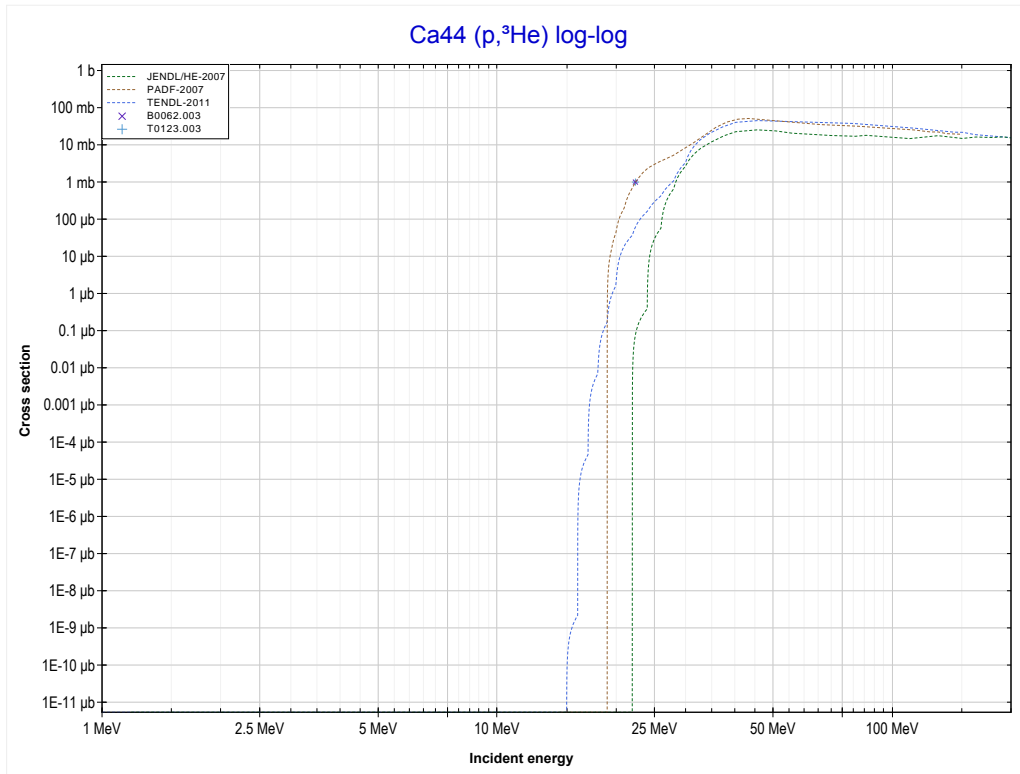
Reaction	Q-Value
Ca44(p,2n)Sc43	-14134.26 keV

<< 20-Ca-42	<b>20-Ca-44</b>	20-Ca-48 >>
<< MT16 (p,2n)	<b>MT102 (p,<math>\gamma</math>) or MT5 (Sc45 production)</b>	MT106 (p, $^3\text{He}$ ) >>



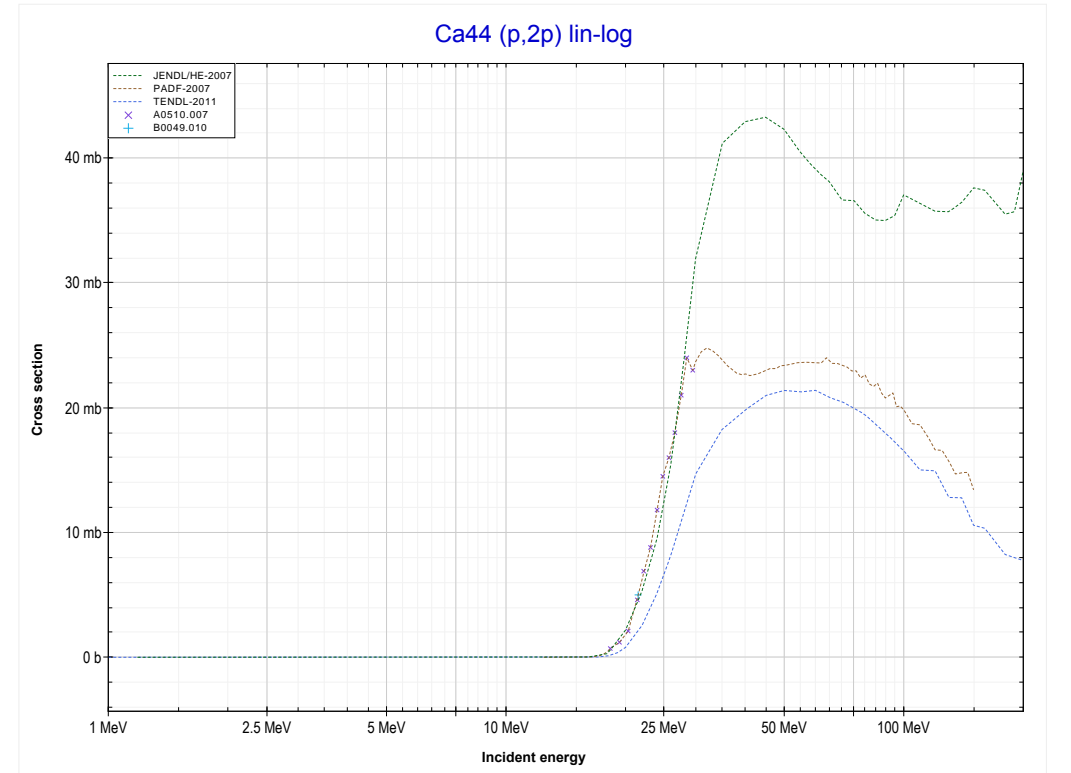
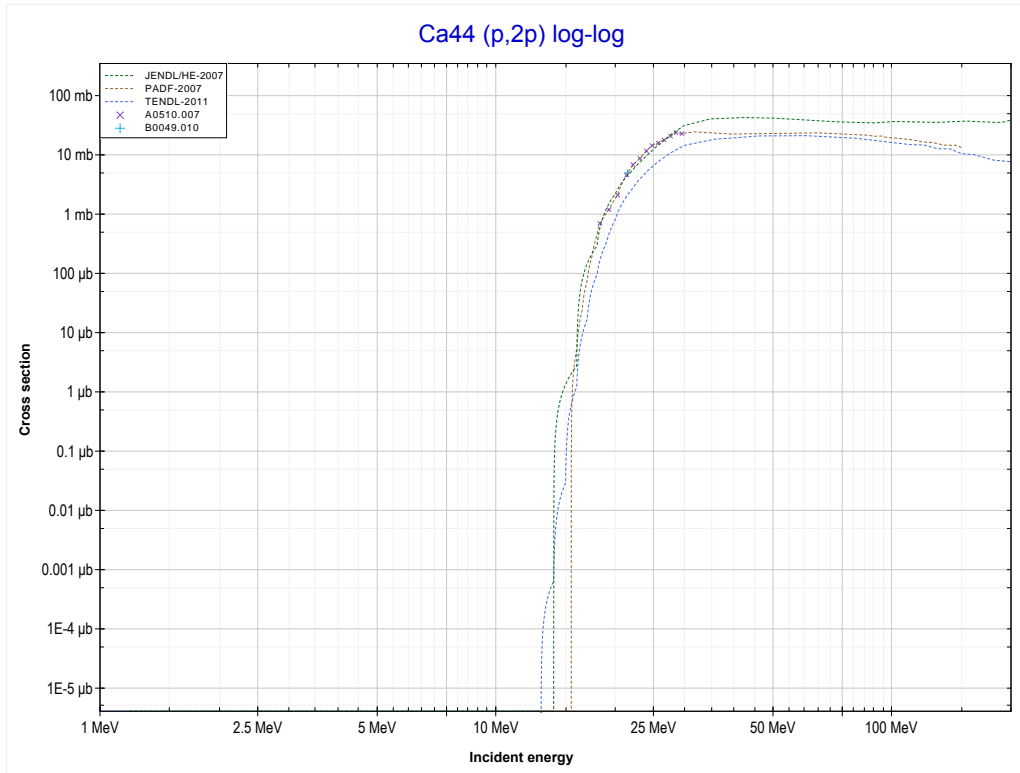
Reaction	Q-Value
Ca44(p, $\gamma$ )Sc45	6888.27 keV

<< 20-Ca-40	<b>20-Ca-44</b>	
<< MT102 (p, $\gamma$ )	<b>MT106 (p,<math>^3\text{He}</math>) or MT5 (K42 production)</b>	MT111 (p,2p) >>



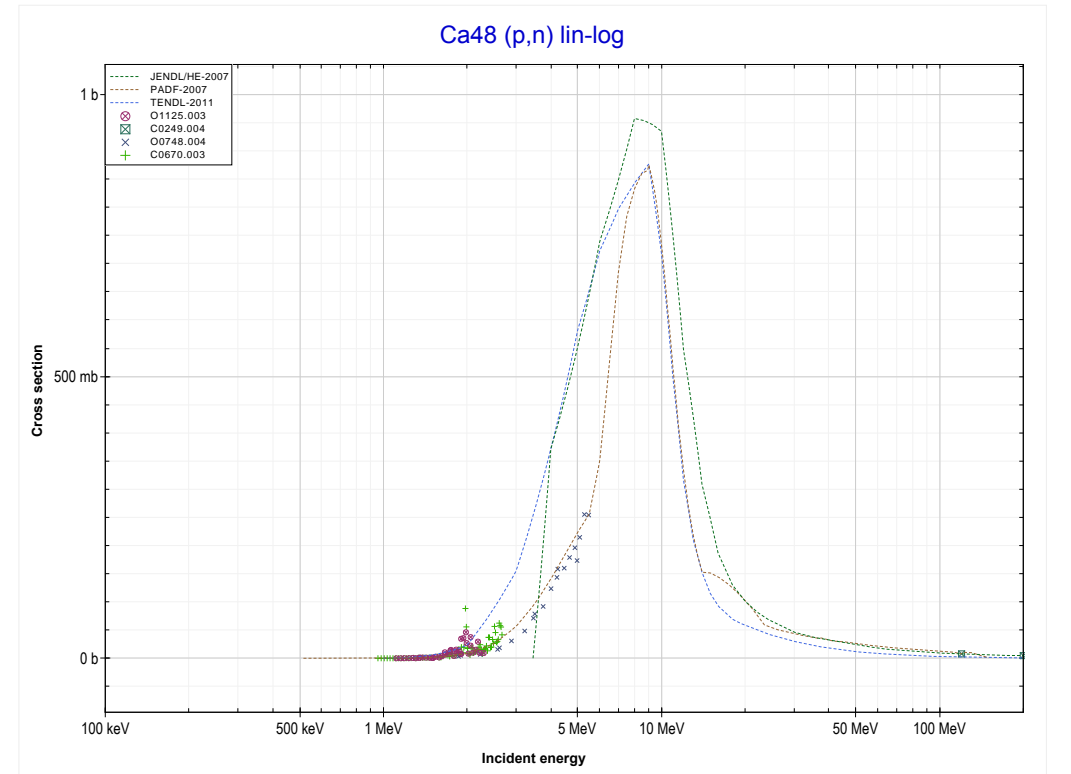
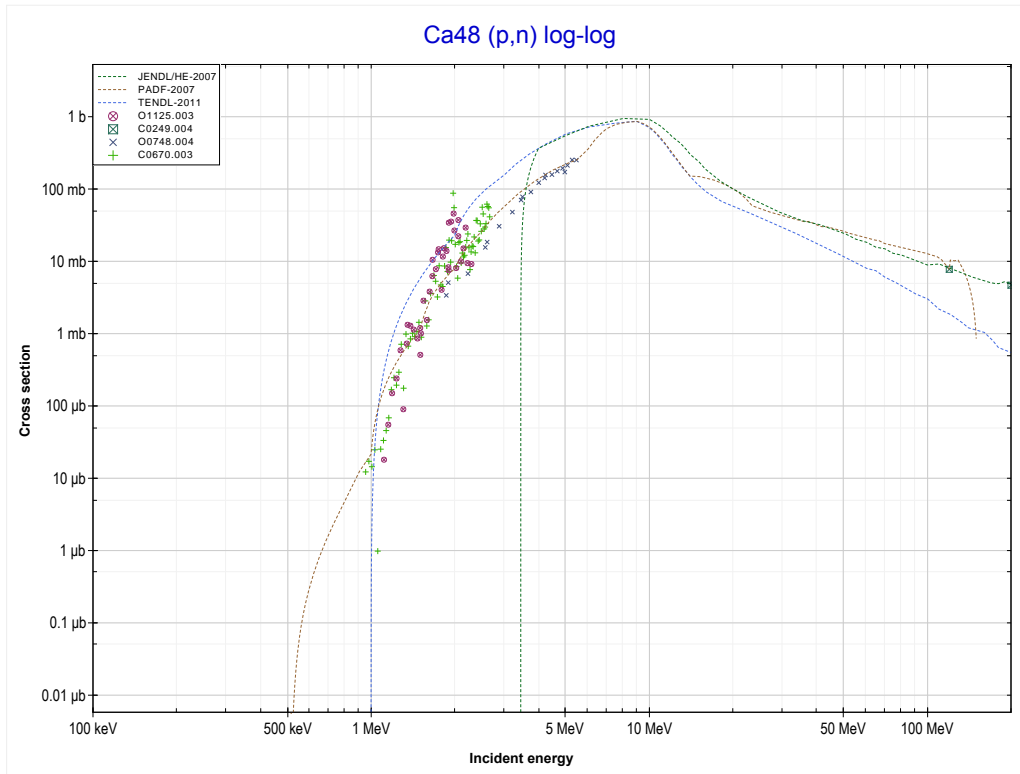
Reaction	Q-Value
Ca44(p,He3)K42	-14089.18 keV
Ca44(p,p+d)K42	-19582.66 keV
Ca44(p,n+2p)K42	-21807.23 keV

<< 20-Ca-43	<b>20-Ca-44</b>	22-Ti-47 >>
<< MT106 (p, <sup>3</sup> He)	<b>MT111 (p,2p) or MT5 (K43 production)</b>	MT4 (p,n) >>



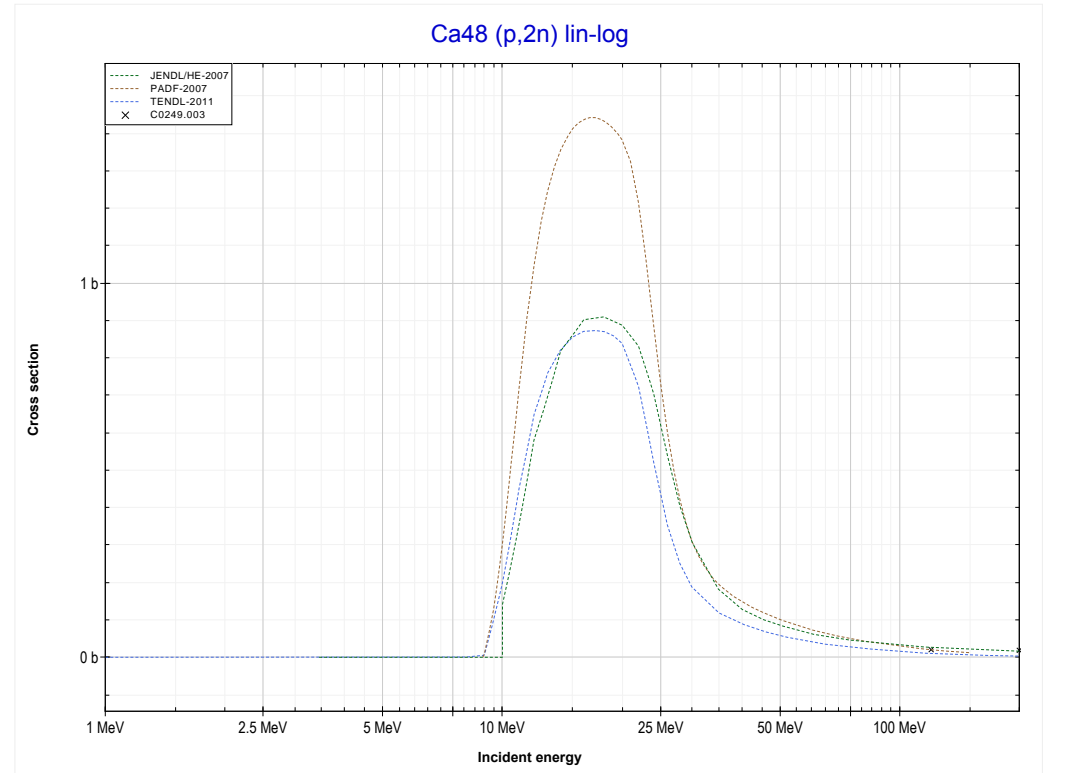
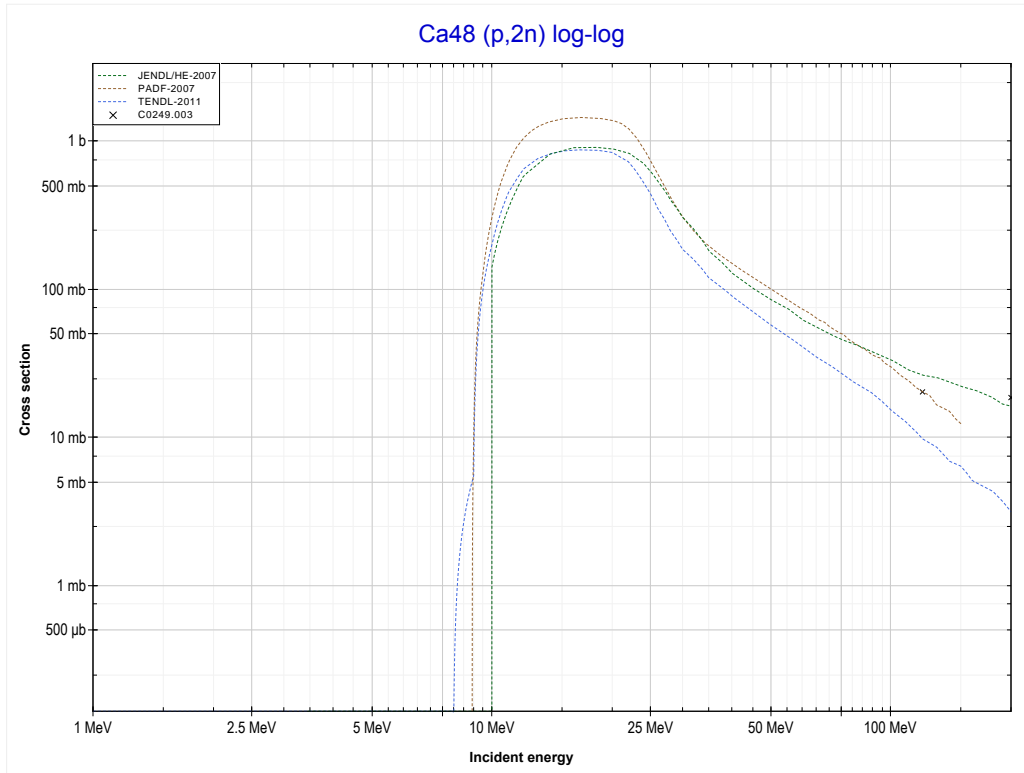
Reaction	Q-Value
Ca44(p,2p)K43	-12164.47 keV

<< 20-Ca-44	<b>20-Ca-48</b>	21-Sc-45 >>
<< MT111 (p,2p)	<b>MT4 (p,n) or MT5 (Sc48 production)</b>	MT16 (p,2n) >>



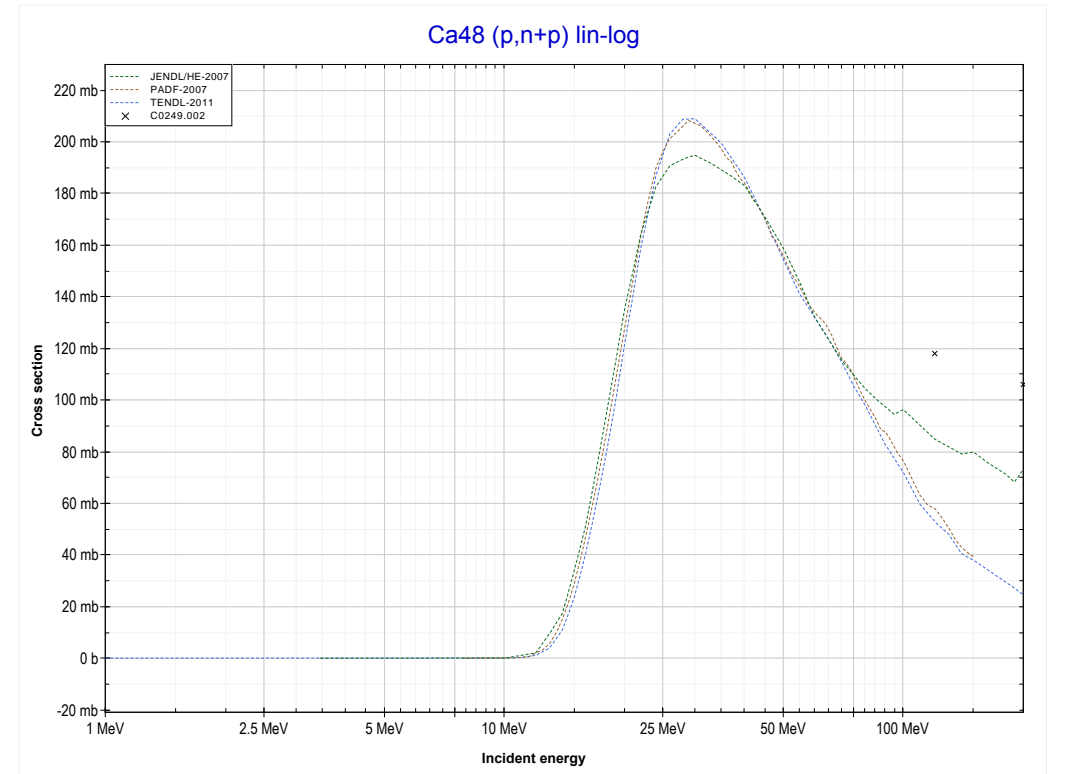
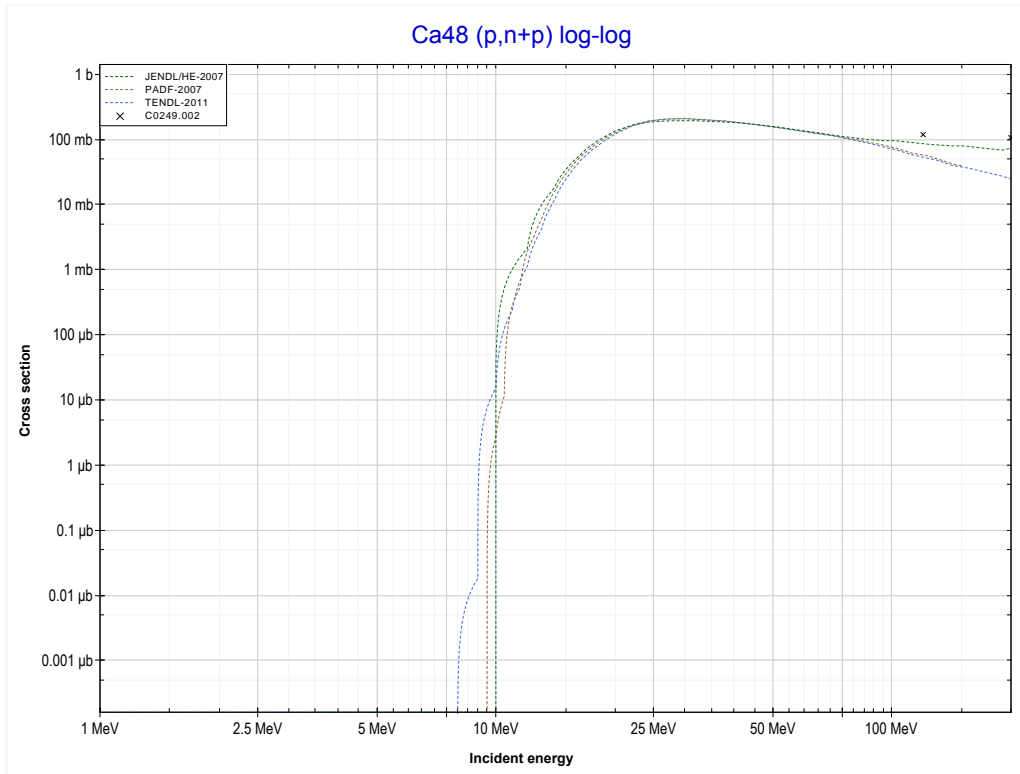
Reaction	Q-Value
Ca48(p,n)Sc48	-500.35 keV

<< 20-Ca-44	<b>20-Ca-48</b>	21-Sc-45 >>
<< MT4 (p,n)	<b>MT16 (p,2n) or MT5 (Sc47 production)</b>	MT28 (p,n+p) >>



Reaction	Q-Value
Ca48(p,2n)Sc47	-8735.56 keV

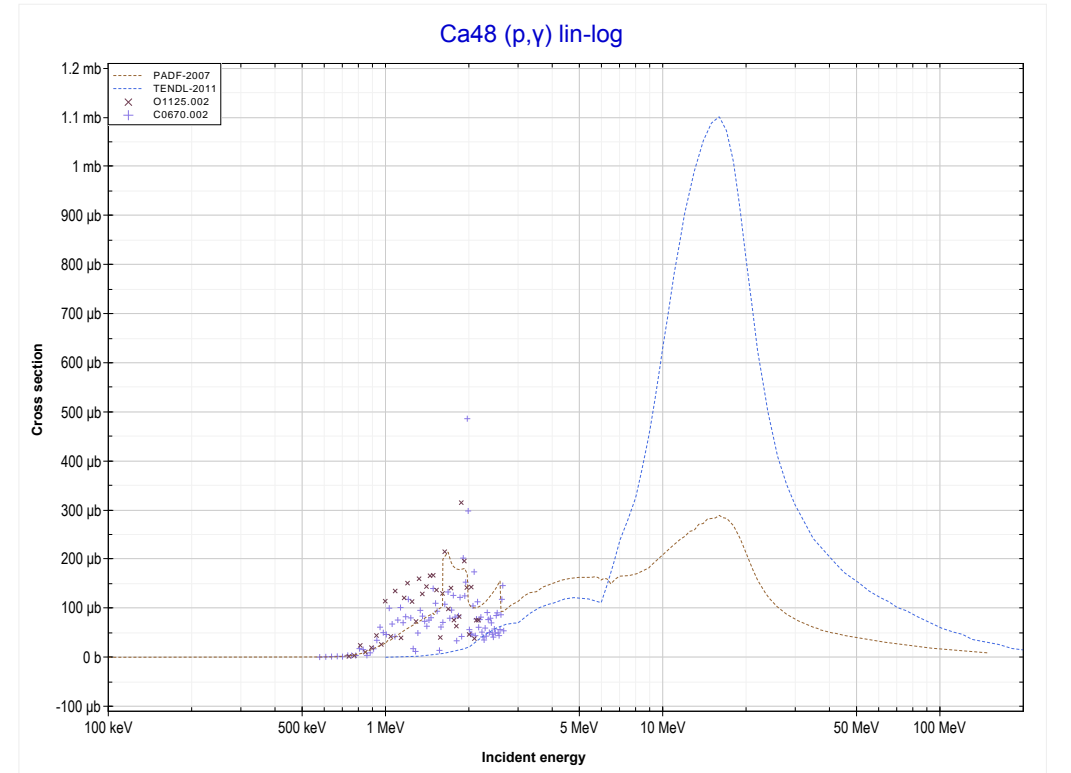
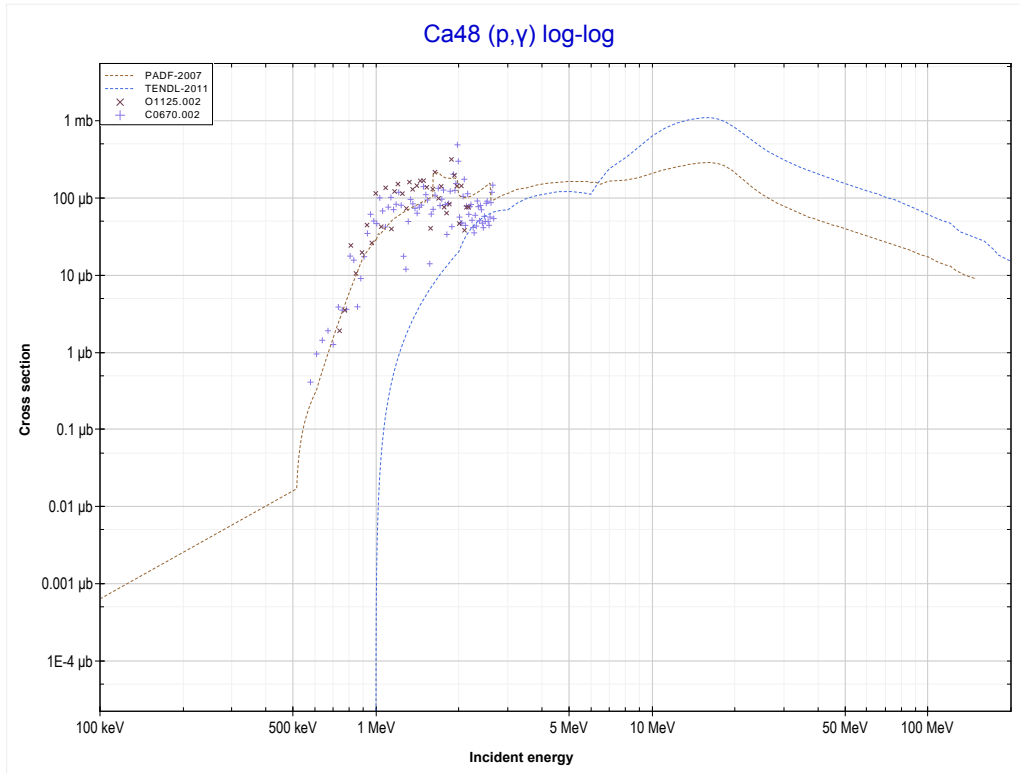
<< 13-Al-27	<b>20-Ca-48</b>	21-Sc-45 >>
<< MT16 (p,2n)	<b>MT28 (p,n+p) or MT5 (Ca47 production)</b>	MT102 (p, $\gamma$ ) >>



Reaction	Q-Value
Ca48(p,d)Ca47	-7720.65 keV
Ca48(p,n+p)Ca47	-9945.22 keV

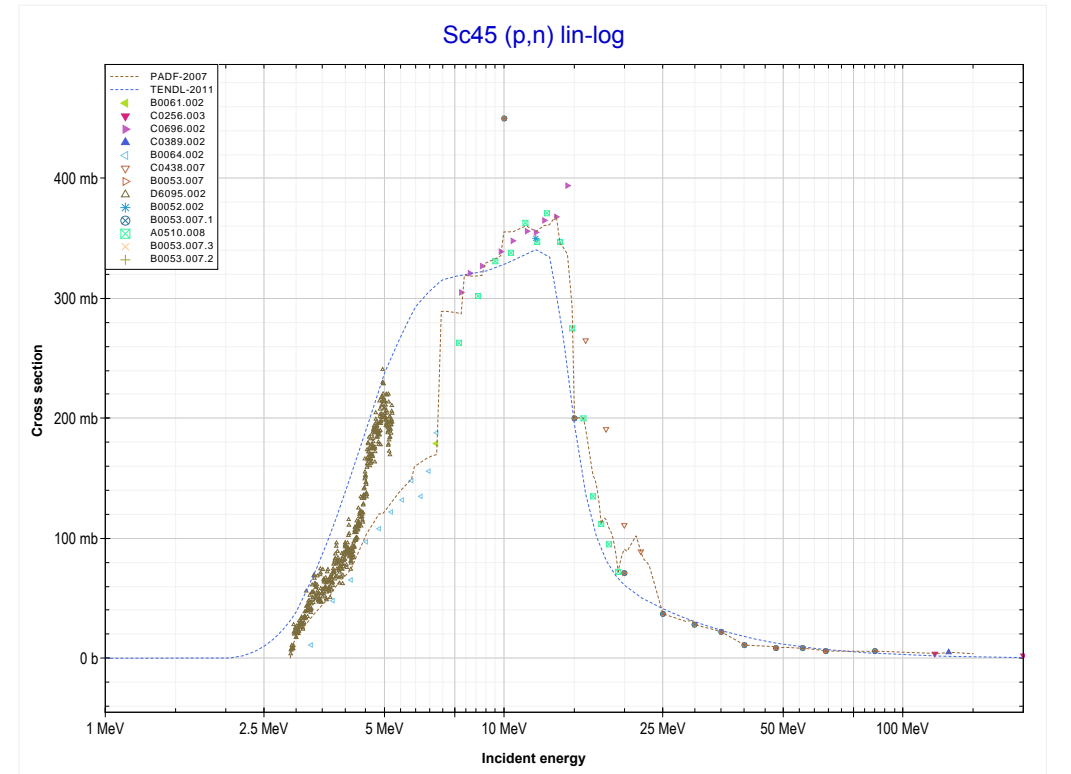
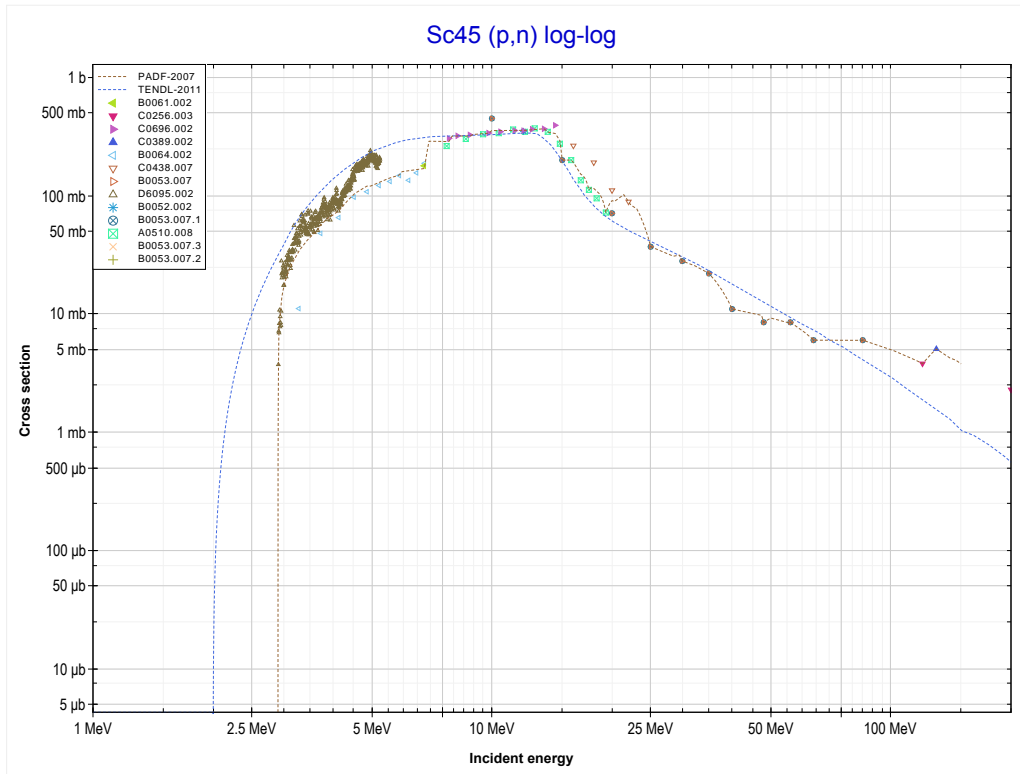


<< 20-Ca-44	<b>20-Ca-48</b>	22-Ti-49 >>
<< MT28 (p,n+p)	<b>MT102 (p,<math>\gamma</math>) or MT5 (Sc49 production)</b>	MT4 (p,n) >>



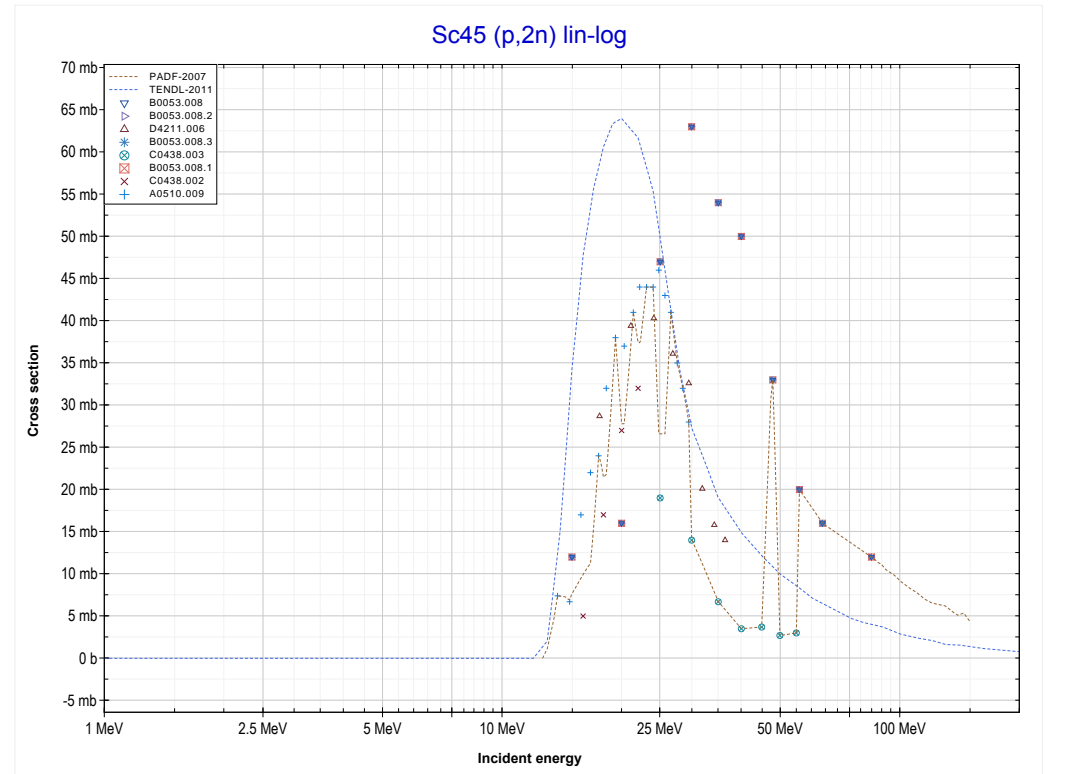
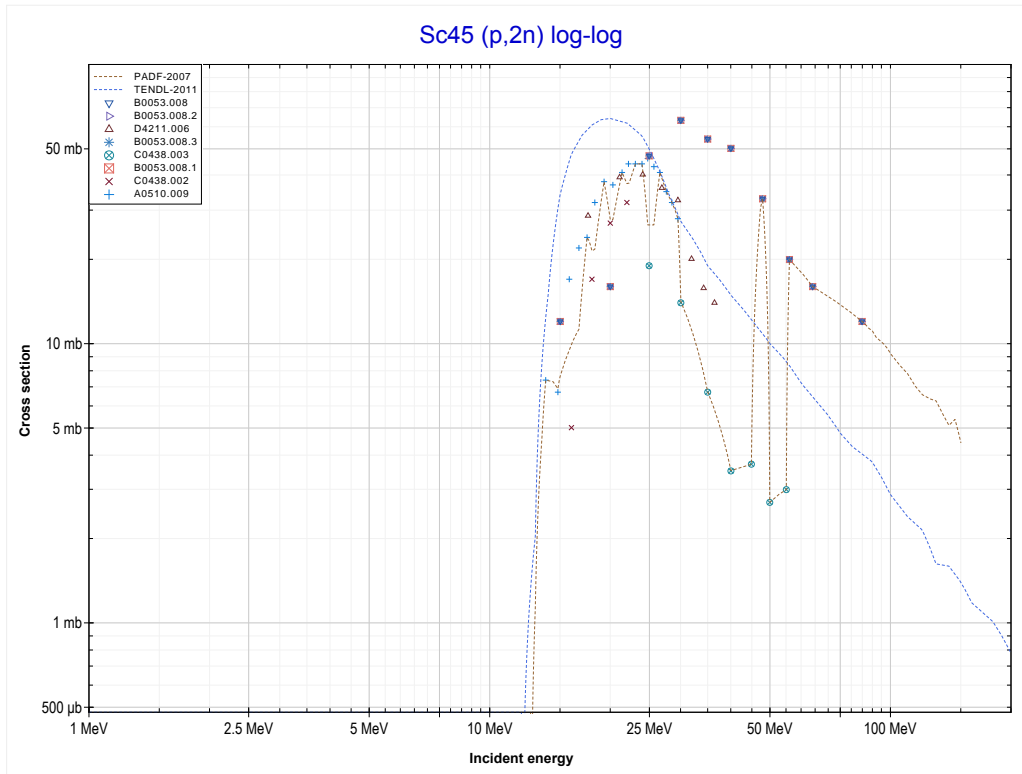
Reaction	Q-Value
Ca48(p, $\gamma$ )Sc49	9626.97 keV

<< 20-Ca-48	<b>21-Sc-45</b>	22-Ti-47 >>
<< MT102 (p, $\gamma$ )	<b>MT4 (p,n) or MT5 (Ti45 production)</b>	MT16 (p,2n) >>



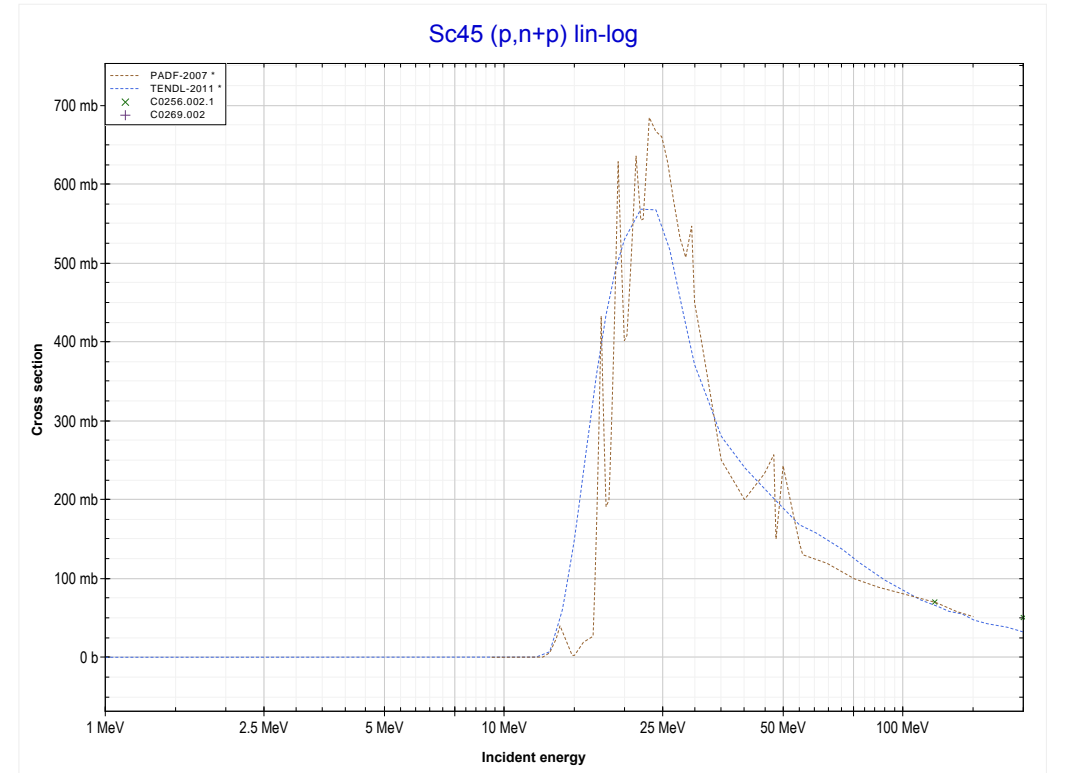
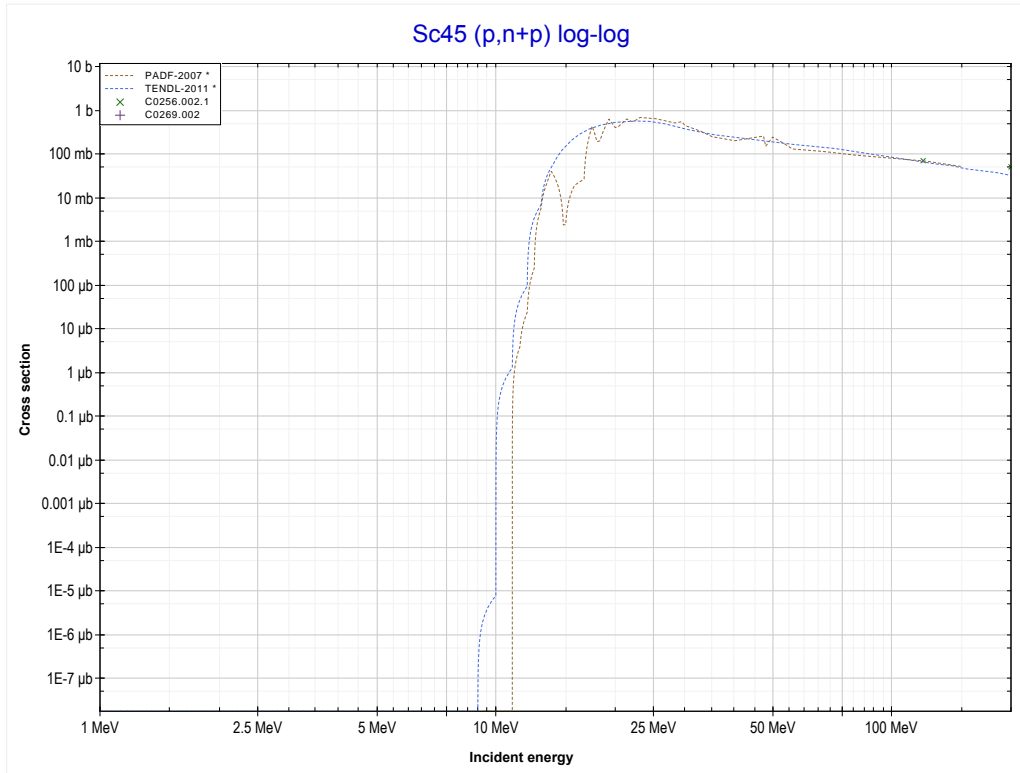
Reaction	Q-Value
Sc45(p,n)Ti45	-2844.45 keV

<< 20-Ca-48	<b>21-Sc-45</b>	22-Ti-48 >>
<< MT4 (p,n)	<b>MT16 (p,2n) or MT5 (Ti44 production)</b>	MT28 (p,n+p) >>



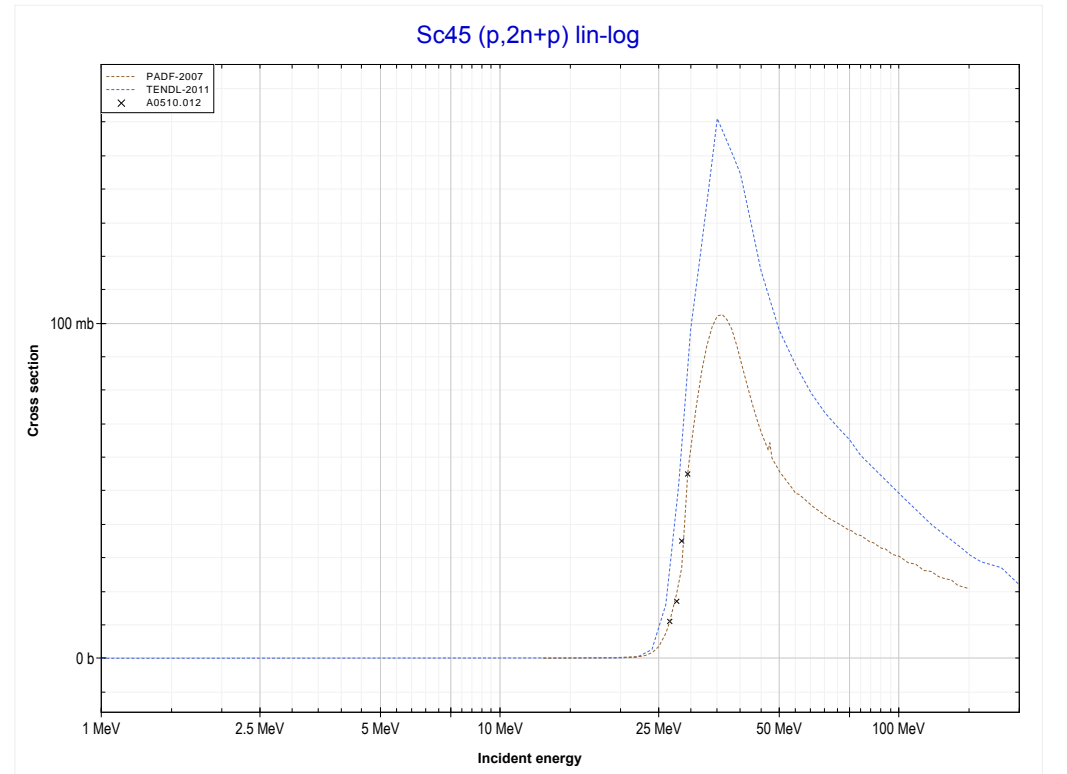
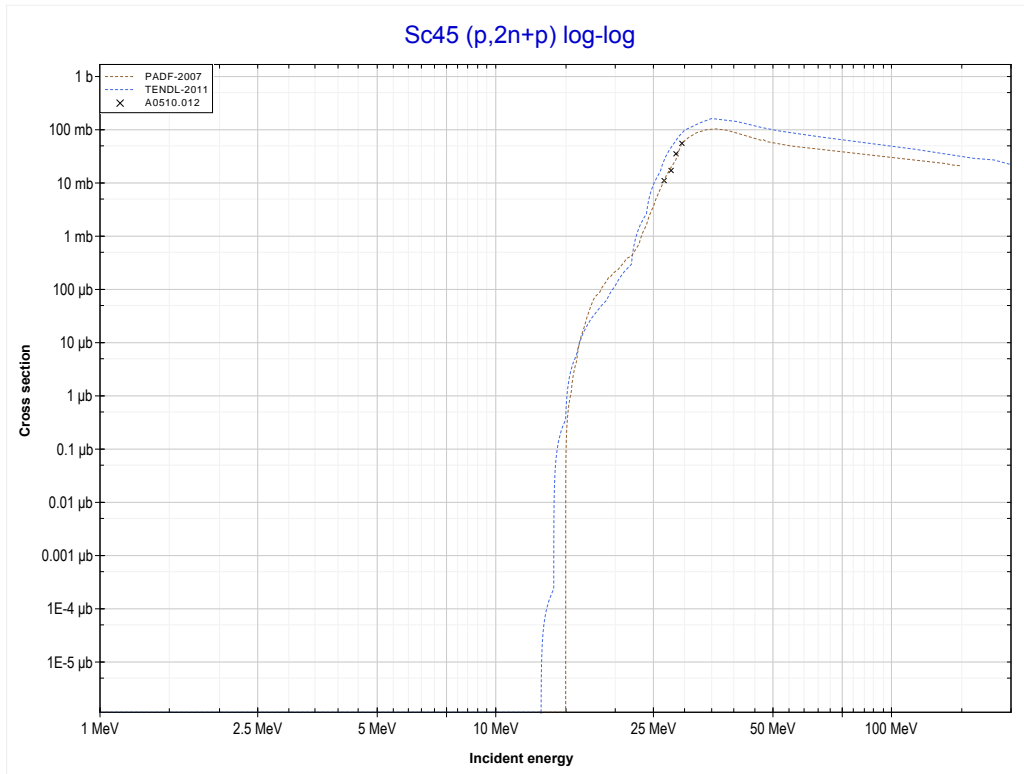
Reaction	Q-Value
Sc45(p,2n)Ti44	-12372.96 keV

<< 20-Ca-48	<b>21-Sc-45</b>	22-Ti-46 >>
<< MT16 (p,2n)	<b>MT28 (p,n+p) or MT5 (Sc44 production)</b>	MT41 (p,2n+p) >>



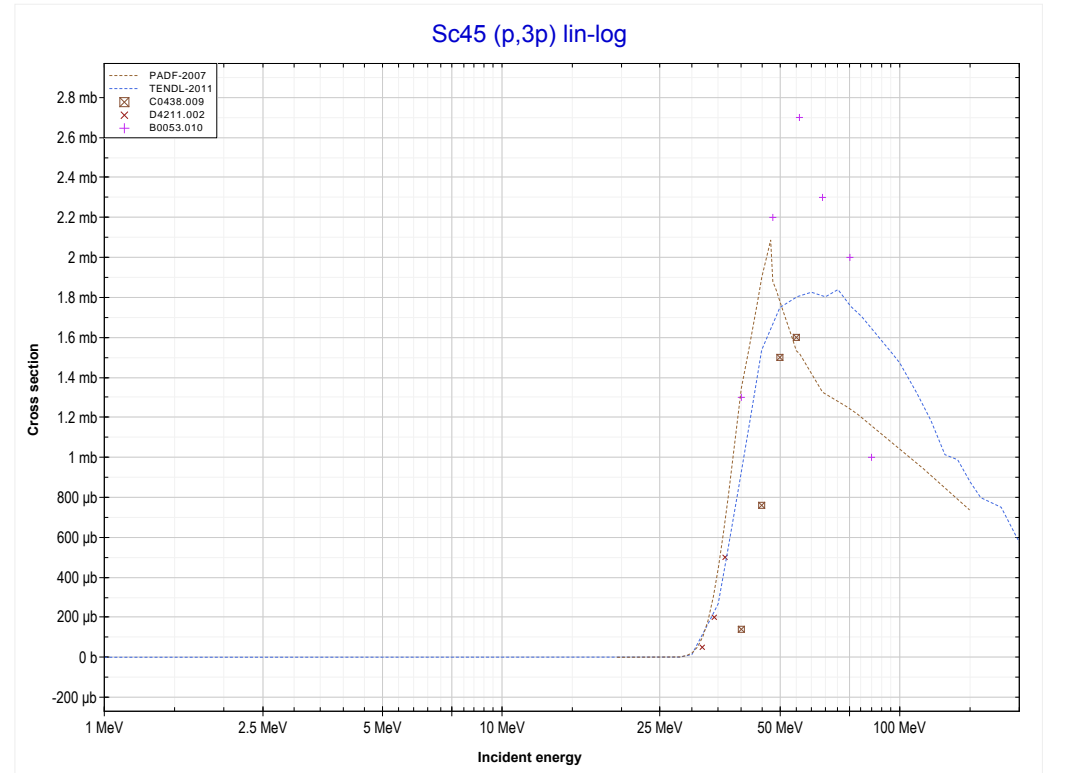
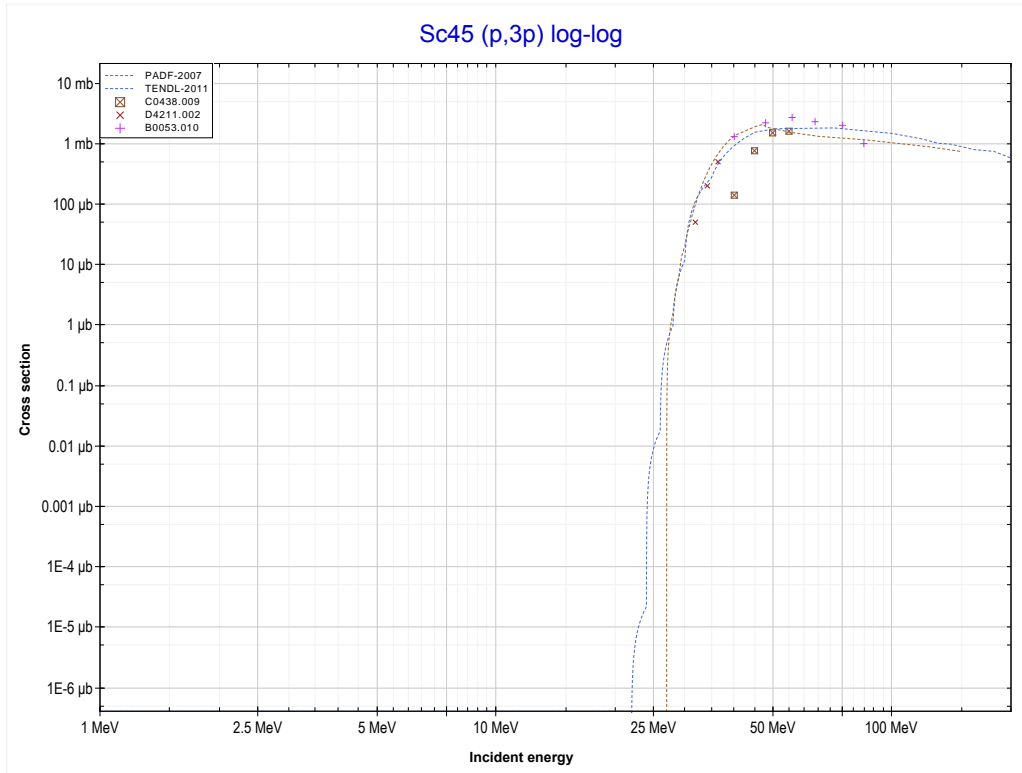
Reaction	Q-Value
Sc45(p,d)Sc44	-9098.45 keV
Sc45(p,n+p)Sc44	-11323.02 keV

<< 8-O-16	<b>21-Sc-45</b>	24-Cr-50 >>
<< MT28 (p,n+p)	<b>MT41 (p,2n+p) or MT5 (Sc43 production)</b>	MT197 (p,3p) >>



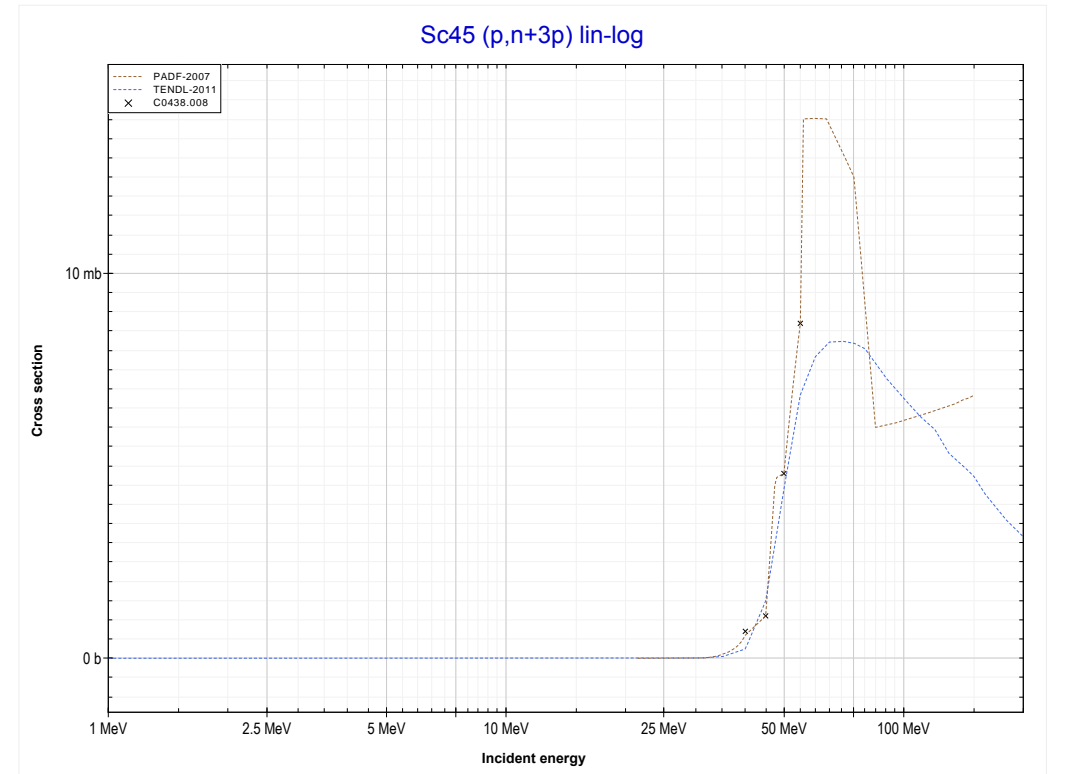
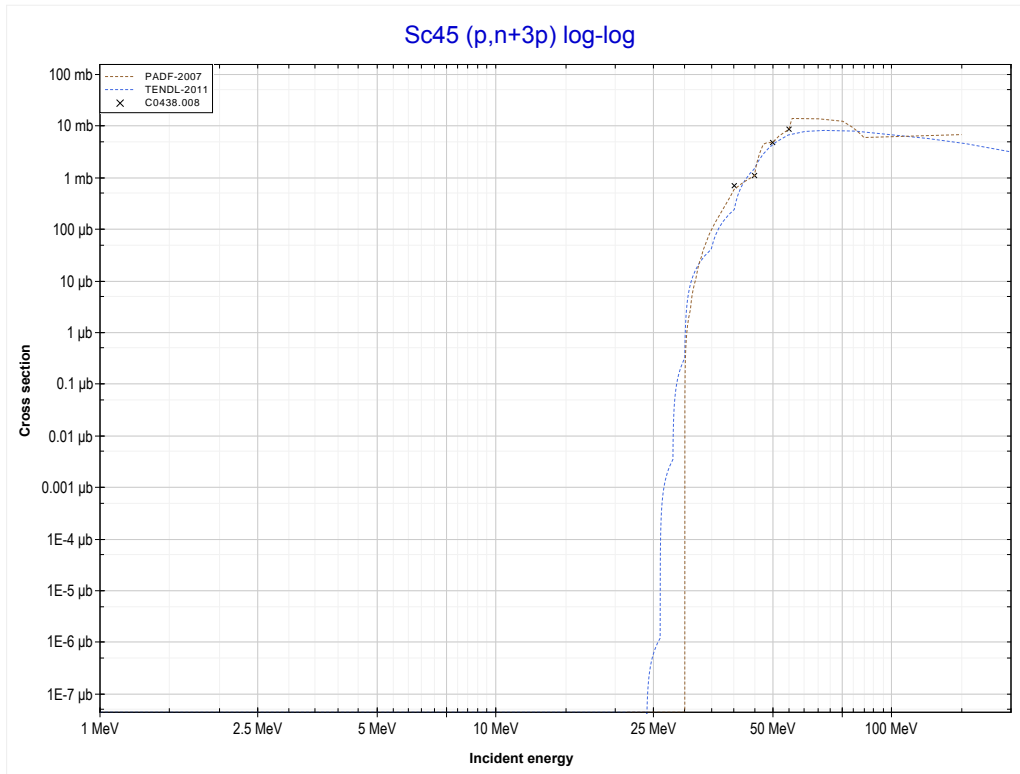
Reaction	Q-Value
Sc45(p,t)Sc43	-12540.74 keV
Sc45(p,n+d)Sc43	-18797.97 keV
Sc45(p,2n+p)Sc43	-21022.53 keV

<< 15-P-31	<b>21-Sc-45</b>	23-V-51 >>
<< MT41 (p,2n+p)	<b>MT197 (p,3p) or MT5 (K43 production)</b>	MT198 (p,n+3p) >>



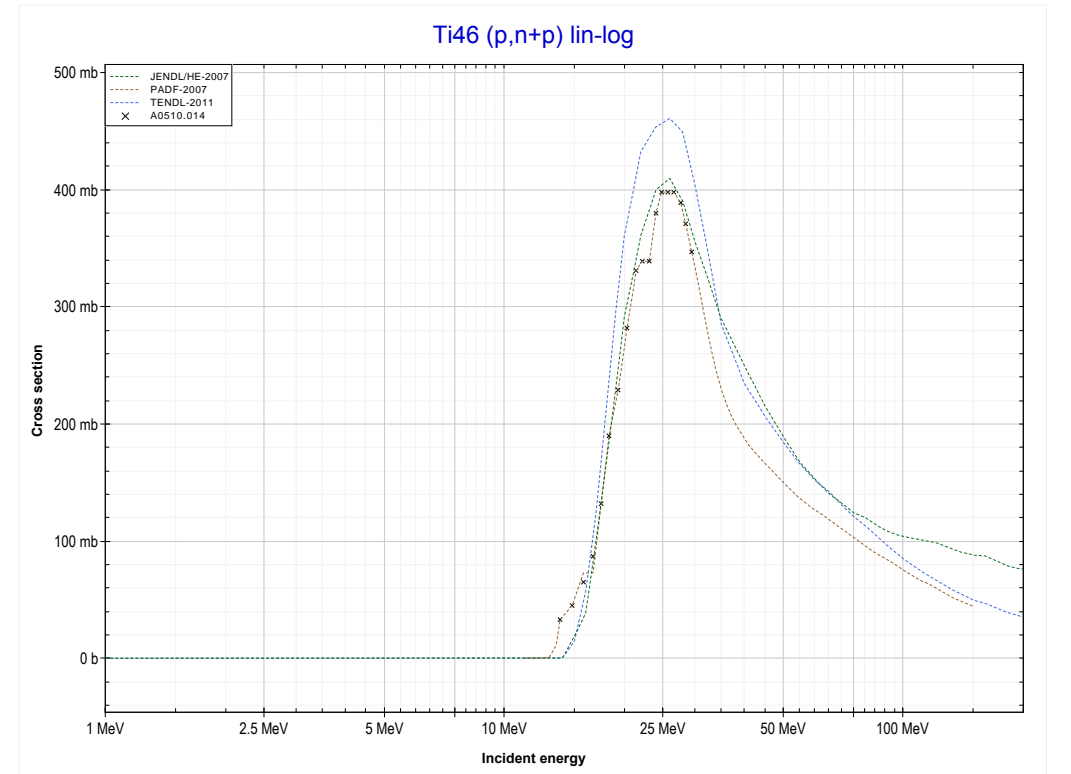
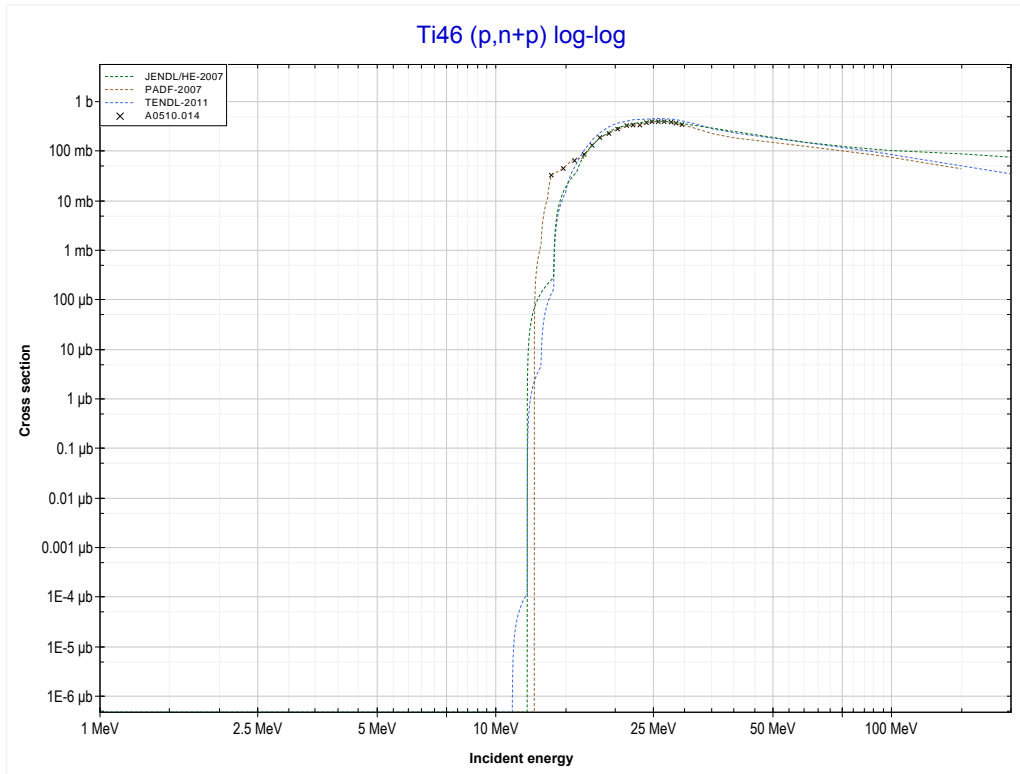
Reaction	Q-Value
Sc45(p,3p)K43	-19052.74 keV

<< 13-Al-27	<b>21-Sc-45</b>	27-Co-59 >>
<< MT197 (p,3p)	<b>MT198 (p,n+3p) or MT5 (K42 production)</b>	MT28 (p,n+p) >>



Reaction	Q-Value
Sc45(p,p+He3)K42	-20977.45 keV
Sc45(p,2p+d)K42	-26470.93 keV
Sc45(p,n+3p)K42	-28695.50 keV

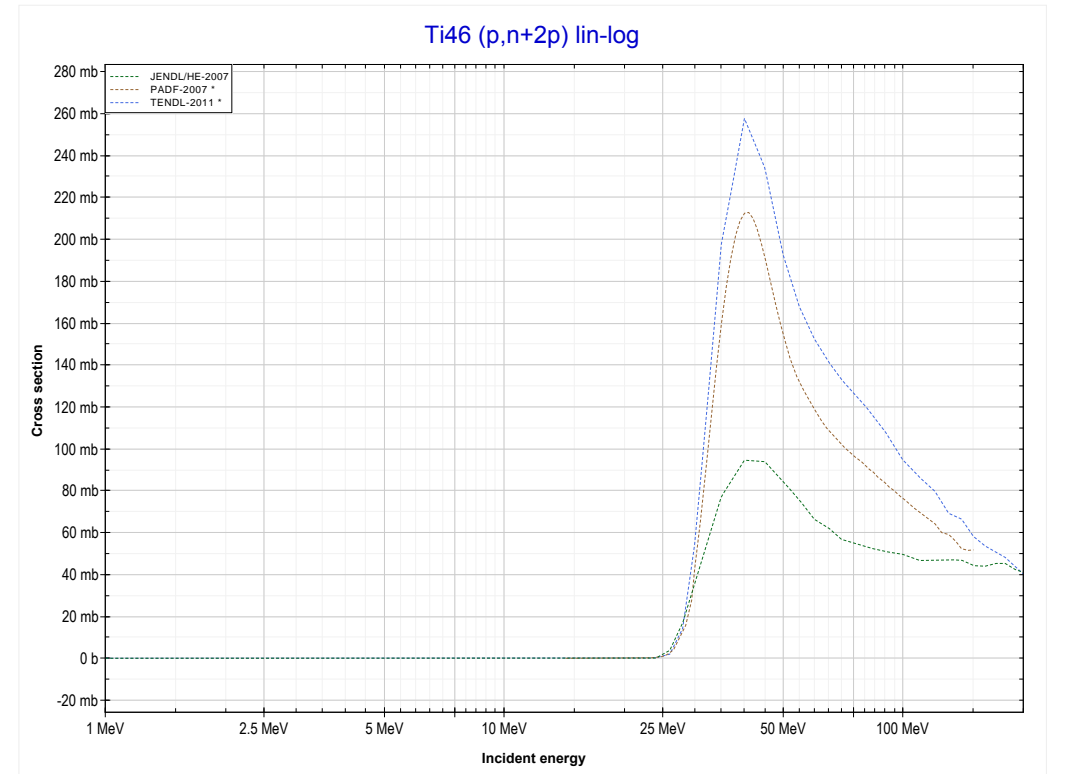
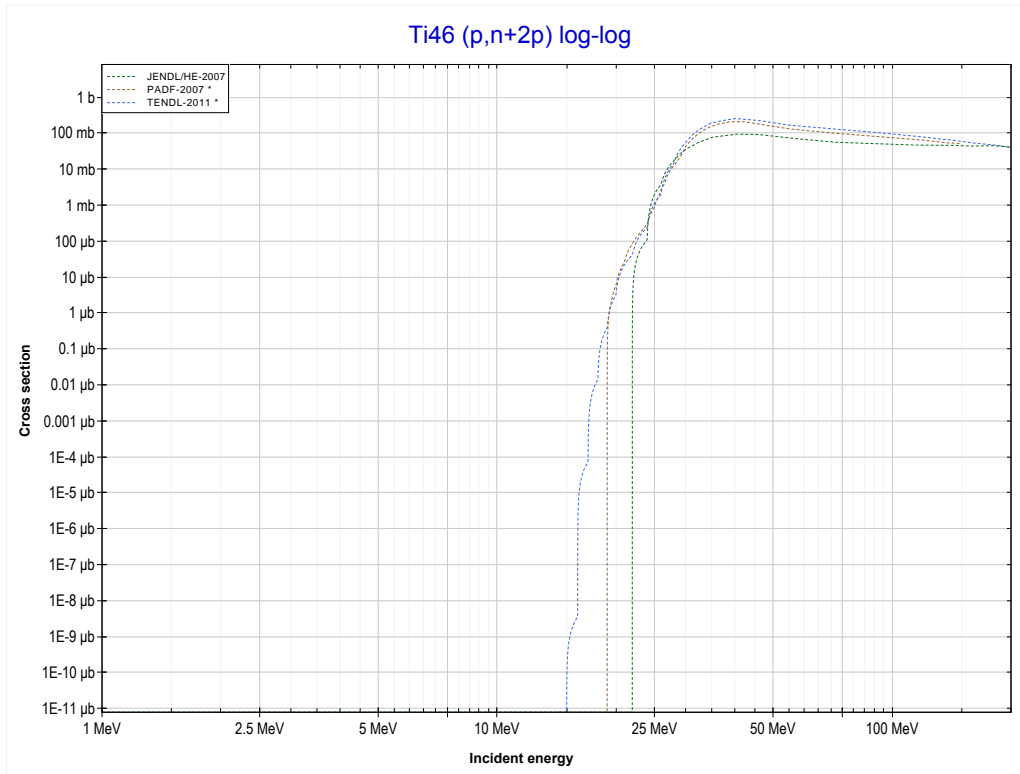
<< 21-Sc-45	<b>22-Ti-46</b>	24-Cr-50 >>
<< MT198 (p,n+3p)	<b>MT28 (p,n+p) or MT5 (Ti45 production)</b>	MT44 (p,n+2p) >>



Reaction	Q-Value
Ti46(p,d)Ti45	-10964.45 keV
Ti46(p,n+p)Ti45	-13189.02 keV

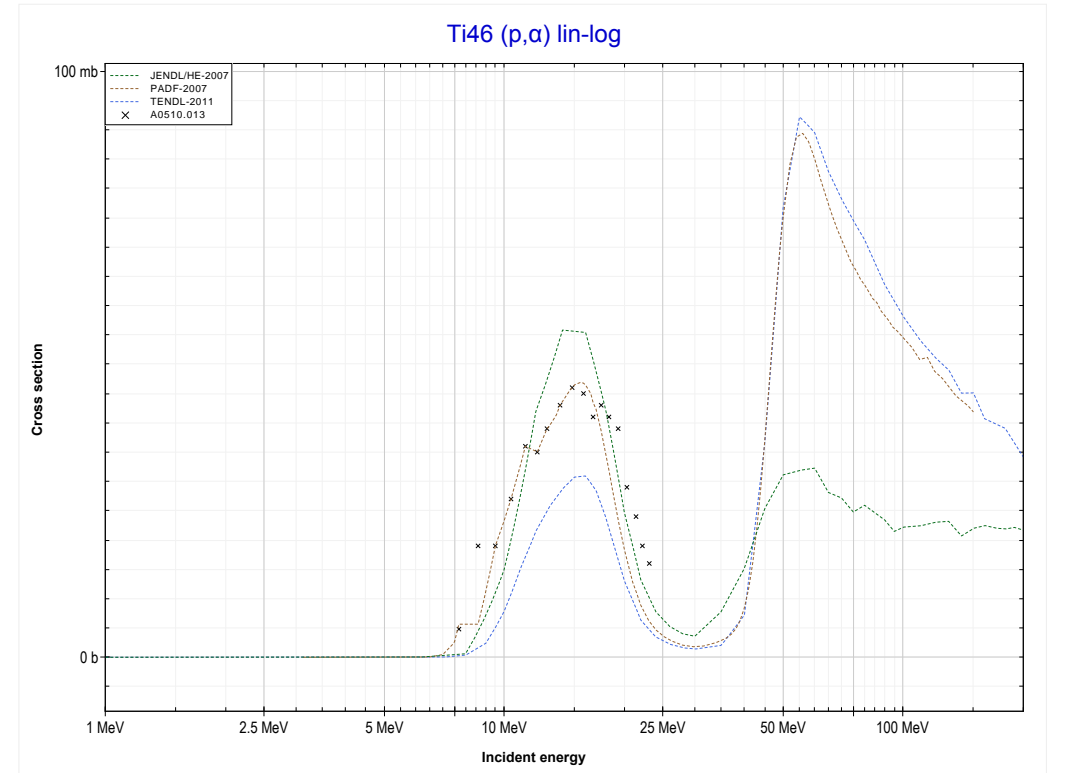
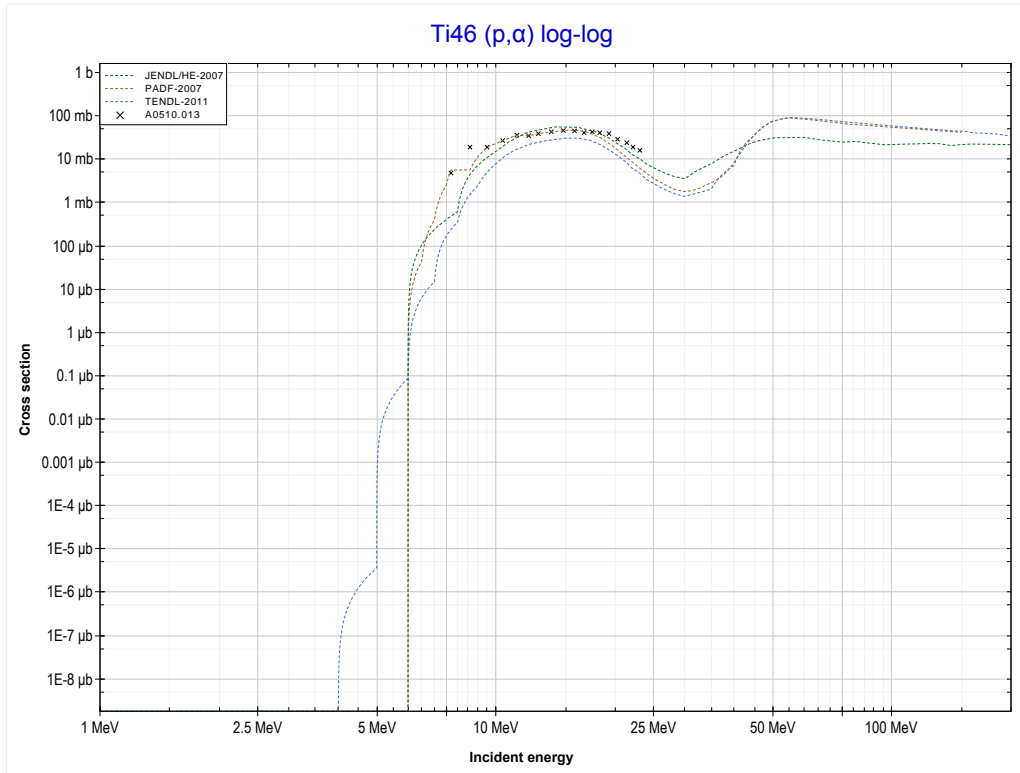


<< 12-Mg-24	<b>22-Ti-46</b>	22-Ti-48 >>
<< MT28 (p,n+p)	<b>MT44 (p,n+2p) or MT5 (Sc44 production)</b>	MT107 (p, $\alpha$ ) >>



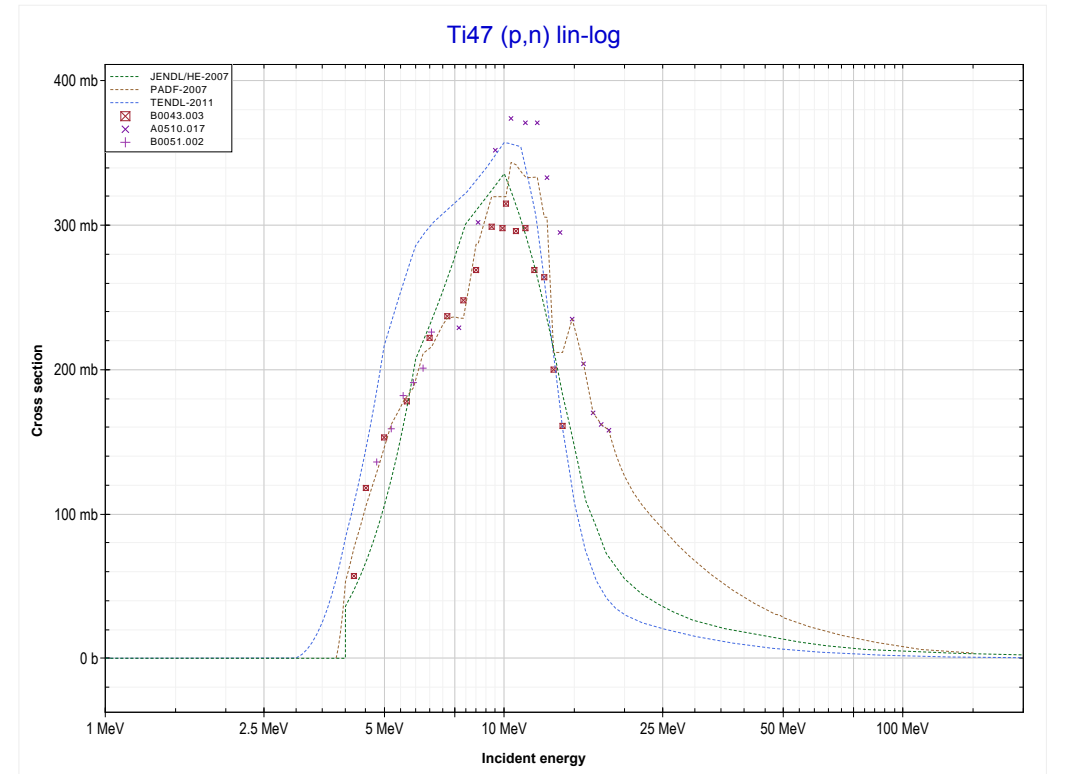
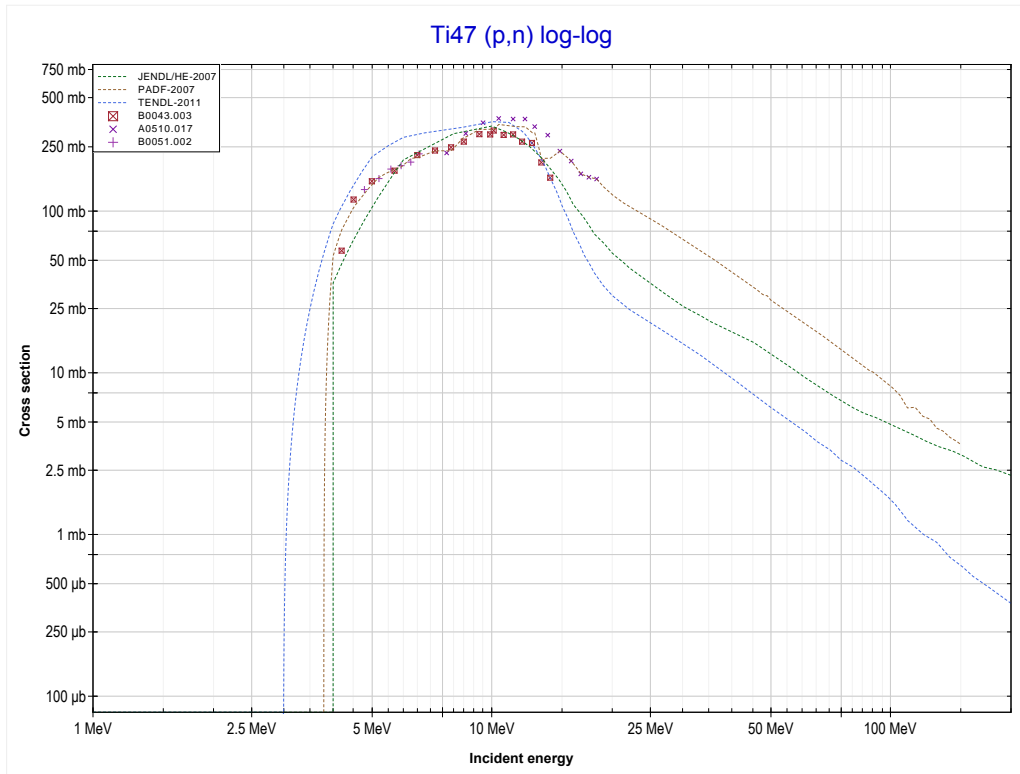
Reaction	Q-Value
Ti46(p,He3)Sc44	-13949.54 keV
Ti46(p,p+d)Sc44	-19443.02 keV
Ti46(p,n+2p)Sc44	-21667.59 keV

<< 12-Mg-24	<b>22-Ti-46</b>	22-Ti-47 >>
<< MT44 (p,n+2p)	<b>MT107 (p,<math>\alpha</math>) or MT5 (Sc43 production)</b>	MT4 (p,n) >>



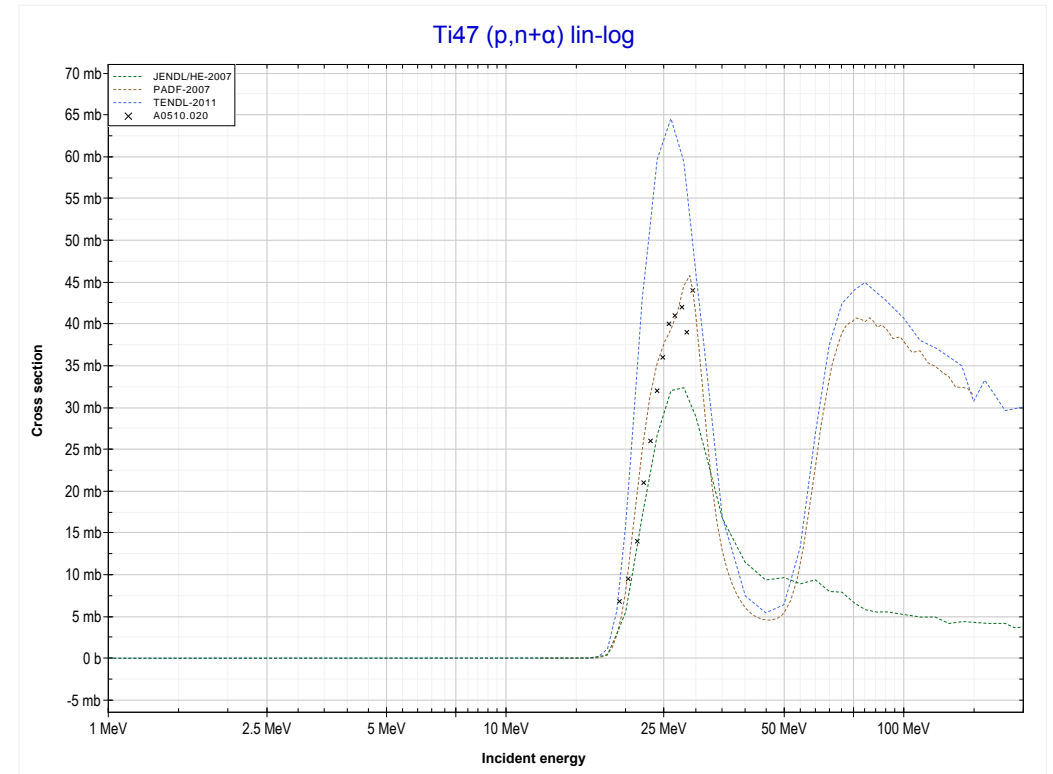
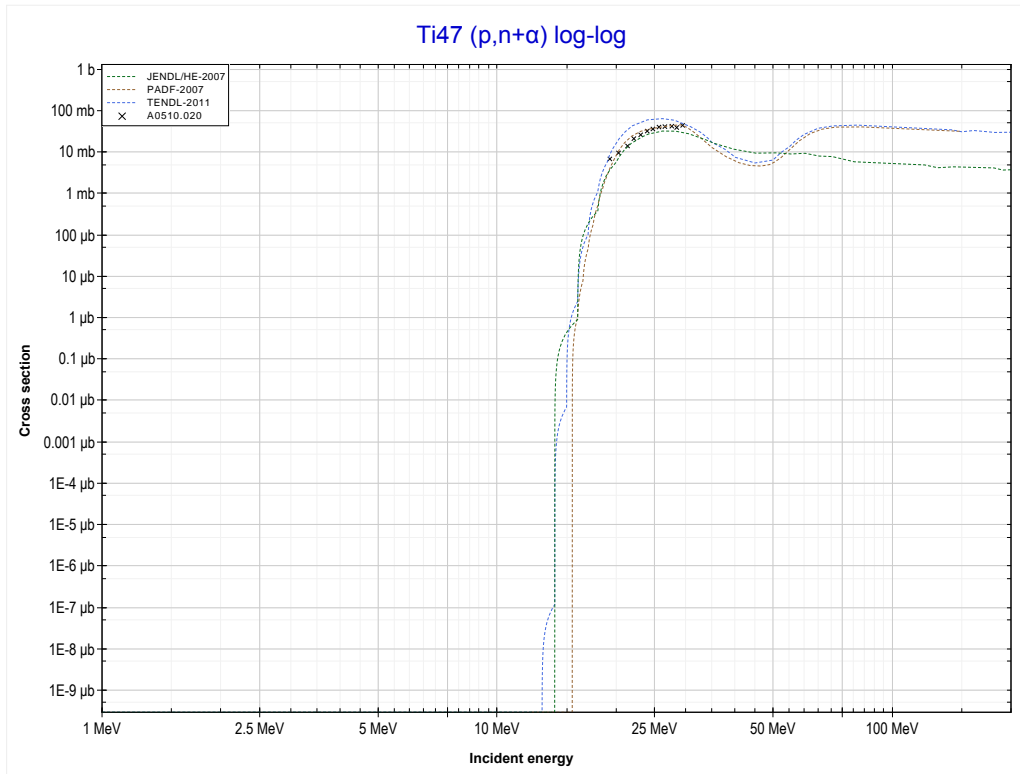
Reaction	Q-Value
Ti46(p, $\alpha$ )Sc43	-3071.45 keV
Ti46(p,p+t)Sc43	-22885.31 keV
Ti46(p,n+He3)Sc43	-23649.06 keV
Ti46(p,2d)Sc43	-26917.97 keV
Ti46(p,n+p+d)Sc43	-29142.54 keV
Ti46(p,2n+2p)Sc43	-31367.10 keV

<< 21-Sc-45	<b>22-Ti-47</b>	22-Ti-48 >>
<< MT107 (p, $\alpha$ )	<b>MT4 (p,n) or MT5 (V47 production)</b>	MT22 (p,n+ $\alpha$ ) >>



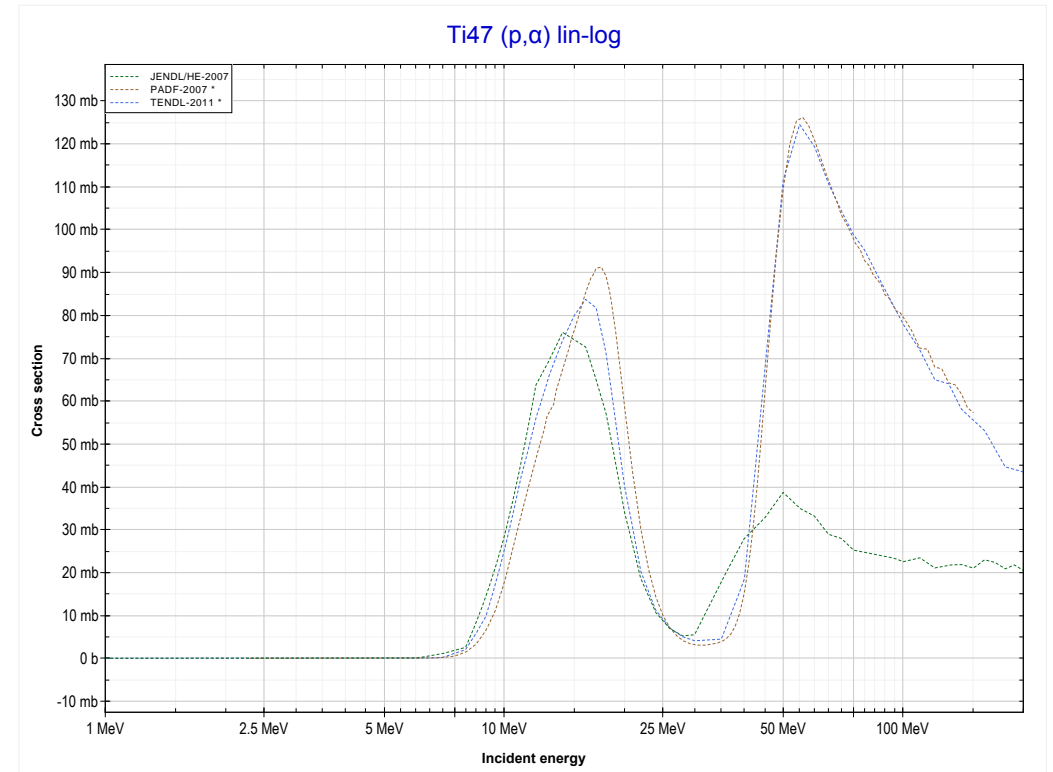
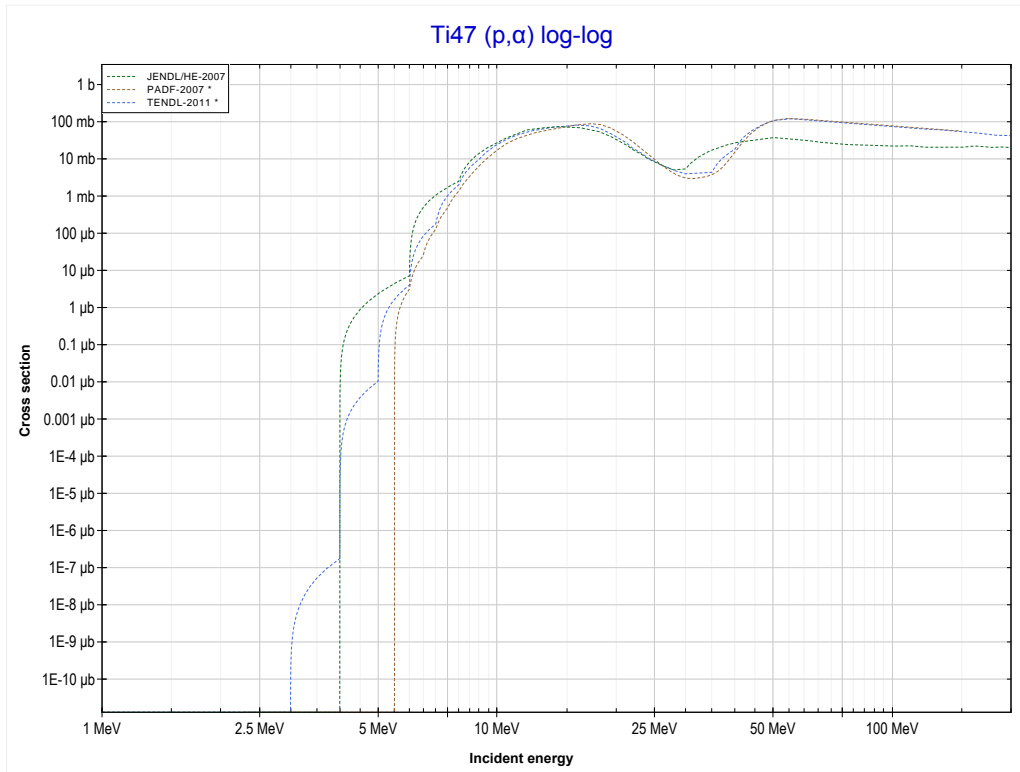
Reaction	Q-Value
Ti47(p,n)V47	-3712.65 keV

<< 7-N-15	<b>22-Ti-47</b>	22-Ti-48 >>
<< MT4 (p,n)	<b>MT22 (p,n+α) or MT5 (Sc43 production)</b>	MT107 (p,α) >>



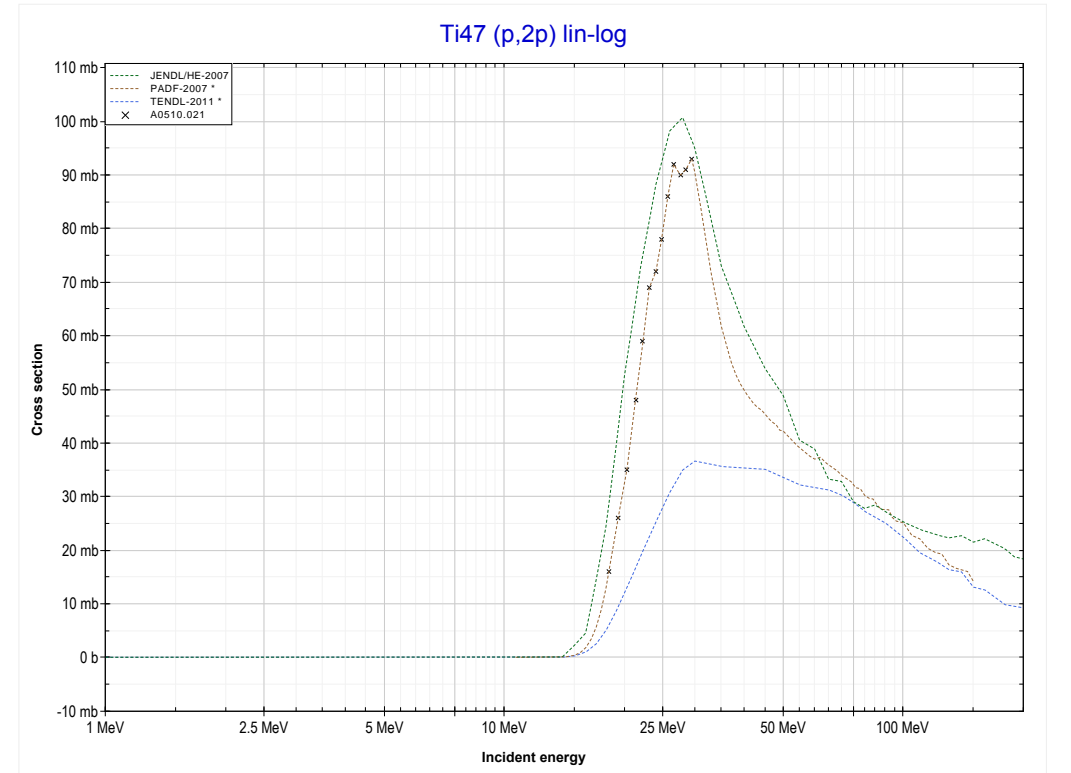
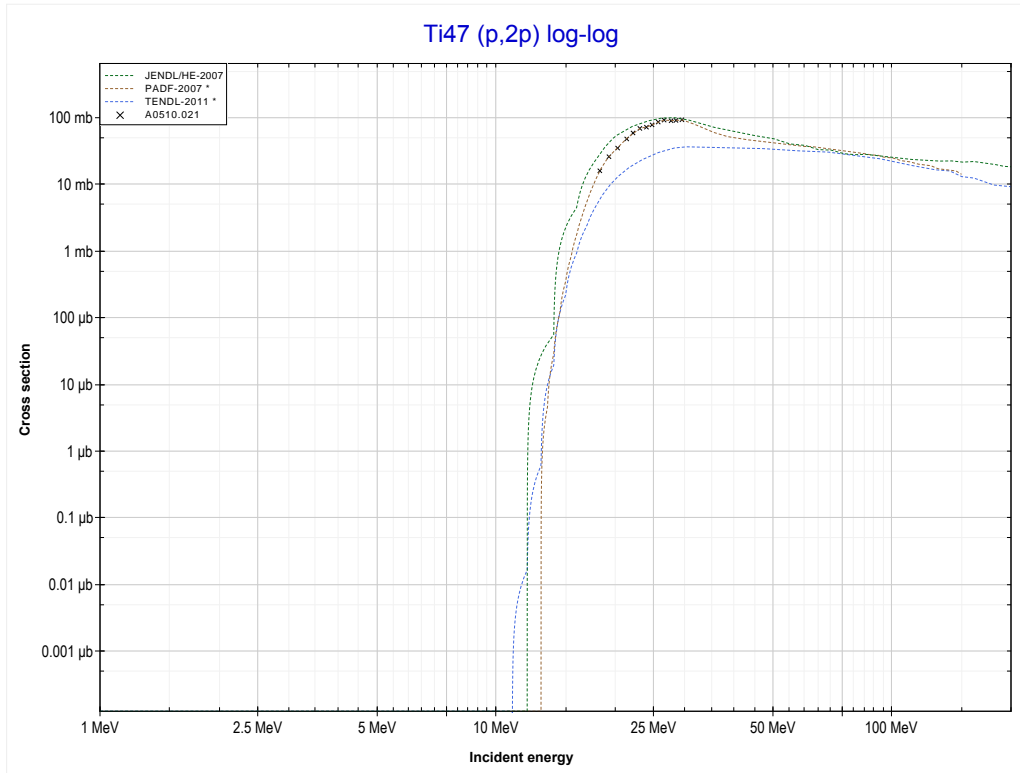
Reaction	Q-Value
Ti47(p,n+α)Sc43	-11951.76 keV
Ti47(p,d+t)Sc43	-29541.06 keV
Ti47(p,n+p+t)Sc43	-31765.62 keV
Ti47(p,2n+He3)Sc43	-32529.38 keV
Ti47(p,n+2d)Sc43	-35798.29 keV
Ti47(p,2n+p+d)Sc43	-38022.86 keV
Ti47(p,3n+2p)Sc43	-40247.42 keV

<< 22-Ti-46	<b>22-Ti-47</b>	22-Ti-49 >>
<< MT22 (p,n+α)	<b>MT107 (p,α) or MT5 (Sc44 production)</b>	MT111 (p,2p) >>



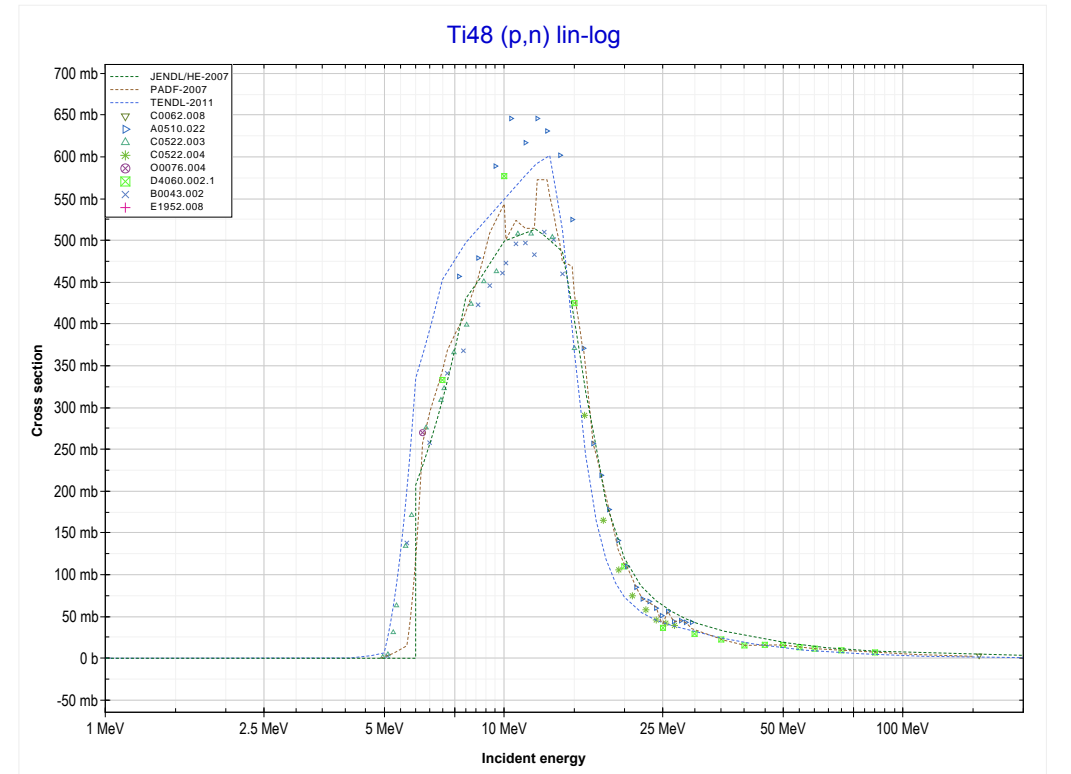
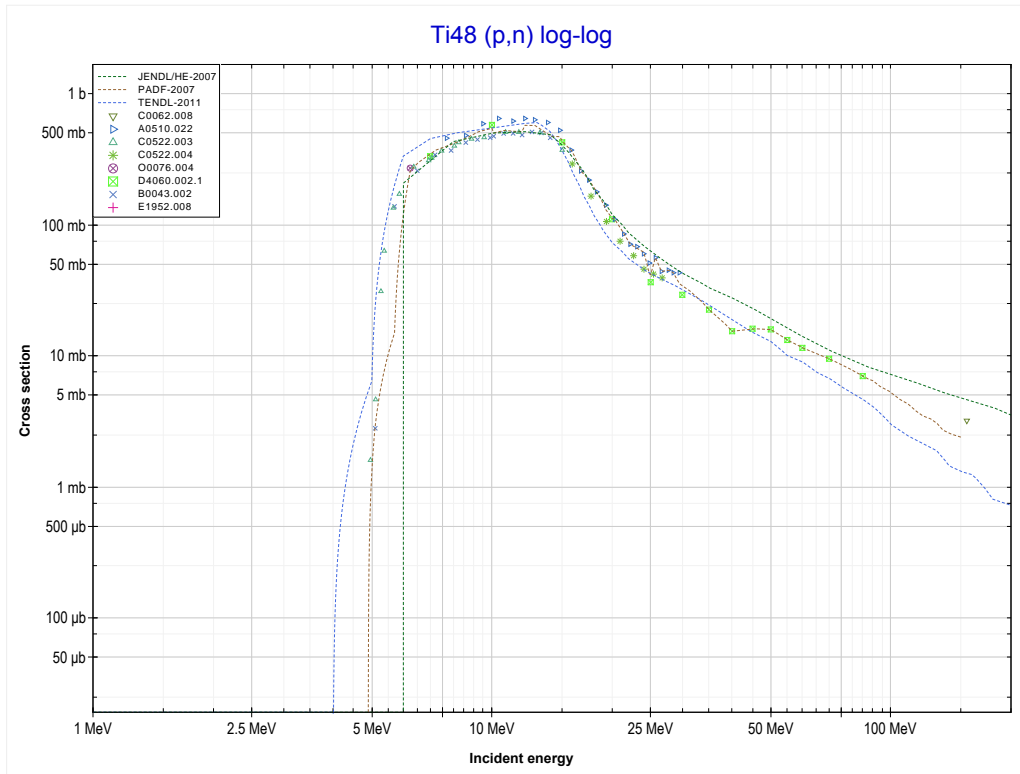
Reaction	Q-Value
Ti47(p,α)Sc44	-2252.25 keV
Ti47(p,p+t)Sc44	-22066.11 keV
Ti47(p,n+He3)Sc44	-22829.86 keV
Ti47(p,2d)Sc44	-26098.77 keV
Ti47(p,n+p+d)Sc44	-28323.34 keV
Ti47(p,2n+2p)Sc44	-30547.90 keV

<< 20-Ca-44	<b>22-Ti-47</b>	22-Ti-48 >>
<< MT107 (p, $\alpha$ )	<b>MT111 (p,2p) or MT5 (Sc46 production)</b>	MT4 (p,n) >>



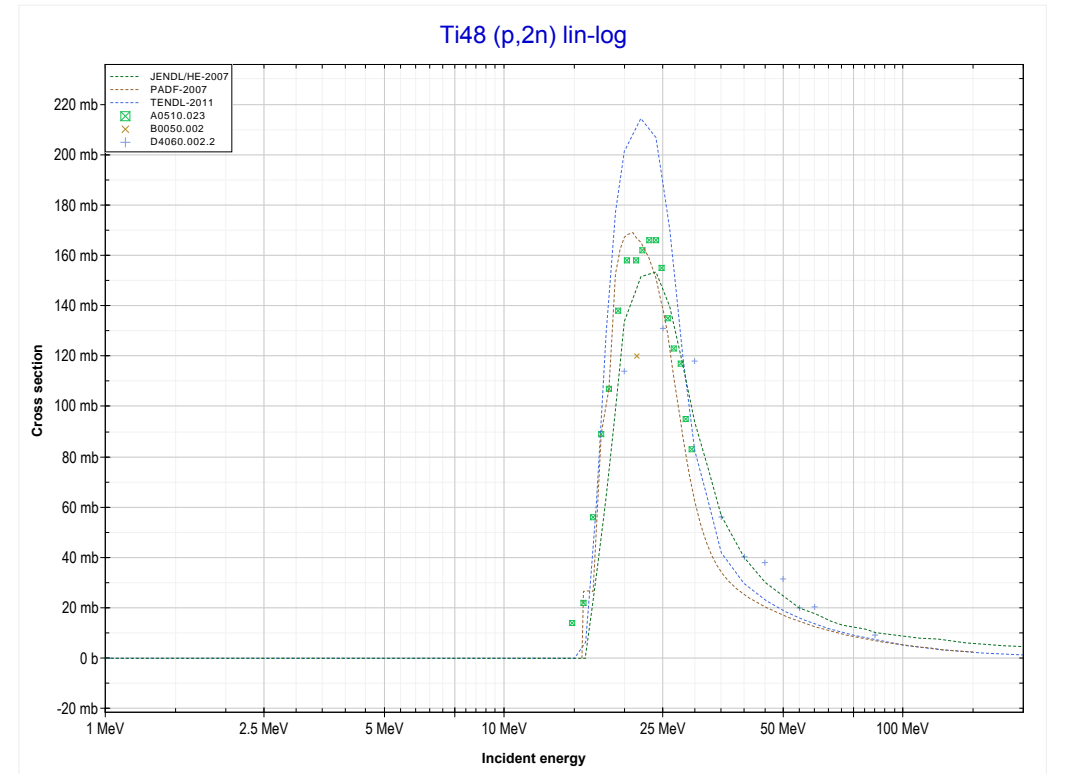
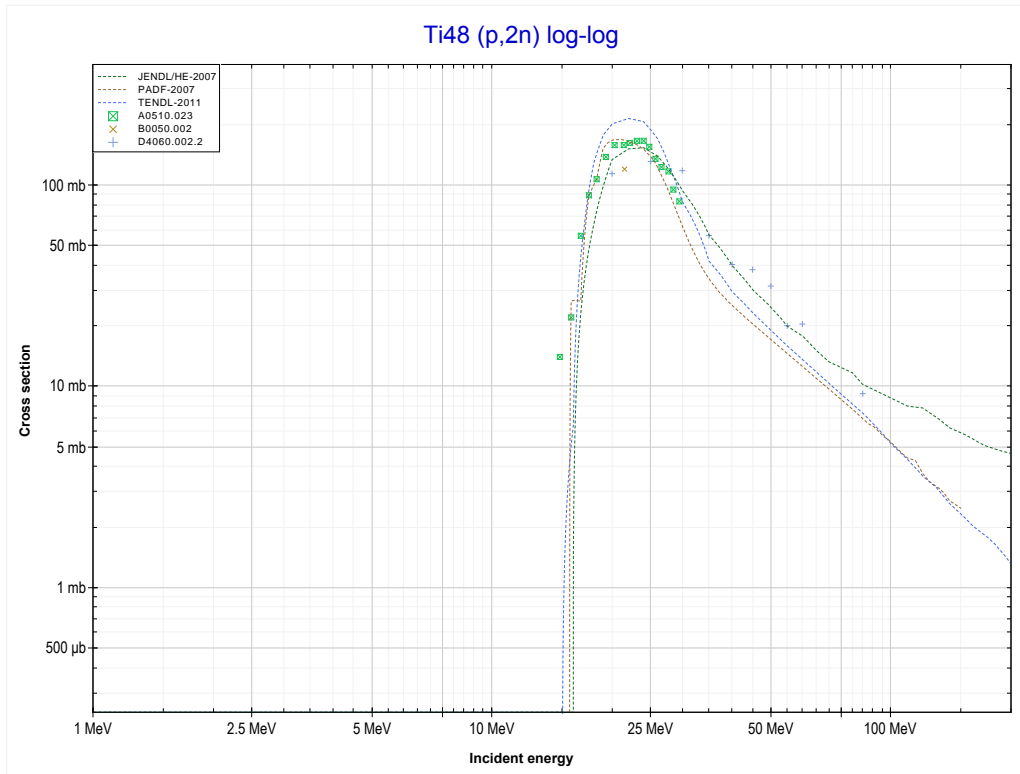
Reaction	Q-Value
Ti47(p,2p)Sc46	-10464.27 keV

<< 22-Ti-47	<b>22-Ti-48</b>	22-Ti-49 >>
<< MT111 (p,2p)	<b>MT4 (p,n) or MT5 (V48 production)</b>	MT16 (p,2n) >>



Reaction	Q-Value
Ti48(p,n)V48	-4794.65 keV

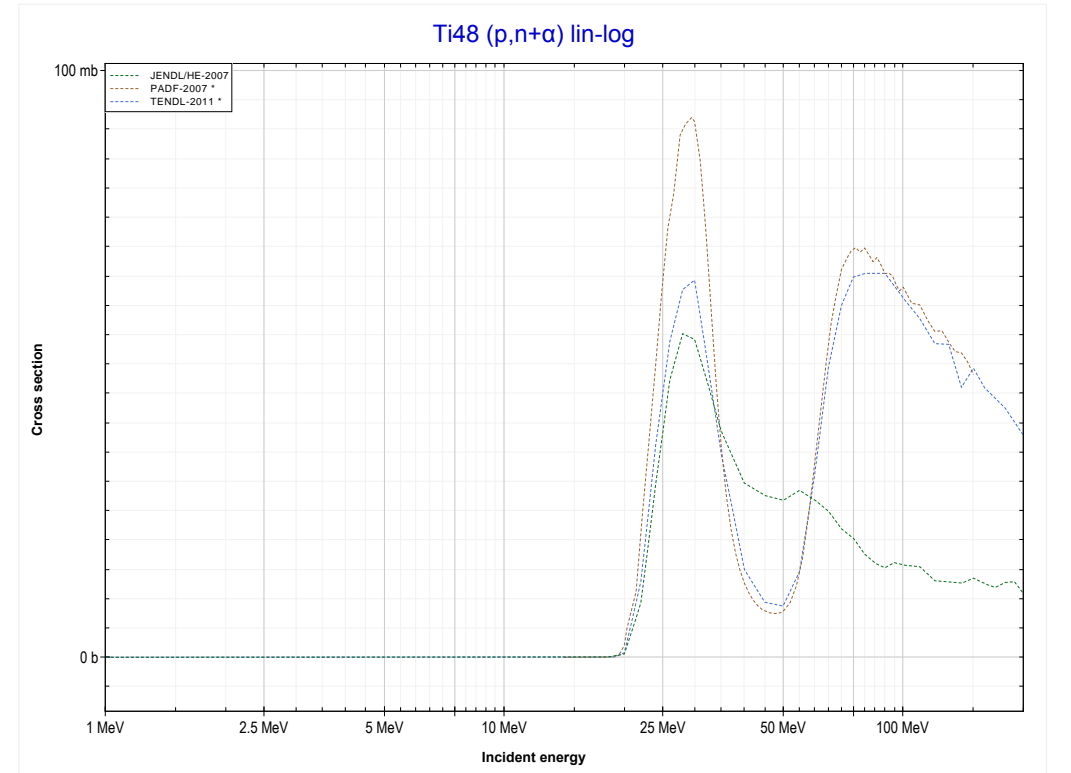
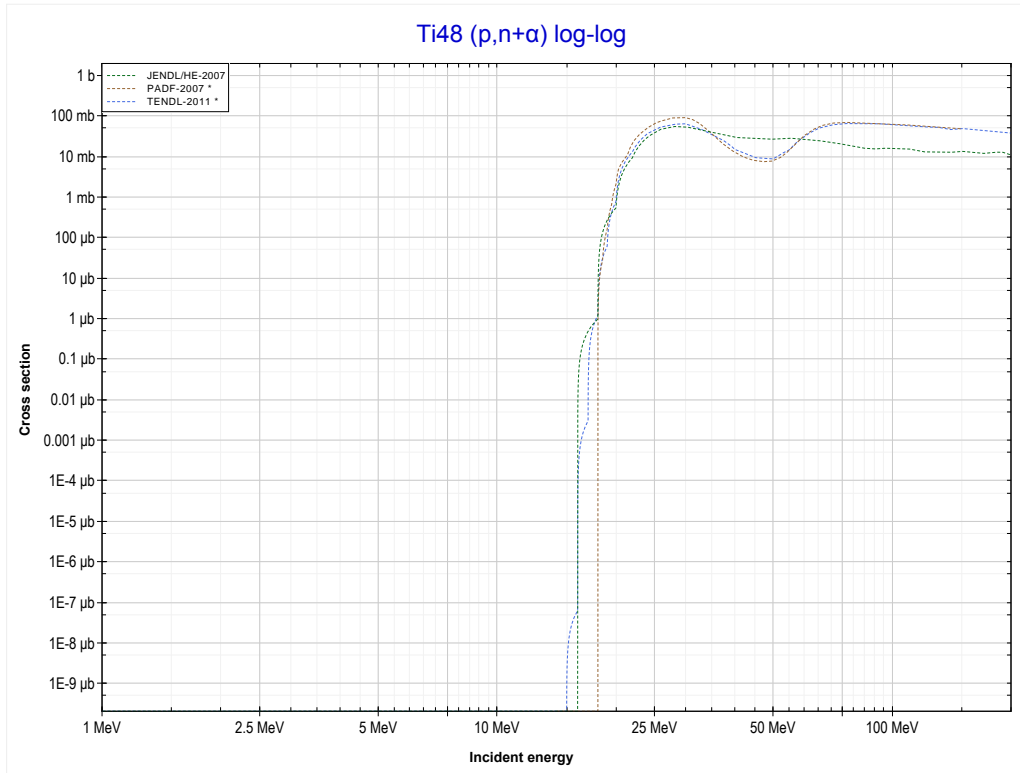
<< 21-Sc-45	<b>22-Ti-48</b>	22-Ti-49 >>
<< MT4 (p,n)	<b>MT16 (p,2n) or MT5 (V47 production)</b>	MT22 (p,n+α) >>



Reaction	Q-Value
Ti48(p,2n)V47	-15339.26 keV

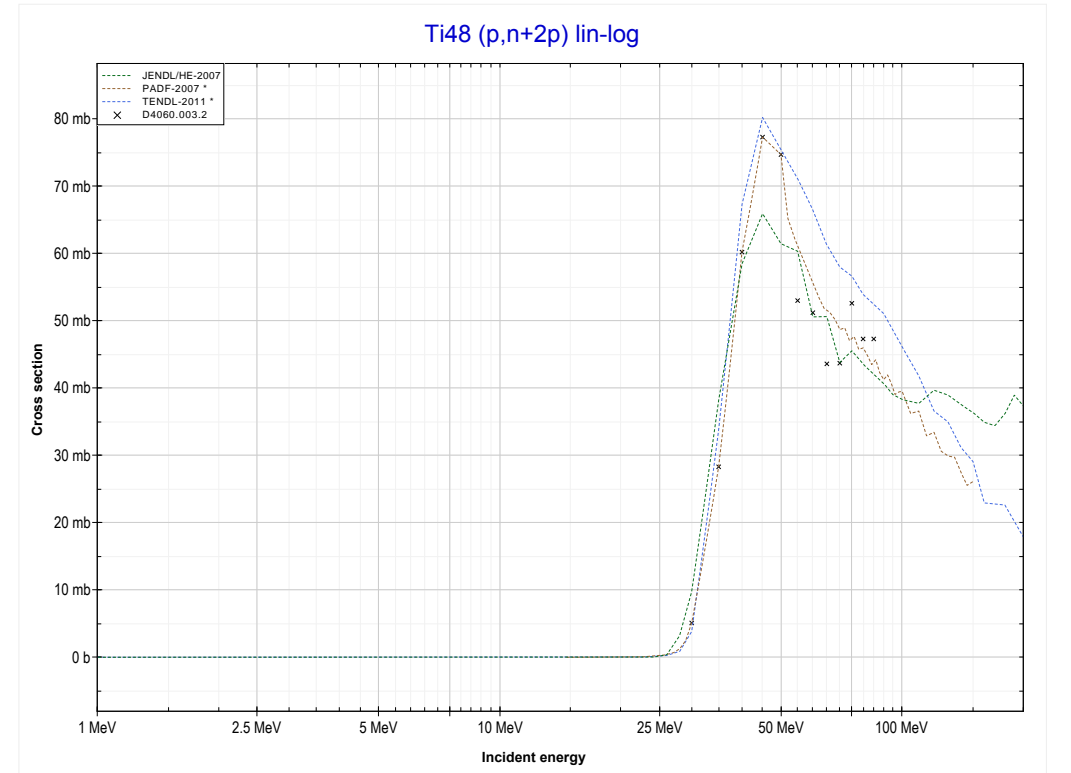
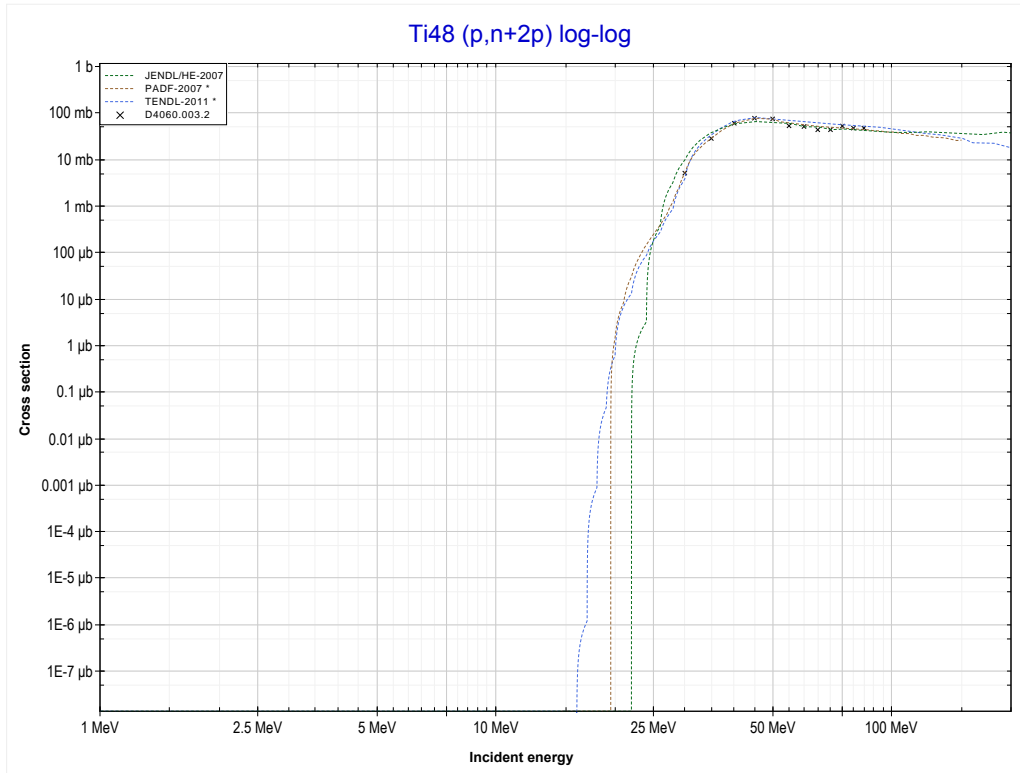


<< 22-Ti-47	<b>22-Ti-48</b>	22-Ti-50 >>
<< MT16 (p,2n)	<b>MT22 (p,n+α) or MT5 (Sc44 production)</b>	MT44 (p,n+2p) >>



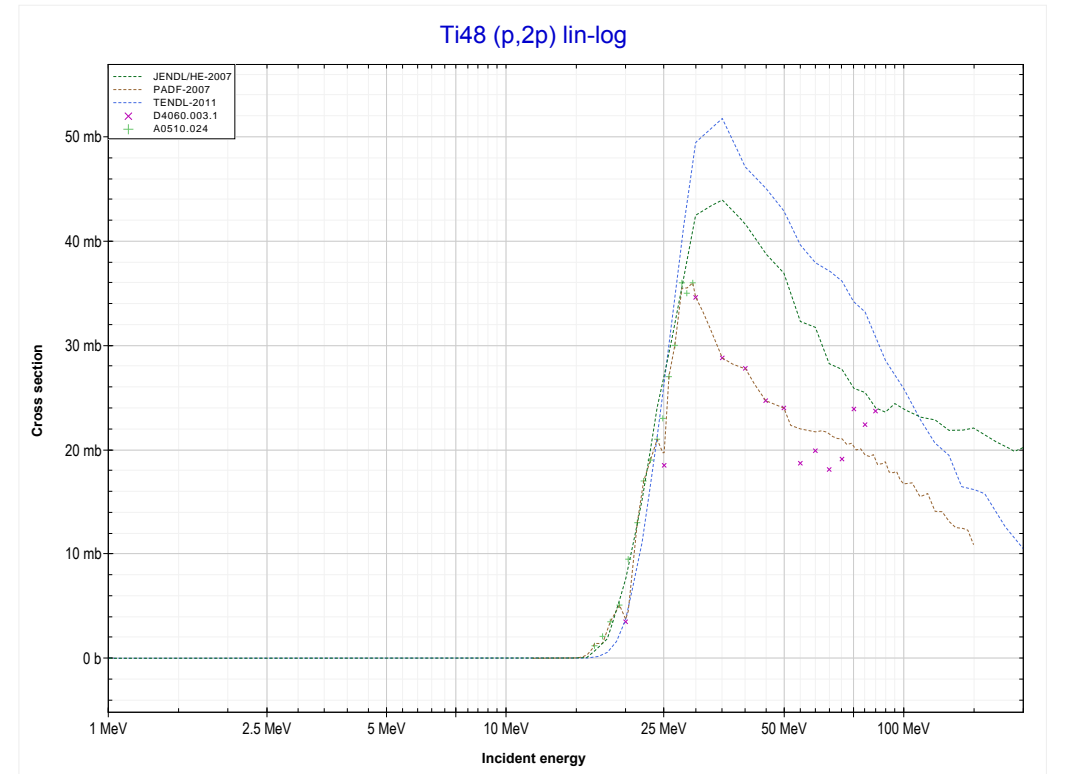
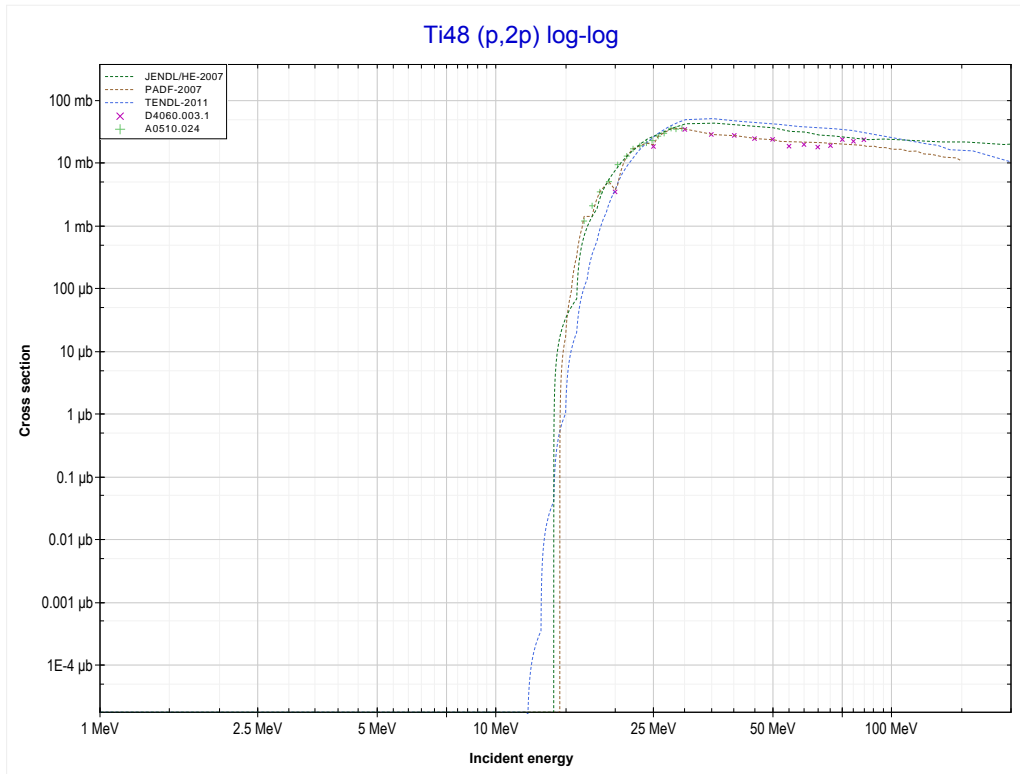
Reaction	Q-Value
Ti48(p,n+α)Sc44	-13878.86 keV
Ti48(p,d+t)Sc44	-31468.16 keV
Ti48(p,n+p+t)Sc44	-33692.72 keV
Ti48(p,2n+He3)Sc44	-34456.48 keV
Ti48(p,n+2d)Sc44	-37725.39 keV
Ti48(p,2n+p+d)Sc44	-39949.96 keV
Ti48(p,3n+2p)Sc44	-42174.52 keV

<< 22-Ti-46	<b>22-Ti-48</b>	22-Ti-50 >>
<< MT22 (p,n+α)	<b>MT44 (p,n+2p) or MT5 (Sc46 production)</b>	MT111 (p,2p) >>



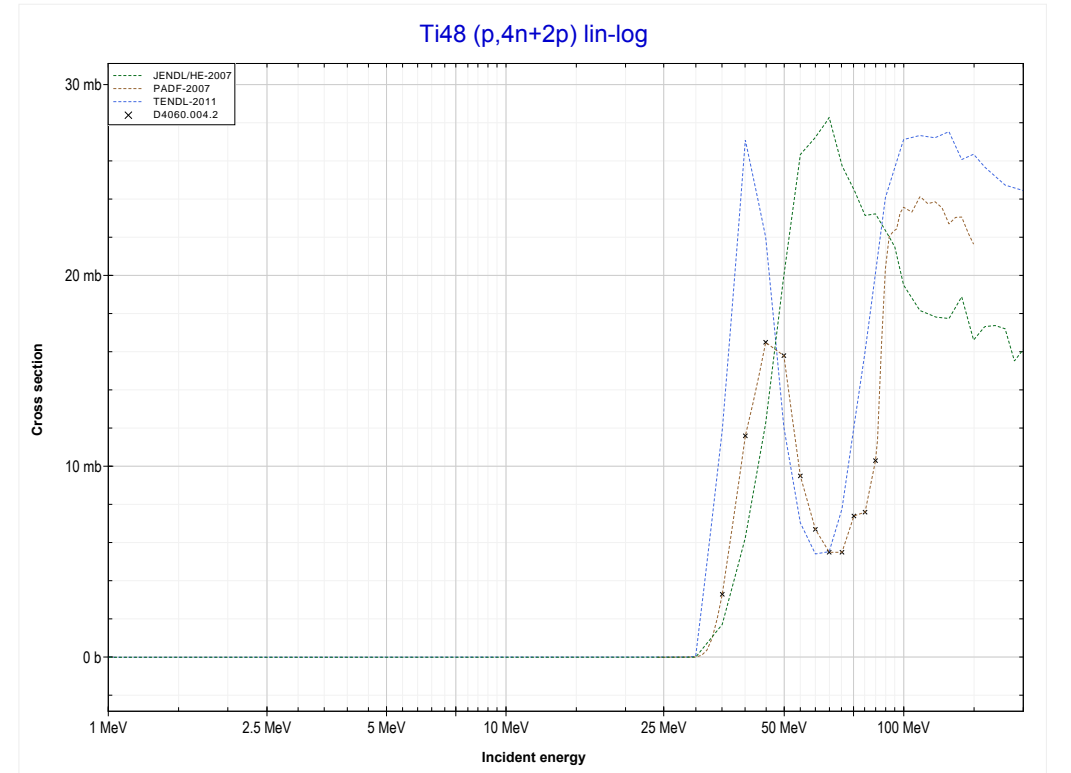
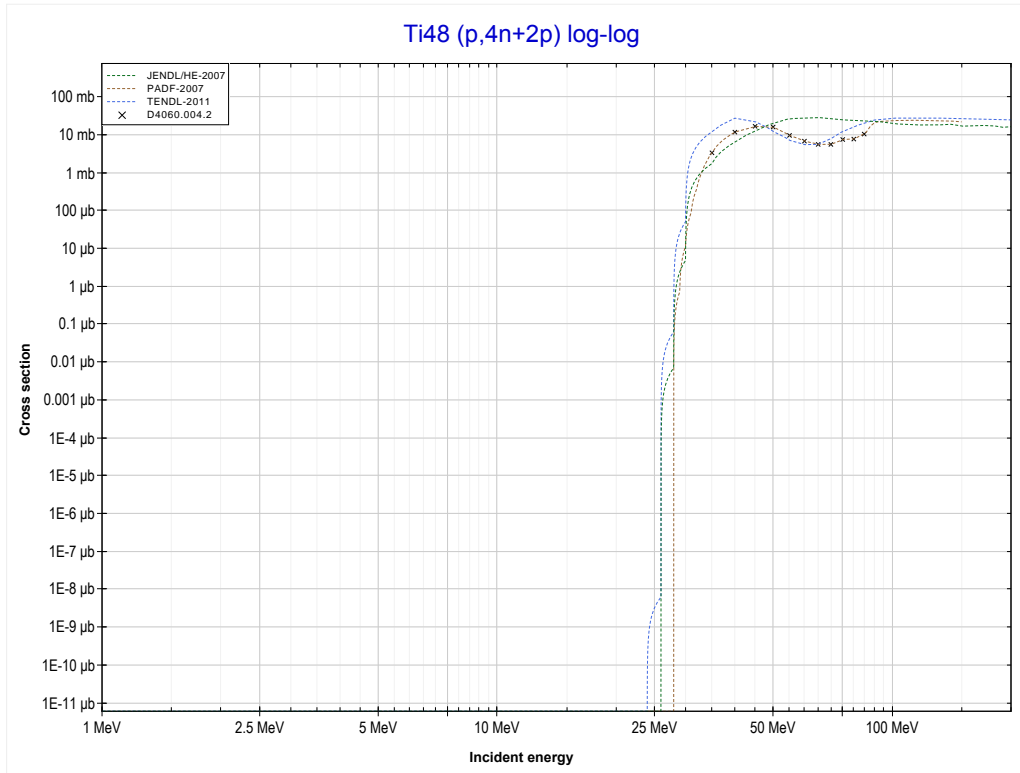
Reaction	Q-Value
Ti48(p,He3)Sc46	-14372.84 keV
Ti48(p,p+d)Sc46	-19866.32 keV
Ti48(p,n+2p)Sc46	-22090.89 keV

<< 22-Ti-47	<b>22-Ti-48</b>	22-Ti-49 >>
<< MT44 (p,n+2p)	<b>MT111 (p,2p) or MT5 (Sc47 production)</b>	MT194 (p,4n+2p) >>



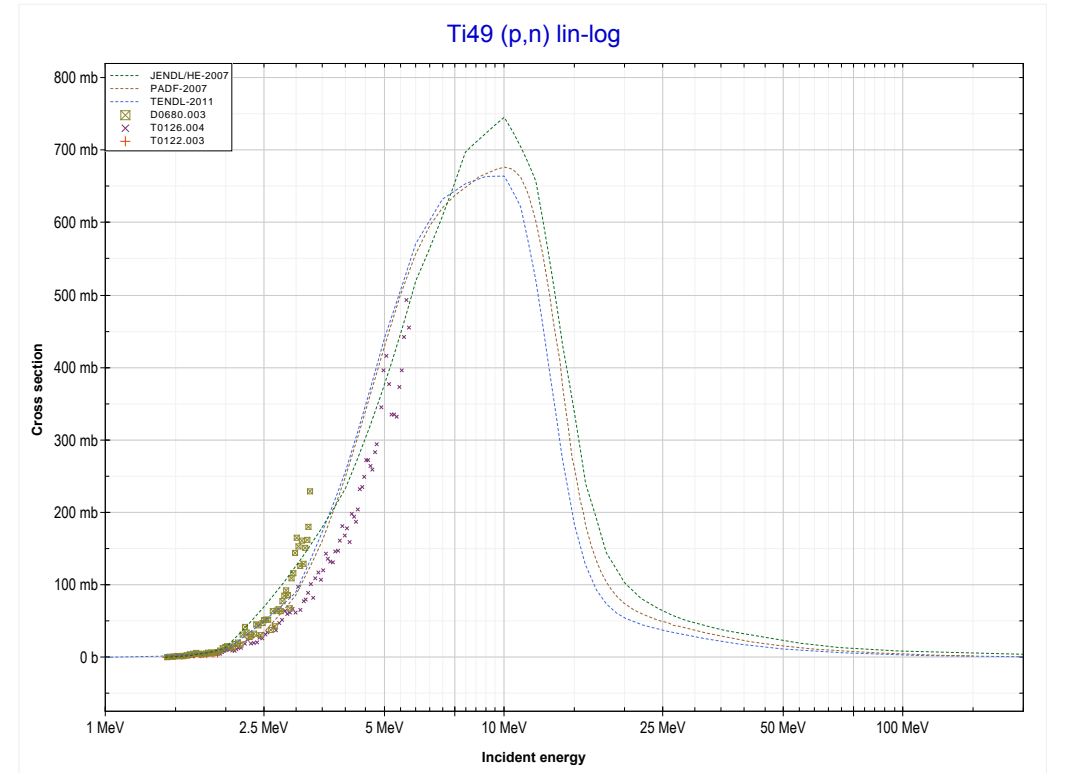
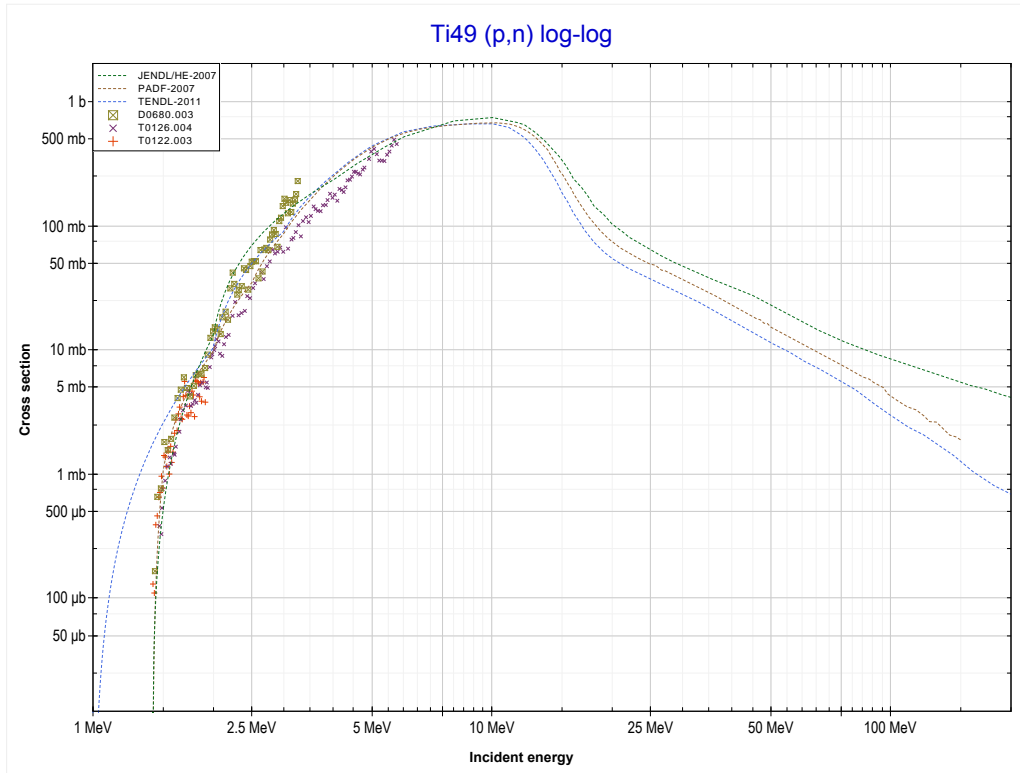
Reaction	Q-Value
Ti48(p,2p)Sc47	-11444.57 keV

	<b>22-Ti-48</b>	90-Th-232 >>
<< MT111 (p,2p)	<b>MT194 (p,4n+2p) or MT5 (Sc43 production)</b>	MT4 (p,n) >>



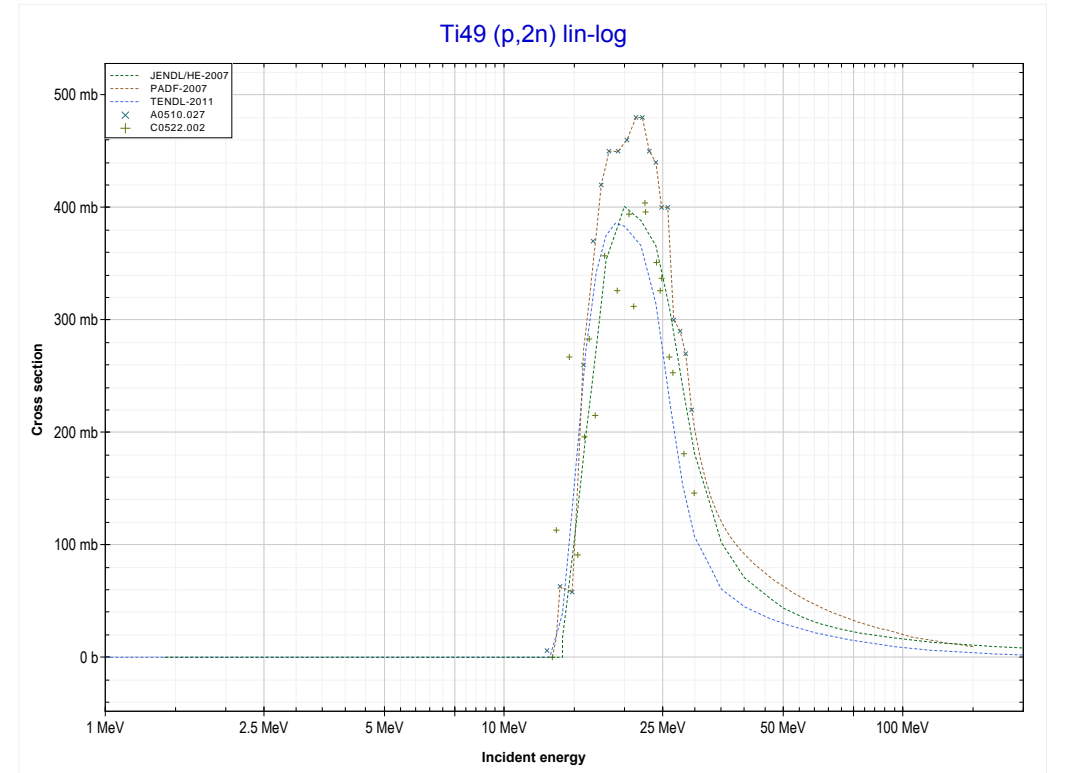
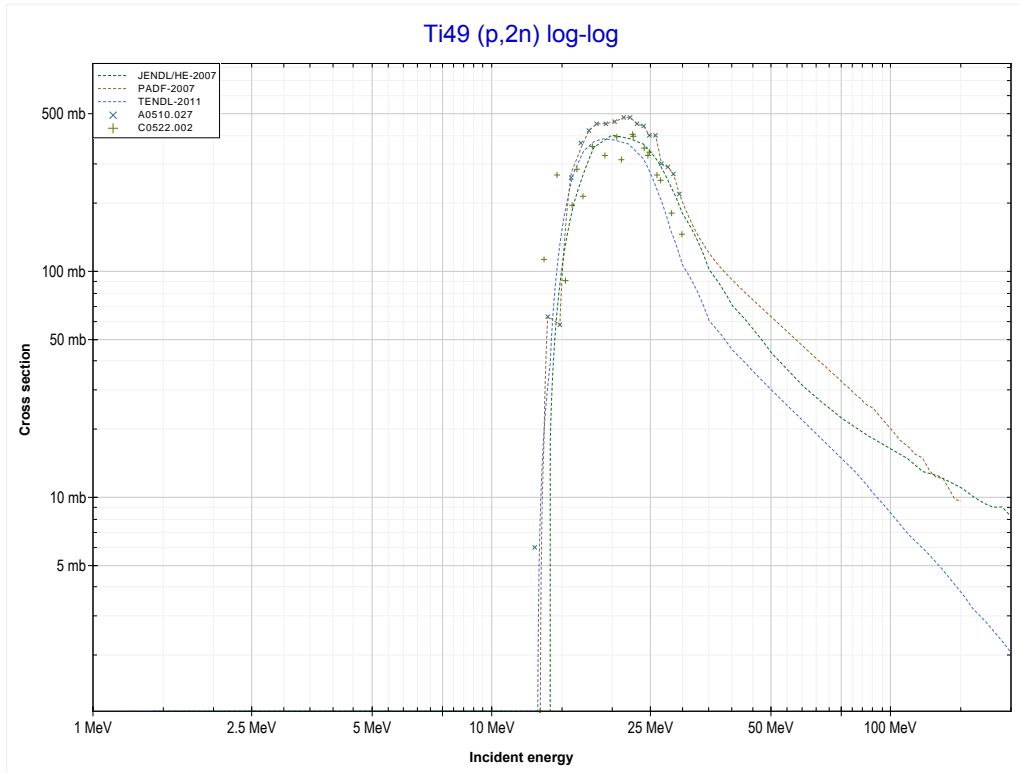
Reaction	Q-Value
Ti48(p,2n+α)Sc43	-23578.38 keV
Ti48(p,2t)Sc43	-34910.44 keV
Ti48(p,n+d+t)Sc43	-41167.67 keV
Ti48(p,2n+p+t)Sc43	-43392.24 keV
Ti48(p,3n+He3)Sc43	-44156.00 keV
Ti48(p,2n+2d)Sc43	-47424.91 keV
Ti48(p,3n+p+d)Sc43	-49649.47 keV
Ti48(p,4n+2p)Sc43	-51874.04 keV

<< 22-Ti-48	<b>22-Ti-49</b>	22-Ti-50 >>
<< MT194 (p,4n+2p)	<b>MT4 (p,n) or MT5 (V49 production)</b>	MT16 (p,2n) >>



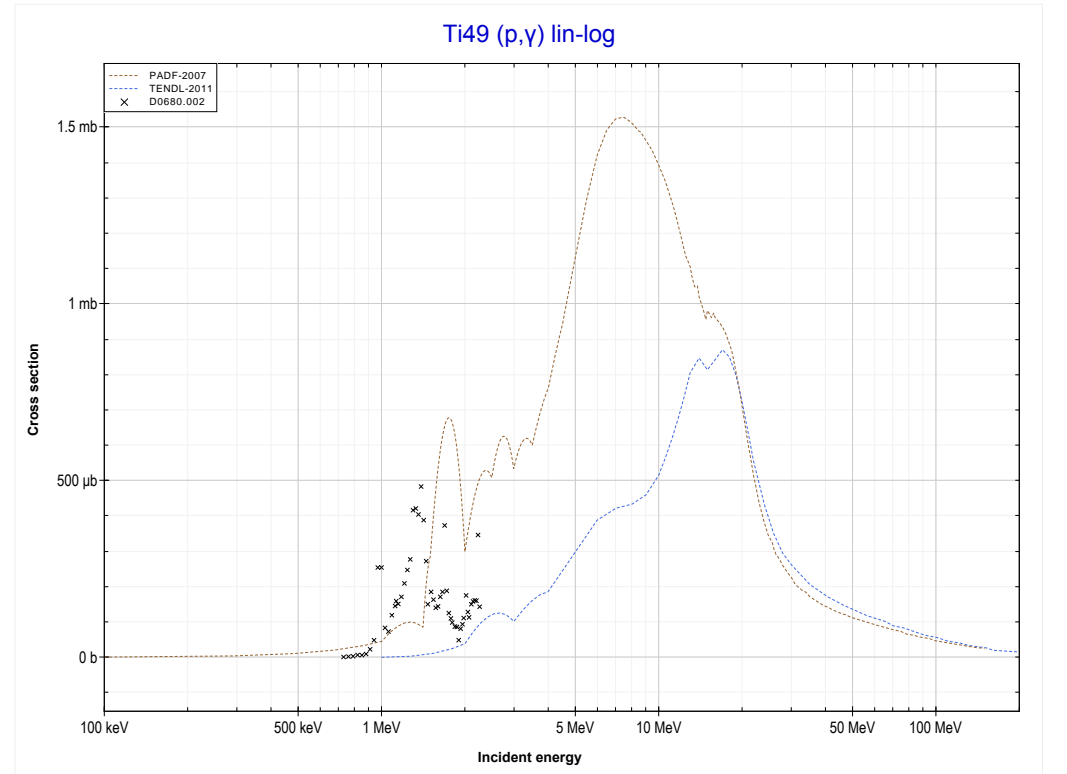
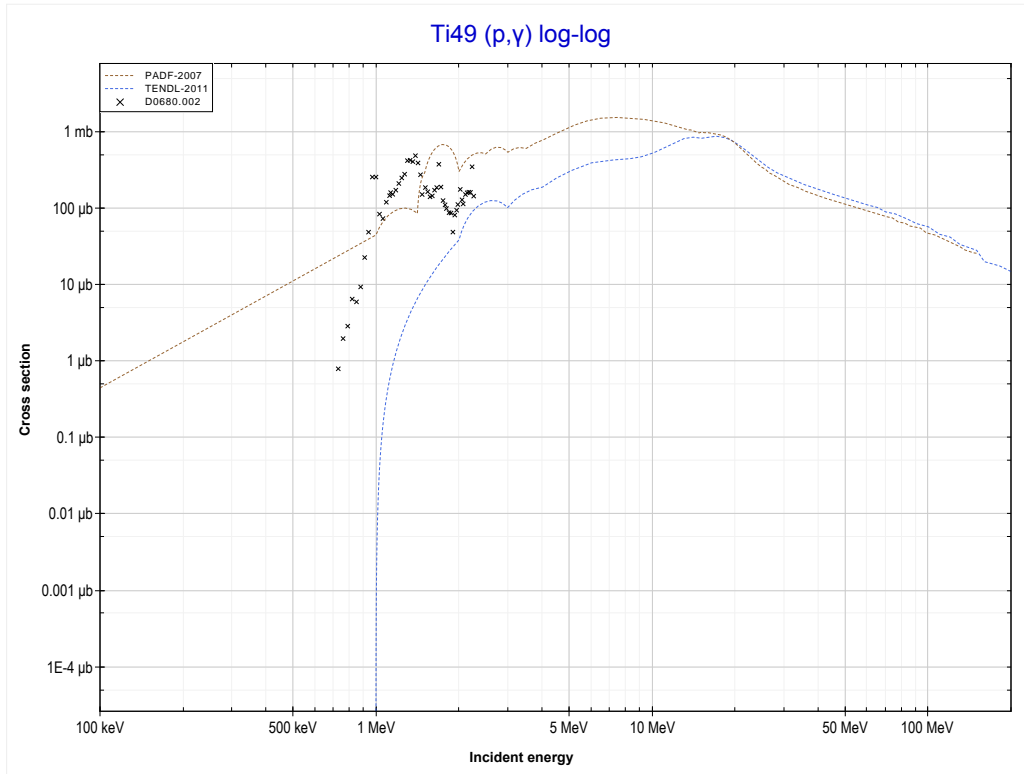
Reaction	Q-Value
Ti49(p,n)V49	-1384.25 keV

<< 22-Ti-48	<b>22-Ti-49</b>	24-Cr-52 >>
<< MT4 (p,n)	<b>MT16 (p,2n) or MT5 (V48 production)</b>	MT102 (p, $\gamma$ ) >>



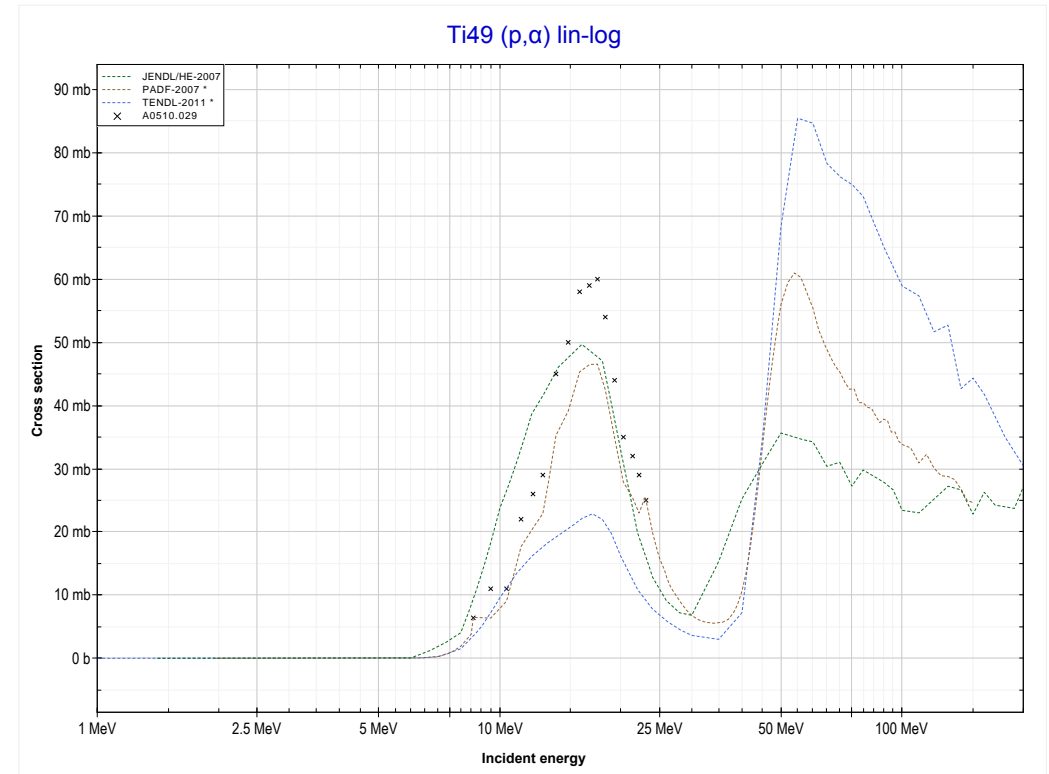
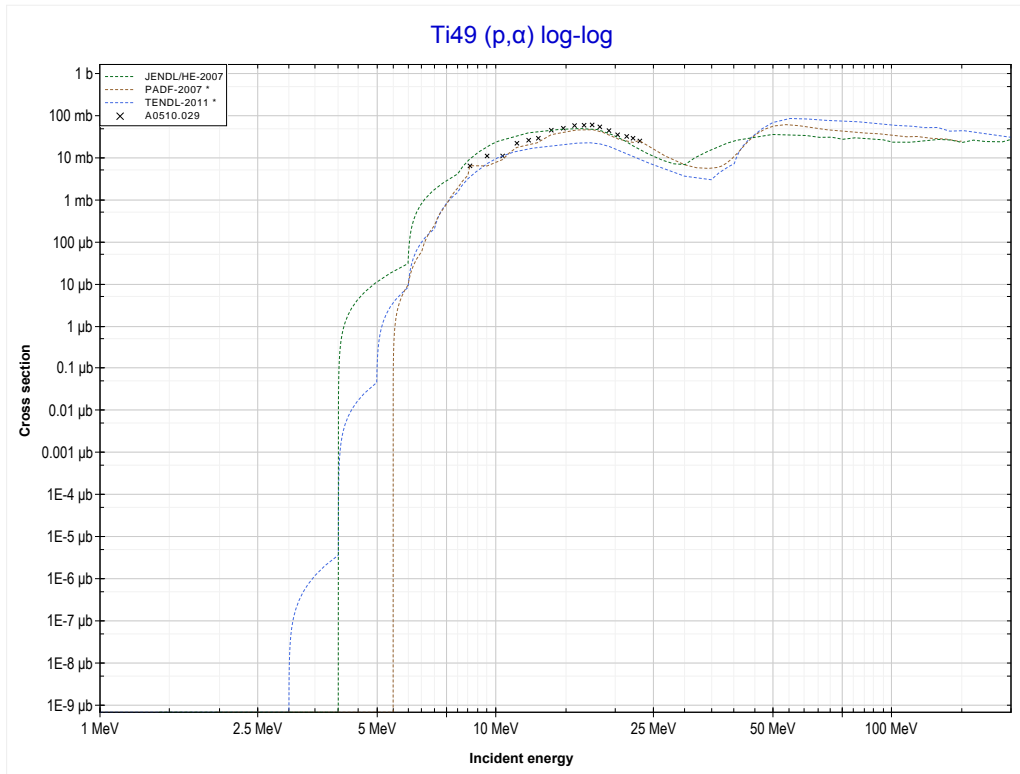
Reaction	Q-Value
Ti49(p,2n)V48	-12937.06 keV

<< 20-Ca-48	<b>22-Ti-49</b>	22-Ti-50 >>
<< MT16 (p,2n)	<b>MT102 (p,<math>\gamma</math>) or MT5 (V50 production)</b>	MT107 (p, $\alpha$ ) >>



Reaction	Q-Value
Ti49(p, $\gamma$ )V50	7951.77 keV

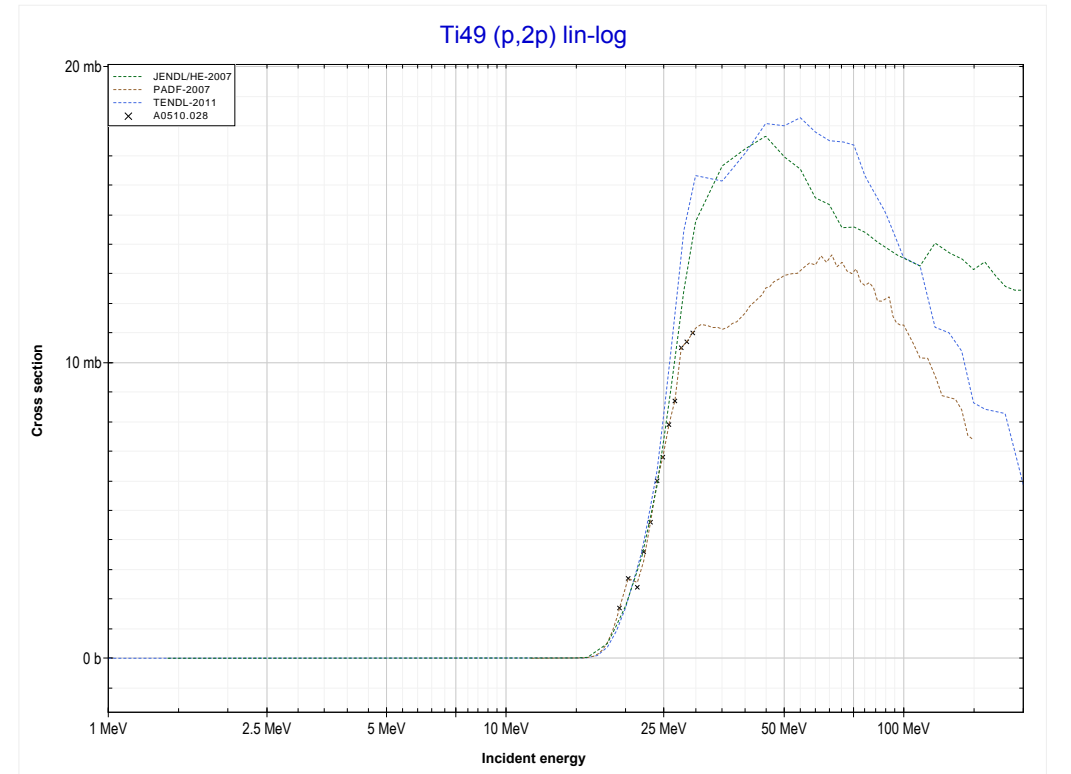
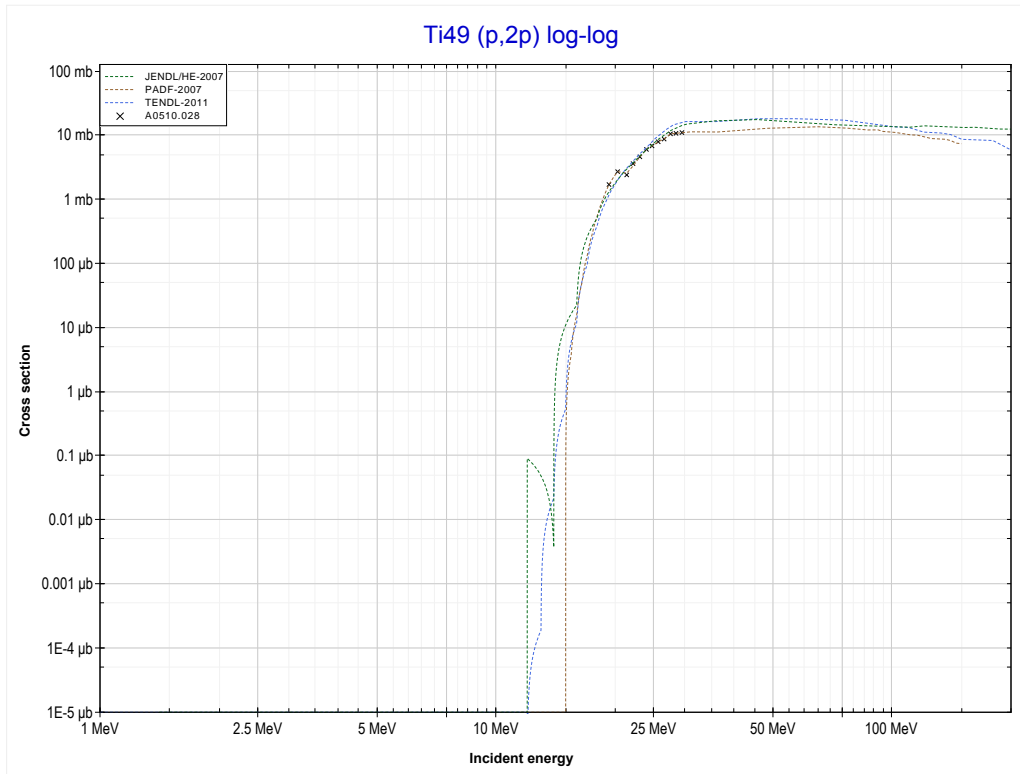
<< 22-Ti-47	<b>22-Ti-49</b>	22-Ti-50 >>
<< MT102 (p, $\gamma$ )	<b>MT107 (p,<math>\alpha</math>) or MT5 (Sc46 production)</b>	MT111 (p,2p) >>



Reaction	Q-Value
Ti49(p, $\alpha$ )Sc46	-1937.65 keV
Ti49(p,p+t)Sc46	-21751.51 keV
Ti49(p,n+He3)Sc46	-22515.26 keV
Ti49(p,2d)Sc46	-25784.17 keV
Ti49(p,n+p+d)Sc46	-28008.74 keV
Ti49(p,2n+2p)Sc46	-30233.30 keV

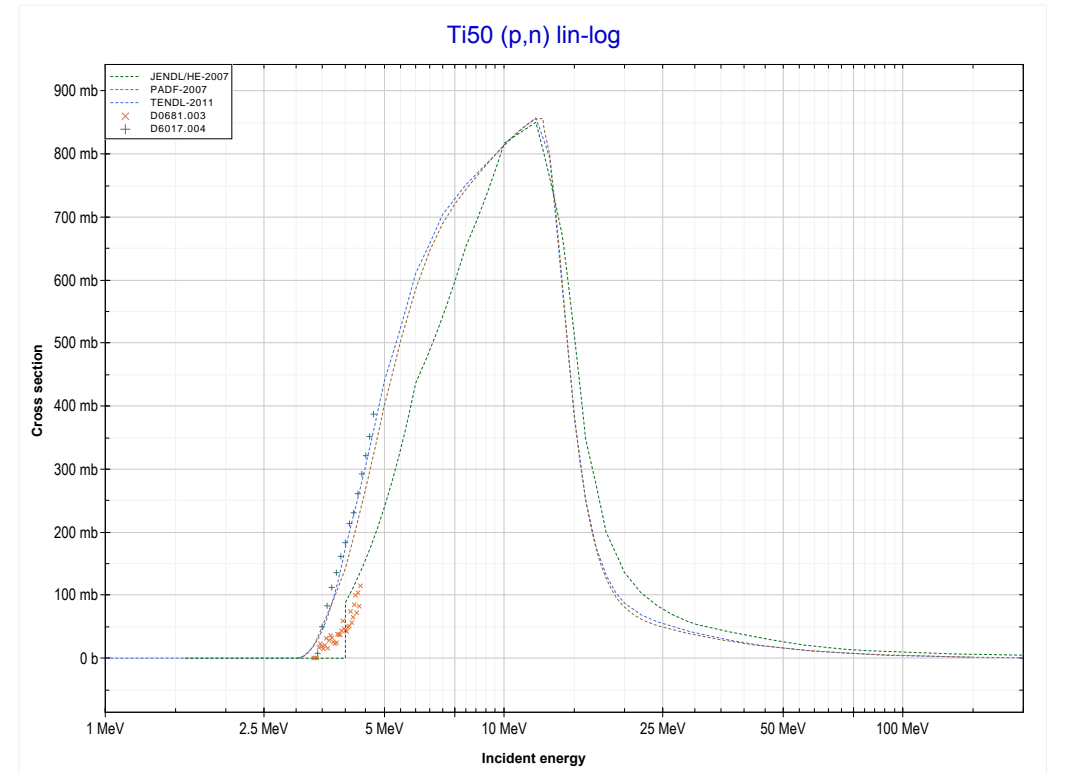
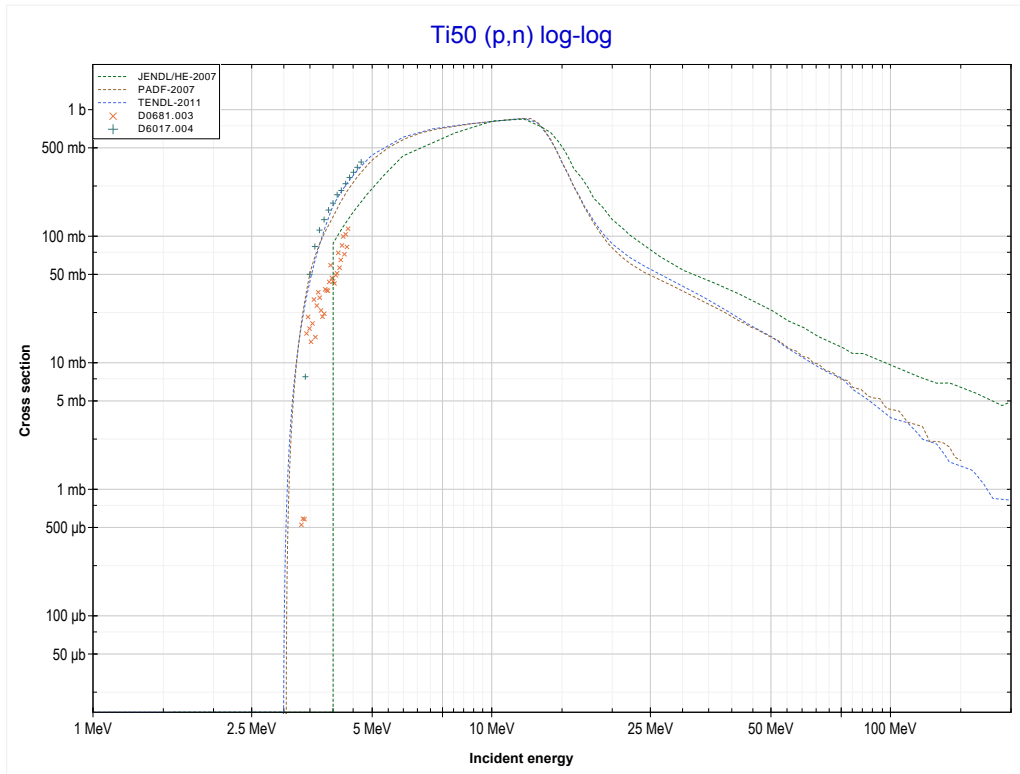


<< 22-Ti-48	<b>22-Ti-49</b>	24-Cr-50 >>
<< MT107 (p, $\alpha$ )	<b>MT111 (p,2p) or MT5 (Sc48 production)</b>	MT4 (p,n) >>



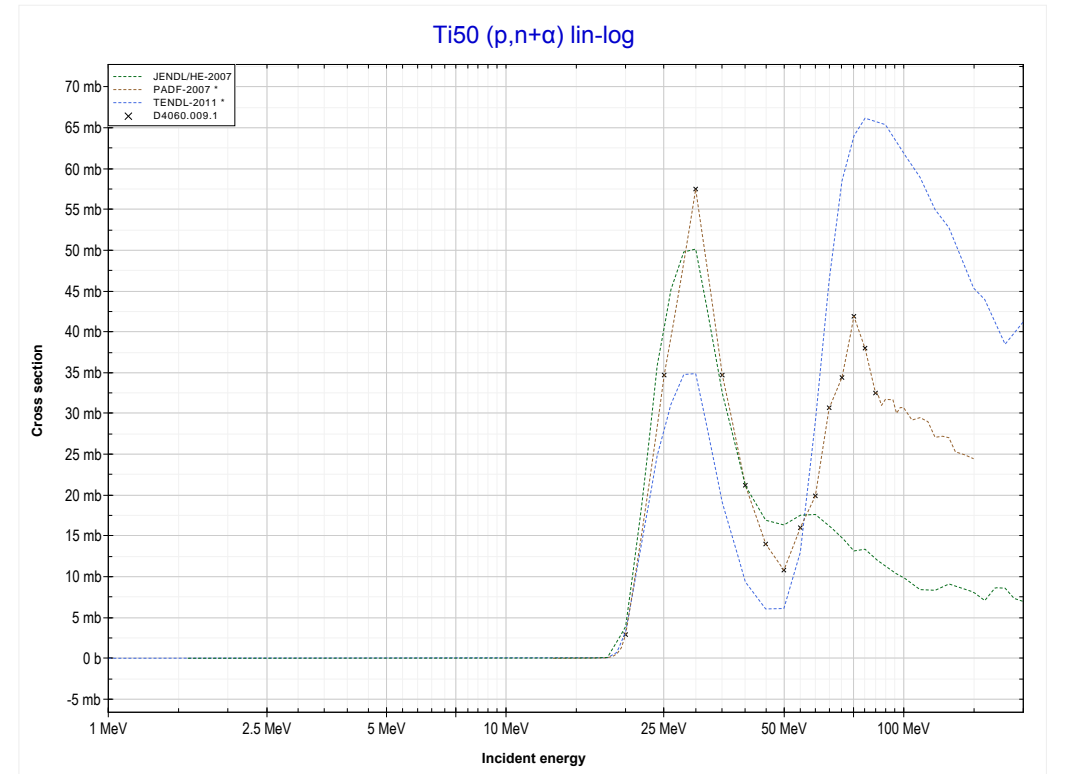
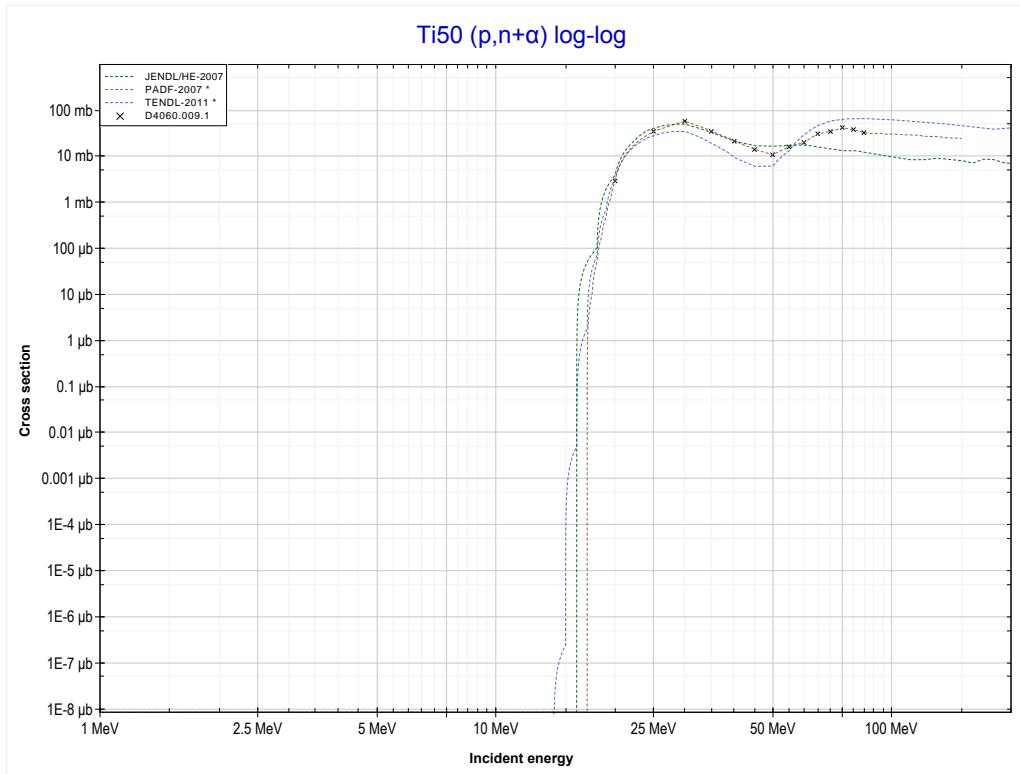
Reaction	Q-Value
Ti49(p,2p)Sc48	-11351.77 keV

<< 22-Ti-49	<b>22-Ti-50</b>	23-V-51 >>
<< MT111 (p,2p)	<b>MT4 (p,n) or MT5 (V50 production)</b>	MT22 (p,n+α) >>



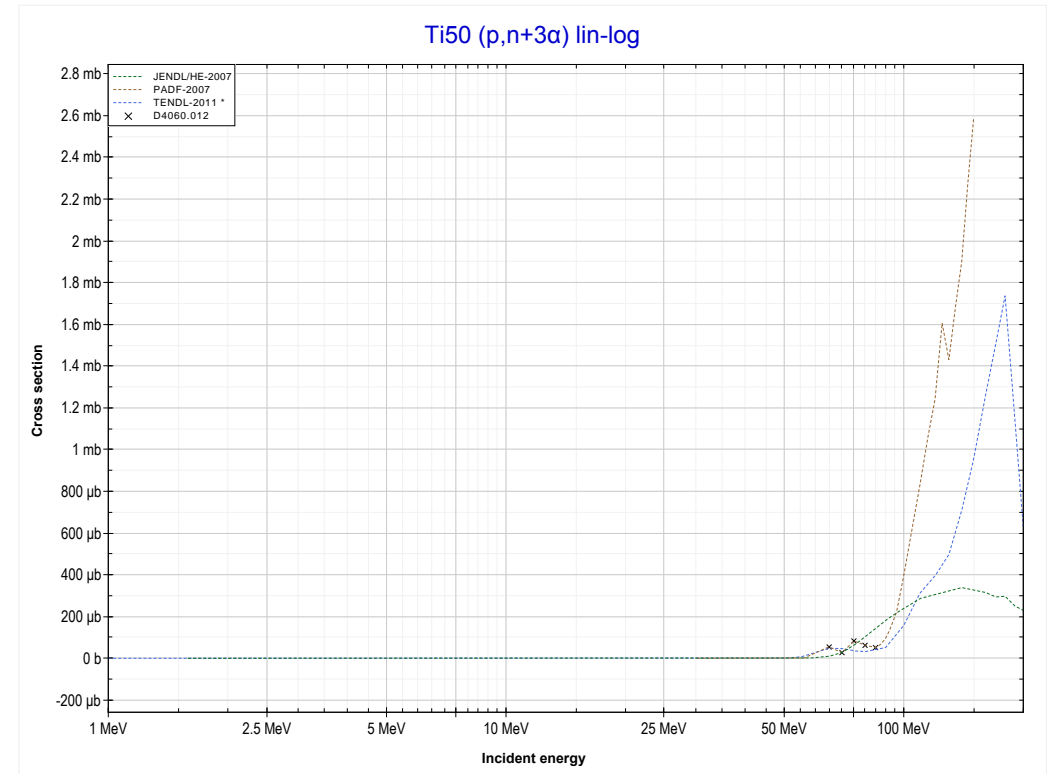
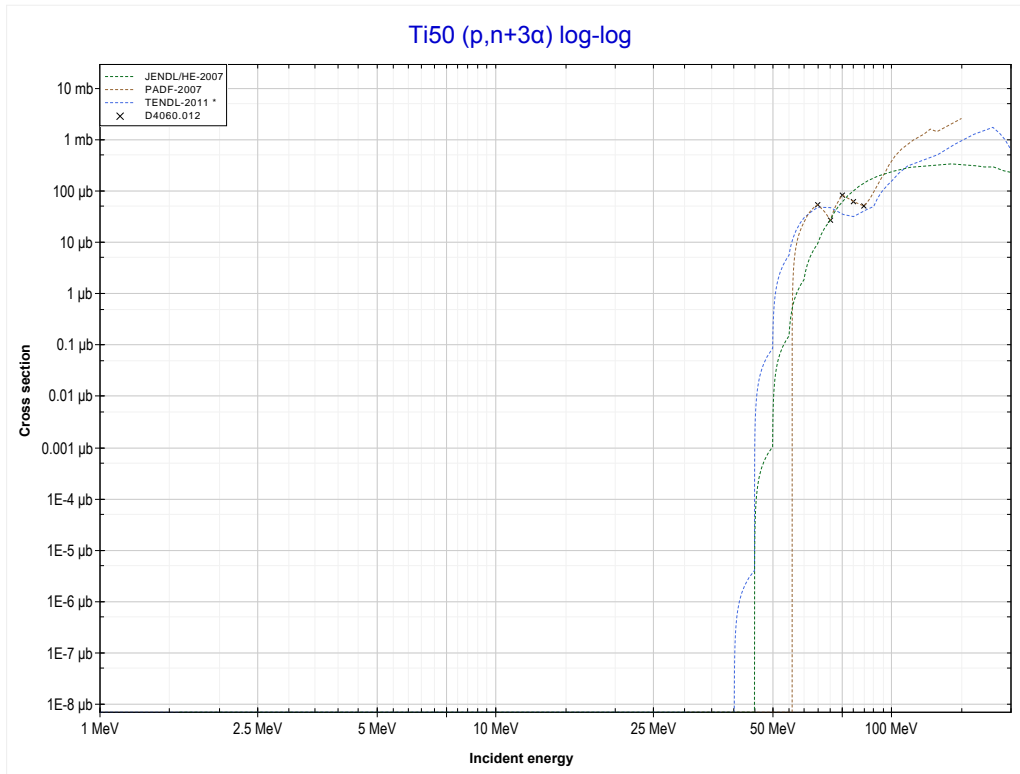
Reaction	Q-Value
Ti50(p,n)V50	-2987.45 keV

<< 22-Ti-48	<b>22-Ti-50</b>	24-Cr-52 >>
<< MT4 (p,n)	<b>MT22 (p,n+α) or MT5 (Sc46 production)</b>	MT23 (p,n+3α) >>



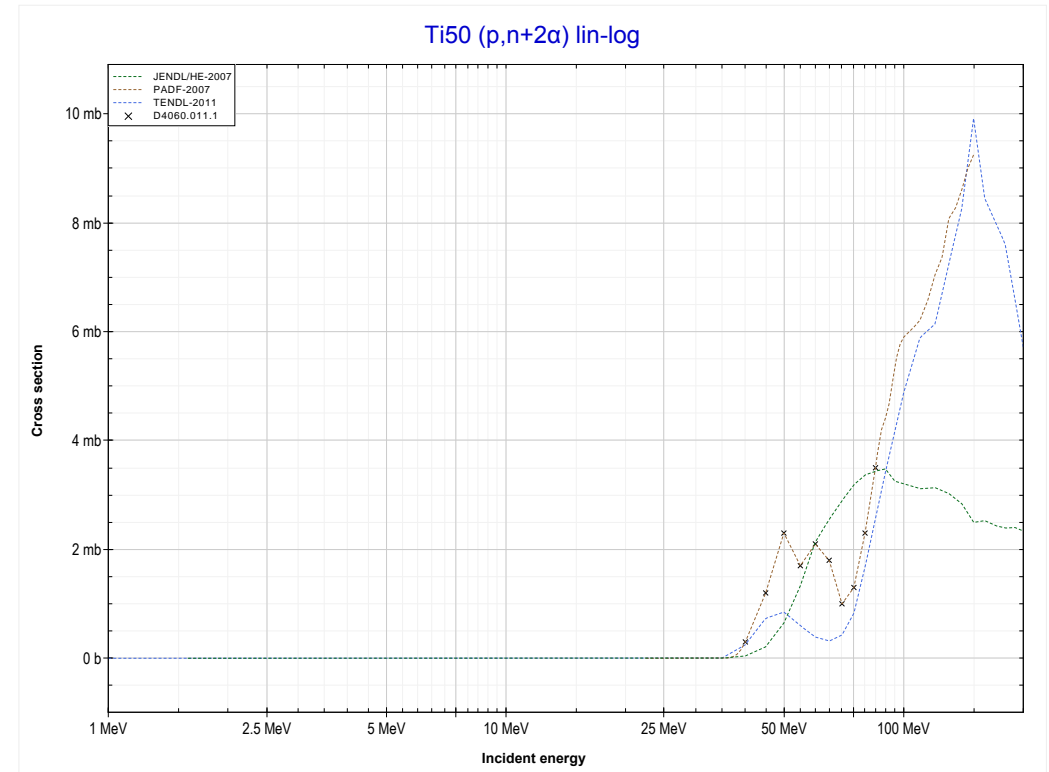
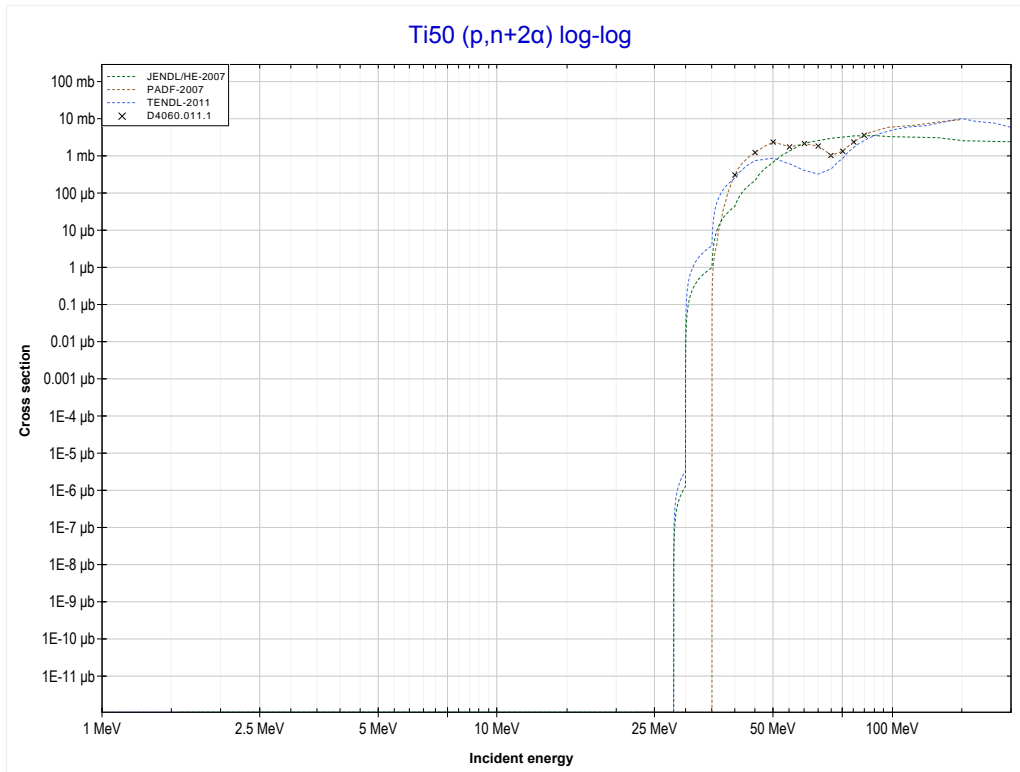
Reaction	Q-Value
Ti50(p,n+α)Sc46	-12876.86 keV
Ti50(p,d+t)Sc46	-30466.16 keV
Ti50(p,n+p+t)Sc46	-32690.72 keV
Ti50(p,2n+He3)Sc46	-33454.48 keV
Ti50(p,n+2d)Sc46	-36723.39 keV
Ti50(p,2n+p+d)Sc46	-38947.96 keV
Ti50(p,3n+2p)Sc46	-41172.52 keV

	<b>22-Ti-50</b>	
<< MT22 (p,n+α)	<b>MT23 (p,n+3α) or MT5 (Cl38 production)</b>	MT29 (p,n+2α) >>



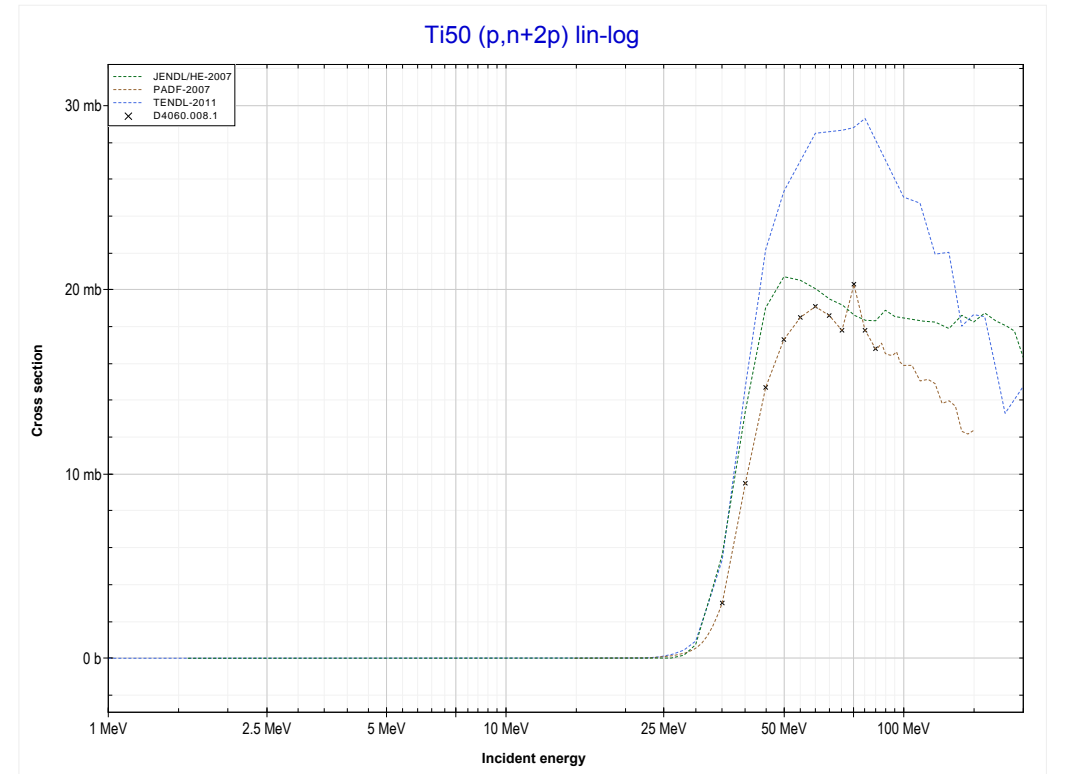
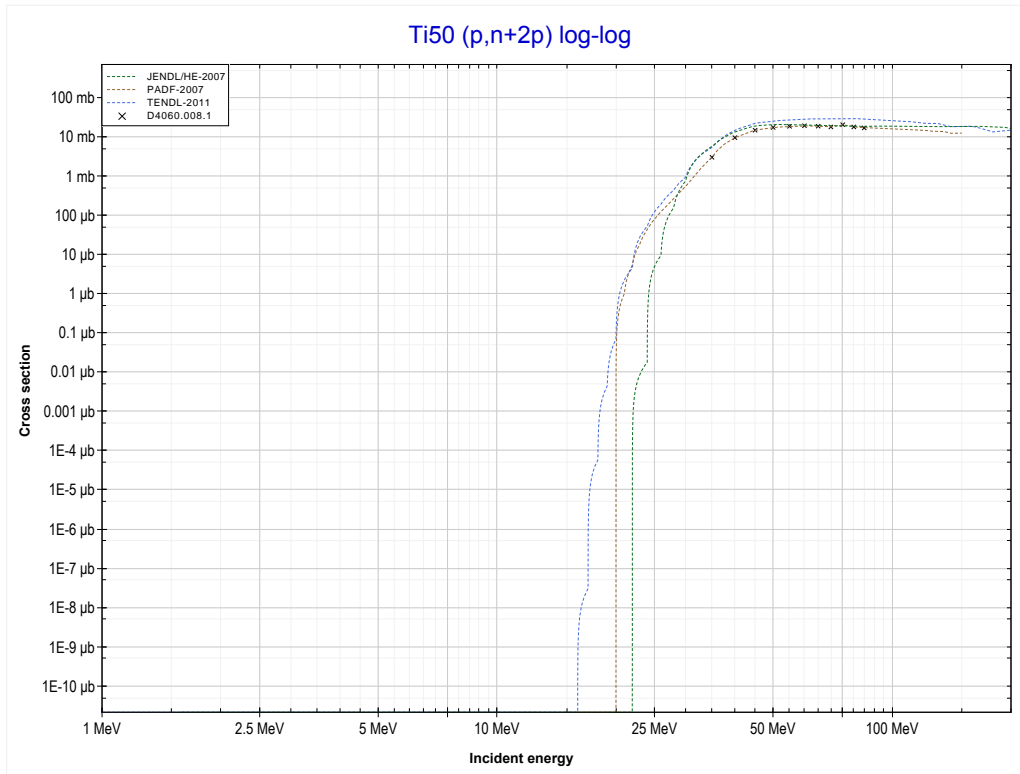
Reaction	Q-Value	Reaction	Q-Value
Ti50(p,n+3α)Cl38	-29685.69 keV	Ti50(p,p+d+2t+α)Cl38	-67088.85 keV
Ti50(p,d+t+2α)Cl38	-47274.99 keV	Ti50(p,n+d+t+He3+α)Cl38	-67852.60 keV
Ti50(p,n+p+t+2α)Cl38	-49499.55 keV	Ti50(p,n+2p+2t+α)Cl38	-69313.42 keV
Ti50(p,2n+He3+2α)Cl38	-50263.31 keV	Ti50(p,2n+p+t+He3+α)Cl38	-70077.17 keV
Ti50(p,n+2d+2α)Cl38	-53532.22 keV	Ti50(p,3n+2He3+α)Cl38	-70840.93 keV
Ti50(p,2n+p+d+2α)Cl38	-55756.79 keV	Ti50(p,3d+t+α)Cl38	-71121.52 keV
Ti50(p,3n+2p+2α)Cl38	-57981.35 keV	Ti50(p,n+p+2d+t+α)Cl38	-73346.08 keV
Ti50(p,2t+He3+α)Cl38	-61595.37 keV	Ti50(p,2n+2d+He3+α)Cl38	-74109.84 keV

<b>22-Ti-50</b>		
<< MT23 (p,n+3 $\alpha$ )	<b>MT29 (p,n+2<math>\alpha</math>) or MT5 (K42 production)</b>	MT44 (p,n+2p) >>



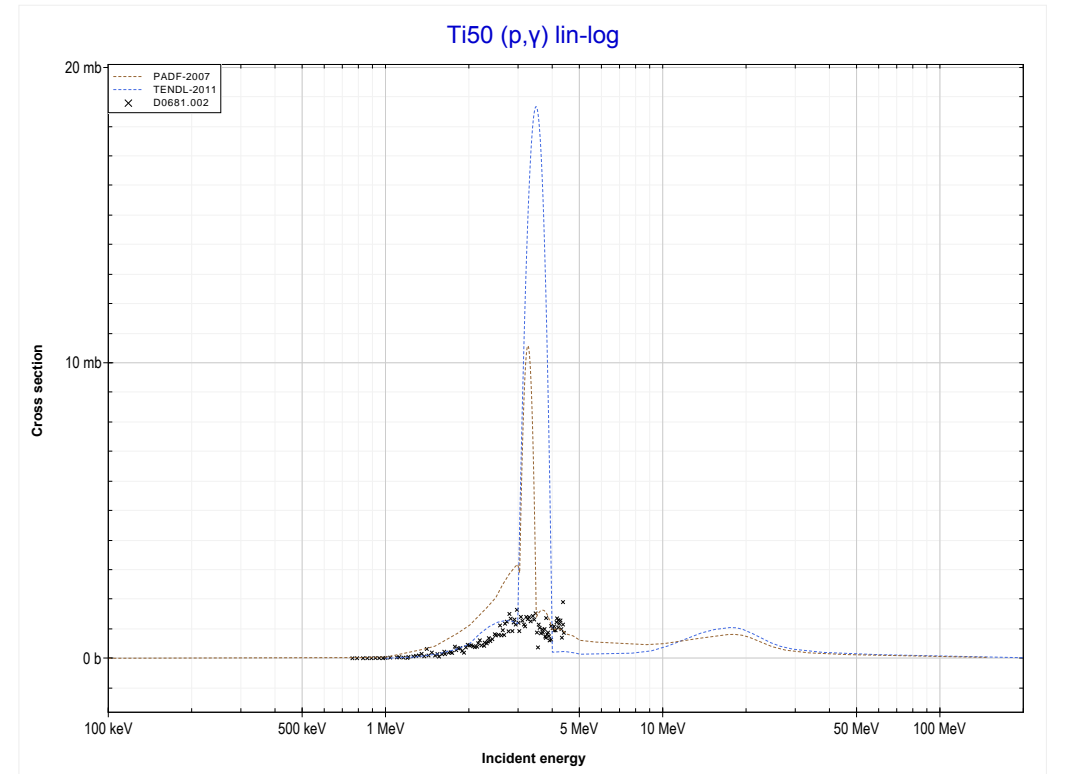
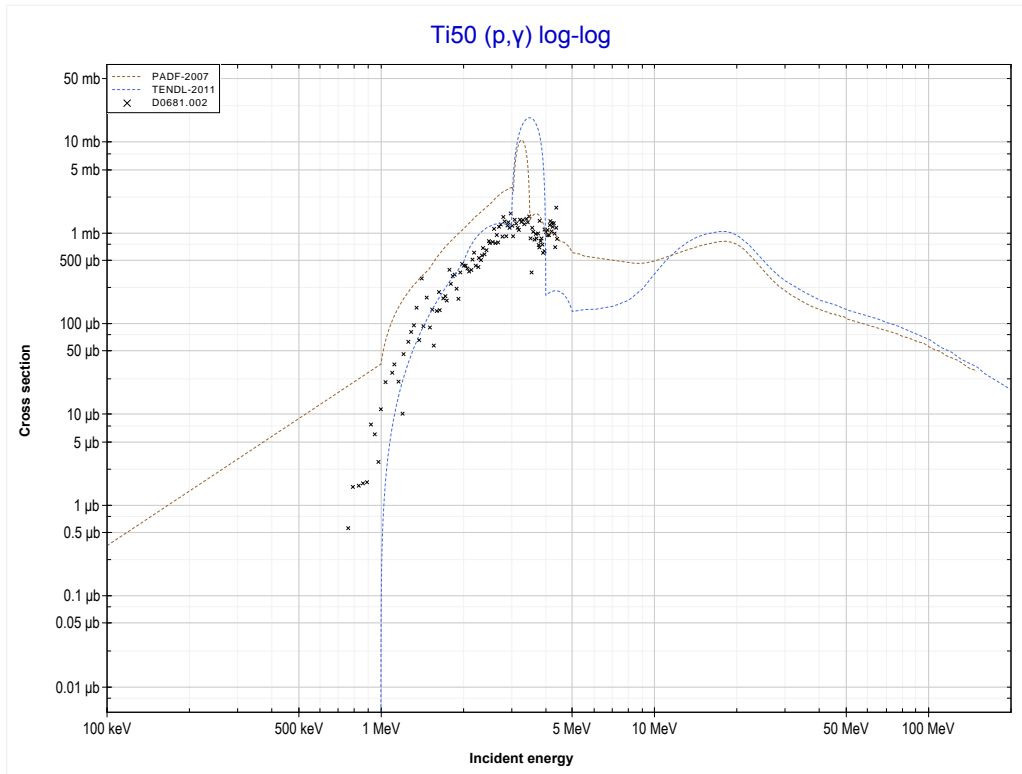
Reaction	Q-Value	Reaction	Q-Value
Ti50(p,n+2 $\alpha$ )K42	-22037.32 keV	Ti50(p,p+d+2t)K42	-59440.47 keV
Ti50(p,d+t+ $\alpha$ )K42	-39626.61 keV	Ti50(p,n+d+t+He3)K42	-60204.23 keV
Ti50(p,n+p+t+ $\alpha$ )K42	-41851.18 keV	Ti50(p,n+2p+2t)K42	-61665.04 keV
Ti50(p,2n+He3+ $\alpha$ )K42	-42614.93 keV	Ti50(p,2n+p+t+He3)K42	-62428.79 keV
Ti50(p,n+2d+ $\alpha$ )K42	-45883.85 keV	Ti50(p,3n+2He3)K42	-63192.55 keV
Ti50(p,2n+p+d+ $\alpha$ )K42	-48108.41 keV	Ti50(p,3d+t)K42	-63473.14 keV
Ti50(p,3n+2p+ $\alpha$ )K42	-50332.98 keV	Ti50(p,n+p+2d+t)K42	-65697.71 keV
Ti50(p,2t+He3)K42	-53947.00 keV	Ti50(p,2n+2d+He3)K42	-66461.46 keV

<< 22-Ti-48	<b>22-Ti-50</b>	24-Cr-50 >>
<< MT29 (p,n+2 $\alpha$ )	<b>MT44 (p,n+2p) or MT5 (Sc48 production)</b>	MT102 (p, $\gamma$ ) >>



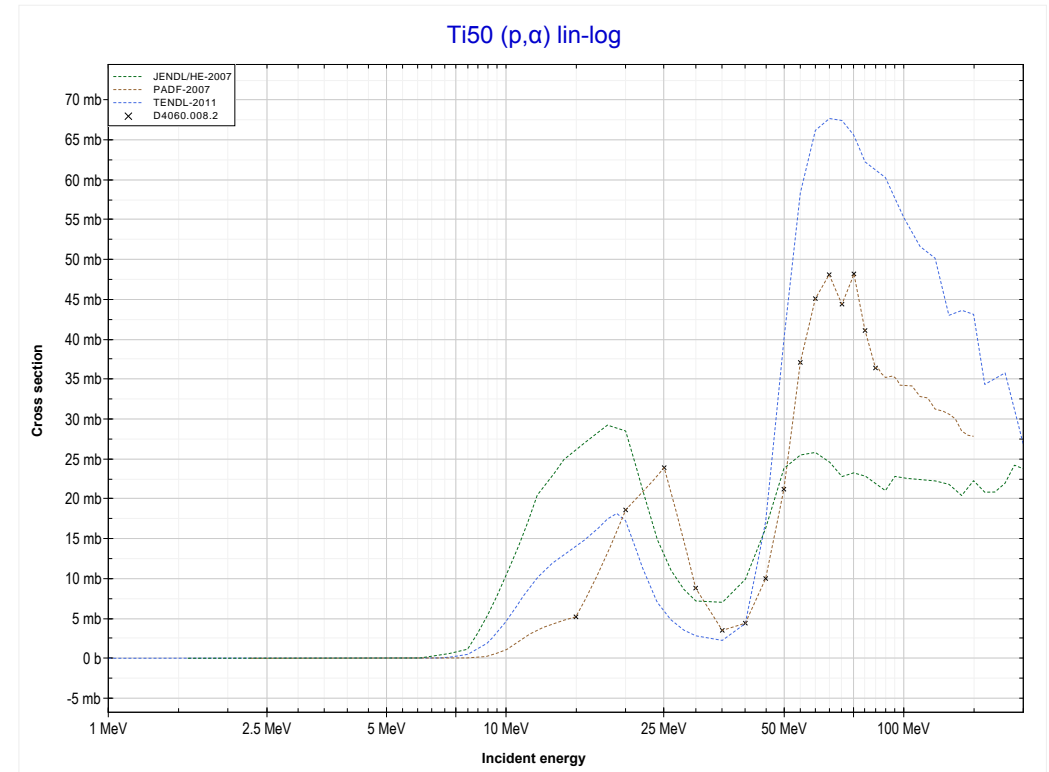
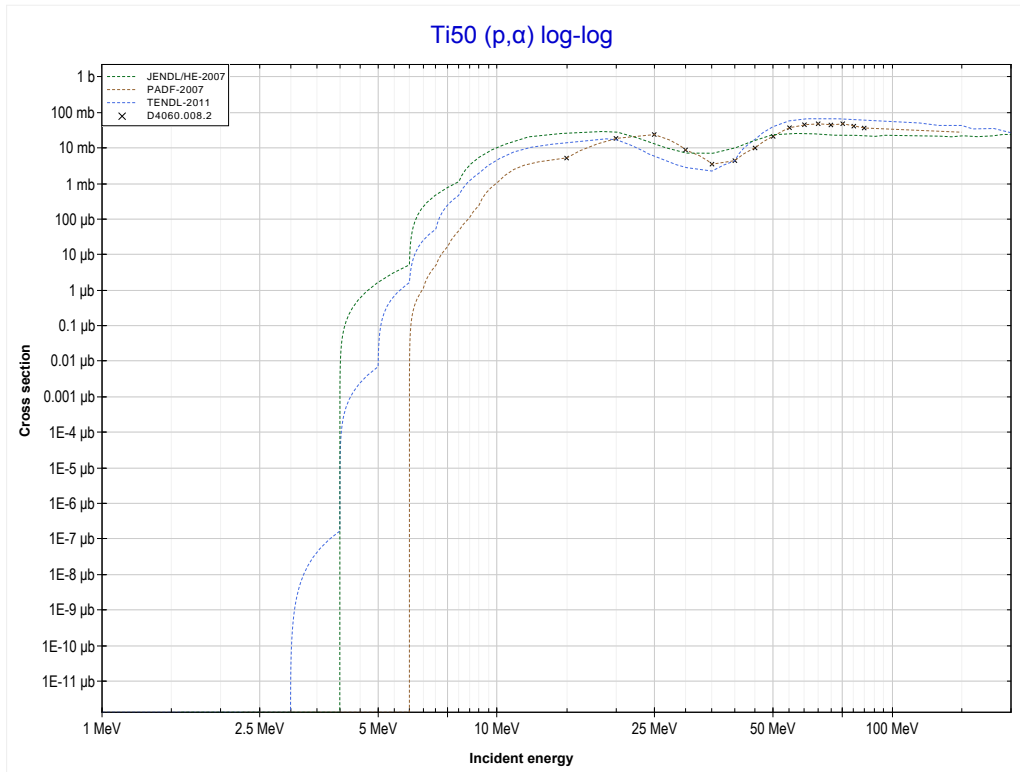
Reaction	Q-Value
Ti50(p,He3)Sc48	-14572.94 keV
Ti50(p,p+d)Sc48	-20066.42 keV
Ti50(p,n+2p)Sc48	-22290.99 keV

<< 22-Ti-49	<b>22-Ti-50</b>	23-V-51 >>
<< MT44 (p,n+2p)	<b>MT102 (p,<math>\gamma</math>) or MT5 (V51 production)</b>	MT107 (p, $\alpha$ ) >>



Reaction	Q-Value
Ti50(p, $\gamma$ )V51	8063.67 keV

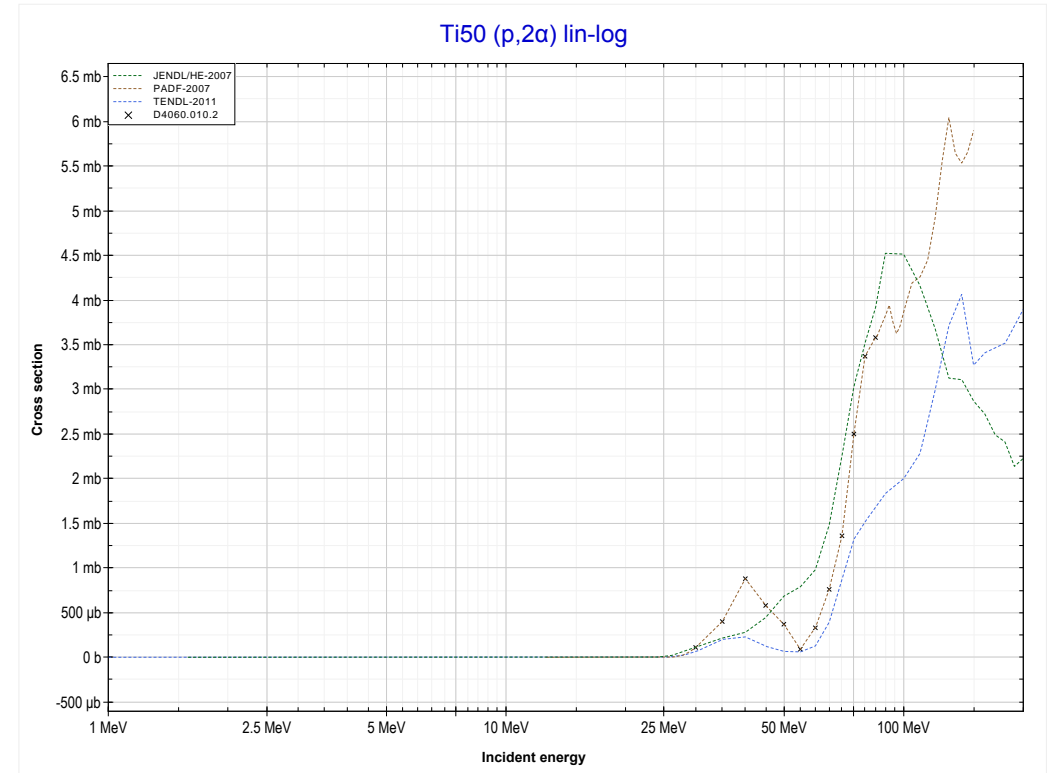
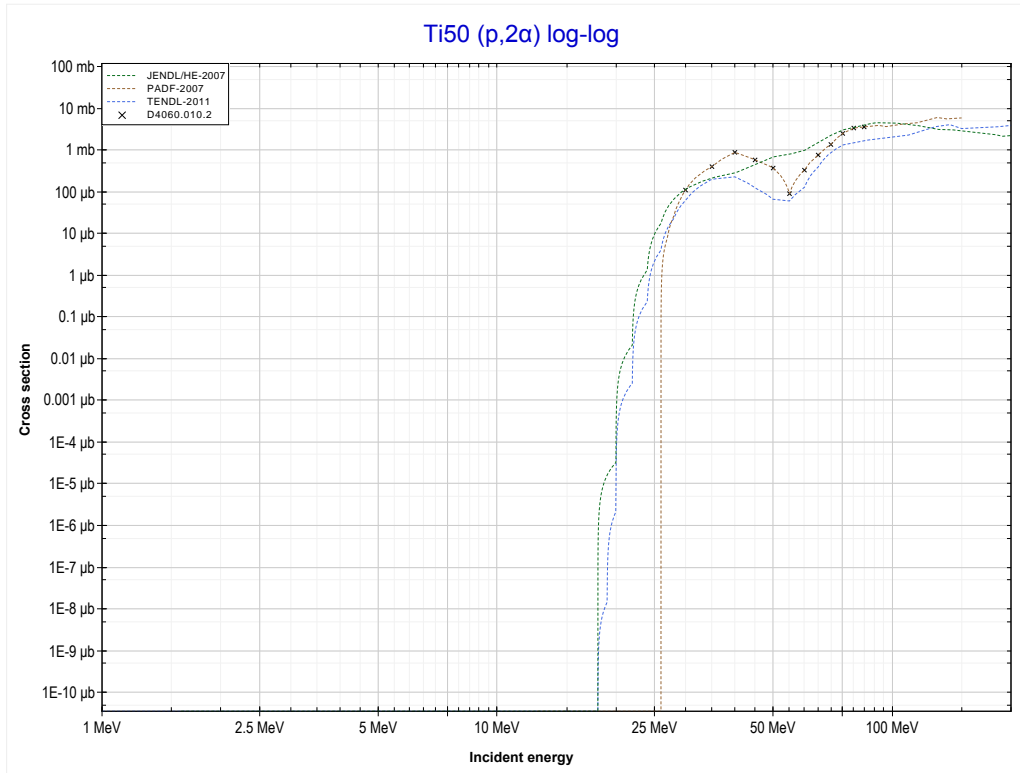
<< 22-Ti-49	<b>22-Ti-50</b>	26-Fe-54 >>
<< MT102 (p, $\gamma$ )	<b>MT107 (p,<math>\alpha</math>) or MT5 (Sc47 production)</b>	MT108 (p, $2\alpha$ ) >>



Reaction	Q-Value
Ti50(p, $\alpha$ )Sc47	-2230.55 keV
Ti50(p,p+t)Sc47	-22044.41 keV
Ti50(p,n+He3)Sc47	-22808.16 keV
Ti50(p,2d)Sc47	-26077.07 keV
Ti50(p,n+p+d)Sc47	-28301.64 keV
Ti50(p,2n+2p)Sc47	-30526.20 keV

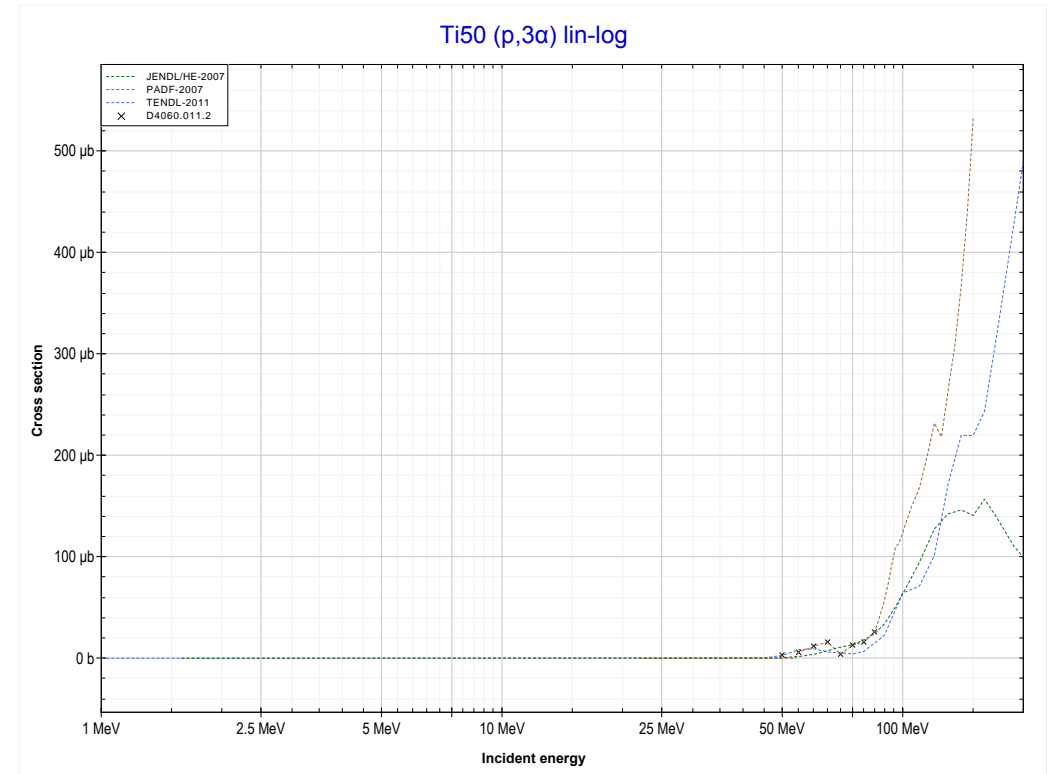
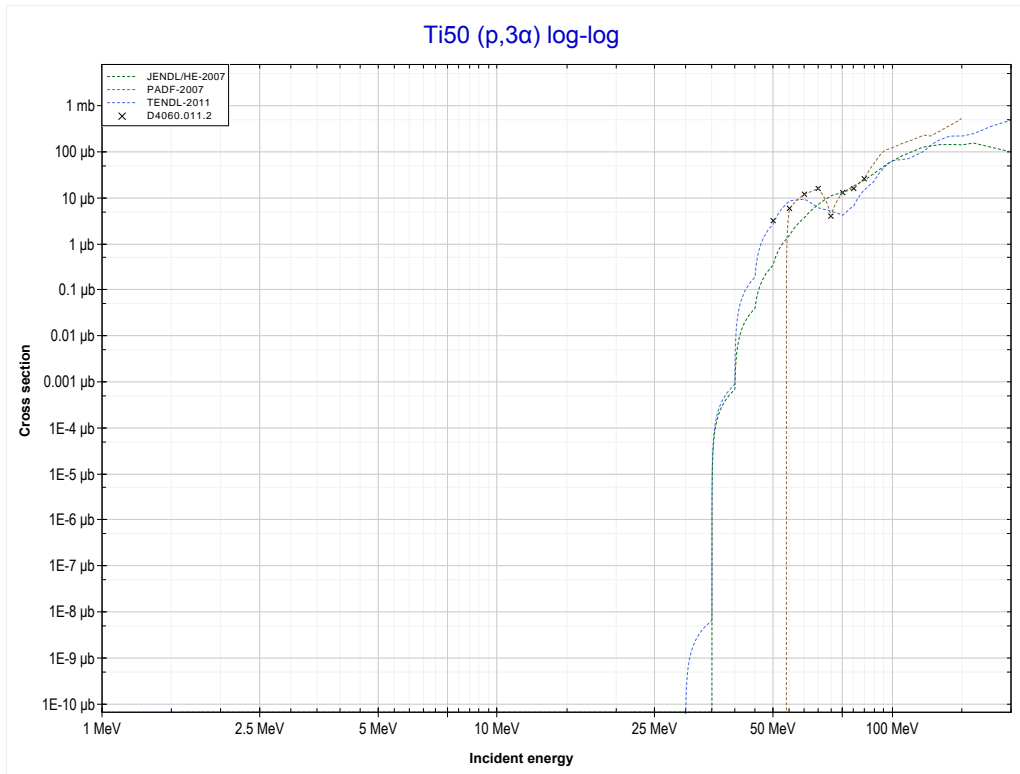


<< 7-N-14	<b>22-Ti-50</b>	
<< MT107 (p, $\alpha$ )	<b>MT108 (p,2<math>\alpha</math>) or MT5 (K43 production)</b>	MT109 (p,3 $\alpha$ ) >>



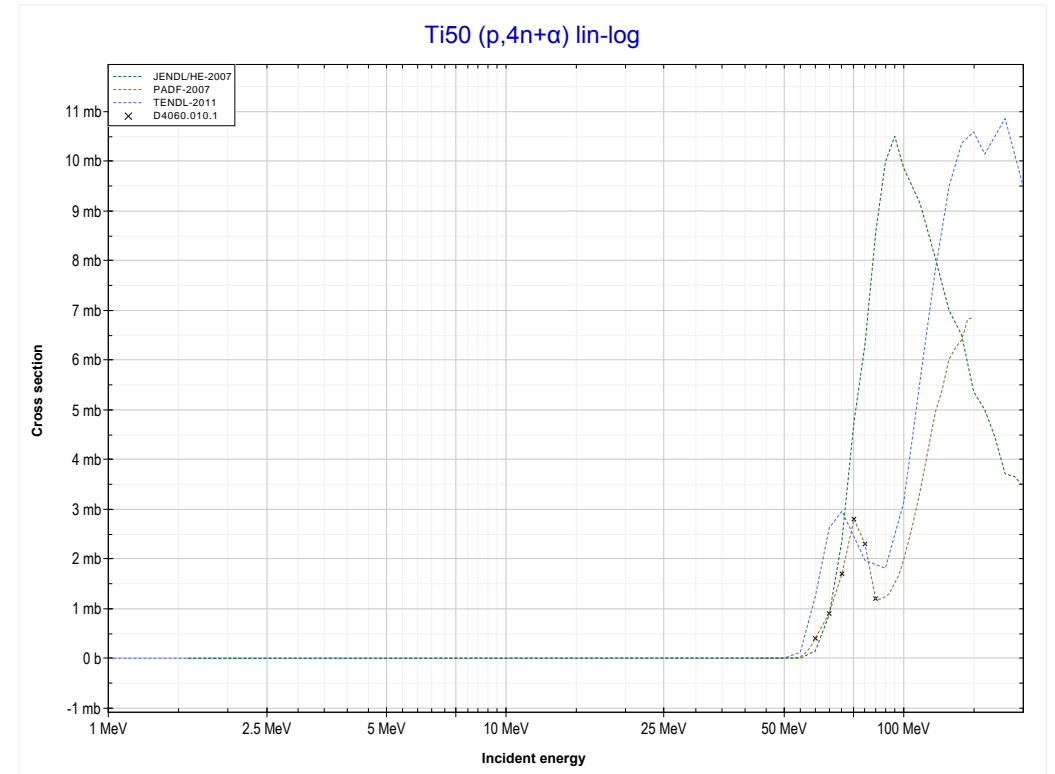
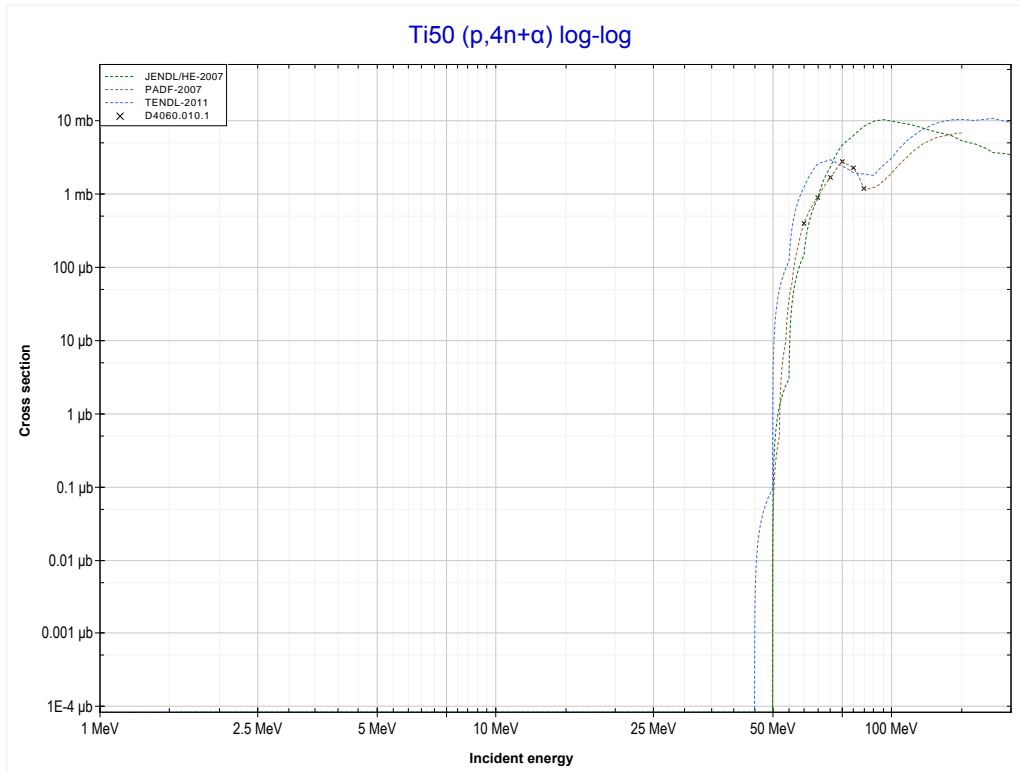
Reaction	Q-Value	Reaction	Q-Value
Ti50(p,2 $\alpha$ )K43	-12394.56 keV	Ti50(p,n+p+t+He3)K43	-52786.04 keV
Ti50(p,p+t+ $\alpha$ )K43	-32208.42 keV	Ti50(p,2n+2He3)K43	-53549.79 keV
Ti50(p,n+He3+ $\alpha$ )K43	-32972.18 keV	Ti50(p,p+2d+t)K43	-56054.95 keV
Ti50(p,2d+ $\alpha$ )K43	-36241.09 keV	Ti50(p,n+2d+He3)K43	-56818.70 keV
Ti50(p,n+p+d+ $\alpha$ )K43	-38465.65 keV	Ti50(p,n+2p+d+t)K43	-58279.52 keV
Ti50(p,2n+2p+ $\alpha$ )K43	-40690.22 keV	Ti50(p,2n+p+d+He3)K43	-59043.27 keV
Ti50(p,d+t+He3)K43	-50561.47 keV	Ti50(p,4d)K43	-60087.62 keV
Ti50(p,2p+2t)K43	-52022.28 keV	Ti50(p,2n+3p+t)K43	-60504.08 keV

	<b>22-Ti-50</b>	
<< MT108 (p,2 $\alpha$ )	<b>MT109 (p,3<math>\alpha</math>) or MT5 (Cl39 production)</b>	MT165 (p,4n+ $\alpha$ ) >>



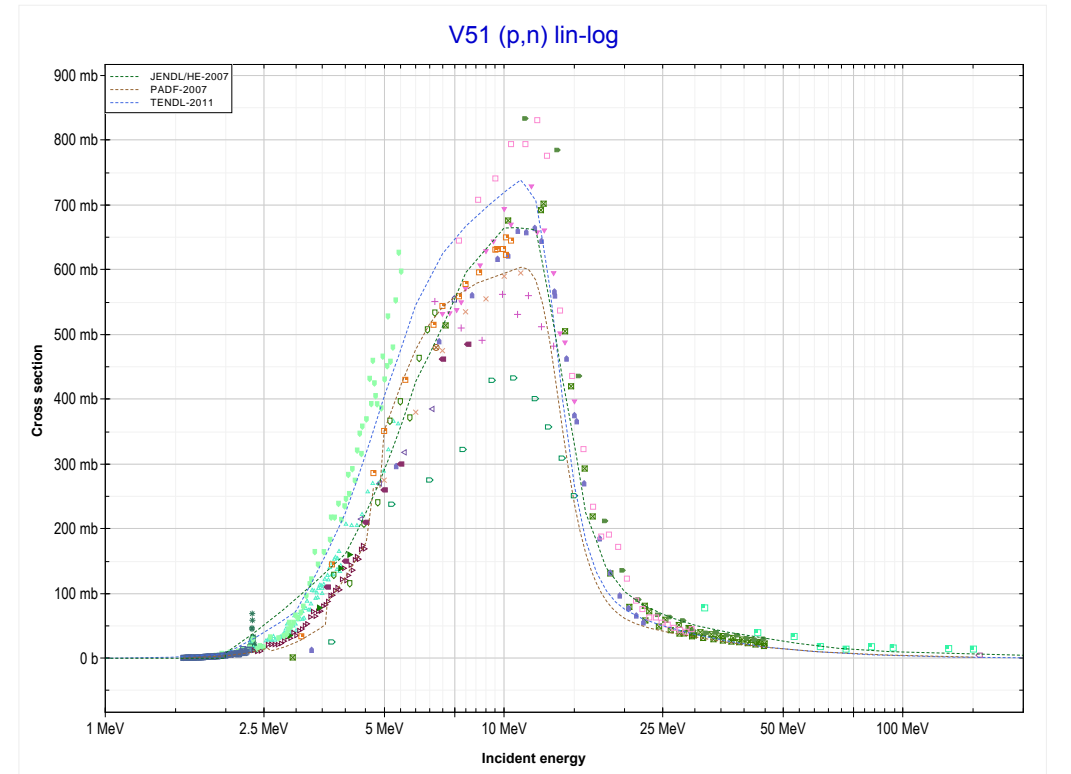
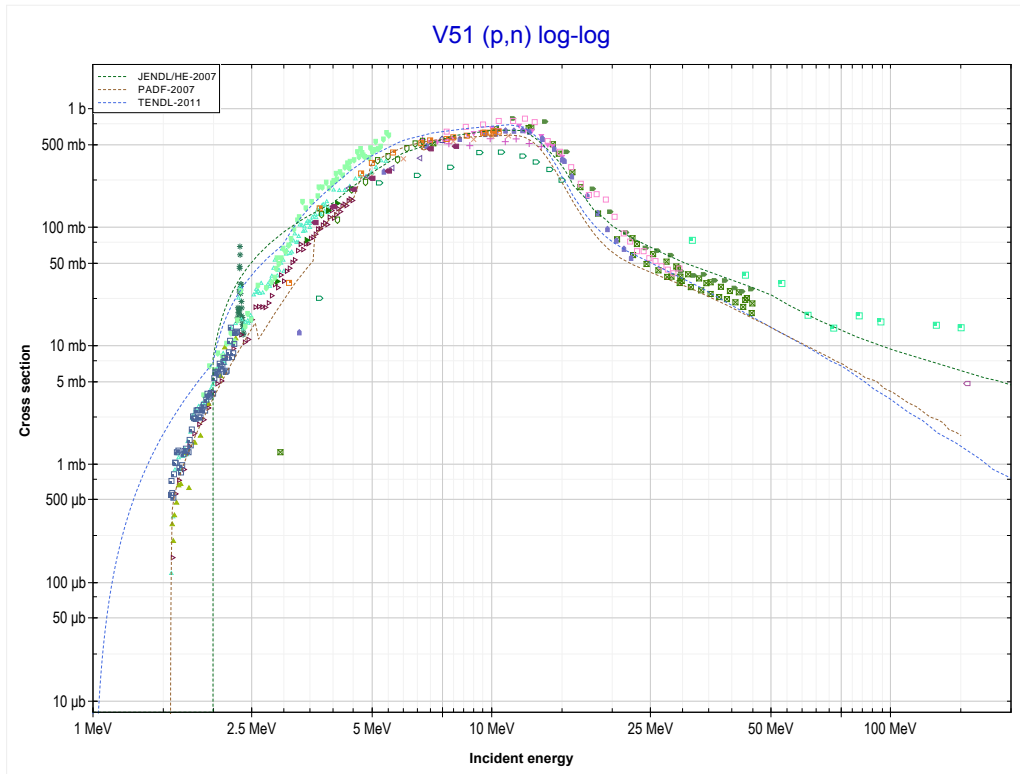
Reaction	Q-Value	Reaction	Q-Value
Ti50(p,3 $\alpha$ )Cl39	-21612.28 keV	Ti50(p,n+p+t+He3+ $\alpha$ )Cl39	-62003.75 keV
Ti50(p,p+t+2 $\alpha$ )Cl39	-41426.14 keV	Ti50(p,2n+2He3+ $\alpha$ )Cl39	-62767.51 keV
Ti50(p,n+He3+2 $\alpha$ )Cl39	-42189.89 keV	Ti50(p,p+2d+t+ $\alpha$ )Cl39	-65272.66 keV
Ti50(p,2d+2 $\alpha$ )Cl39	-45458.80 keV	Ti50(p,n+2d+He3+ $\alpha$ )Cl39	-66036.42 keV
Ti50(p,n+p+d+2 $\alpha$ )Cl39	-47683.37 keV	Ti50(p,n+2p+d+t+ $\alpha$ )Cl39	-67497.23 keV
Ti50(p,2n+2p+2 $\alpha$ )Cl39	-49907.94 keV	Ti50(p,2n+p+d+He3+ $\alpha$ )Cl39	-68260.99 keV
Ti50(p,d+t+He3+ $\alpha$ )Cl39	-59779.19 keV	Ti50(p,4d+ $\alpha$ )Cl39	-69305.33 keV
Ti50(p,2p+2t+ $\alpha$ )Cl39	-61240.00 keV	Ti50(p,2n+3p+t+ $\alpha$ )Cl39	-69721.80 keV

	<b>22-Ti-50</b>	
<< MT109 (p,3α)	<b>MT165 (p,4n+α) or MT5 (Sc43 production)</b>	MT4 (p,n) >>



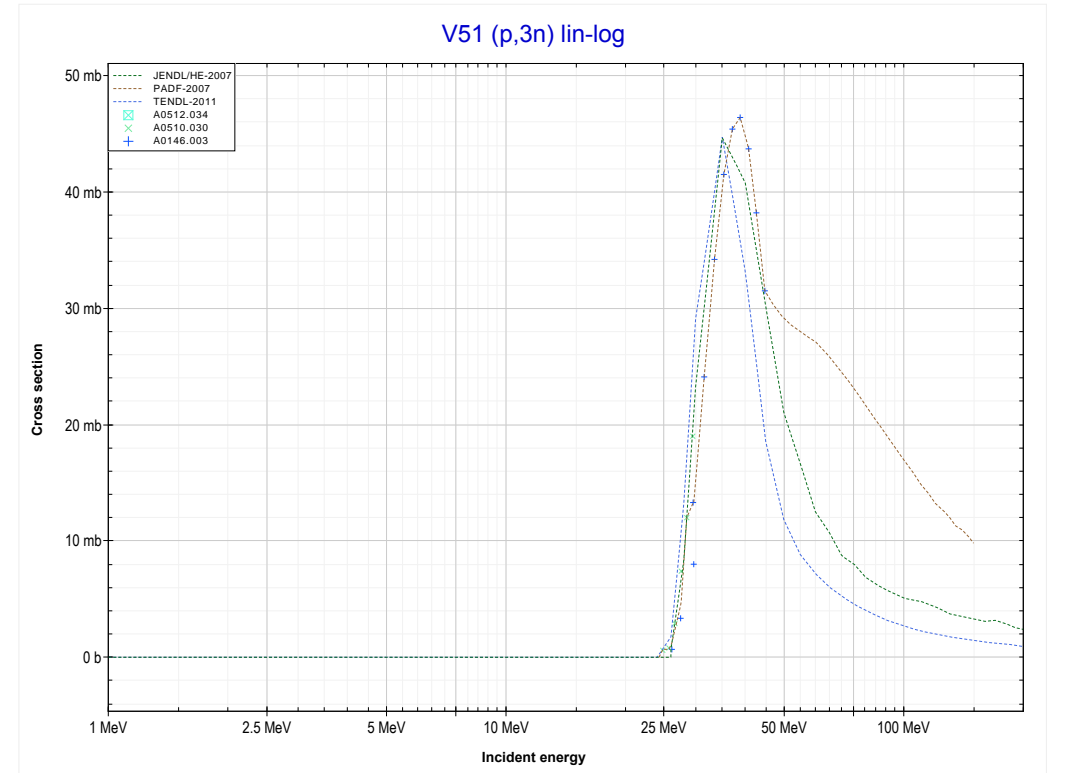
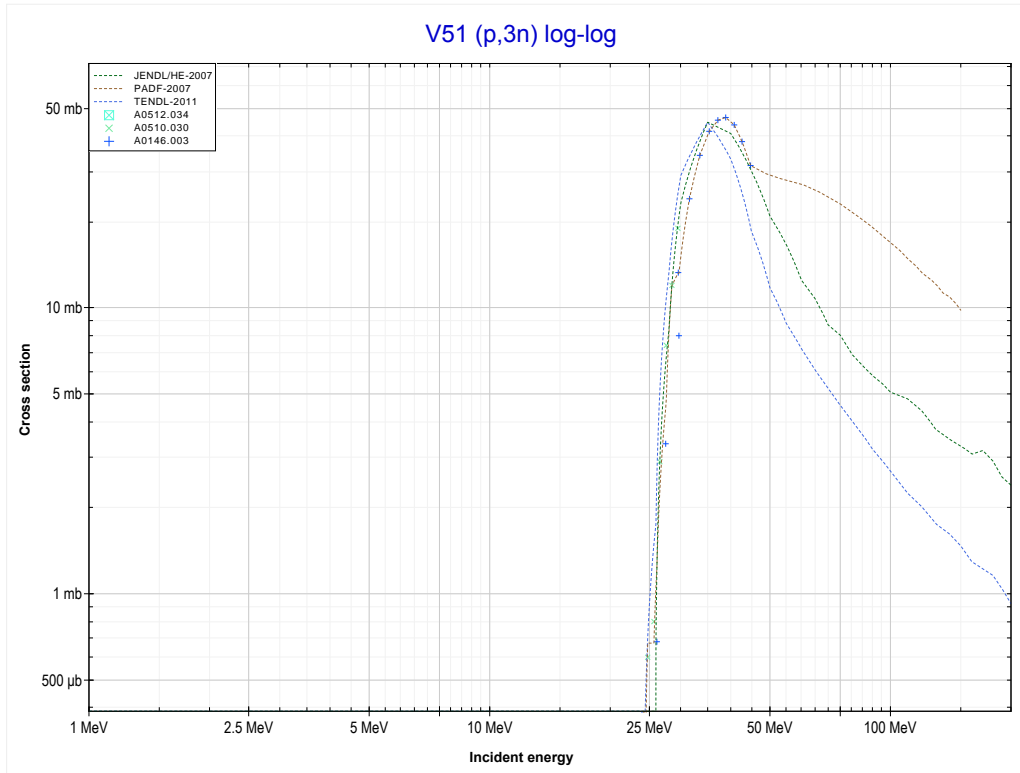
Reaction	Q-Value
Ti50(p,4n+α)Sc43	-42660.01 keV
Ti50(p,2n+2t)Sc43	-53992.08 keV
Ti50(p,3n+d+t)Sc43	-60249.31 keV
Ti50(p,4n+p+t)Sc43	-62473.87 keV
Ti50(p,5n+He3)Sc43	-63237.63 keV
Ti50(p,4n+2d)Sc43	-66506.54 keV
Ti50(p,5n+p+d)Sc43	-68731.11 keV
Ti50(p,6n+2p)Sc43	-70955.67 keV

<< 22-Ti-50	<b>23-V-51</b>	24-Cr-50 >>
<< MT165 (p,4n+α)	<b>MT4 (p,n) or MT5 (Cr51 production)</b>	MT17 (p,3n) >>



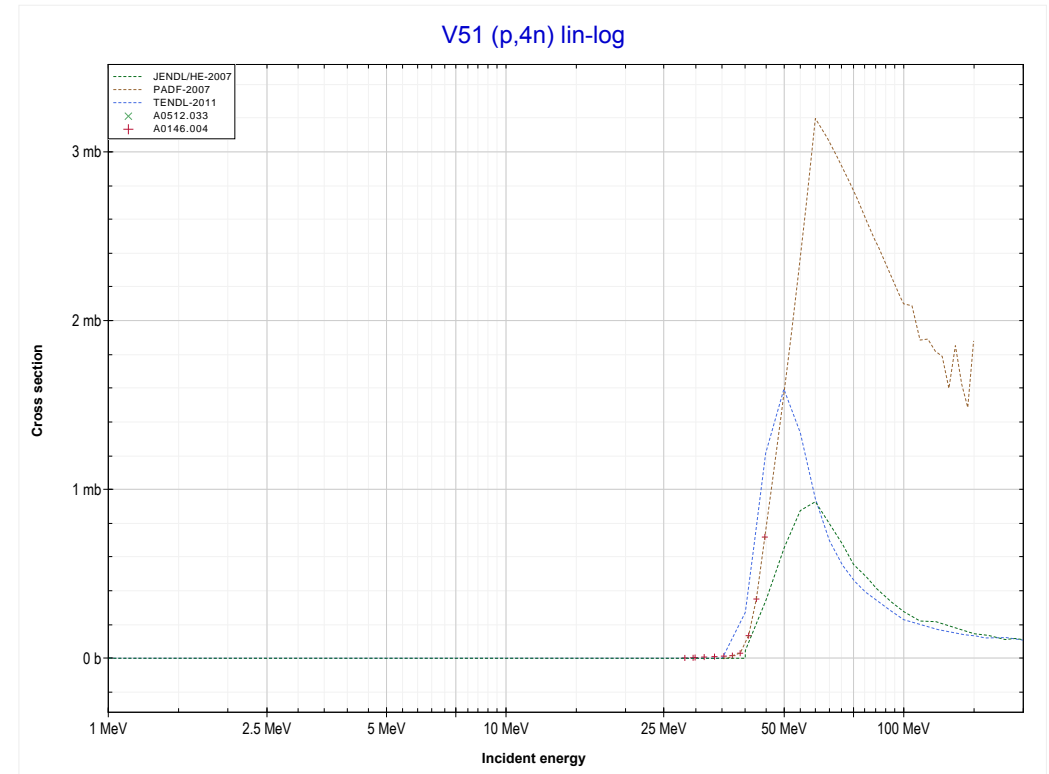
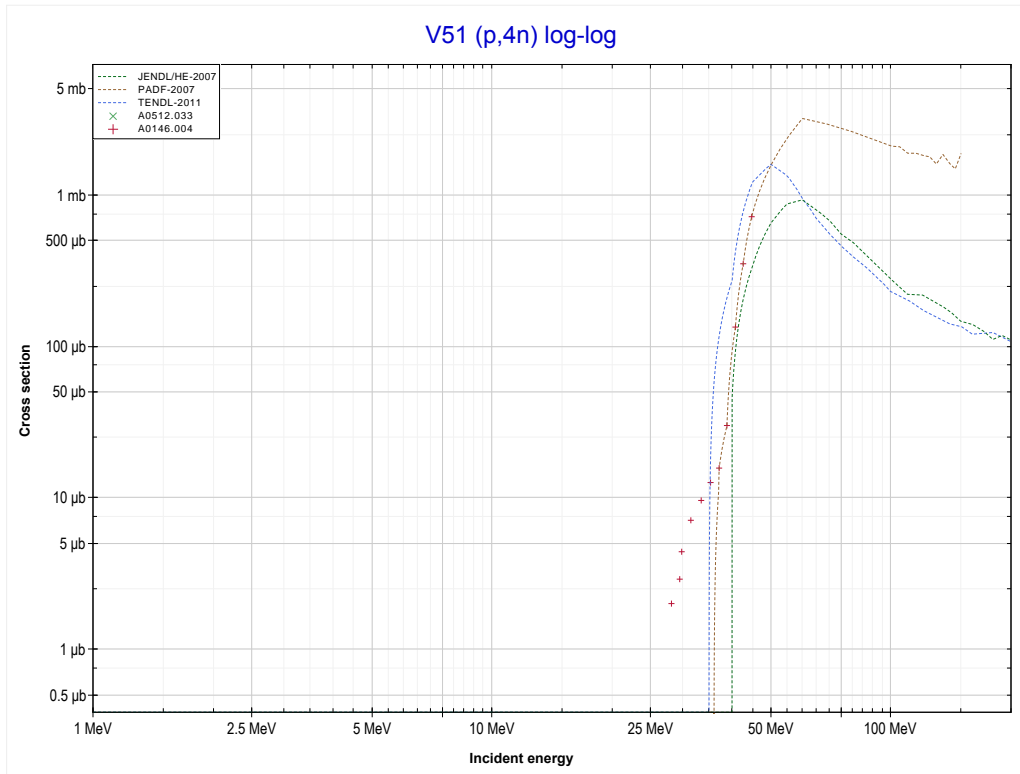
Reaction	Q-Value
V51(p,n)Cr51	-1534.95 keV

<< 18-Ar-40	<b>23-V-51</b>	25-Mn-55 >>
<< MT4 (p,n)	<b>MT17 (p,3n) or MT5 (Cr49 production)</b>	MT37 (p,4n) >>



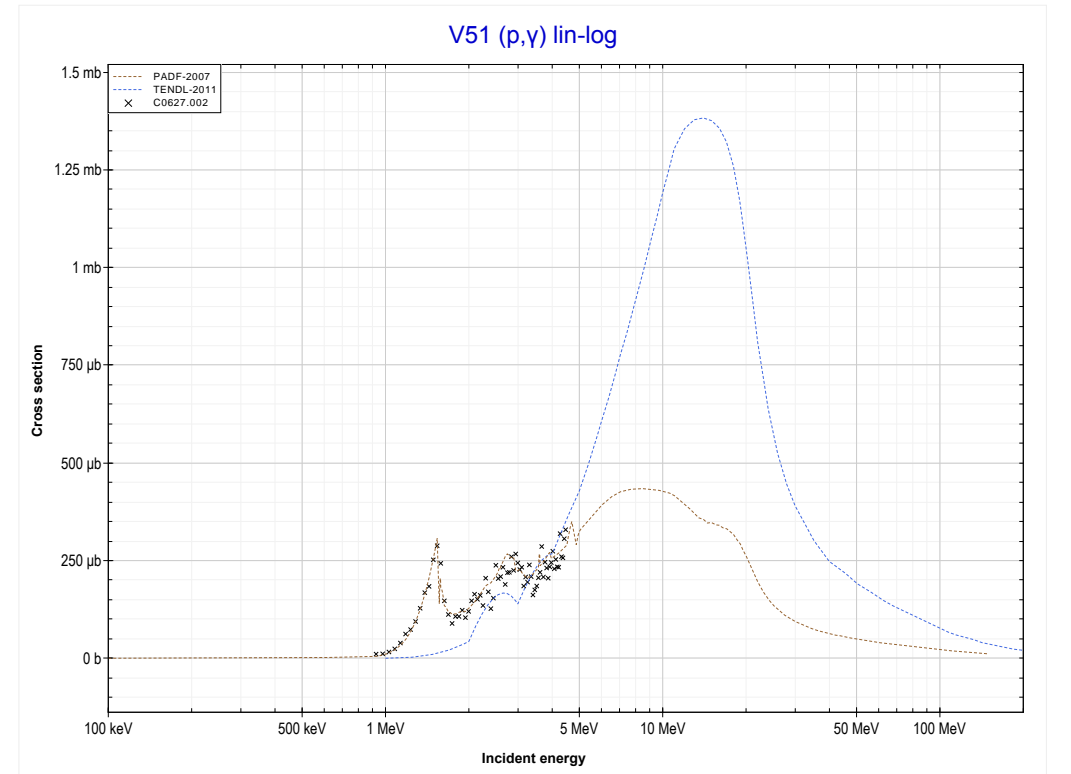
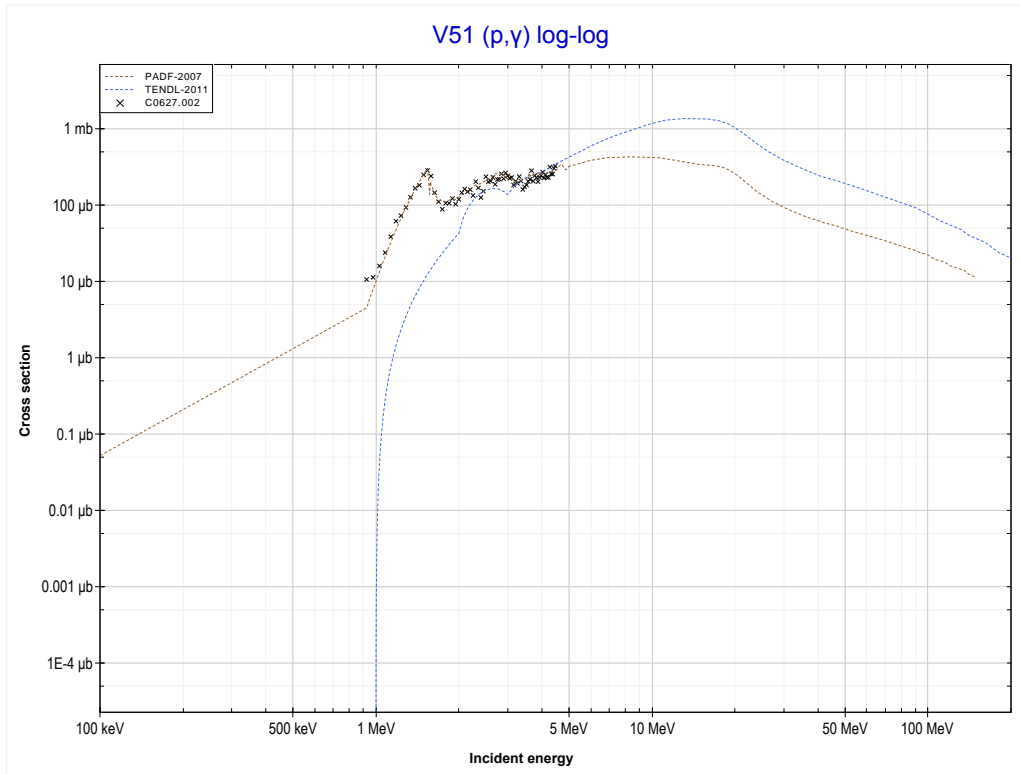
Reaction	Q-Value
V51(p,3n)Cr49	-23795.88 keV

	<b>23-V-51</b>	25-Mn-55 >>
<< MT17 (p,3n)	<b>MT37 (p,4n) or MT5 (Cr48 production)</b>	MT102 (p, $\gamma$ ) >>



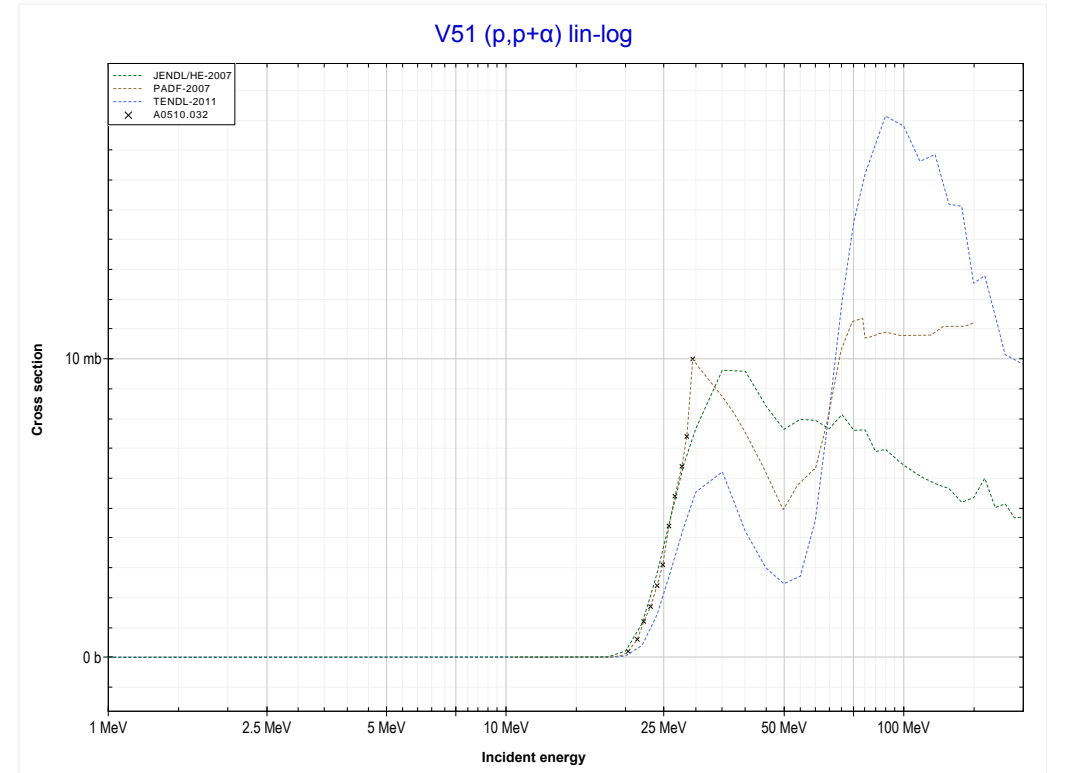
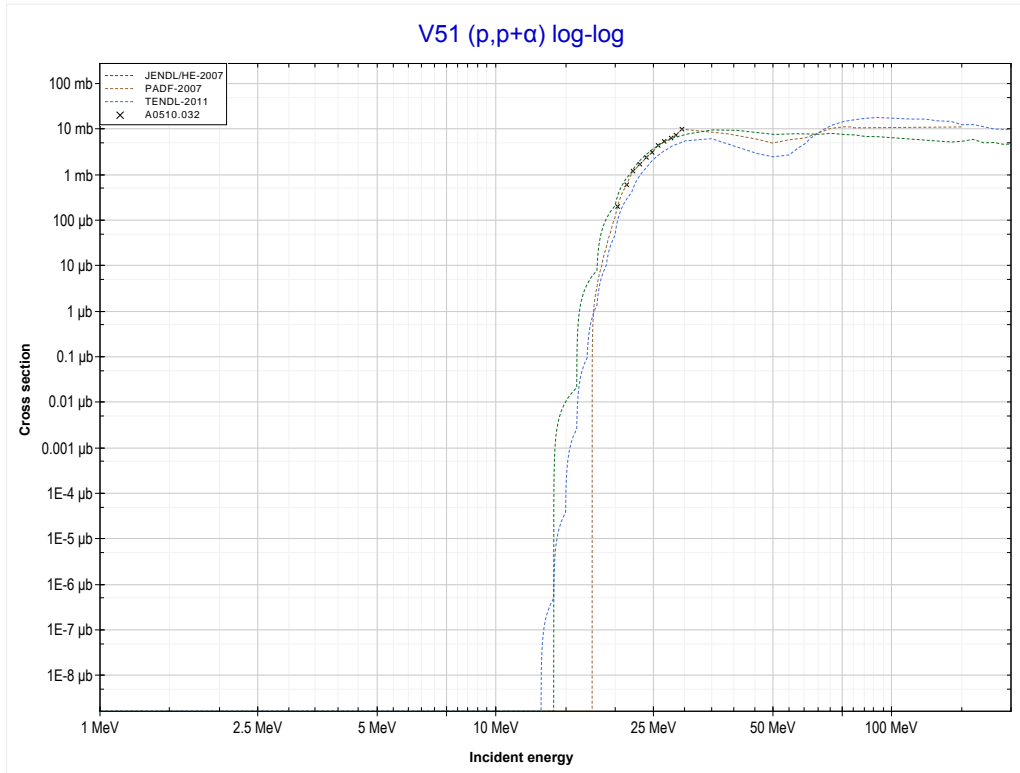
Reaction	Q-Value
V51(p,4n)Cr48	-34378.70 keV

<< 22-Ti-50	<b>23-V-51</b>	24-Cr-50 >>
<< MT37 (p,4n)	<b>MT102 (p,<math>\gamma</math>) or MT5 (Cr52 production)</b>	MT112 (p,p+ $\alpha$ ) >>



Reaction	Q-Value
V51(p, $\gamma$ )Cr52	10504.47 keV

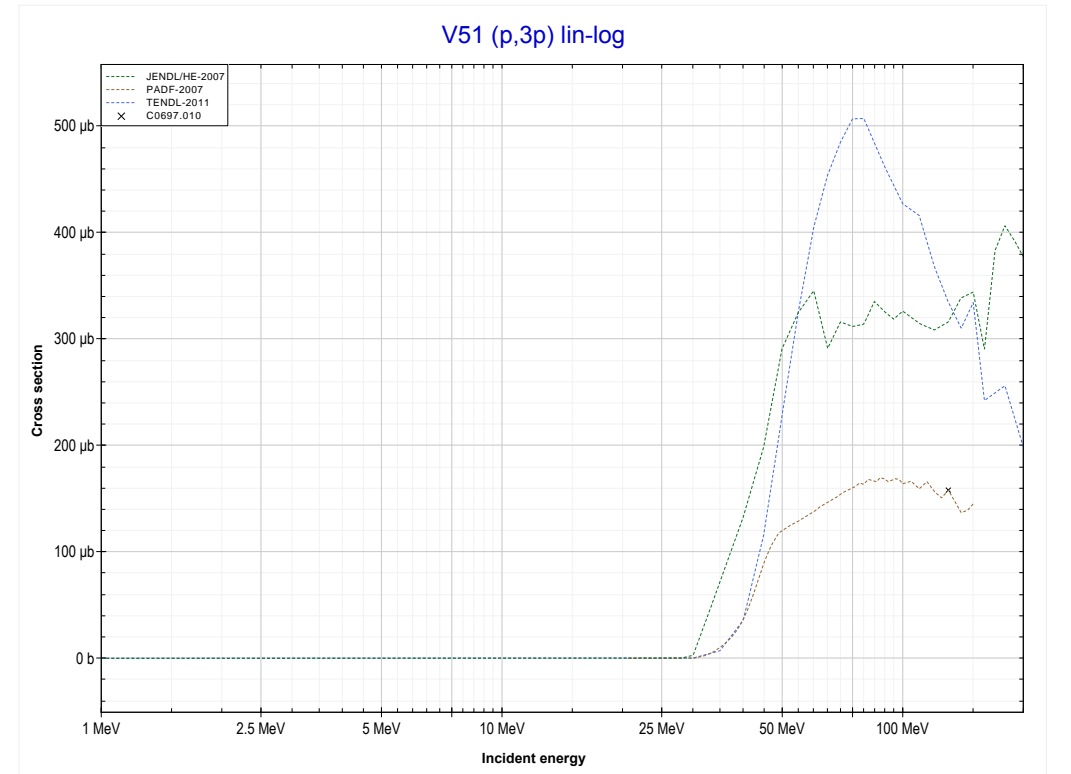
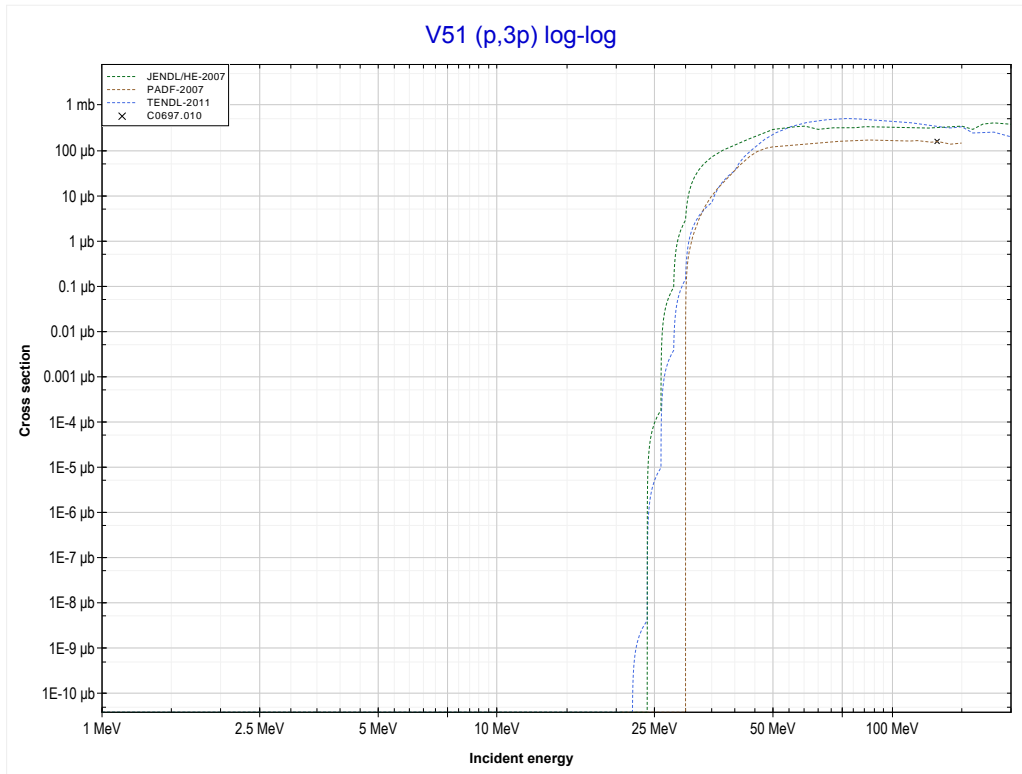
<< 8-O-16	<b>23-V-51</b>	42-Mo-92 >>
<< MT102 (p, $\gamma$ )	<b>MT112 (p,p+<math>\alpha</math>) or MT5 (Sc47 production)</b>	MT197 (p,3p) >>



Reaction	Q-Value
V51(p,p+ $\alpha$ )Sc47	-10294.22 keV
V51(p,d+He3)Sc47	-28647.27 keV
V51(p,2p+t)Sc47	-30108.08 keV
V51(p,n+p+He3)Sc47	-30871.83 keV
V51(p,p+2d)Sc47	-34140.74 keV
V51(p,n+2p+d)Sc47	-36365.31 keV
V51(p,2n+3p)Sc47	-38589.88 keV

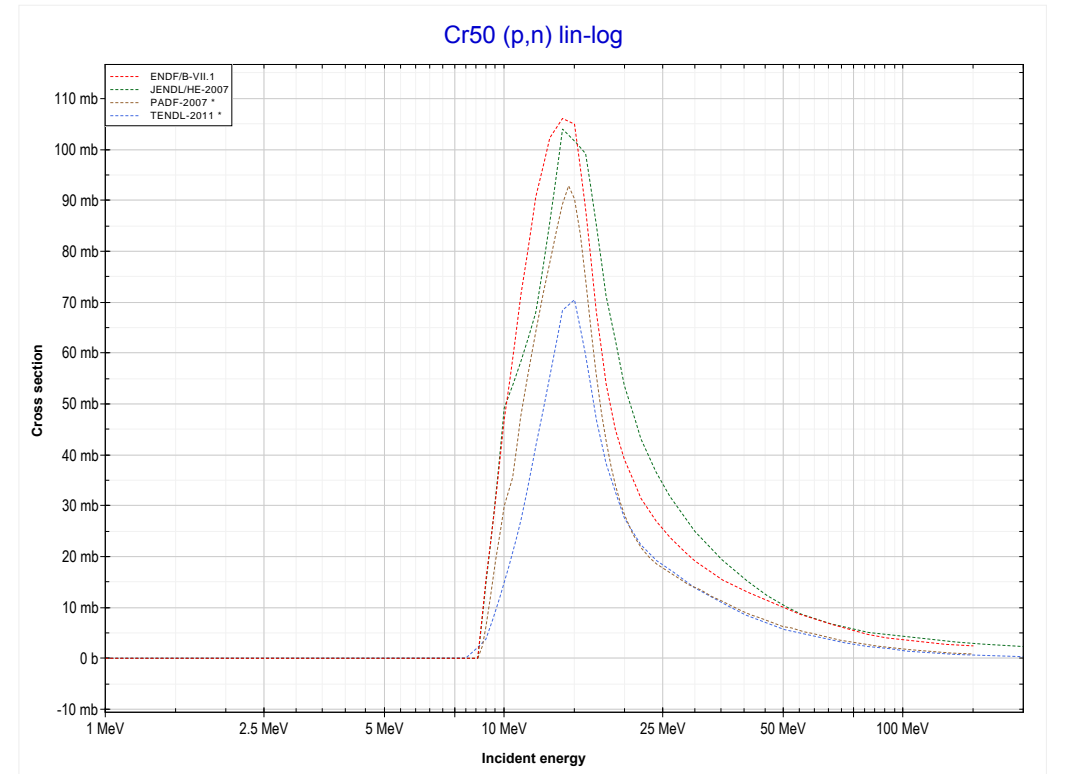
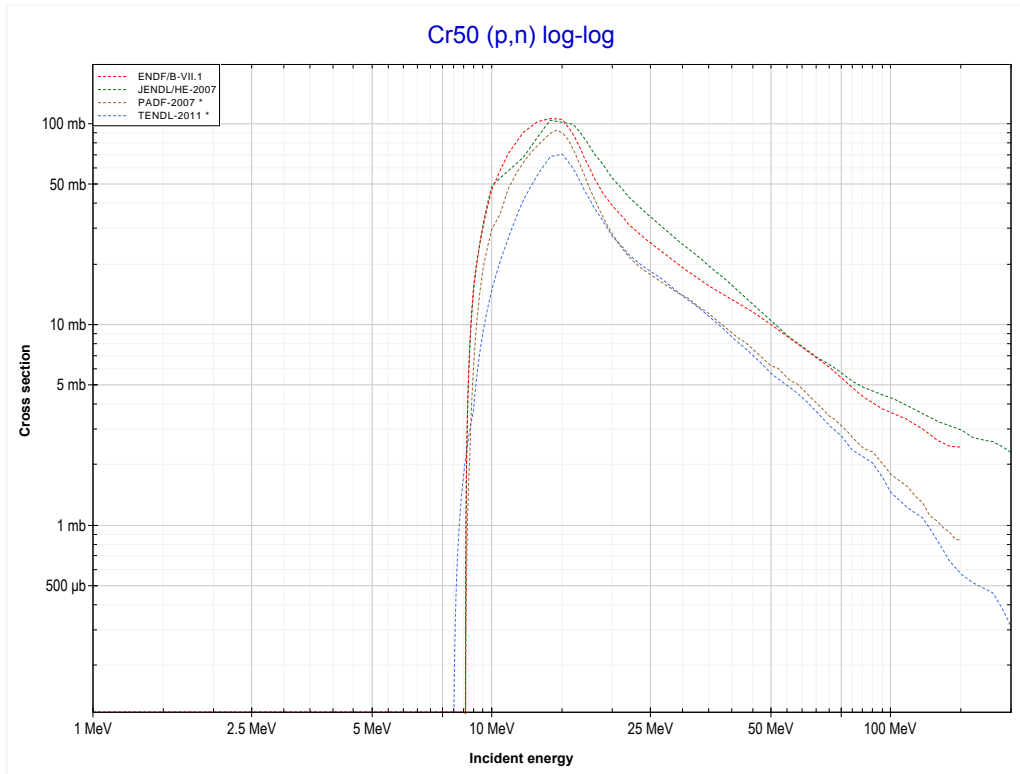


<< 21-Sc-45	<b>23-V-51</b>	31-Ga-69 >>
<< MT112 (p,p+α)	<b>MT197 (p,3p) or MT5 (Sc49 production)</b>	MT4 (p,n) >>



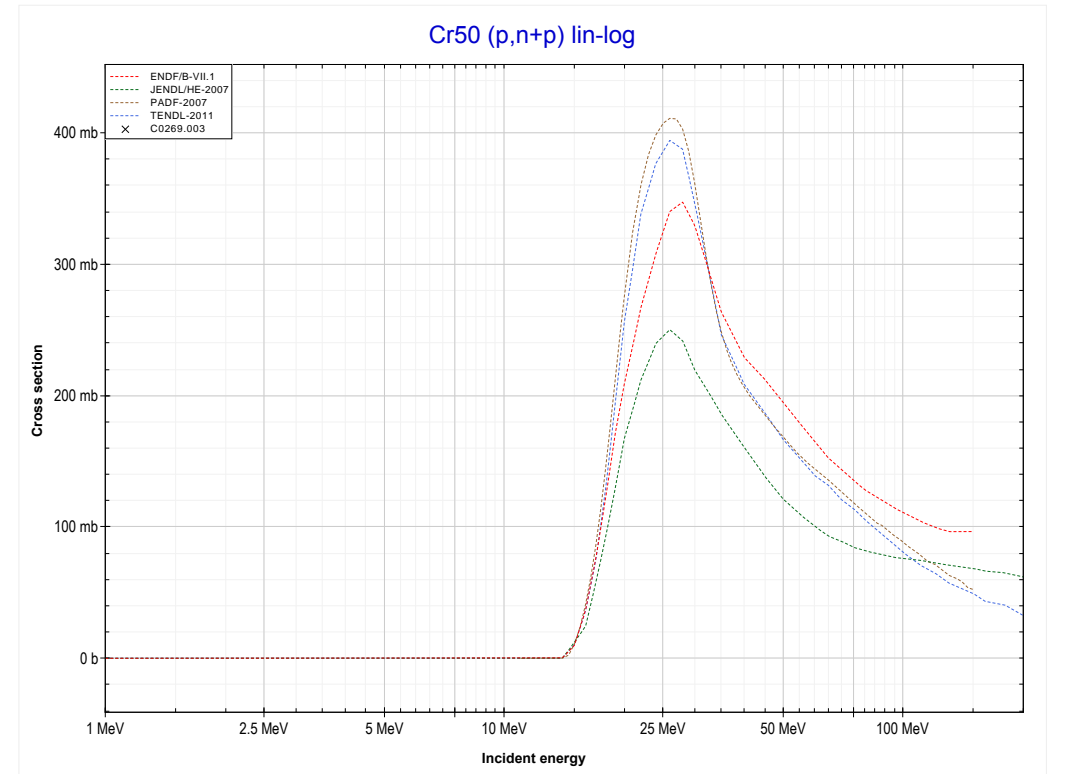
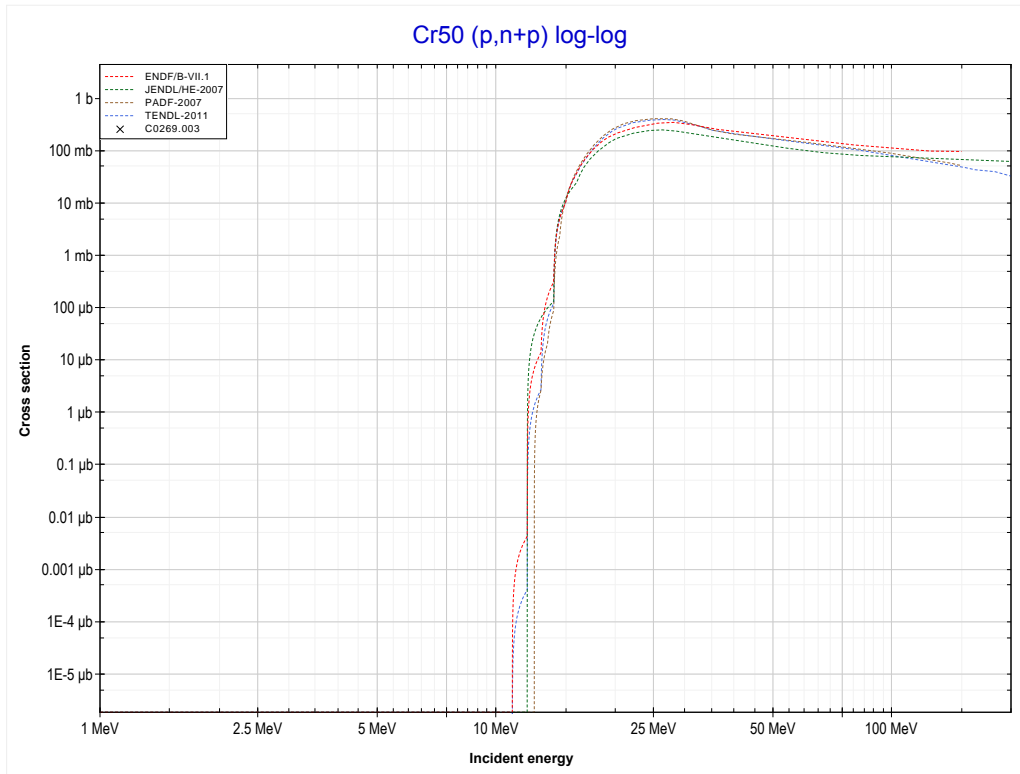
Reaction	Q-Value
V51(p,3p)Sc49	-20227.34 keV

<< 23-V-51	<b>24-Cr-50</b>	24-Cr-52 >>
<< MT197 (p,3p)	<b>MT4 (p,n) or MT5 (Mn50 production)</b>	MT28 (p,n+p) >>



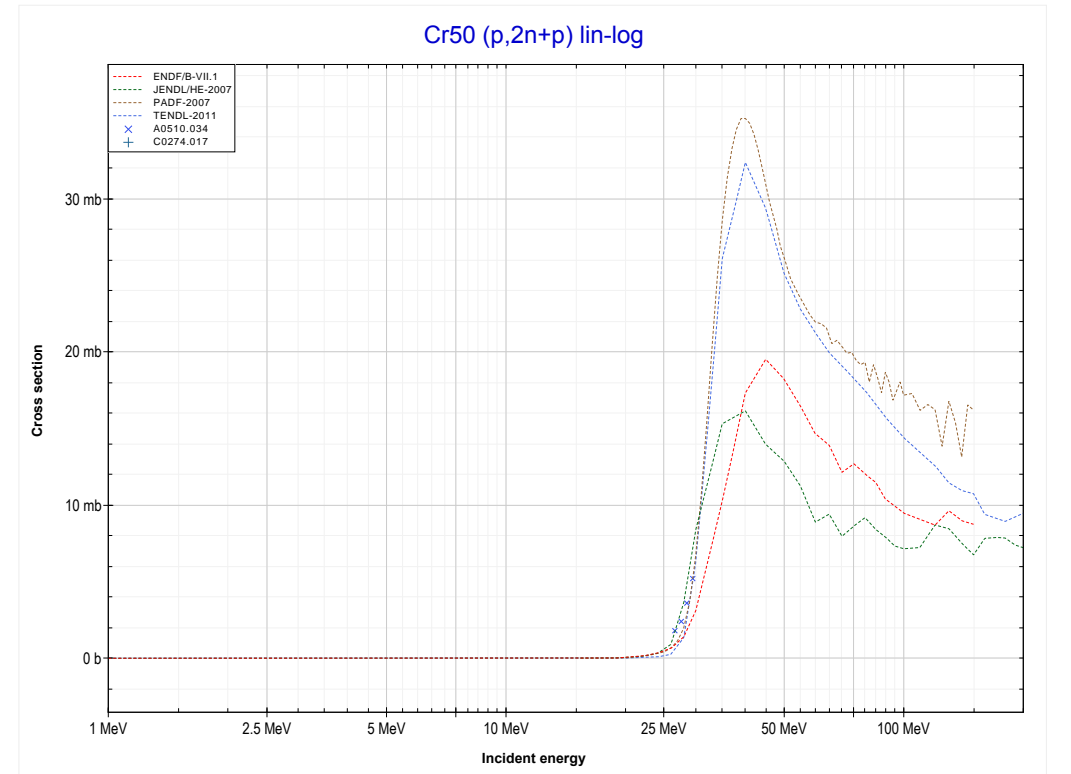
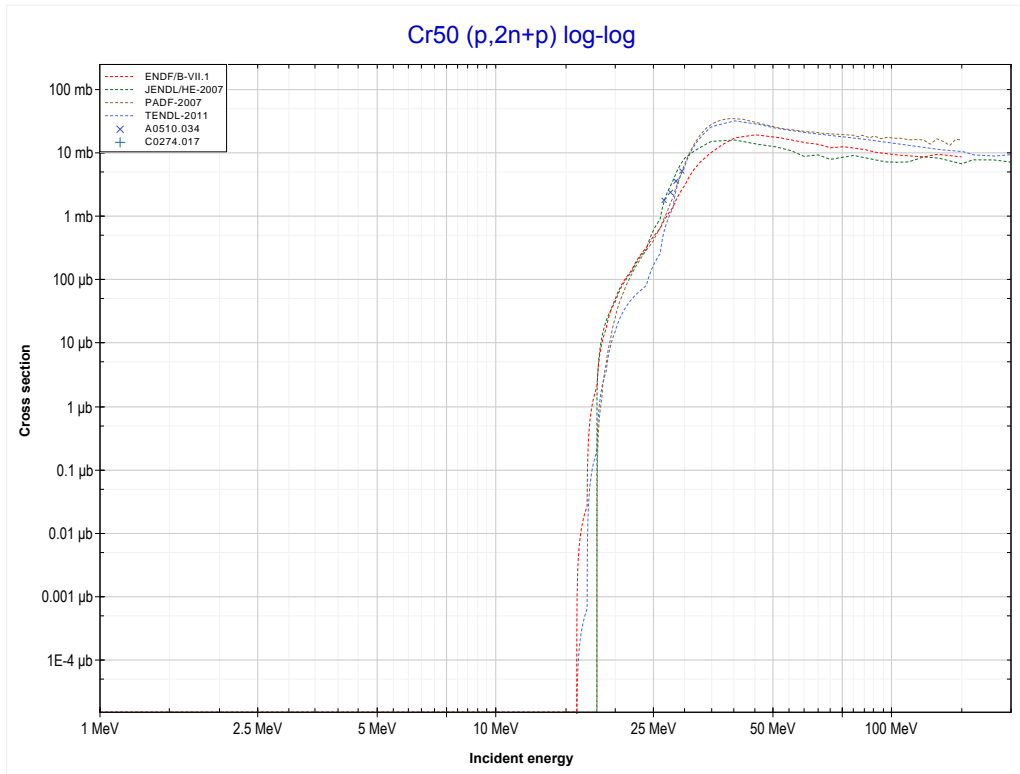
Reaction	Q-Value
Cr50(p,n)Mn50	-8415.05 keV

<< 22-Ti-46	<b>24-Cr-50</b>	24-Cr-52 >>
<< MT4 (p,n)	<b>MT28 (p,n+p) or MT5 (Cr49 production)</b>	MT41 (p,2n+p) >>



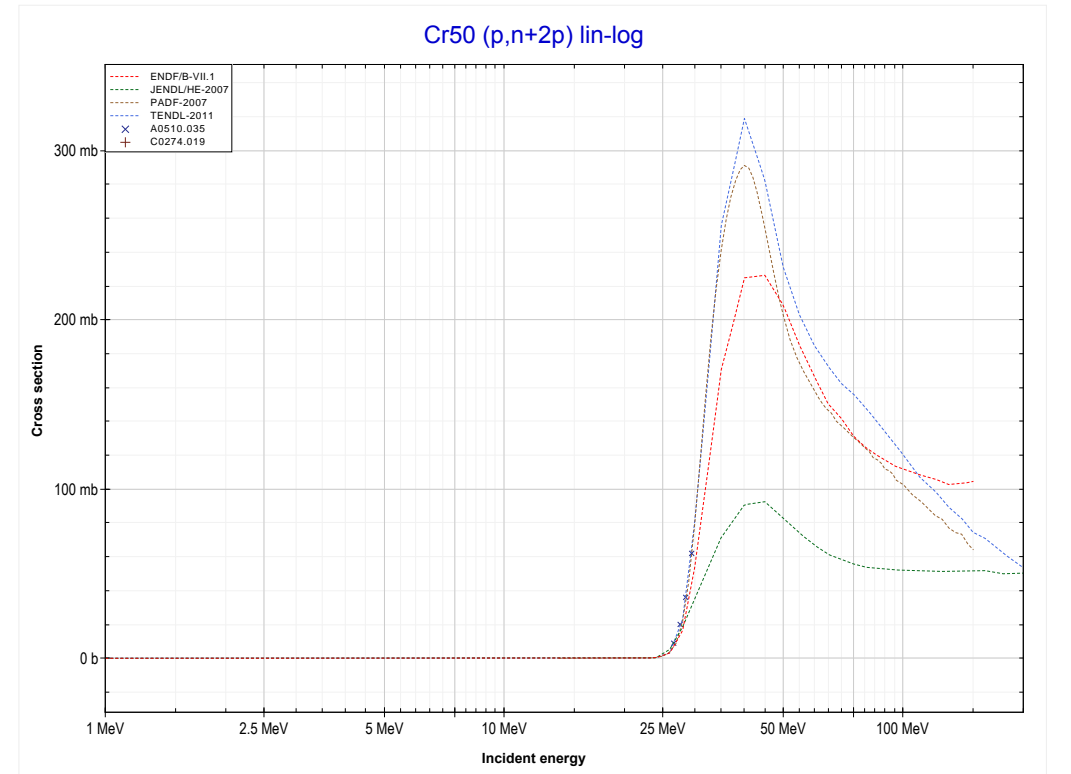
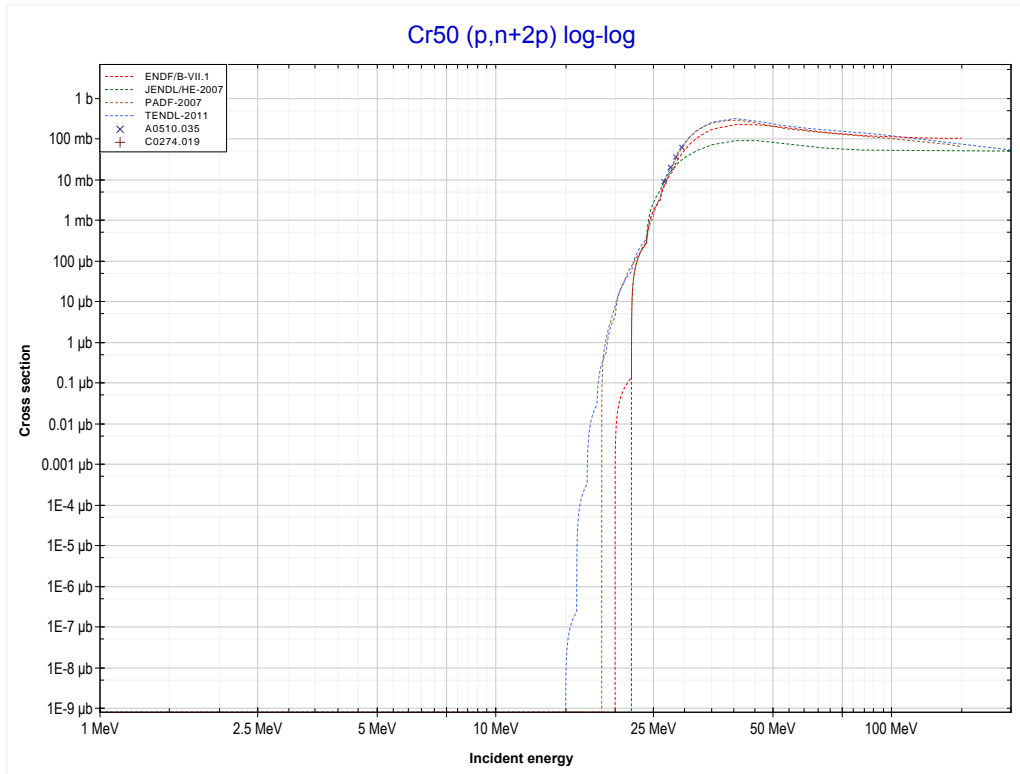
Reaction	Q-Value
Cr50(p,d)Cr49	-10775.75 keV
Cr50(p,n+p)Cr49	-13000.32 keV

<< 21-Sc-45	<b>24-Cr-50</b>	26-Fe-57 >>
<< MT28 (p,n+p)	<b>MT41 (p,2n+p) or MT5 (Cr48 production)</b>	MT44 (p,n+2p) >>



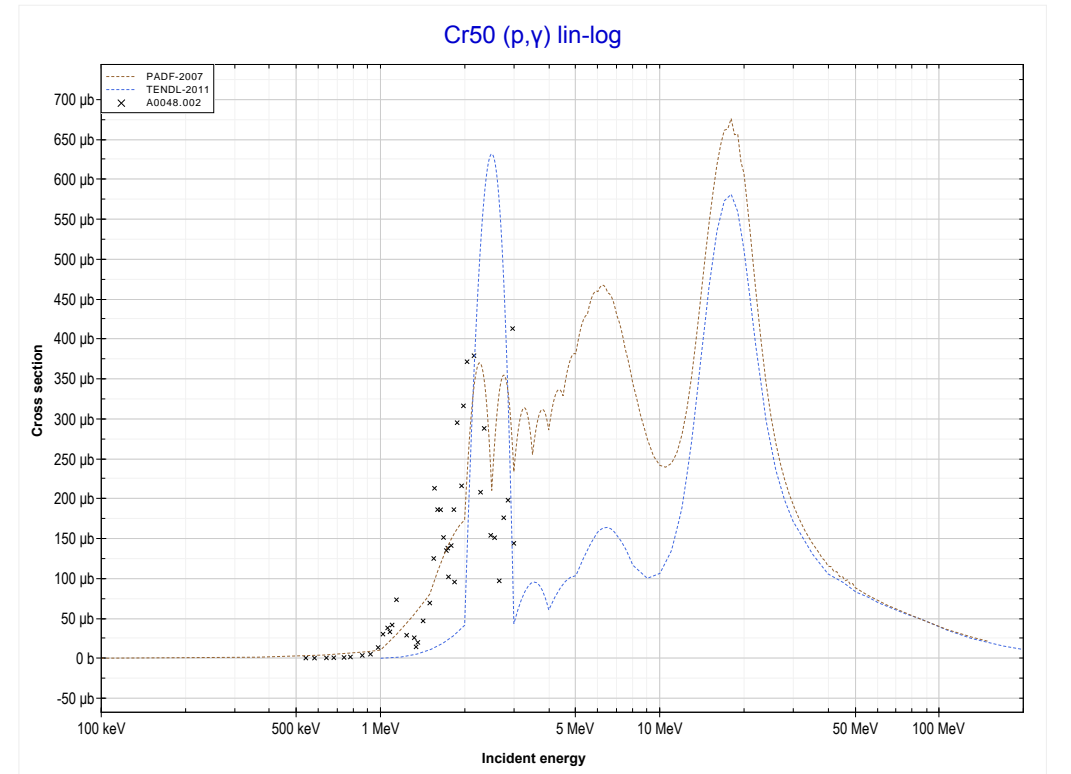
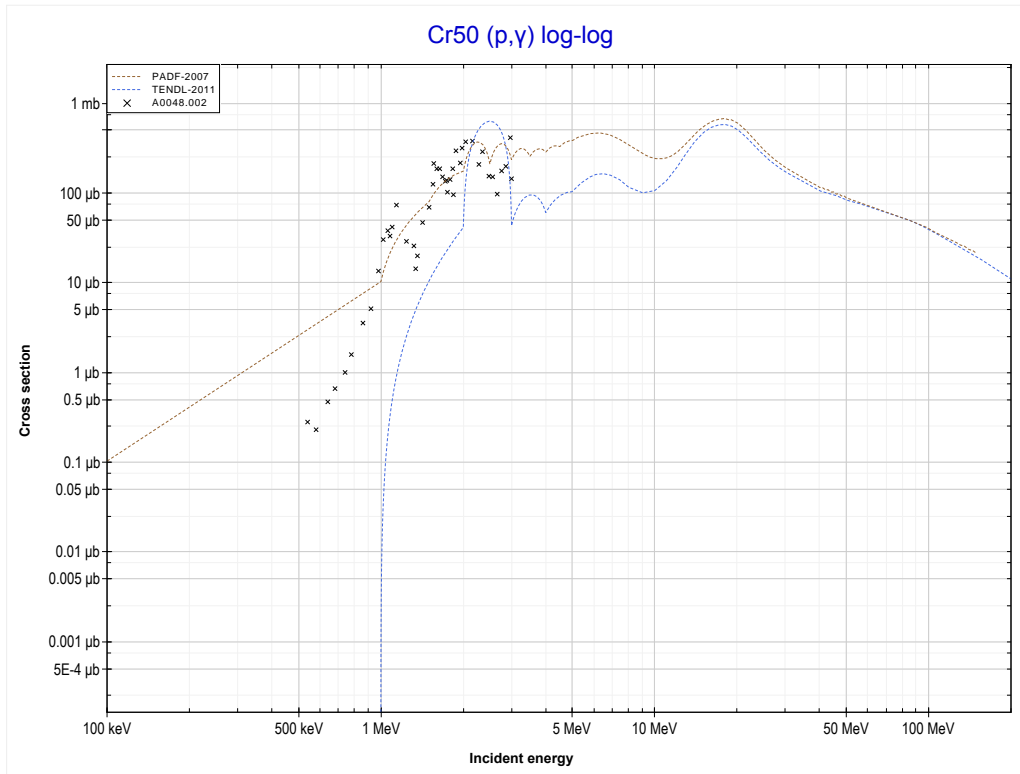
Reaction	Q-Value
Cr50(p,t)Cr48	-15101.34 keV
Cr50(p,n+d)Cr48	-21358.57 keV
Cr50(p,2n+p)Cr48	-23583.13 keV

<< 22-Ti-50	<b>24-Cr-50</b>	28-Ni-58 >>
<< MT41 (p,2n+p)	<b>MT44 (p,n+2p) or MT5 (V48 production)</b>	MT102 (p, $\gamma$ ) >>



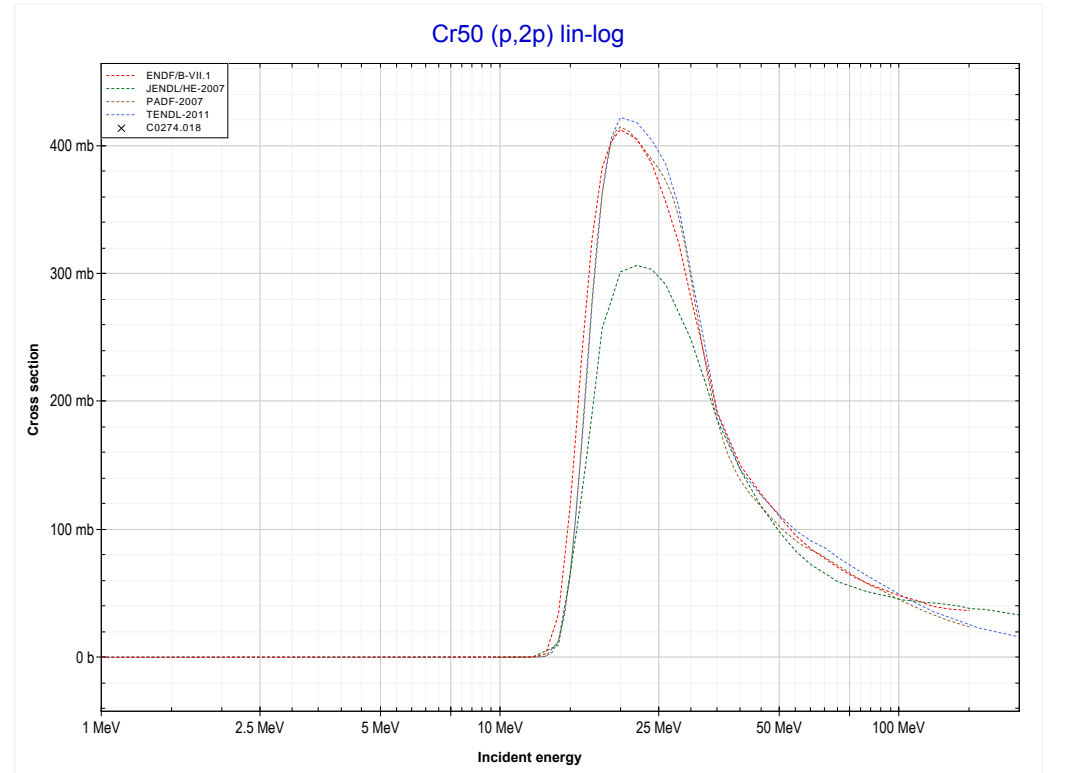
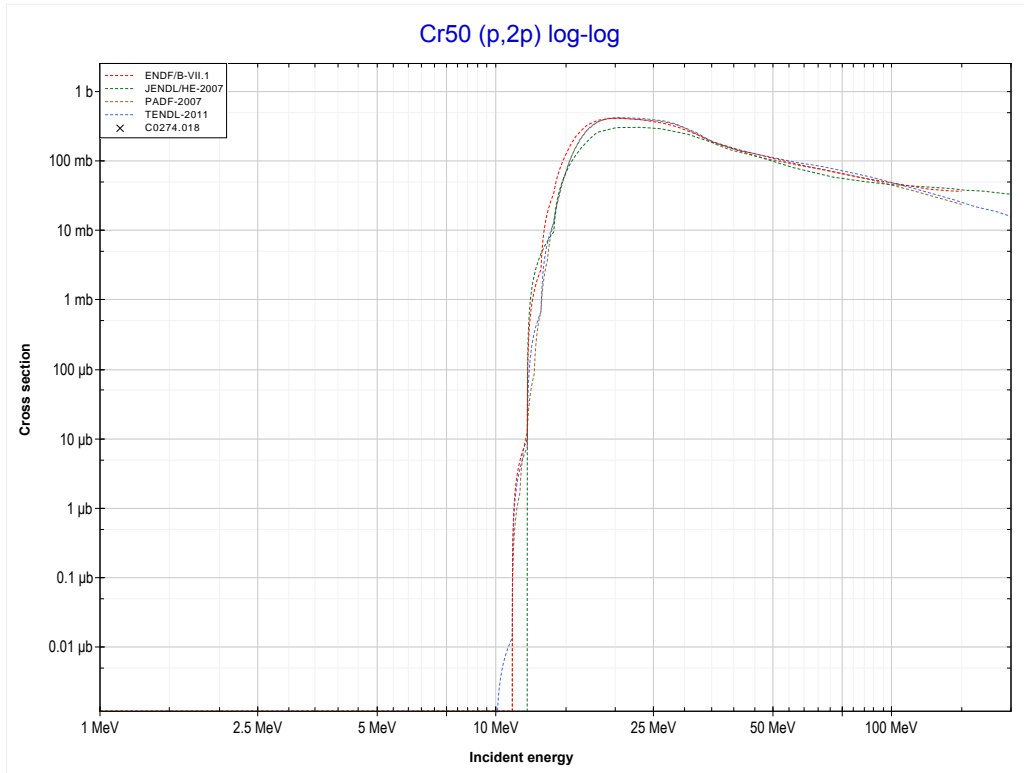
Reaction	Q-Value
Cr50(p,He3)V48	-13426.34 keV
Cr50(p,p+d)V48	-18919.82 keV
Cr50(p,n+2p)V48	-21144.39 keV

<< 23-V-51	<b>24-Cr-50</b>	24-Cr-52 >>
<< MT44 (p,n+2p)	<b>MT102 (p,<math>\gamma</math>) or MT5 (Mn51 production)</b>	MT111 (p,2p) >>



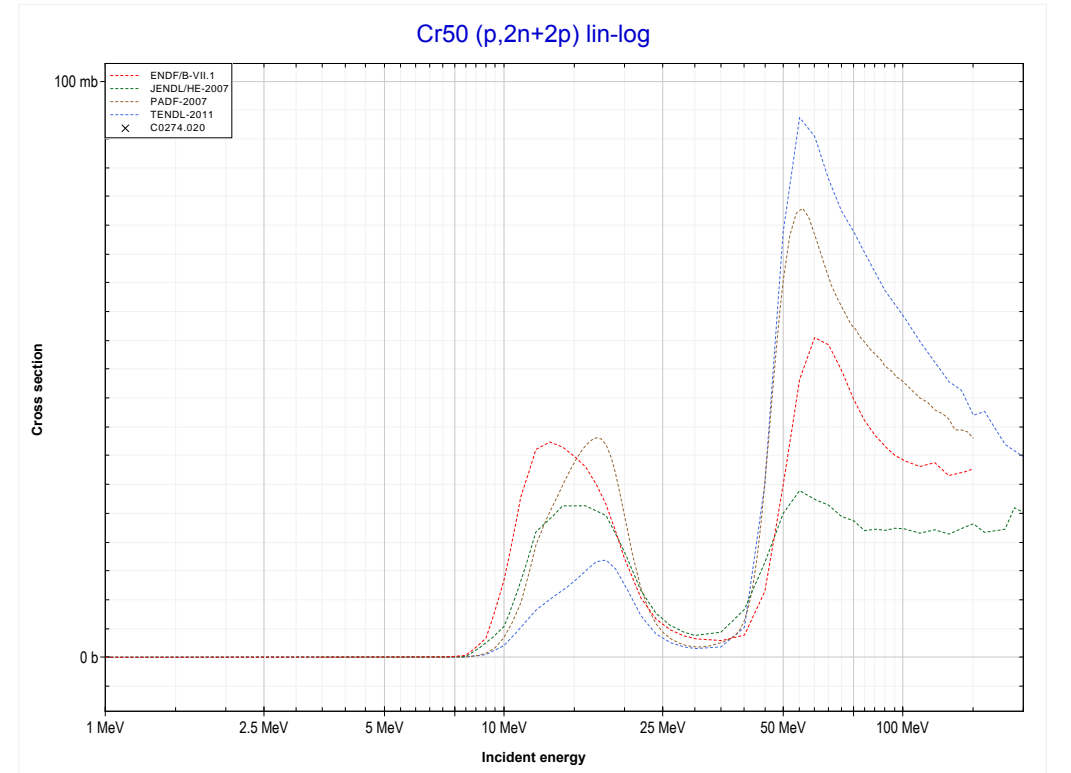
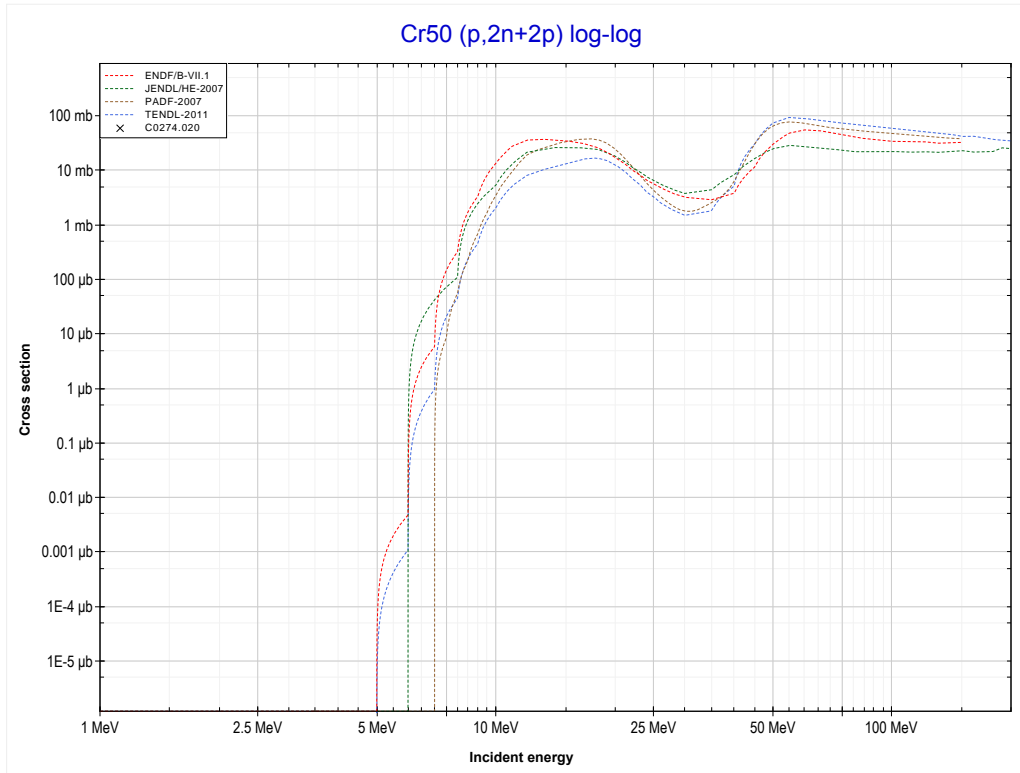
Reaction	Q-Value
Cr50(p, $\gamma$ )Mn51	5270.77 keV

<< 22-Ti-49	<b>24-Cr-50</b>	26-Fe-57 >>
<< MT102 (p, $\gamma$ )	<b>MT111 (p,2p) or MT5 (V49 production)</b>	MT190 (p,2n+2p) >>



Reaction	Q-Value
Cr50(p,2p)V49	-9591.57 keV

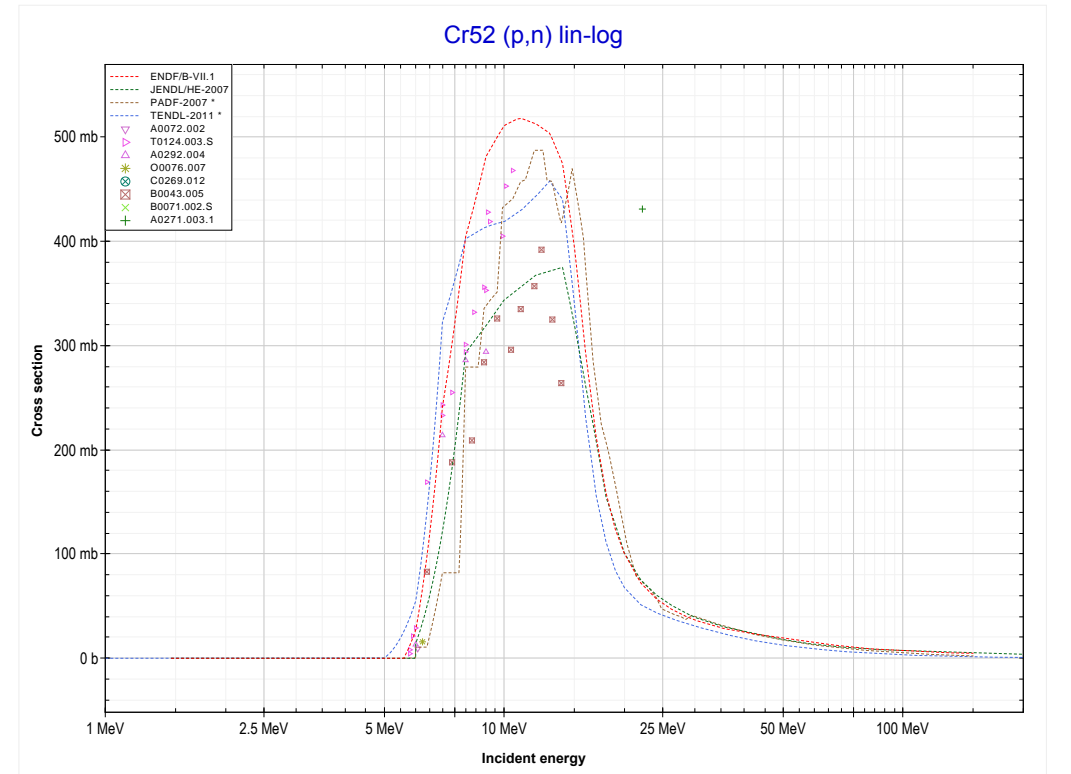
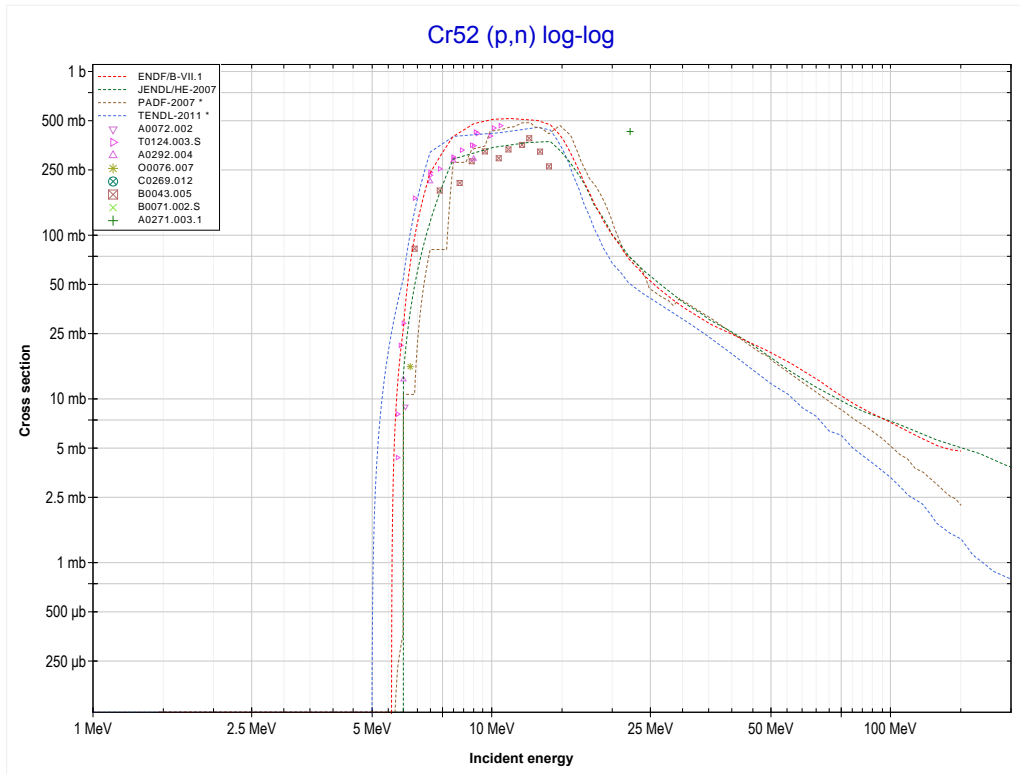
<< 12-Mg-25	<b>24-Cr-50</b>	28-Ni-58 >>
<< MT111 (p,2p)	<b>MT190 (p,2n+2p) or MT5 (V47 production)</b>	MT4 (p,n) >>



Reaction	Q-Value
Cr50(p,α)V47	-3393.35 keV
Cr50(p,p+t)V47	-23207.21 keV
Cr50(p,n+He3)V47	-23970.96 keV
Cr50(p,2d)V47	-27239.87 keV
Cr50(p,n+p+d)V47	-29464.44 keV
Cr50(p,2n+2p)V47	-31689.00 keV

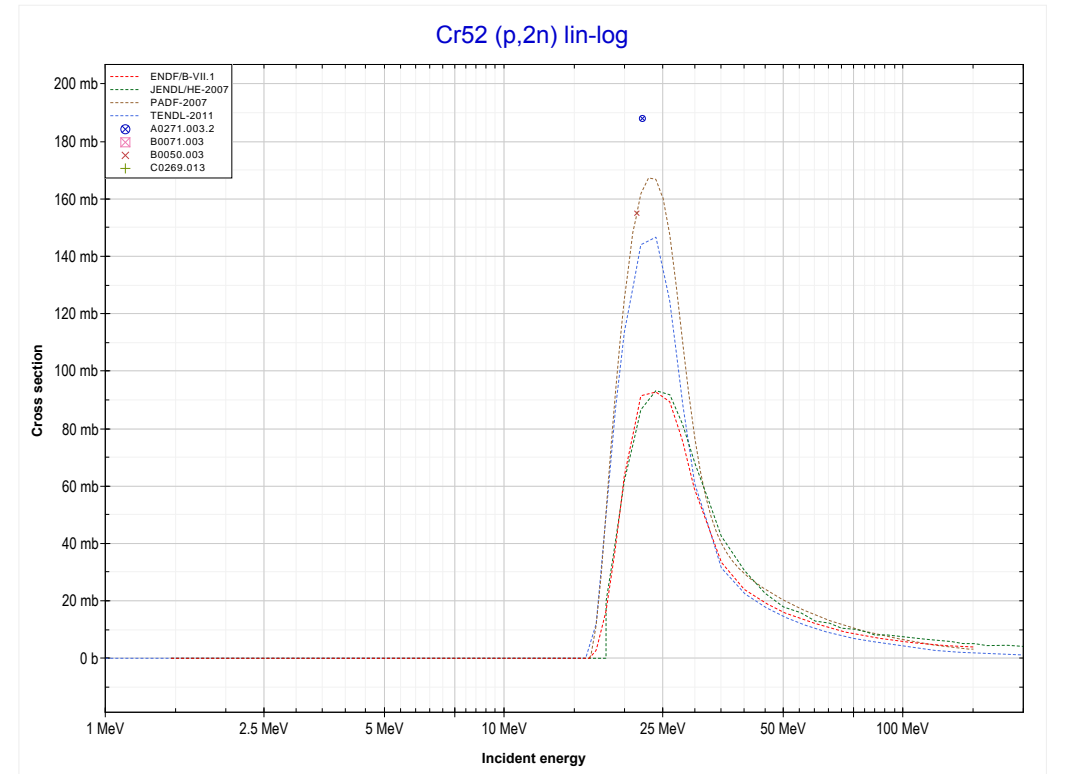
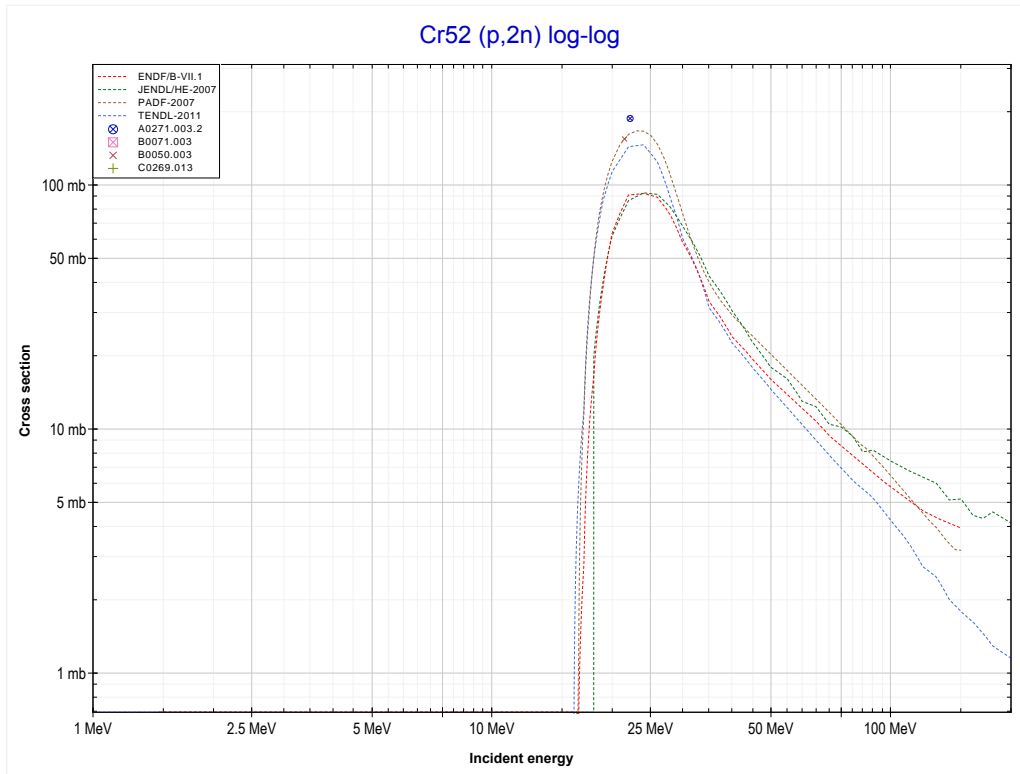


<< 24-Cr-50	<b>24-Cr-52</b>	24-Cr-53 >>
<< MT190 (p,2n+2p)	<b>MT4 (p,n) or MT5 (Mn52 production)</b>	MT16 (p,2n) >>



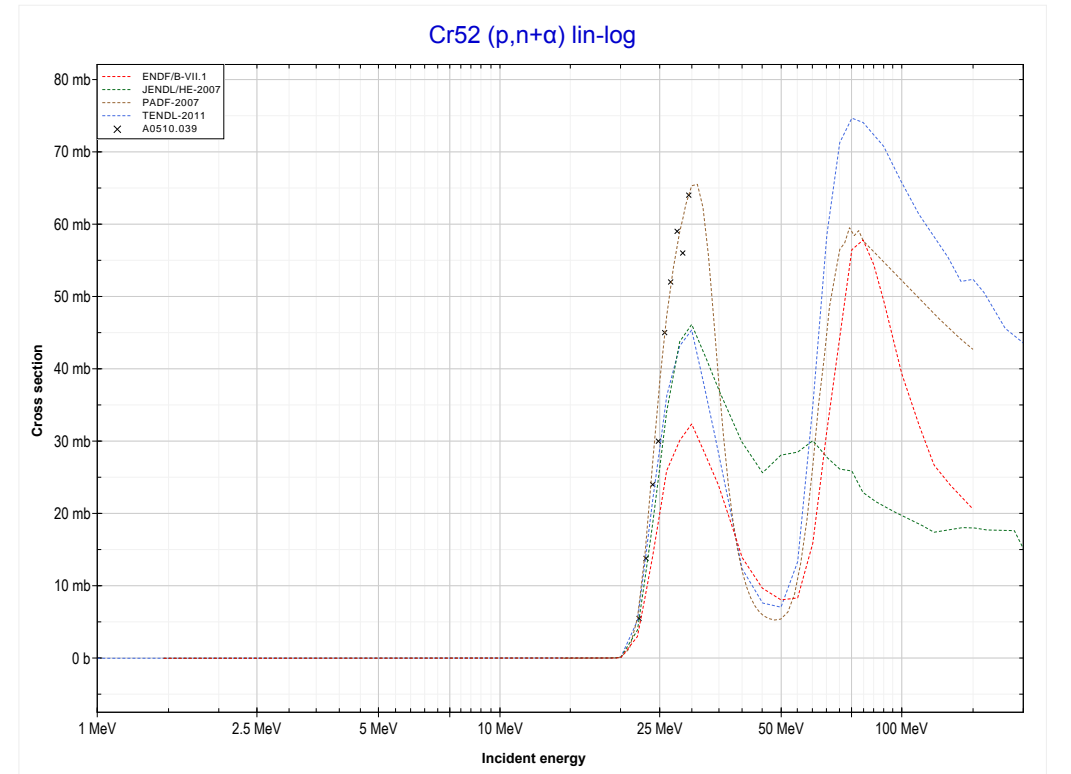
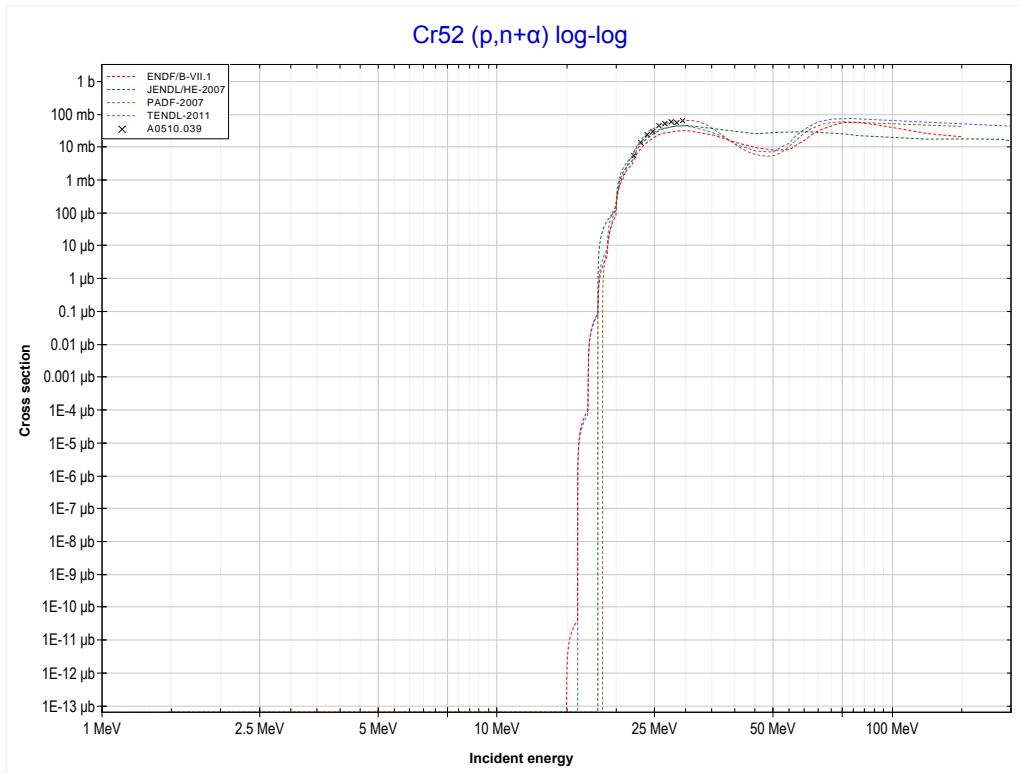
Reaction	Q-Value
Cr52(p,n)Mn52	-5493.85 keV

<< 22-Ti-49	<b>24-Cr-52</b>	24-Cr-53 >>
<< MT4 (p,n)	<b>MT16 (p,2n) or MT5 (Mn51 production)</b>	MT22 (p,n+α) >>



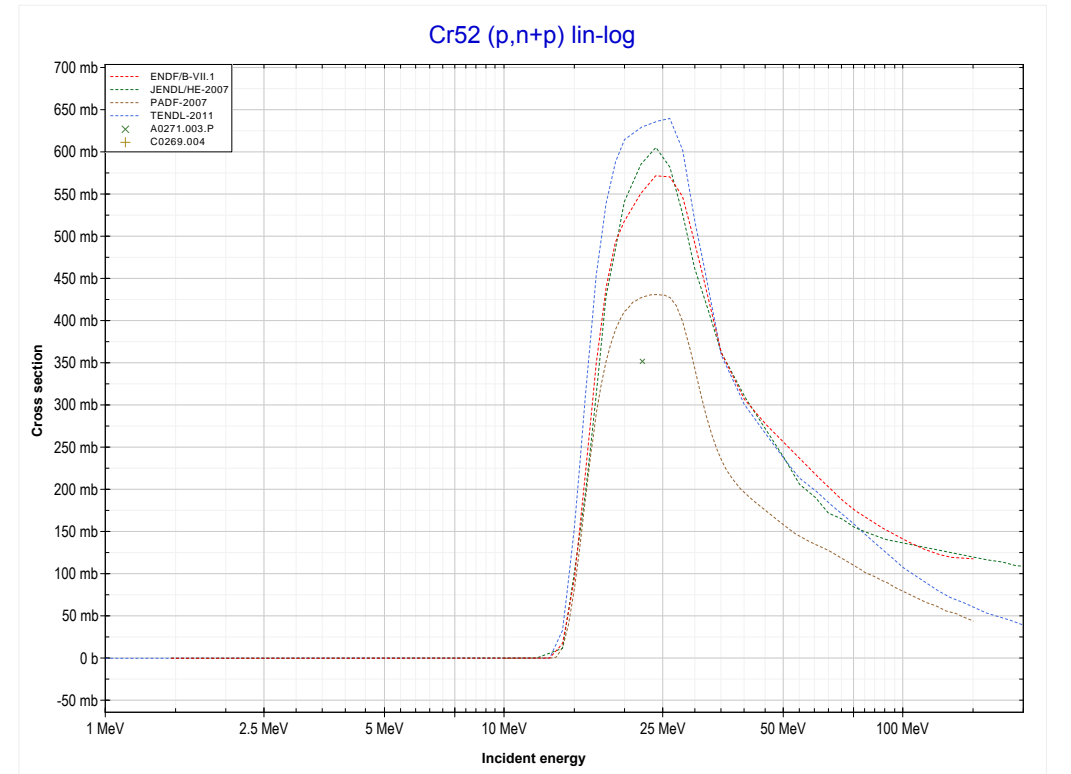
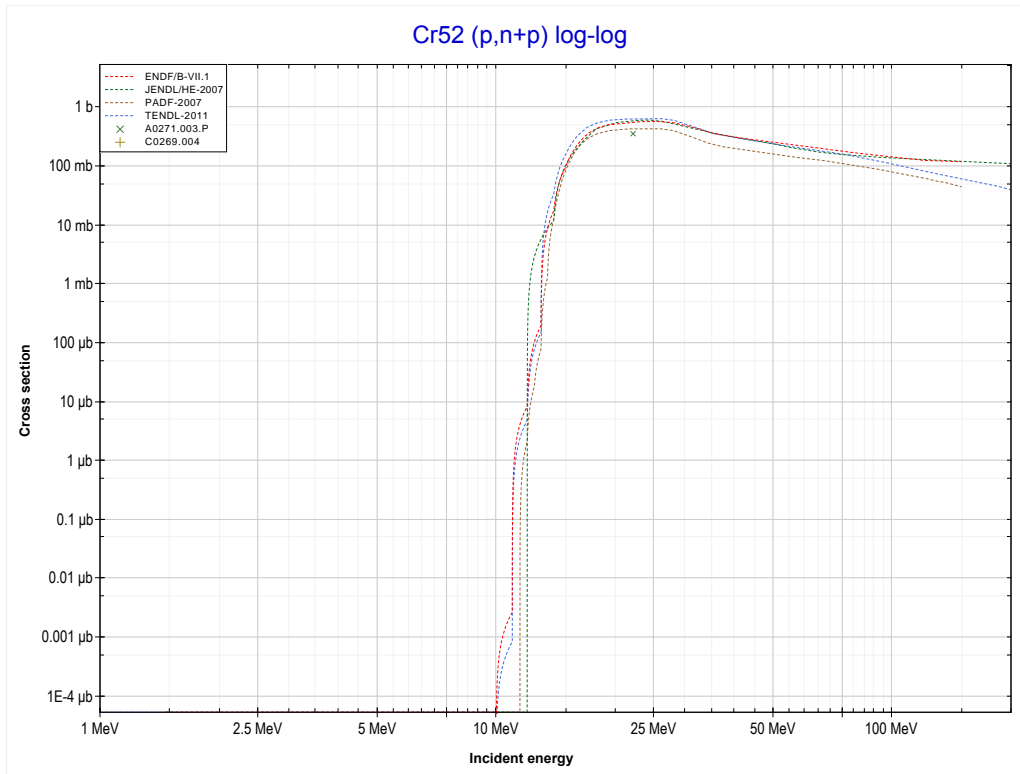
Reaction	Q-Value
Cr52(p,2n)Mn51	-16029.26 keV

<< 22-Ti-50	<b>24-Cr-52</b>	25-Mn-55 >>
<< MT16 (p,2n)	<b>MT22 (p,n+α) or MT5 (V48 production)</b>	MT28 (p,n+p) >>



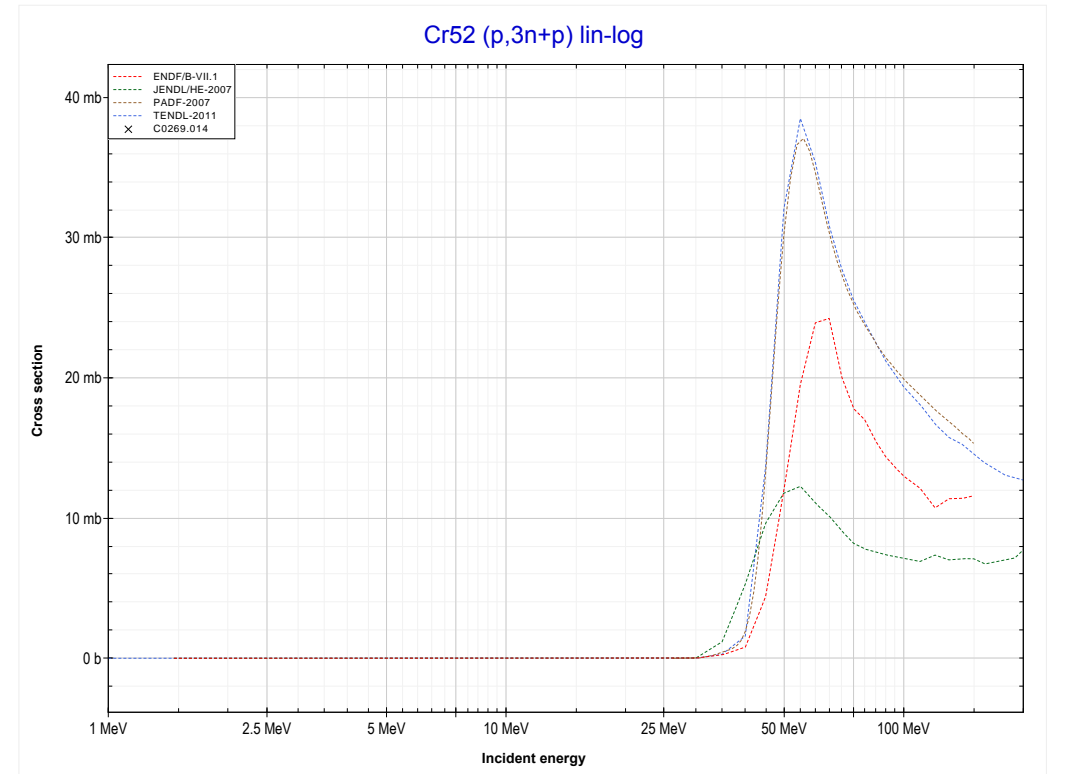
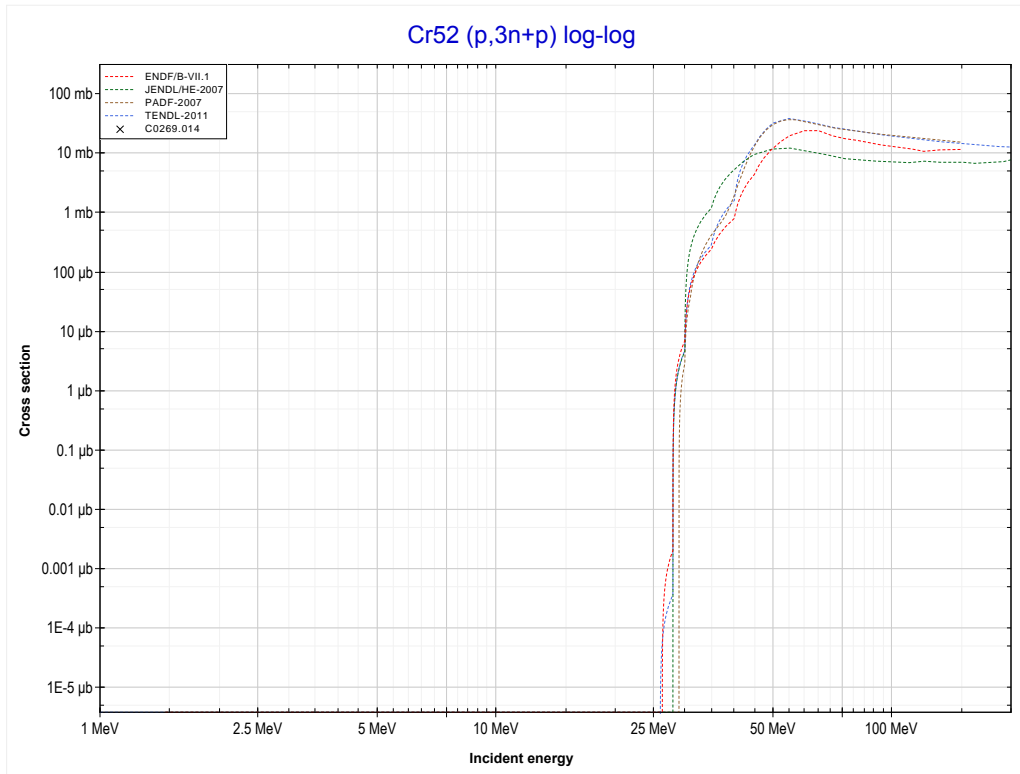
Reaction	Q-Value
Cr52(p,n+α)V48	-14148.76 keV
Cr52(p,d+t)V48	-31738.06 keV
Cr52(p,n+p+t)V48	-33962.62 keV
Cr52(p,2n+He3)V48	-34726.38 keV
Cr52(p,n+2d)V48	-37995.29 keV
Cr52(p,2n+p+d)V48	-40219.86 keV
Cr52(p,3n+2p)V48	-42444.42 keV

<< 24-Cr-50	<b>24-Cr-52</b>	25-Mn-55 >>
<< MT22 (p,n+α)	<b>MT28 (p,n+p) or MT5 (Cr51 production)</b>	MT42 (p,3n+p) >>



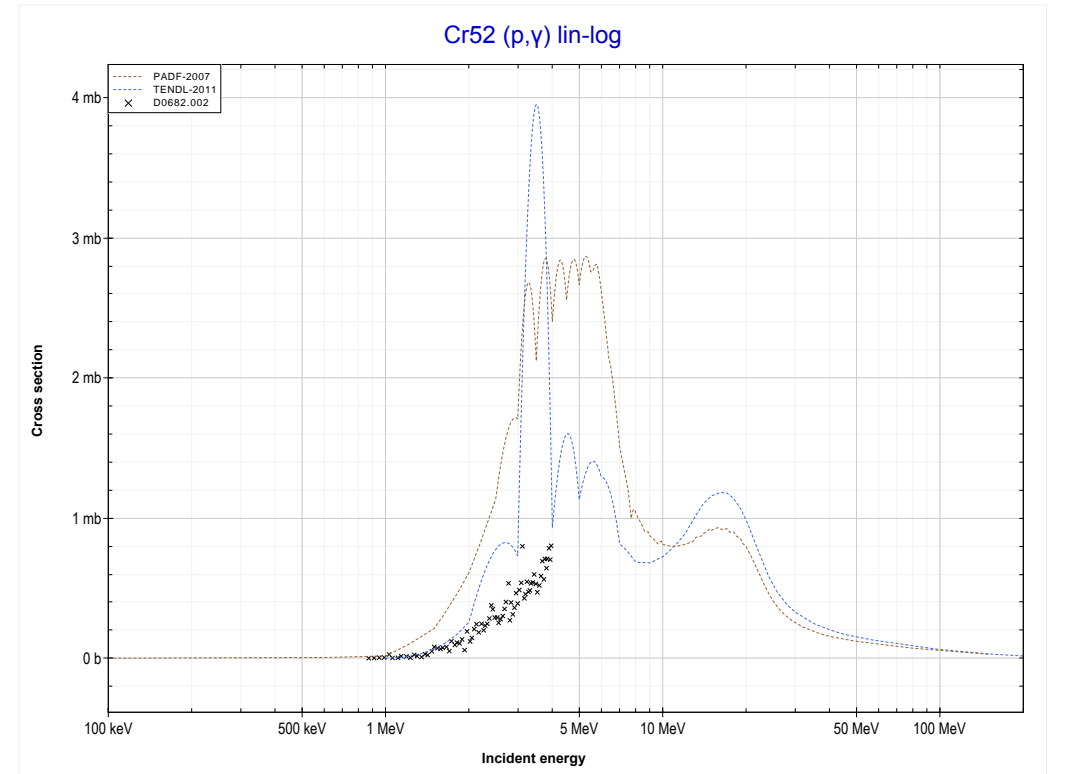
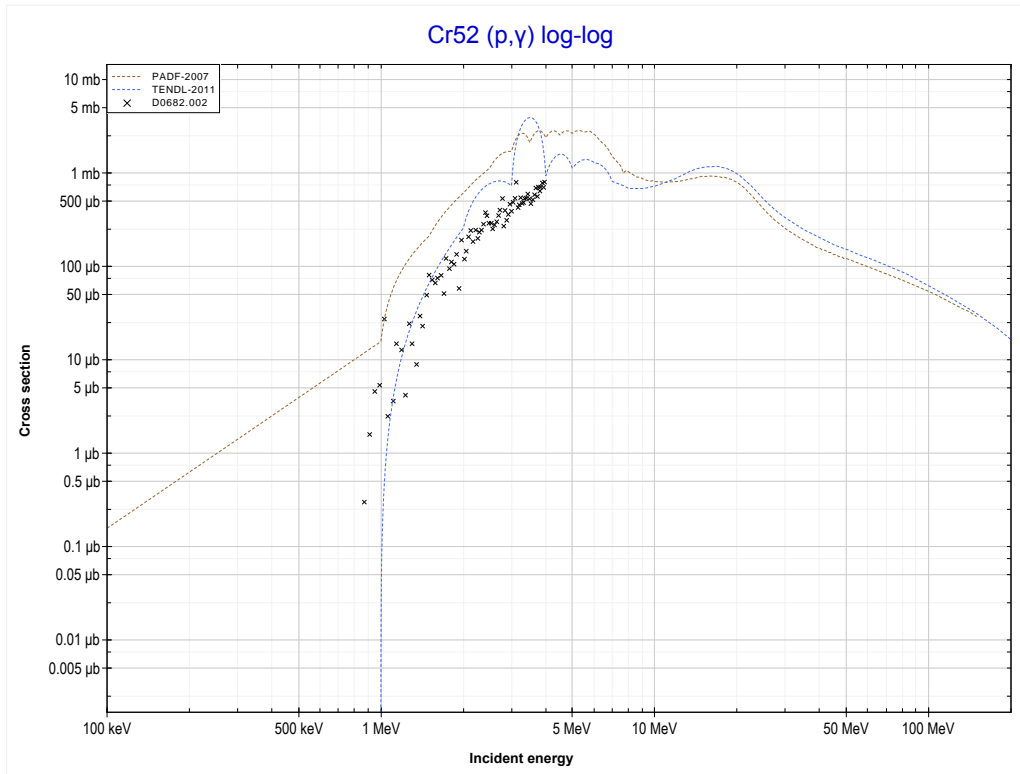
Reaction	Q-Value
Cr52(p,d)Cr51	-9814.85 keV
Cr52(p,n+p)Cr51	-12039.42 keV

	<b>24-Cr-52</b>	26-Fe-56 >>
<< MT28 (p,n+p)	<b>MT42 (p,3n+p) or MT5 (Cr49 production)</b>	MT102 (p, $\gamma$ ) >>



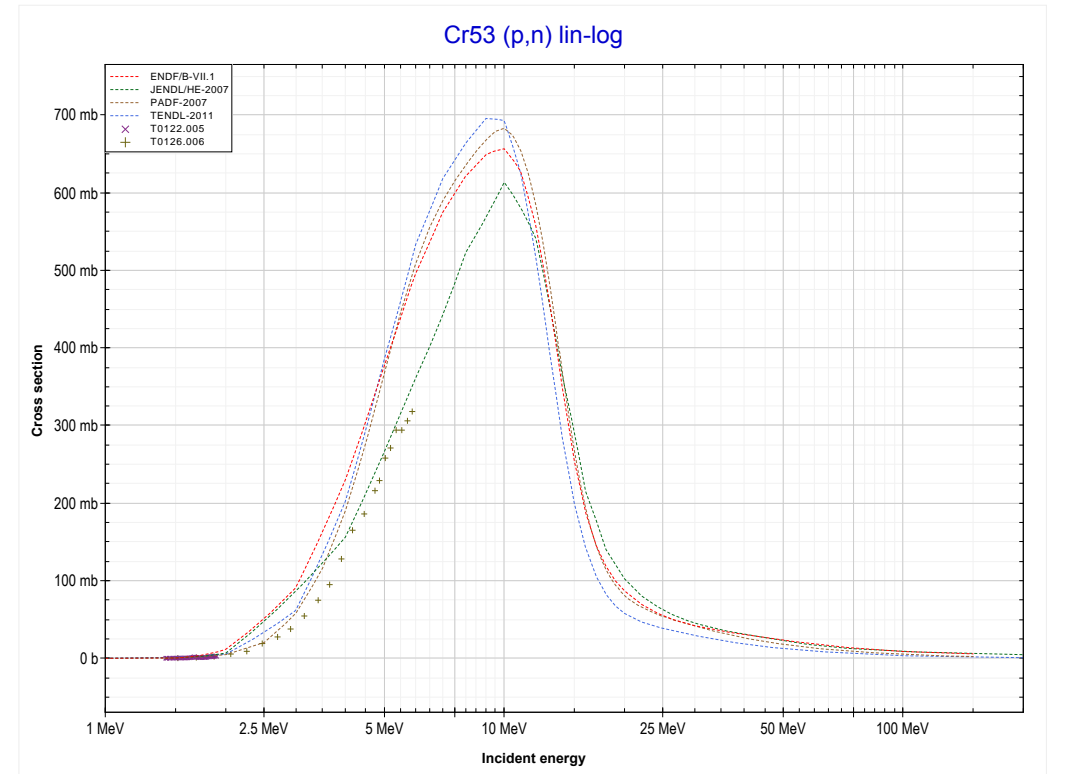
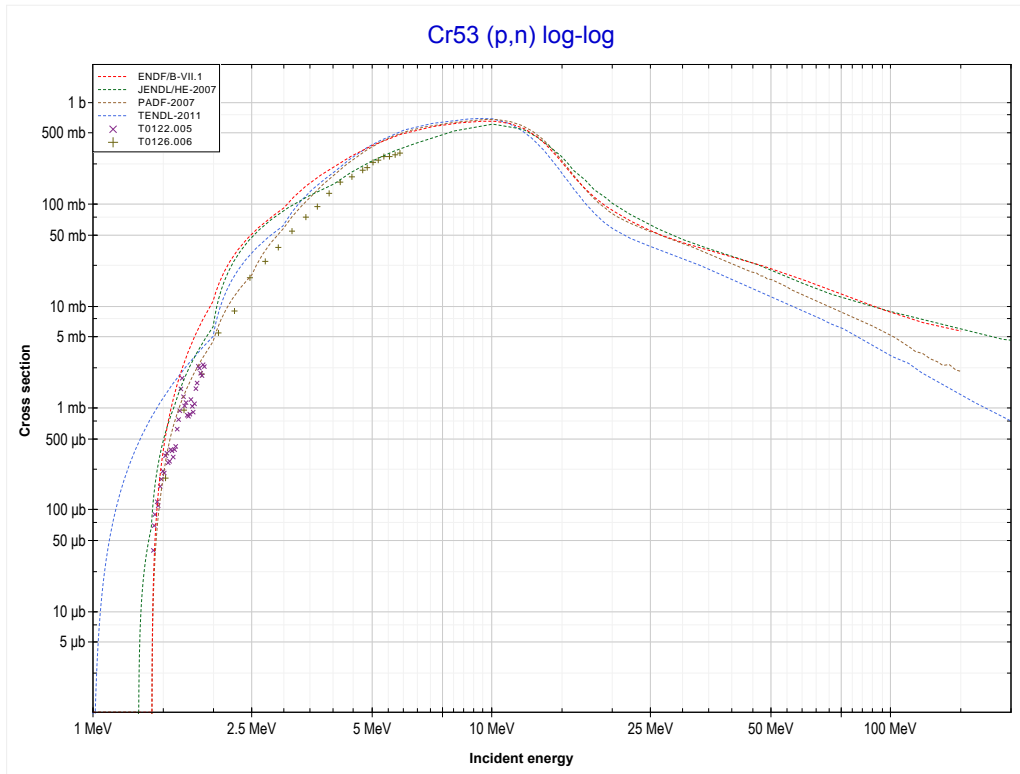
Reaction	Q-Value
Cr52(p,n+t)Cr49	-25818.55 keV
Cr52(p,2n+d)Cr49	-32075.79 keV
Cr52(p,3n+p)Cr49	-34300.35 keV

<< 24-Cr-50	<b>24-Cr-52</b>	24-Cr-54 >>
<< MT42 (p,3n+p)	<b>MT102 (p,<math>\gamma</math>) or MT5 (Mn53 production)</b>	MT4 (p,n) >>



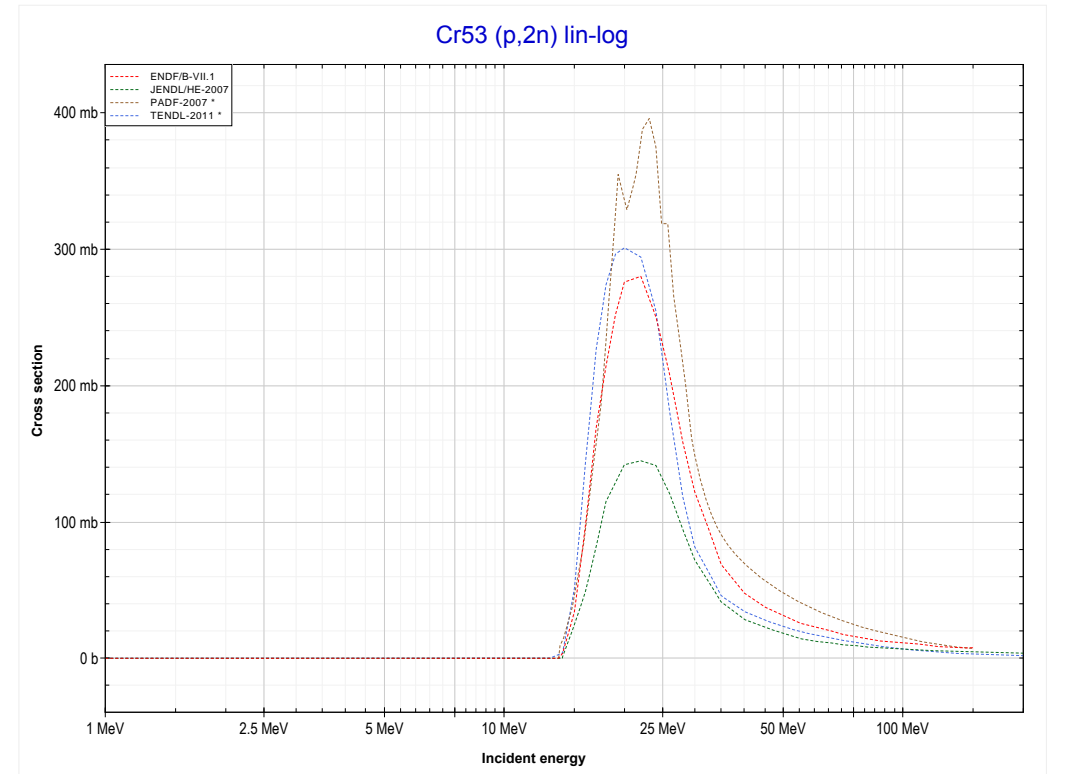
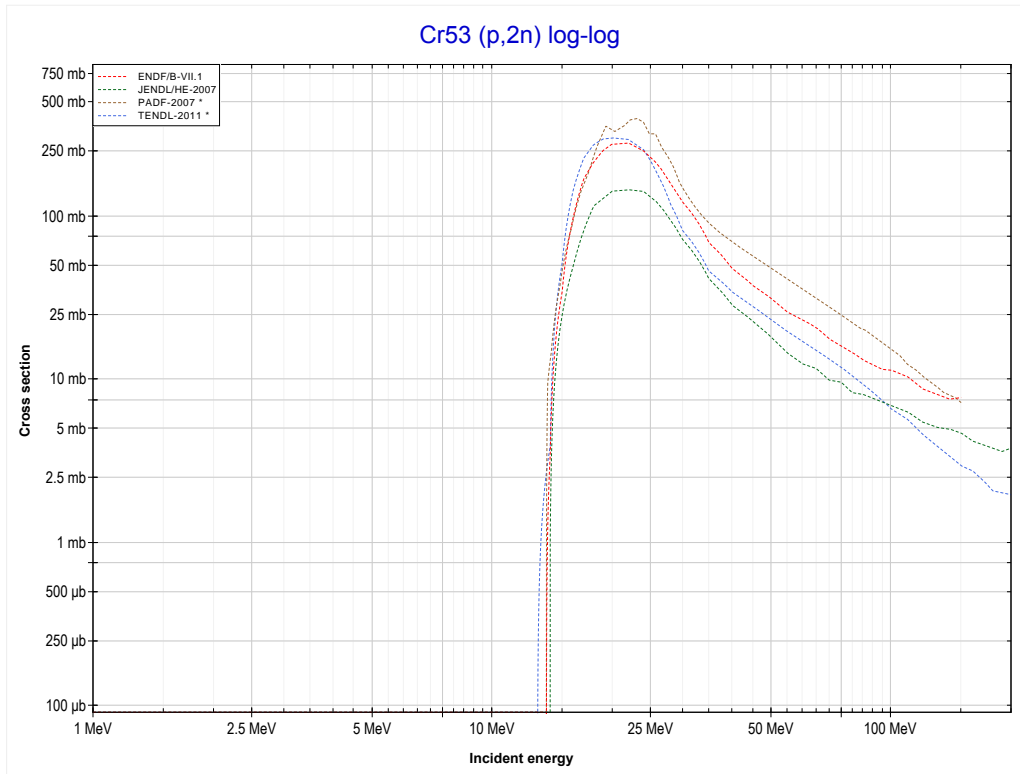
Reaction	Q-Value
Cr52(p, $\gamma$ )Mn53	6559.97 keV

<< 24-Cr-52	<b>24-Cr-53</b>	24-Cr-54 >>
<< MT102 (p, $\gamma$ )	<b>MT4 (p,n) or MT5 (Mn53 production)</b>	MT16 (p,2n) >>



Reaction	Q-Value
Cr53(p,n)Mn53	-1379.15 keV

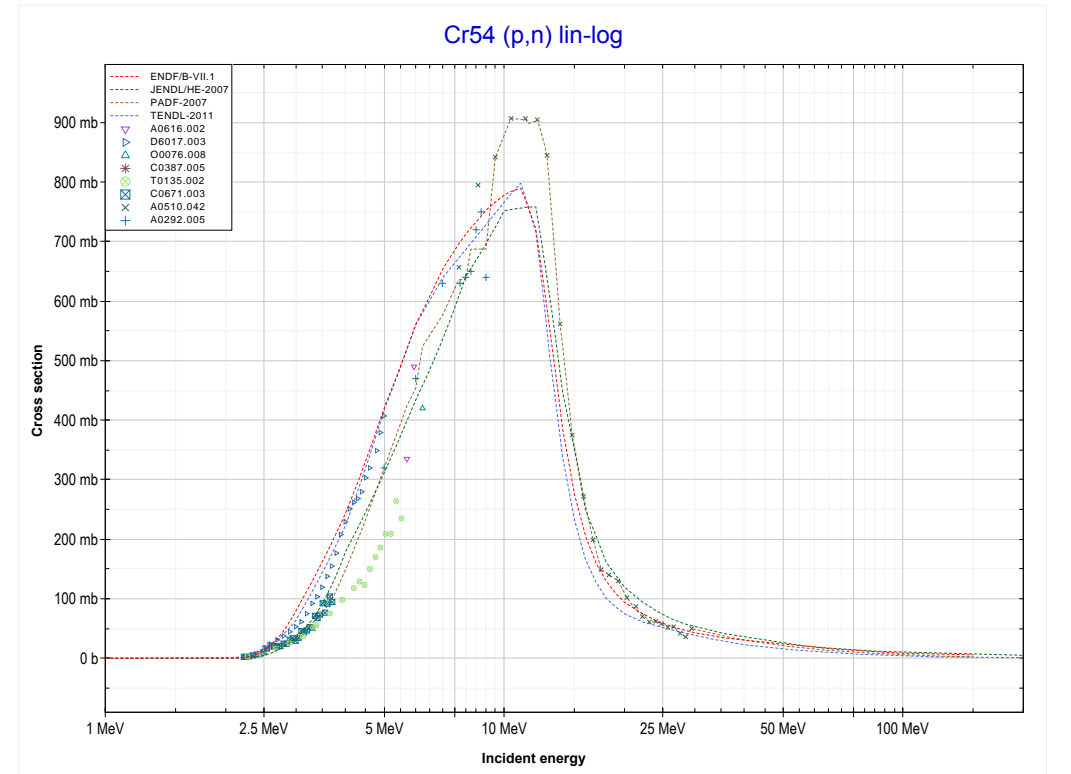
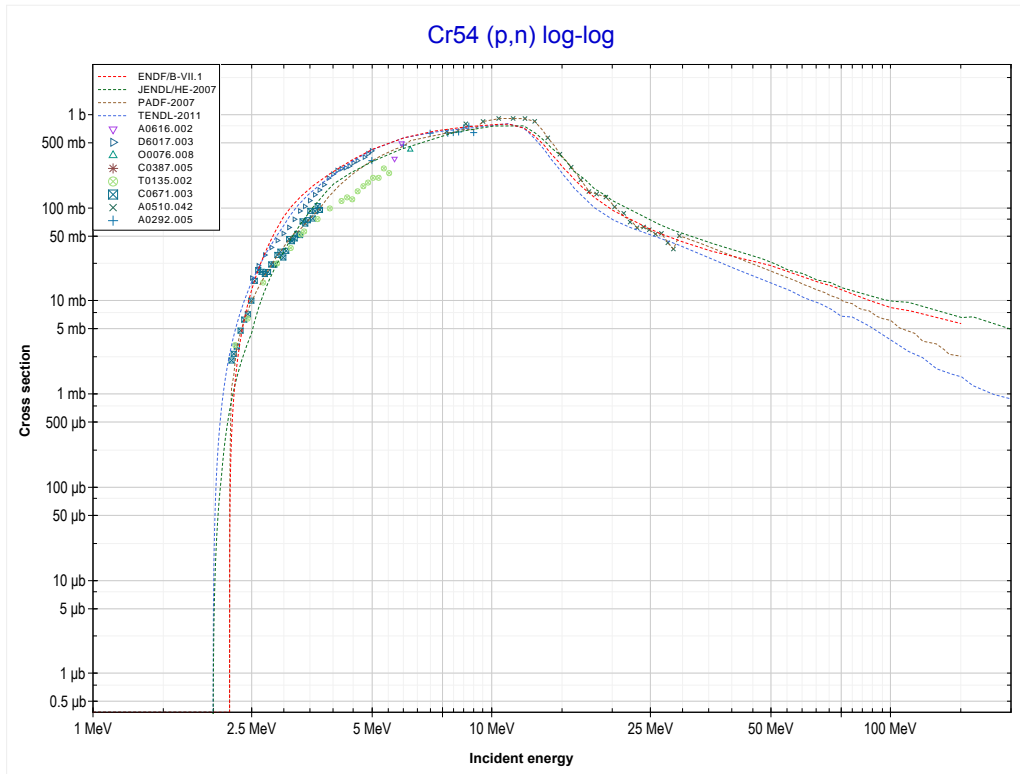
<< 24-Cr-52	<b>24-Cr-53</b>	26-Fe-56 >>
<< MT4 (p,n)	<b>MT16 (p,2n) or MT5 (Mn52 production)</b>	MT4 (p,n) >>



<b>Reaction</b>	<b>Q-Value</b>
Cr53(p,2n)Mn52	-13432.96 keV

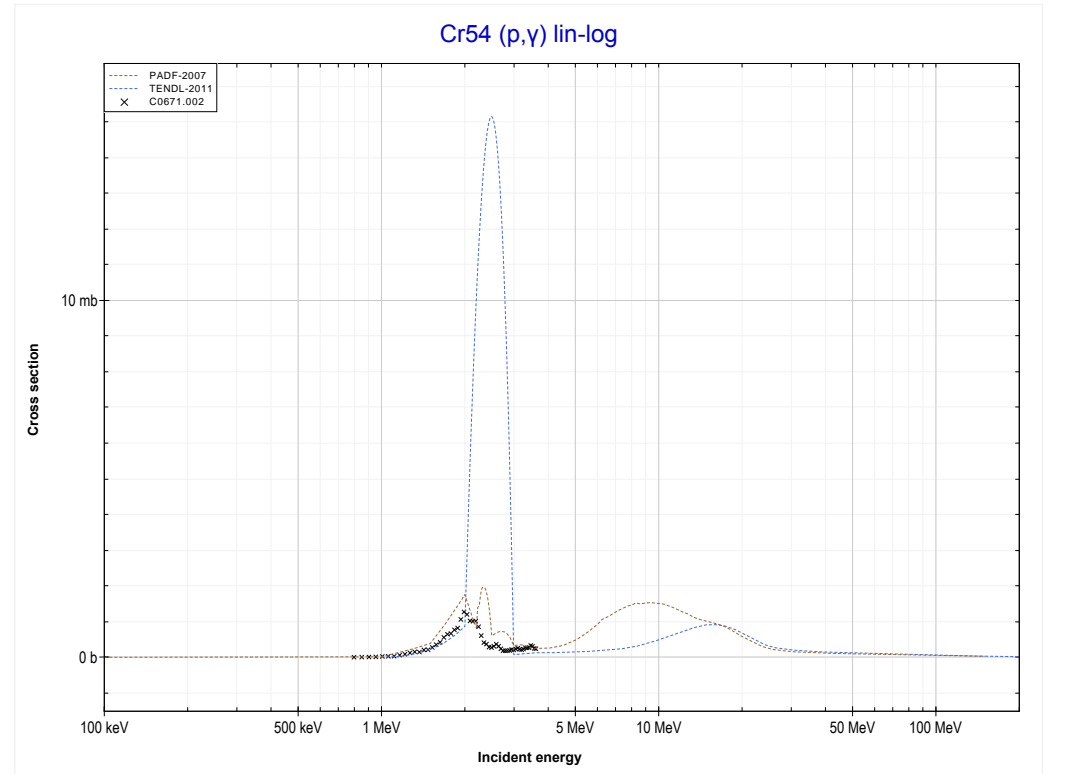
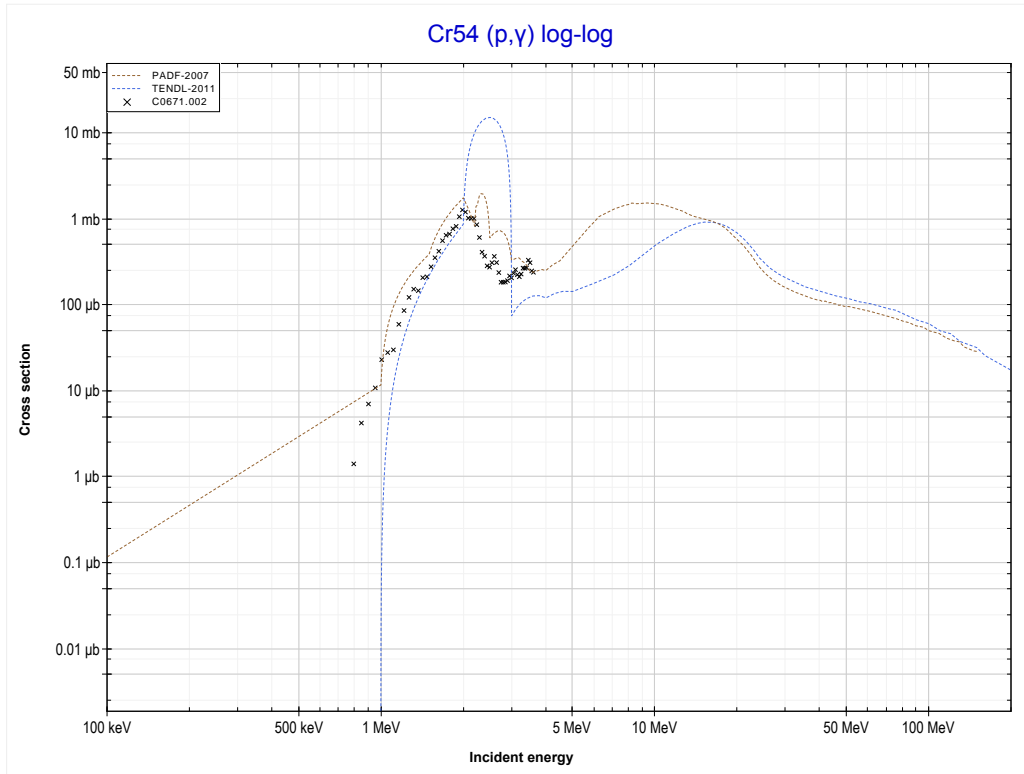


<< 24-Cr-53	<b>24-Cr-54</b>	25-Mn-55 >>
<< MT16 (p,2n)	<b>MT4 (p,n) or MT5 (Mn54 production)</b>	MT102 (p, $\gamma$ ) >>



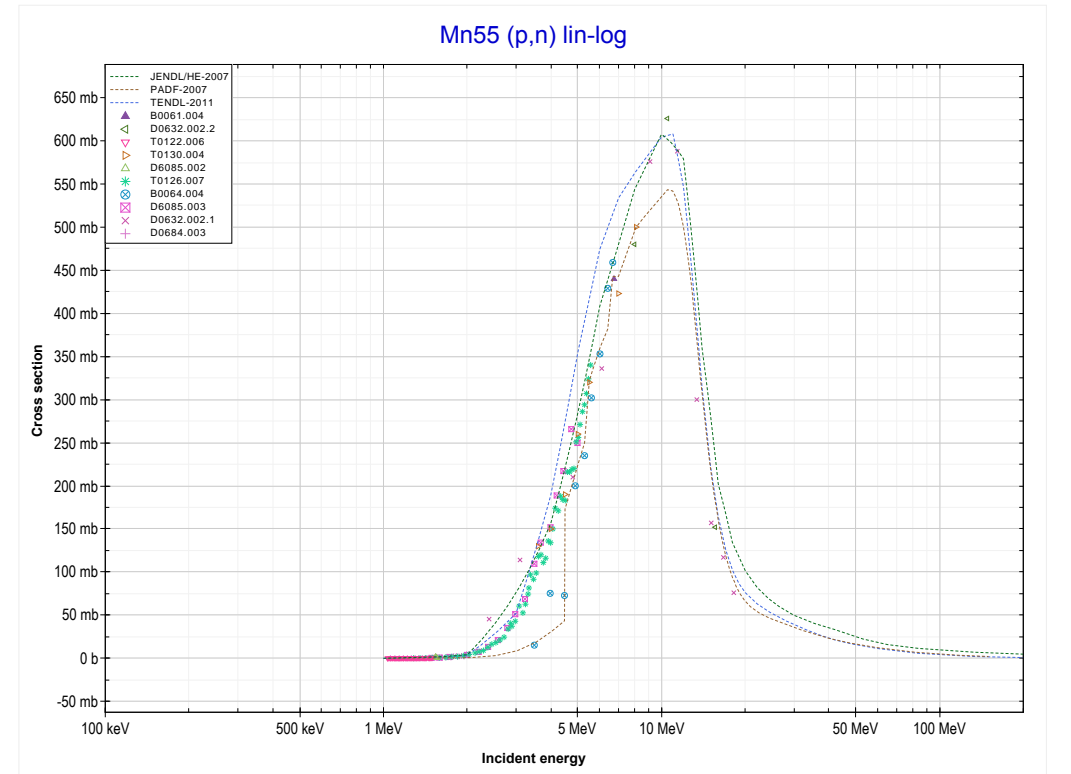
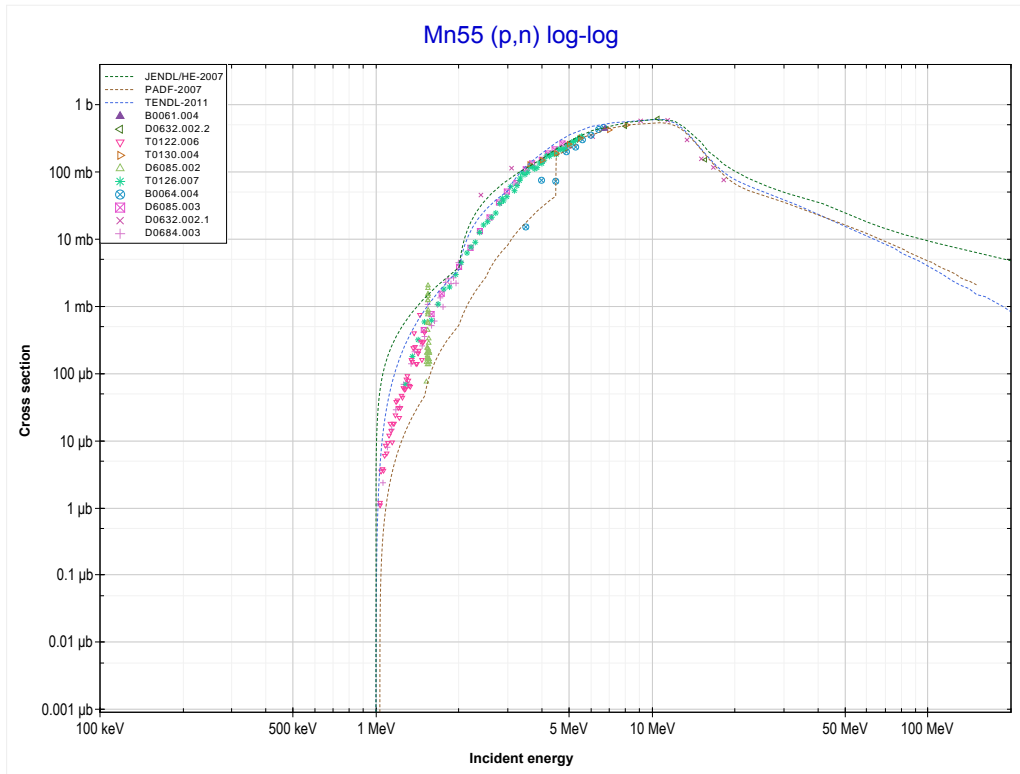
Reaction	Q-Value
Cr54(p,n)Mn54	-2159.45 keV

<< 24-Cr-52	<b>24-Cr-54</b>	25-Mn-55 >>
<< MT4 (p,n)	<b>MT102 (p,<math>\gamma</math>) or MT5 (Mn55 production)</b>	MT4 (p,n) >>



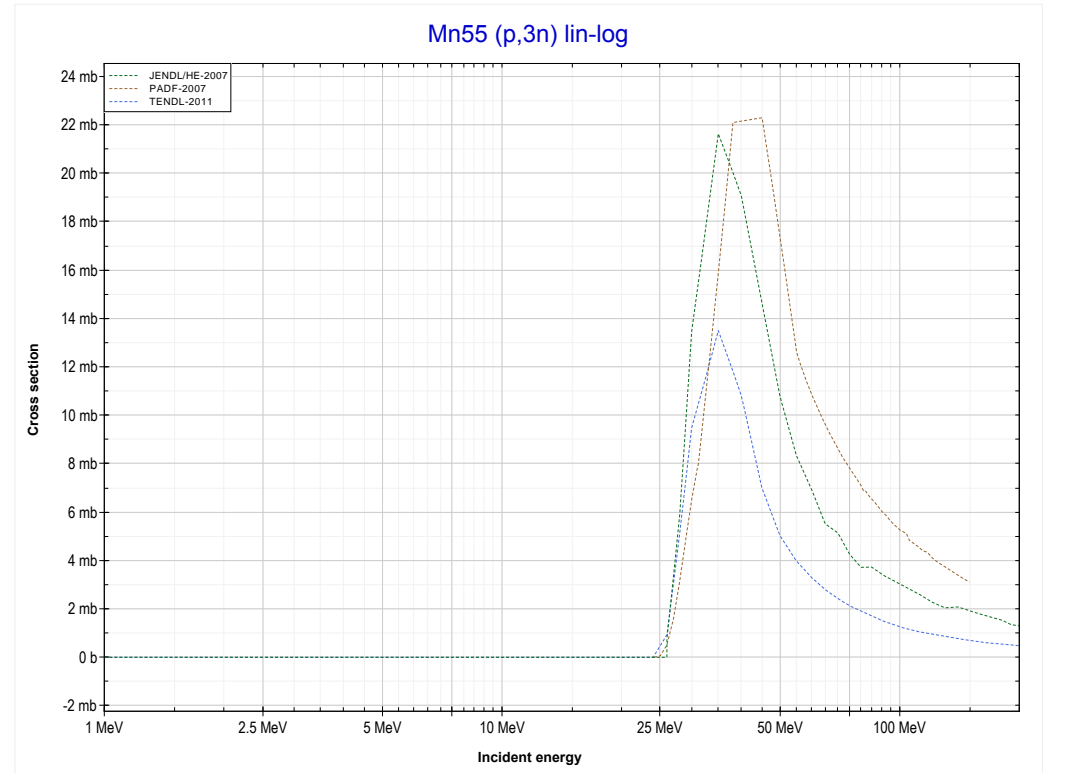
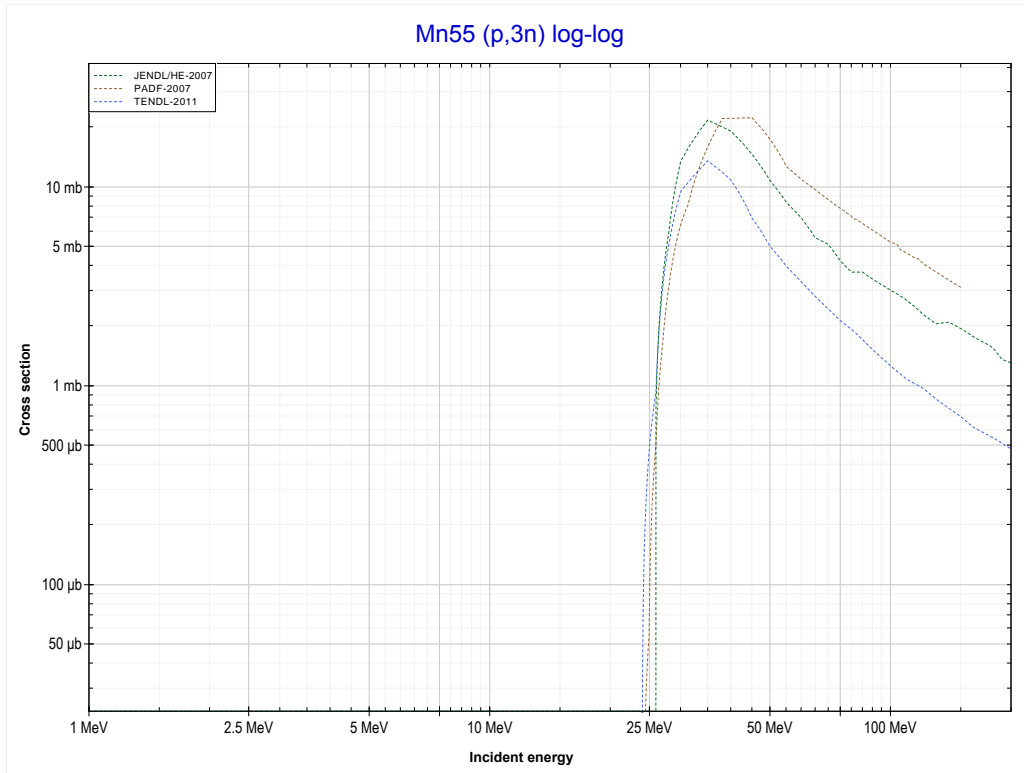
Reaction	Q-Value
Cr54(p, $\gamma$ )Mn55	8067.07 keV

<< 24-Cr-54	<b>25-Mn-55</b>	26-Fe-56 >>
<< MT102 (p, $\gamma$ )	<b>MT4 (p,n) or MT5 (Fe55 production)</b>	MT17 (p,3n) >>



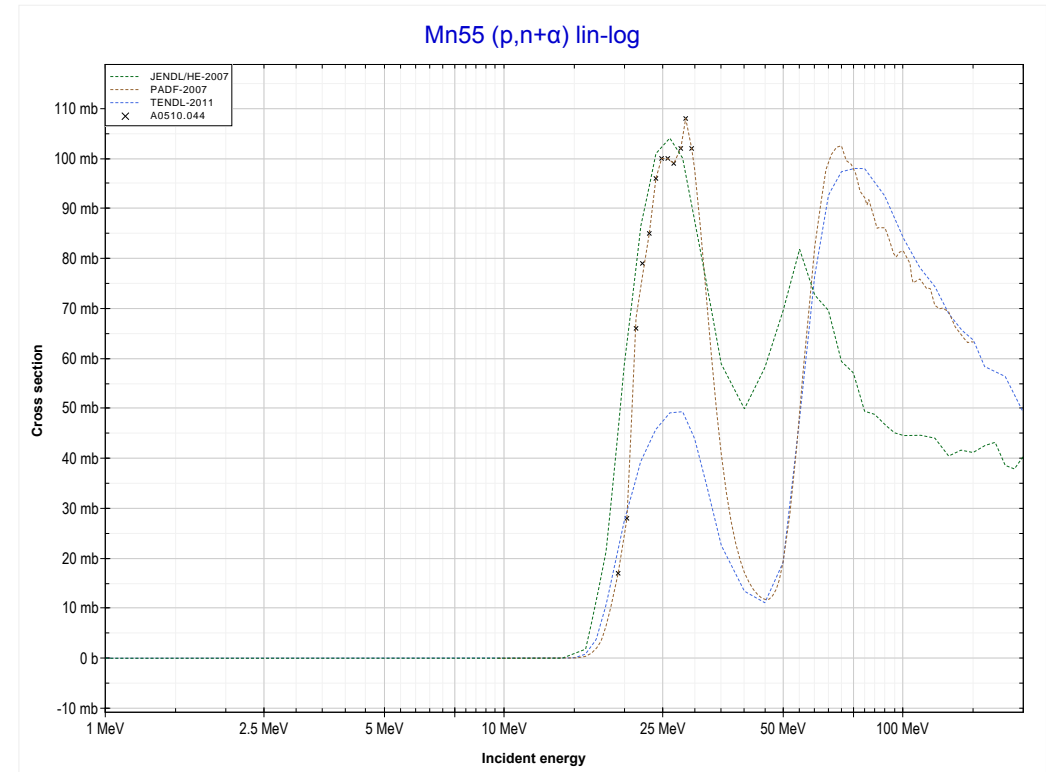
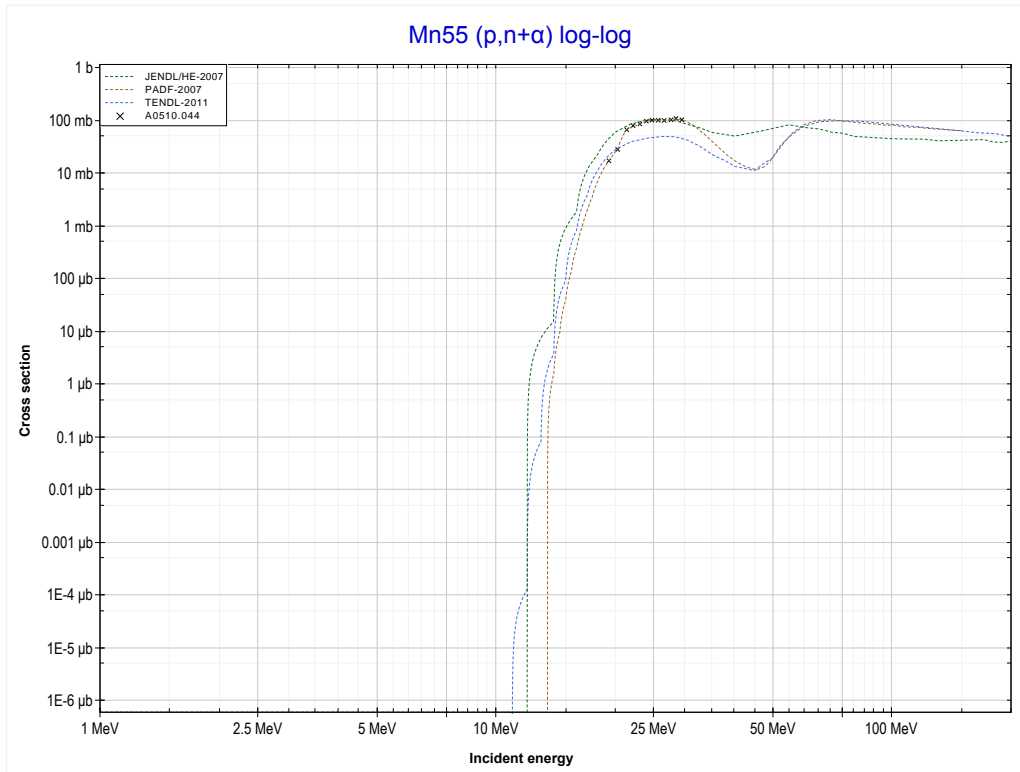
Reaction	Q-Value
Mn55(p,n)Fe55	-1013.55 keV

<< 23-V-51	<b>25-Mn-55</b>	26-Fe-57 >>
<< MT4 (p,n)	<b>MT17 (p,3n) or MT5 (Fe53 production)</b>	MT22 (p,n+α) >>



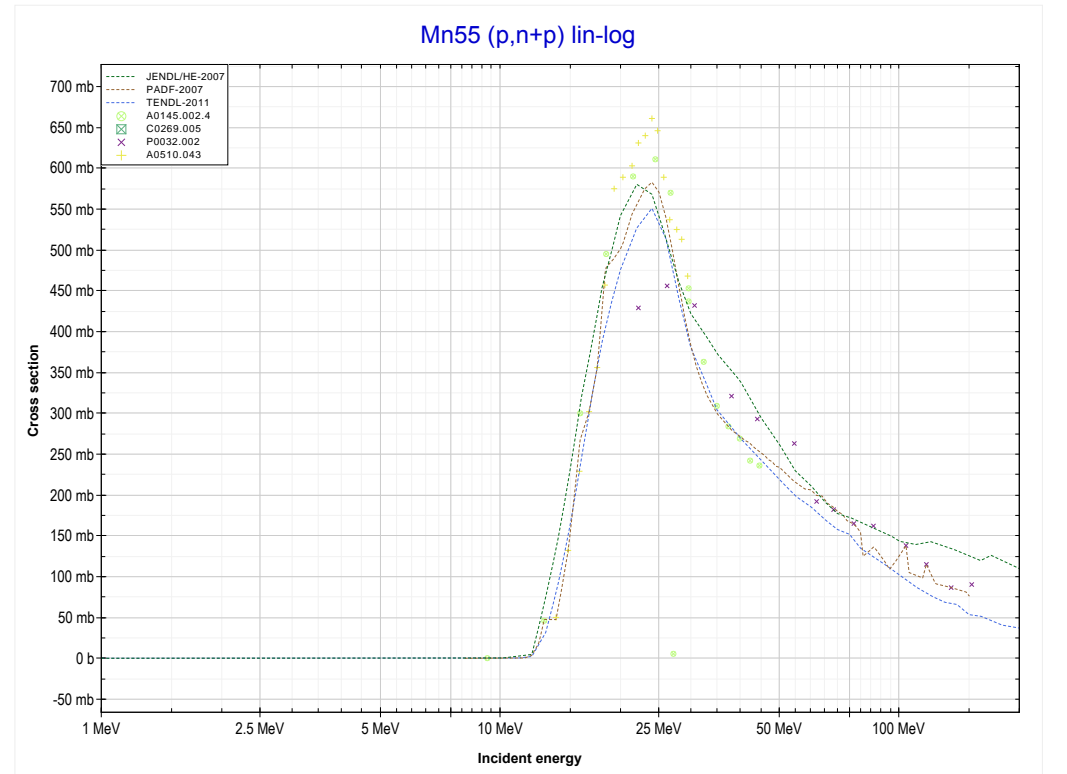
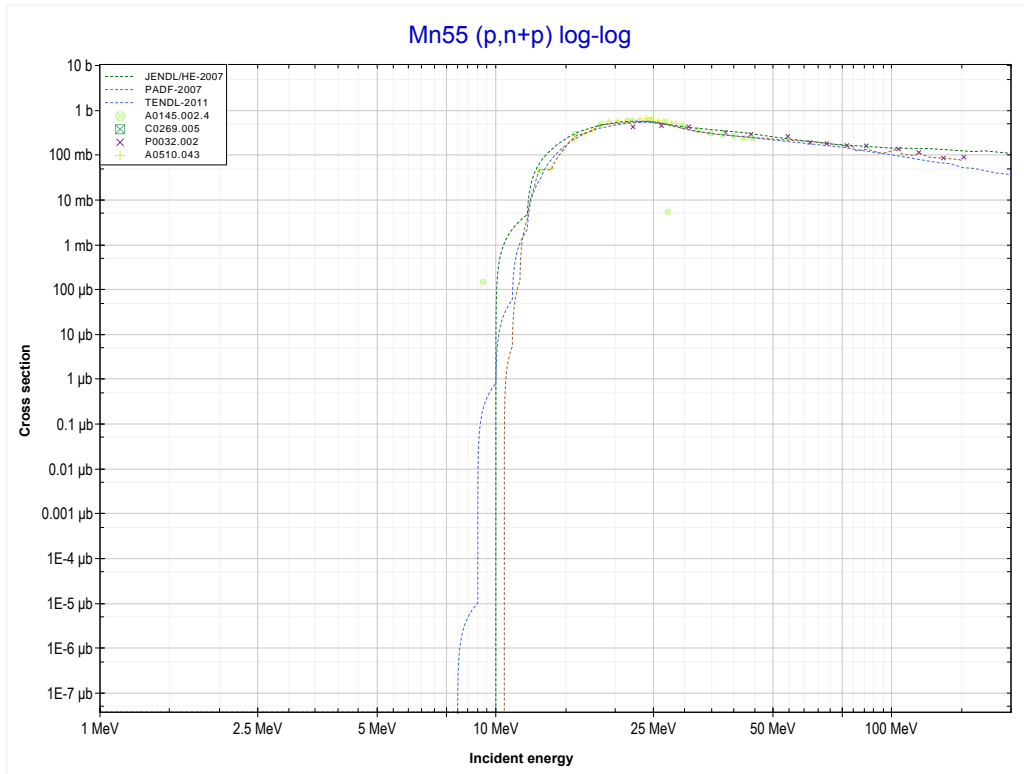
<b>Reaction</b>	<b>Q-Value</b>
Mn55(p,3n)Fe53	-23690.28 keV

<< 24-Cr-52	<b>25-Mn-55</b>	26-Fe-56 >>
<< MT17 (p,3n)	<b>MT22 (p,n+α) or MT5 (Cr51 production)</b>	MT28 (p,n+p) >>



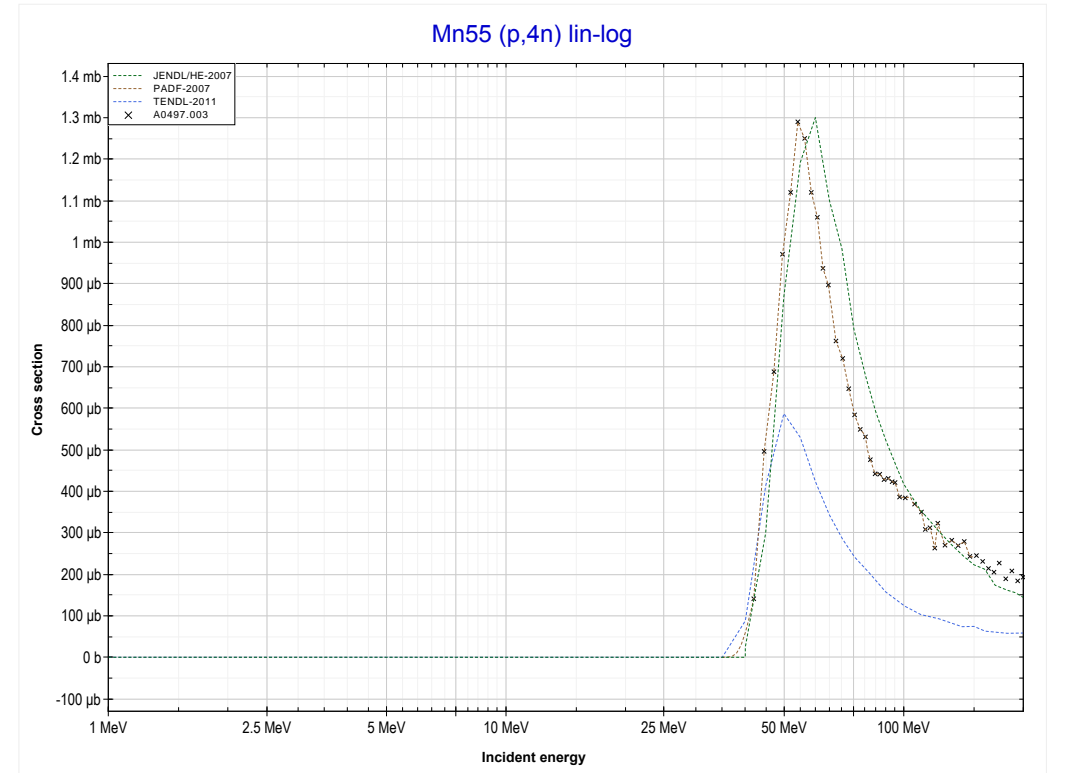
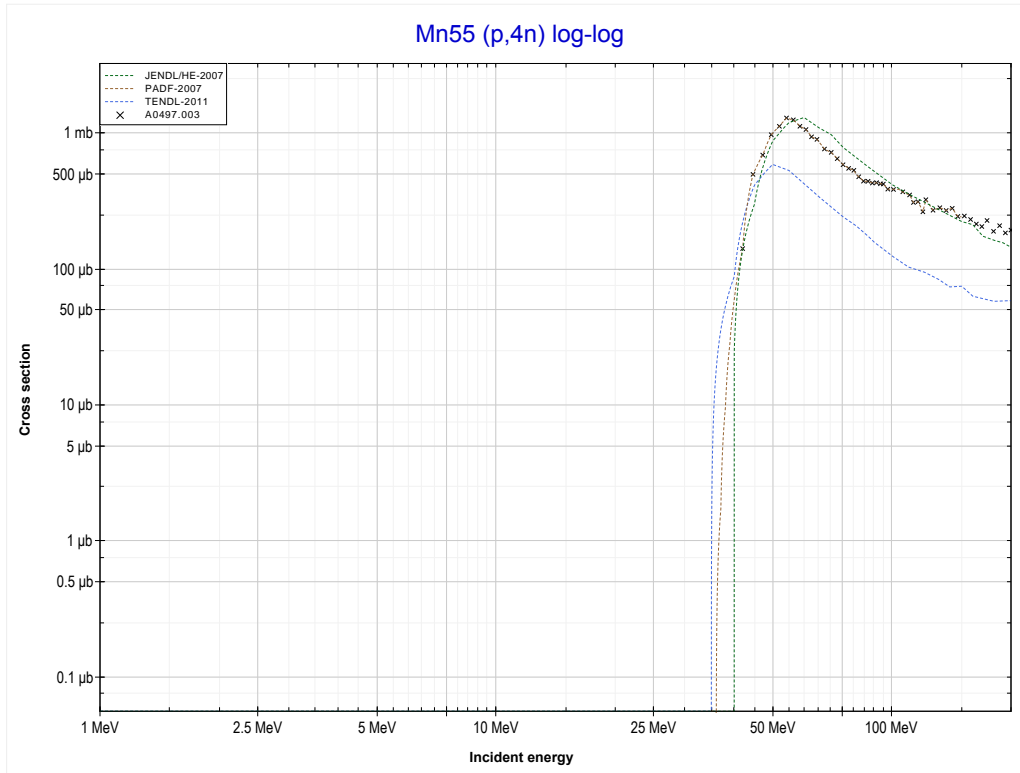
Reaction	Q-Value
Mn55(p,n+α)Cr51	-9469.06 keV
Mn55(p,d+t)Cr51	-27058.36 keV
Mn55(p,n+p+t)Cr51	-29282.92 keV
Mn55(p,2n+He3)Cr51	-30046.68 keV
Mn55(p,n+2d)Cr51	-33315.59 keV
Mn55(p,2n+p+d)Cr51	-35540.16 keV
Mn55(p,3n+2p)Cr51	-37764.72 keV

<< 24-Cr-52	<b>25-Mn-55</b>	26-Fe-54 >>
<< MT22 (p,n+α)	<b>MT28 (p,n+p) or MT5 (Mn54 production)</b>	MT37 (p,4n) >>



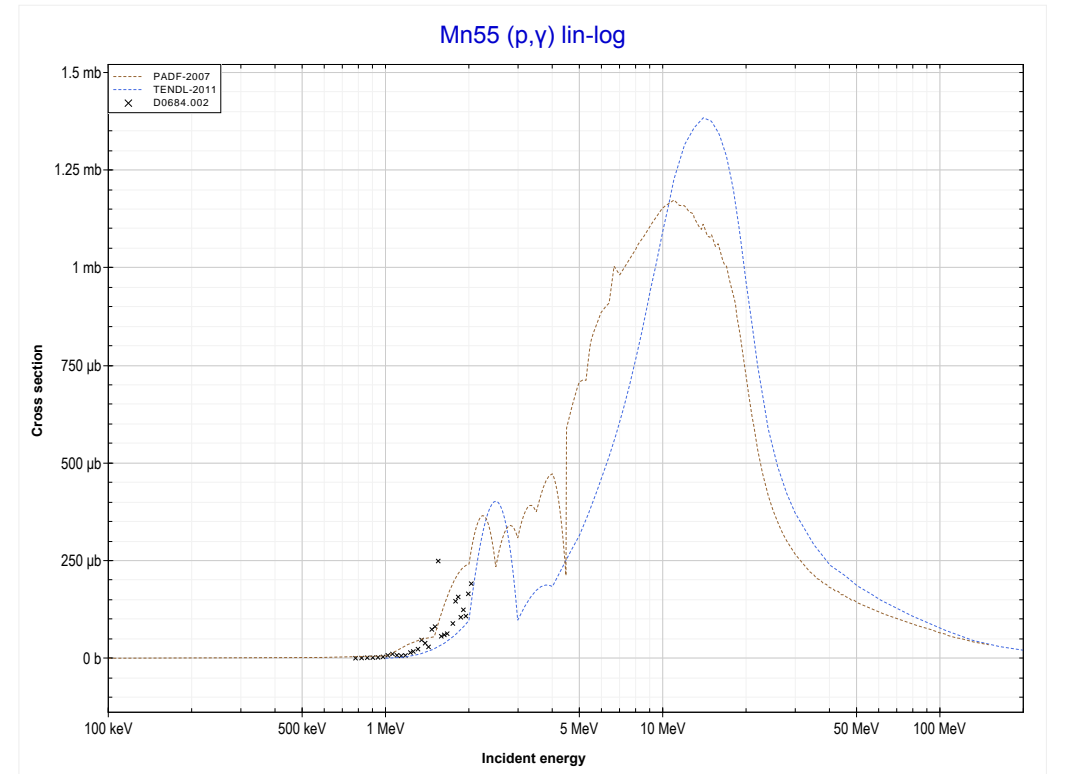
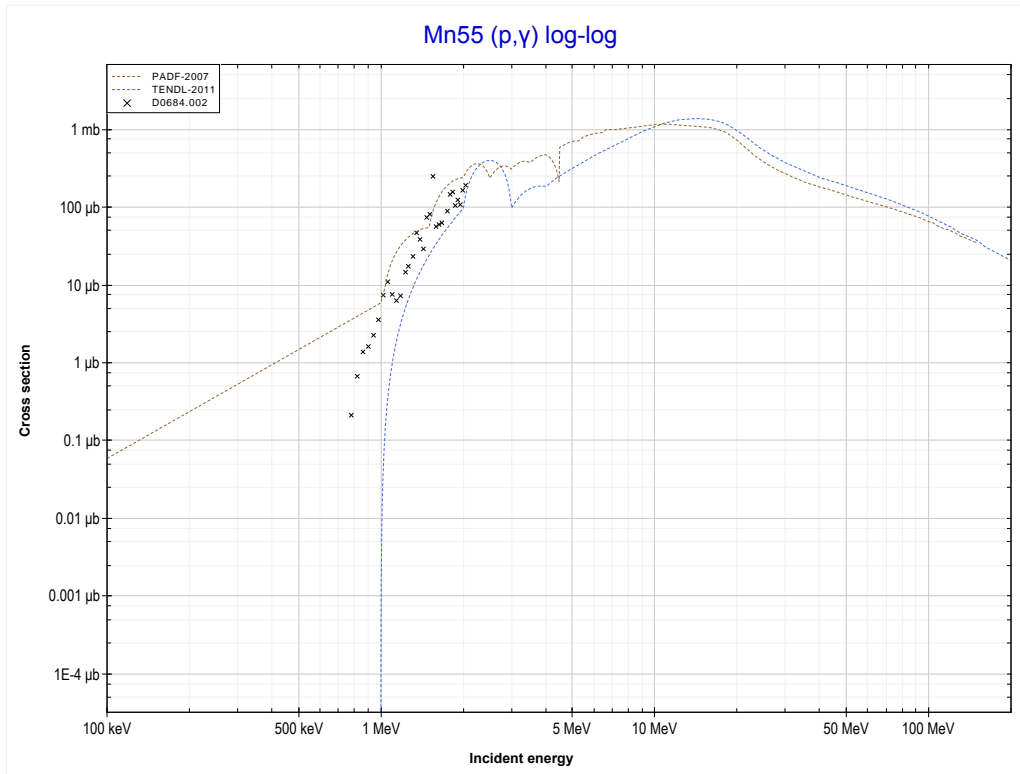
Reaction	Q-Value
Mn55(p,d)Mn54	-8001.95 keV
Mn55(p,n+p)Mn54	-10226.52 keV

<< 23-V-51	<b>25-Mn-55</b>	26-Fe-58 >>
<< MT28 (p,n+p)	<b>MT37 (p,4n) or MT5 (Fe52 production)</b>	MT102 (p, $\gamma$ ) >>



<b>Reaction</b>	<b>Q-Value</b>
Mn55(p,4n)Fe52	-34374.90 keV

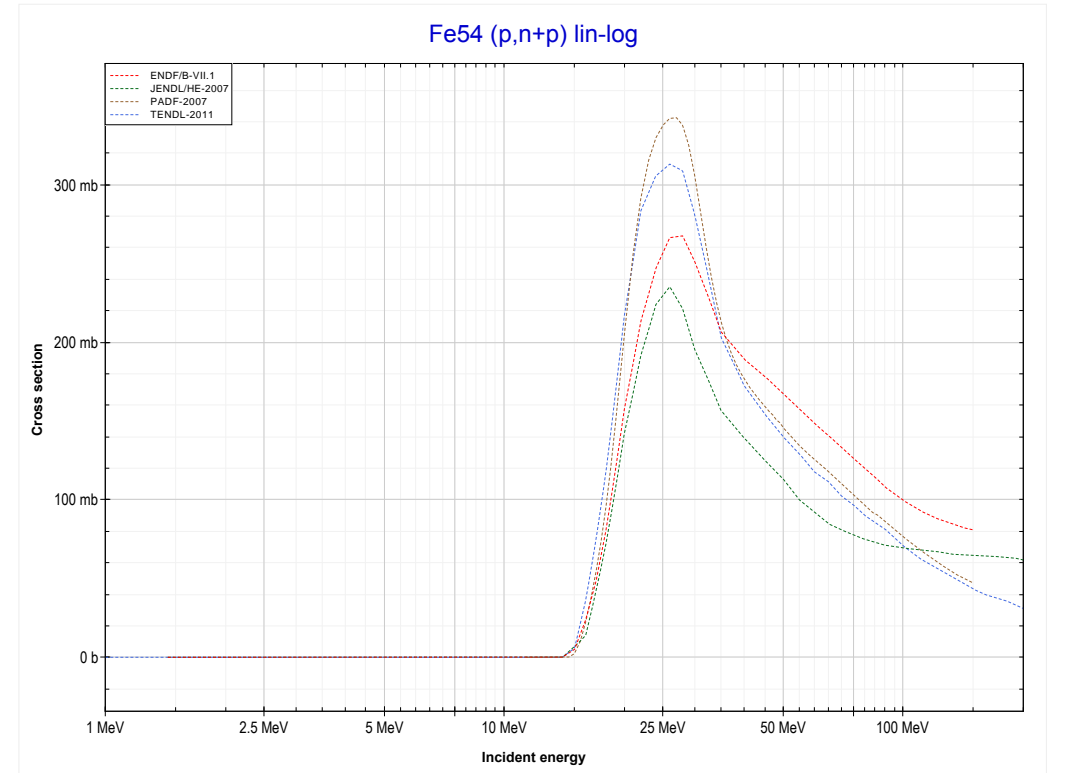
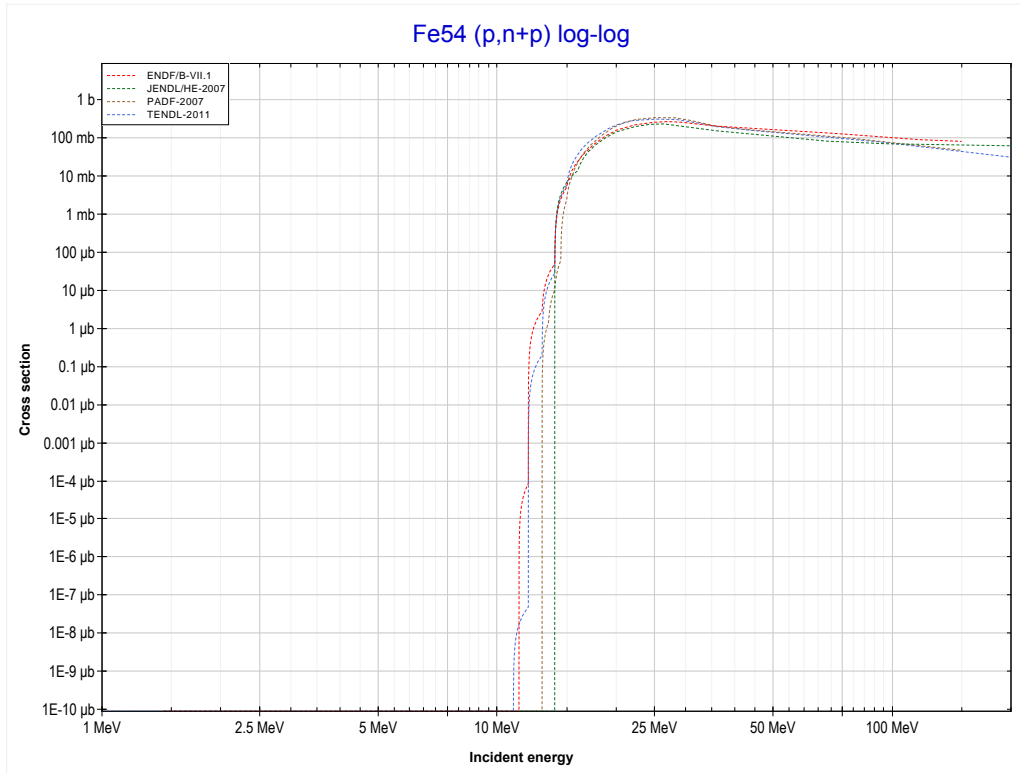
<< 24-Cr-54	<b>25-Mn-55</b>	26-Fe-54 >>
<< MT37 (p,4n)	<b>MT102 (p,<math>\gamma</math>) or MT5 (Fe56 production)</b>	MT28 (p,n+p) >>



Reaction	Q-Value
Mn55(p, $\gamma$ )Fe56	10183.77 keV

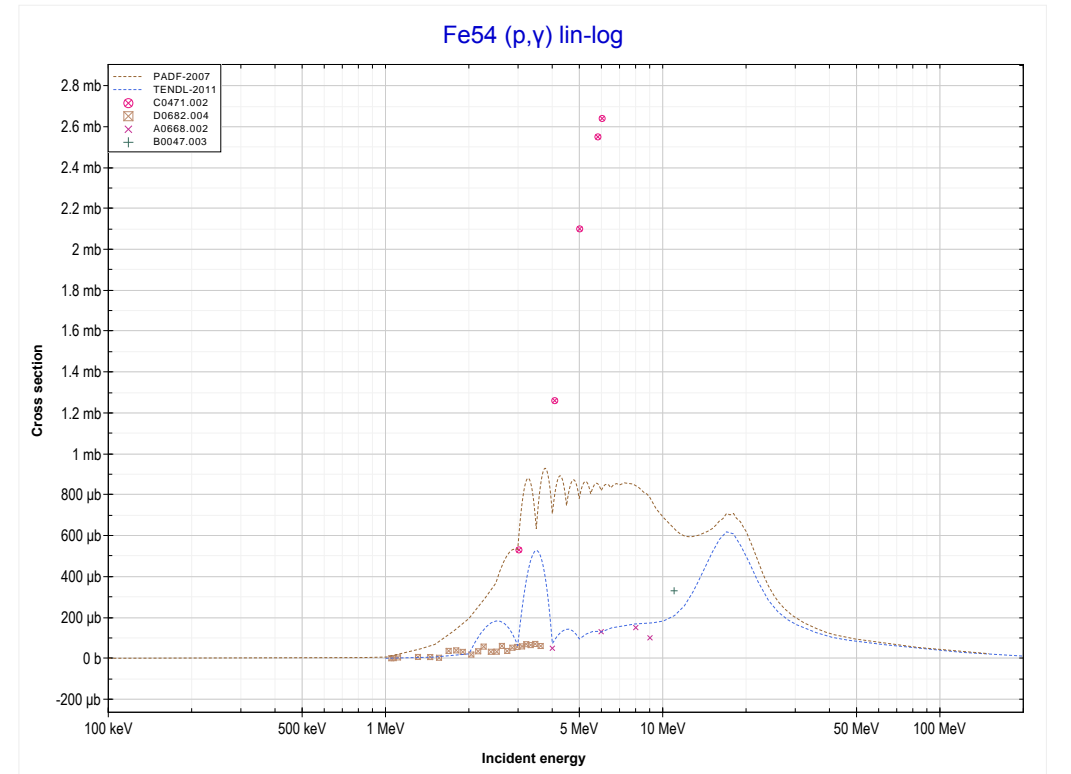
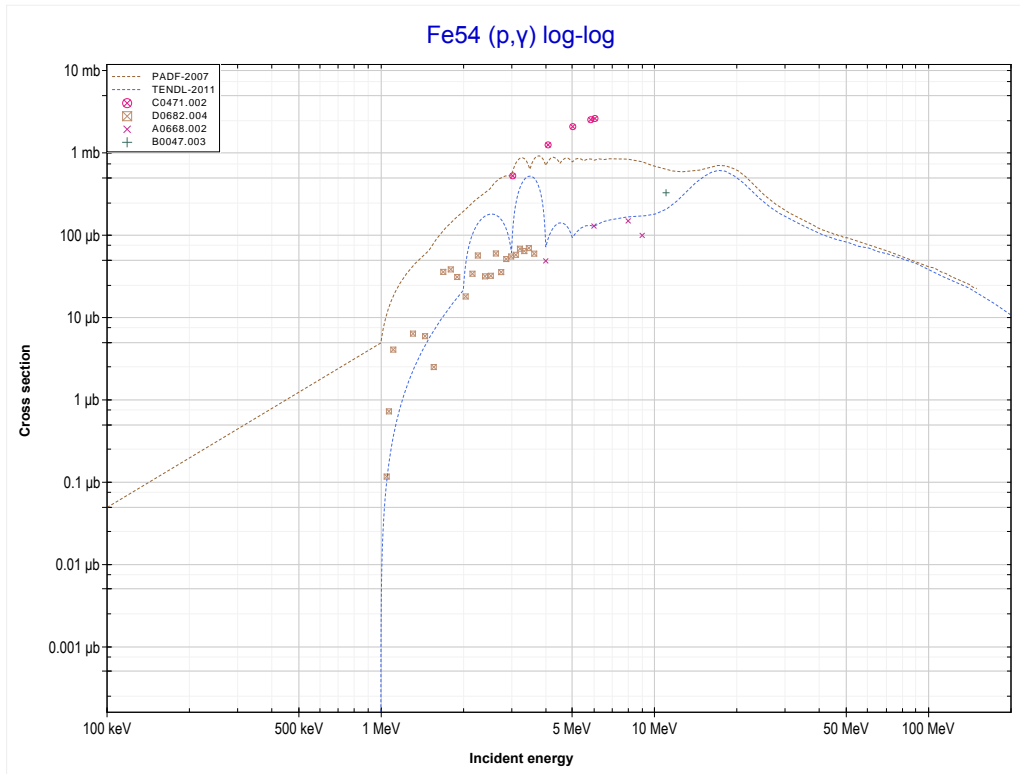


<< 25-Mn-55	<b>26-Fe-54</b>	26-Fe-56 >>
<< MT102 (p, $\gamma$ )	<b>MT28 (p,n+p) or MT5 (Fe53 production)</b>	MT102 (p, $\gamma$ ) >>



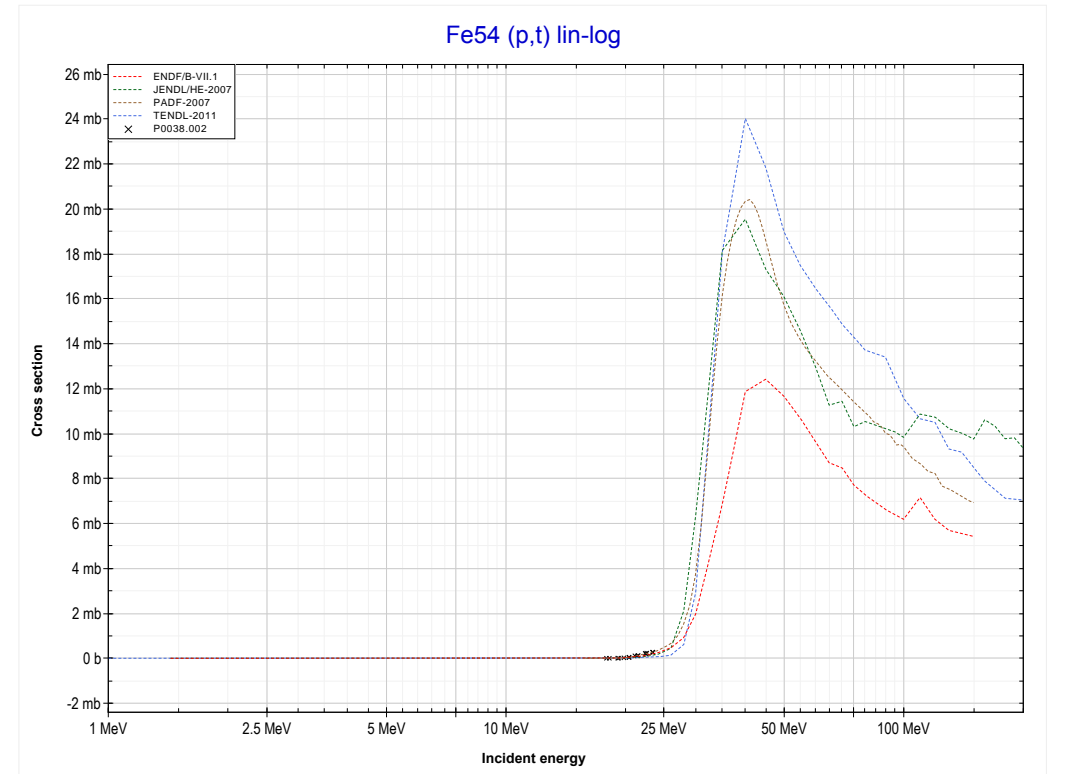
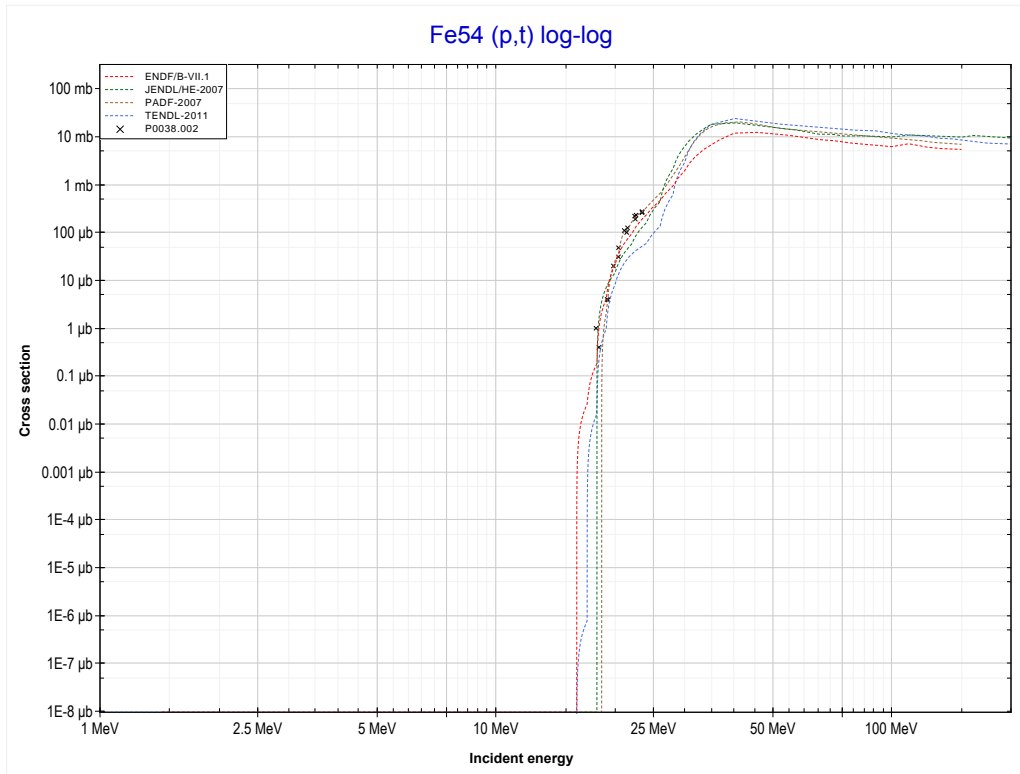
Reaction	Q-Value
Fe54(p,d)Fe53	-11153.95 keV
Fe54(p,n+p)Fe53	-13378.52 keV

<< 25-Mn-55	<b>26-Fe-54</b>	26-Fe-56 >>
<< MT28 (p,n+p)	<b>MT102 (p,<math>\gamma</math>) or MT5 (Co55 production)</b>	MT105 (p,t) >>



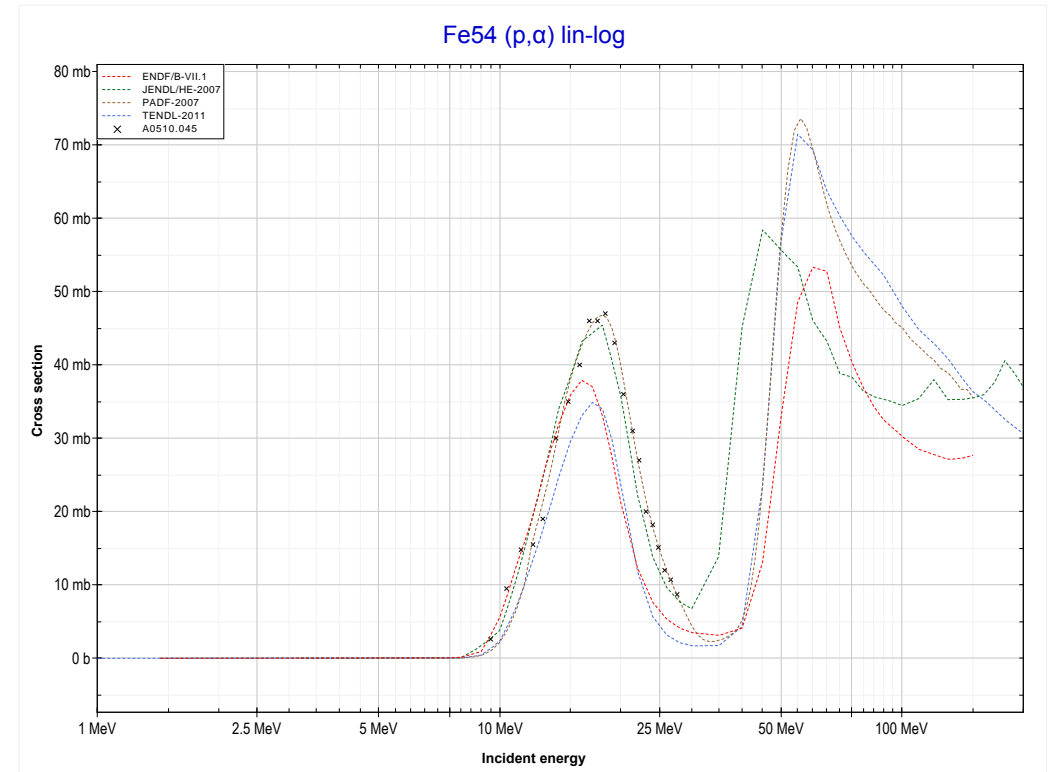
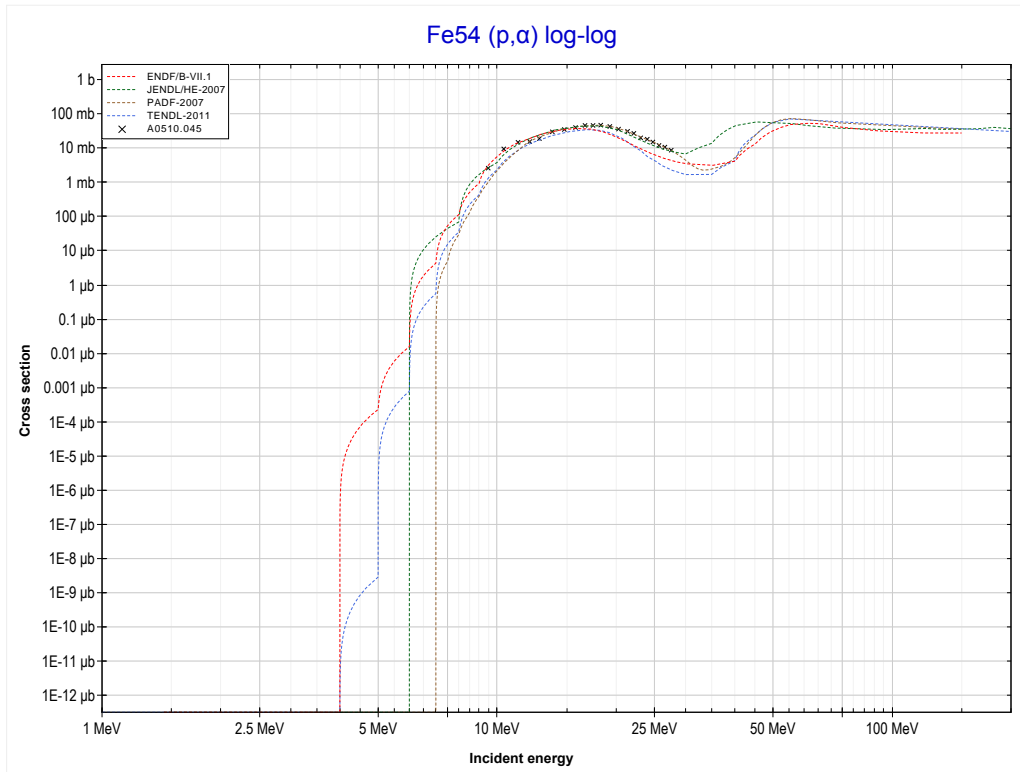
Reaction	Q-Value
Fe54(p, $\gamma$ )Co55	5064.07 keV

<< 4-Be-9	<b>26-Fe-54</b>	92-U-235 >>
<< MT102 (p, $\gamma$ )	<b>MT105 (p,t) or MT5 (Fe52 production)</b>	MT107 (p, $\alpha$ ) >>



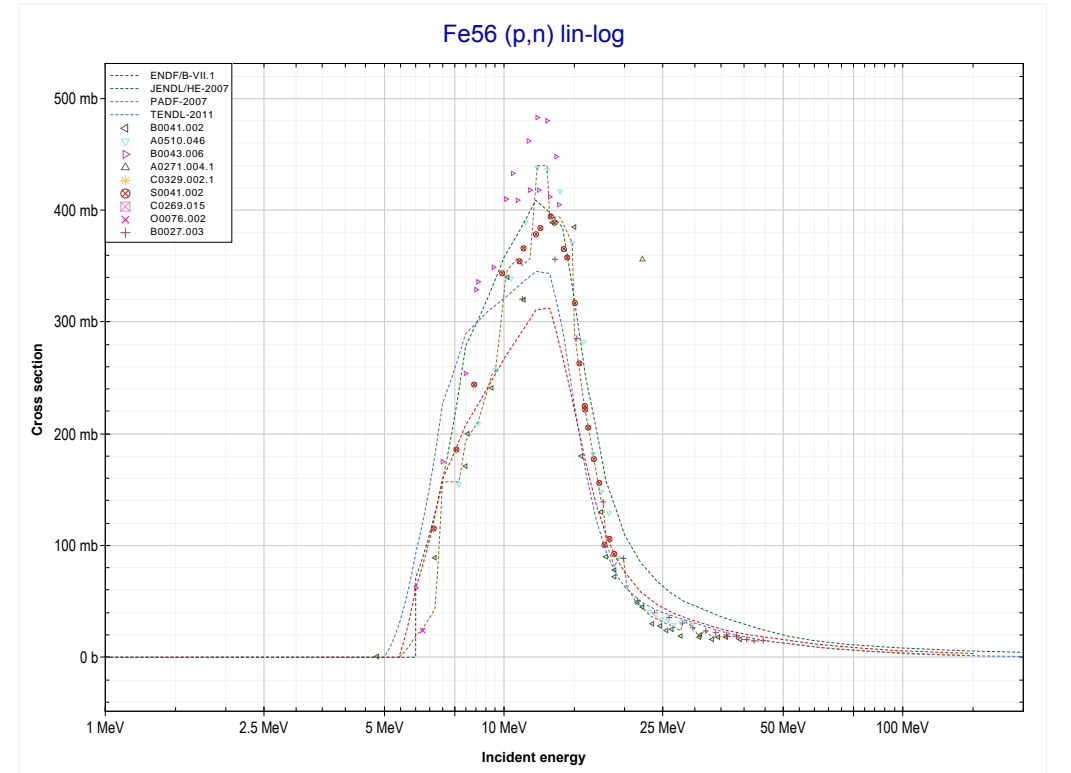
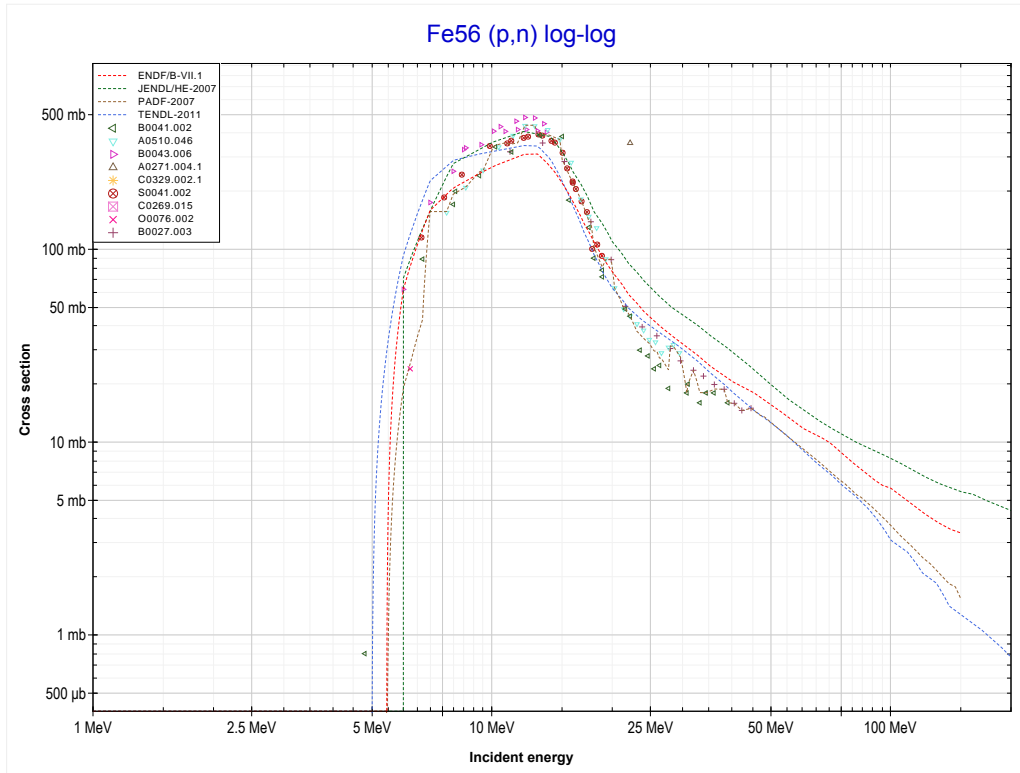
Reaction	Q-Value
Fe54(p,t)Fe52	-15581.34 keV
Fe54(p,n+d)Fe52	-21838.57 keV
Fe54(p,2n+p)Fe52	-24063.13 keV

<< 22-Ti-50	<b>26-Fe-54</b>	26-Fe-57 >>
<< MT105 (p,t)	<b>MT107 (p,<math>\alpha</math>) or MT5 (Mn51 production)</b>	MT4 (p,n) >>



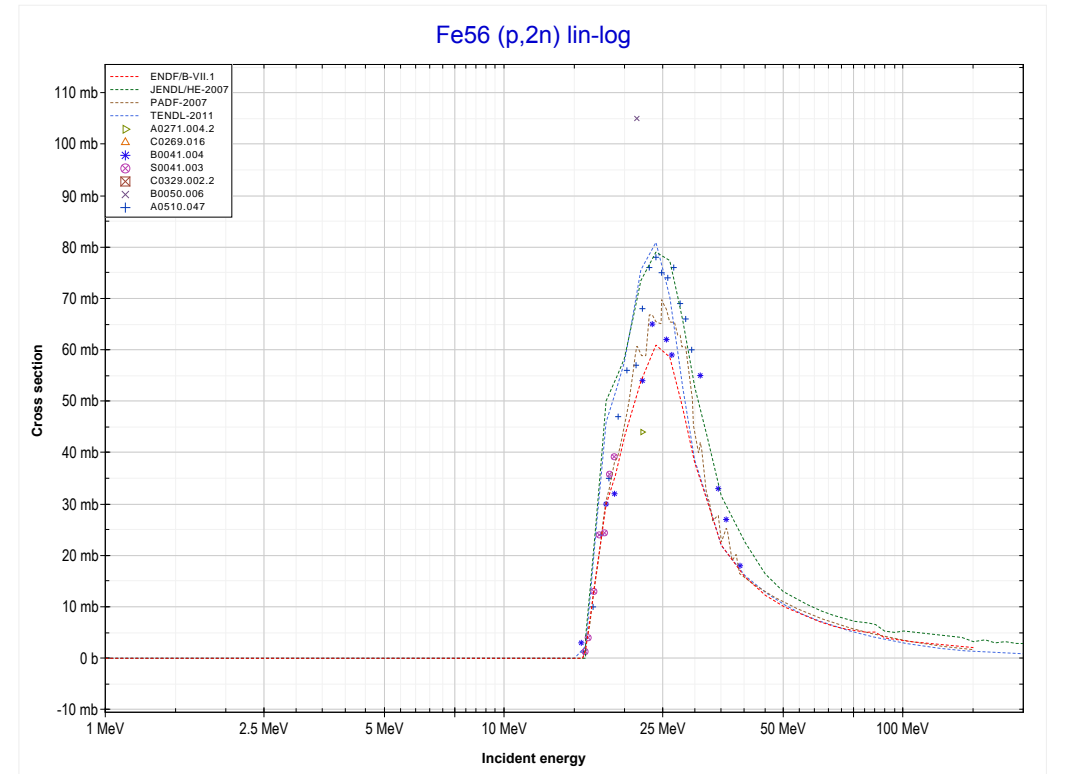
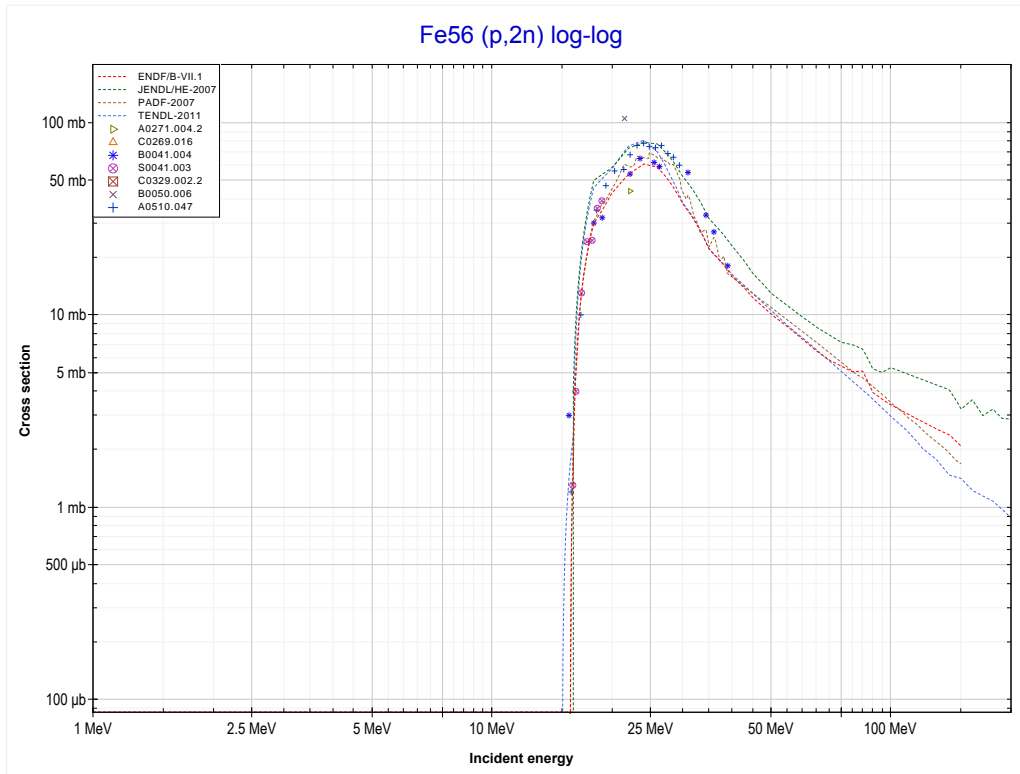
Reaction	Q-Value
Fe54(p, $\alpha$ )Mn51	-3147.15 keV
Fe54(p,p+t)Mn51	-22961.01 keV
Fe54(p,n+He3)Mn51	-23724.76 keV
Fe54(p,2d)Mn51	-26993.67 keV
Fe54(p,n+p+d)Mn51	-29218.24 keV
Fe54(p,2n+2p)Mn51	-31442.80 keV

<< 25-Mn-55	<b>26-Fe-56</b>	26-Fe-57 >>
<< MT107 (p, $\alpha$ )	<b>MT4 (p,n) or MT5 (Co56 production)</b>	MT16 (p,2n) >>



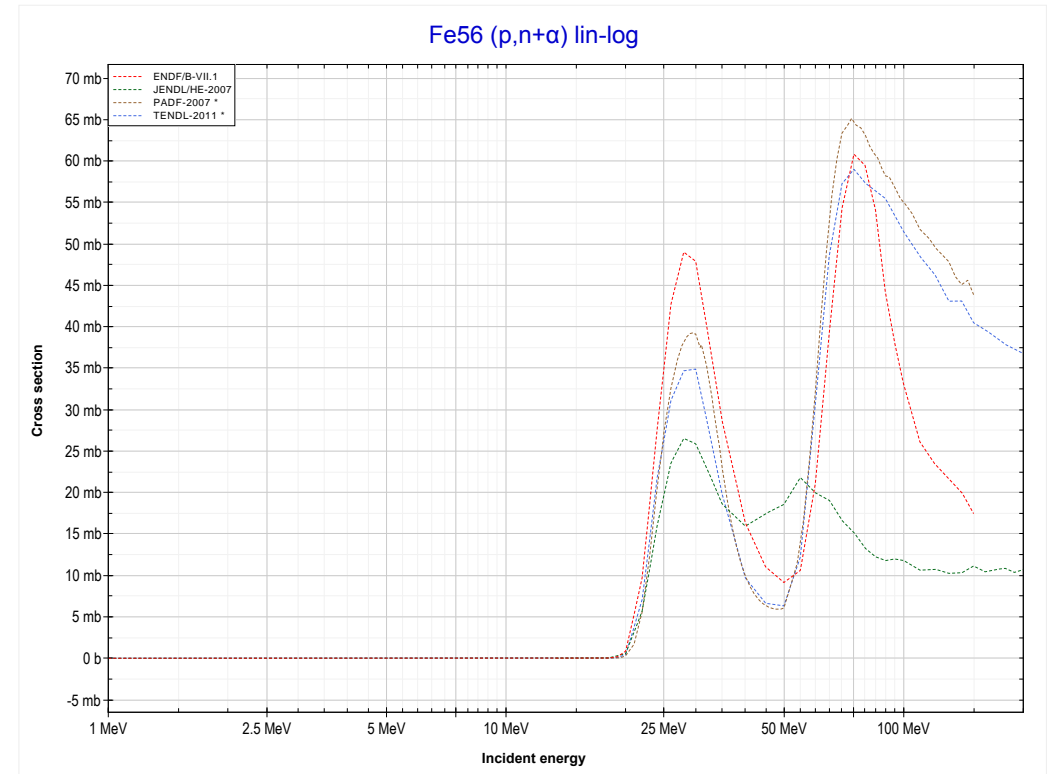
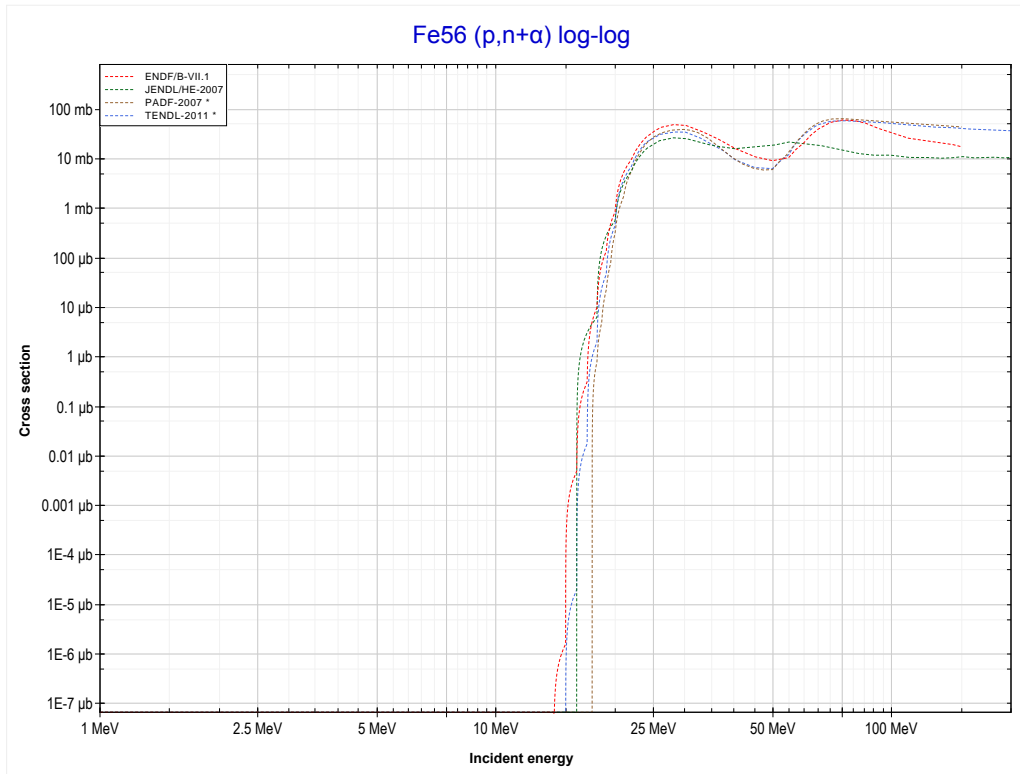
Reaction	Q-Value
Fe56(p,n)Co56	-5348.35 keV

<< 24-Cr-53	<b>26-Fe-56</b>	26-Fe-57 >>
<< MT4 (p,n)	<b>MT16 (p,2n) or MT5 (Co55 production)</b>	MT22 (p,n+α) >>



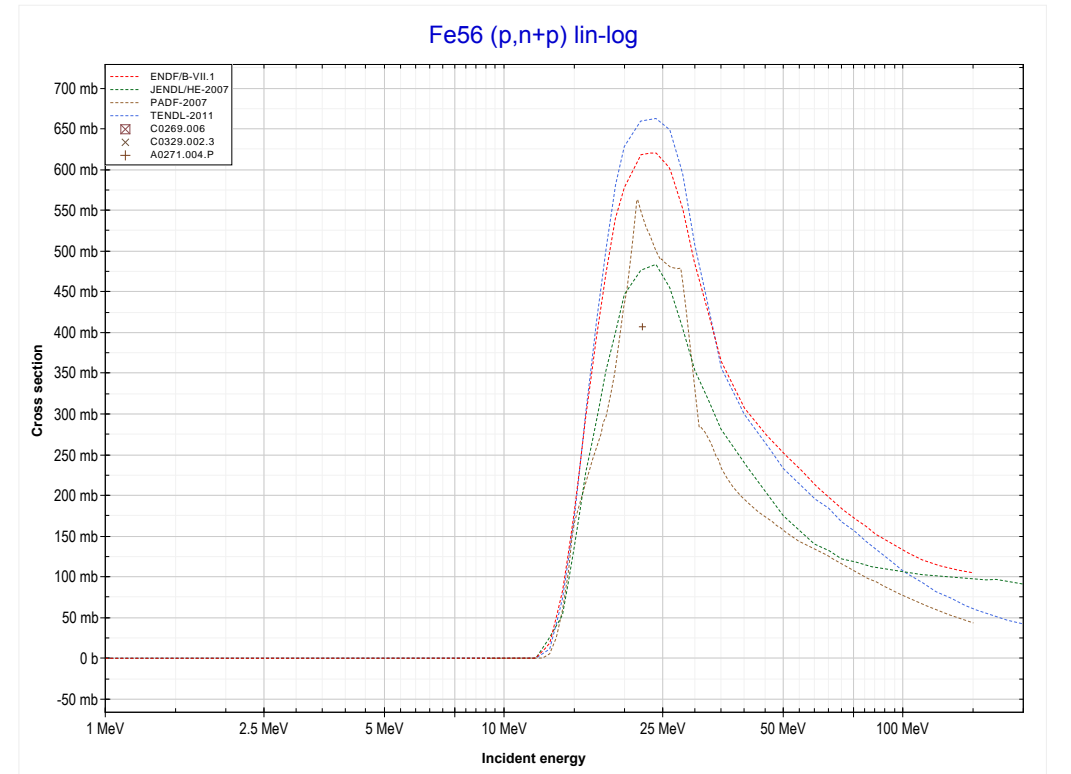
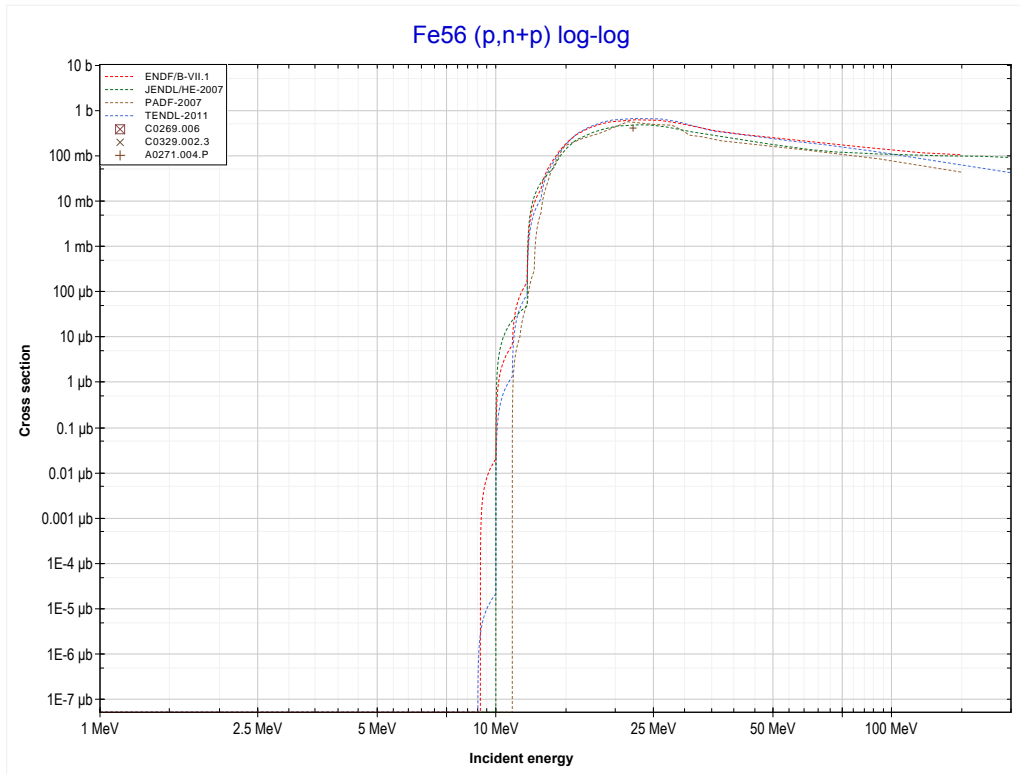
Reaction	Q-Value
Fe56(p,2n)Co55	-15431.46 keV

<< 25-Mn-55	<b>26-Fe-56</b>	26-Fe-58 >>
<< MT16 (p,2n)	<b>MT22 (p,n+α) or MT5 (Mn52 production)</b>	MT28 (p,n+p) >>



Reaction	Q-Value
Fe56(p,n+α)Mn52	-13107.26 keV
Fe56(p,d+t)Mn52	-30696.56 keV
Fe56(p,n+p+t)Mn52	-32921.12 keV
Fe56(p,2n+He3)Mn52	-33684.88 keV
Fe56(p,n+2d)Mn52	-36953.79 keV
Fe56(p,2n+p+d)Mn52	-39178.36 keV
Fe56(p,3n+2p)Mn52	-41402.92 keV

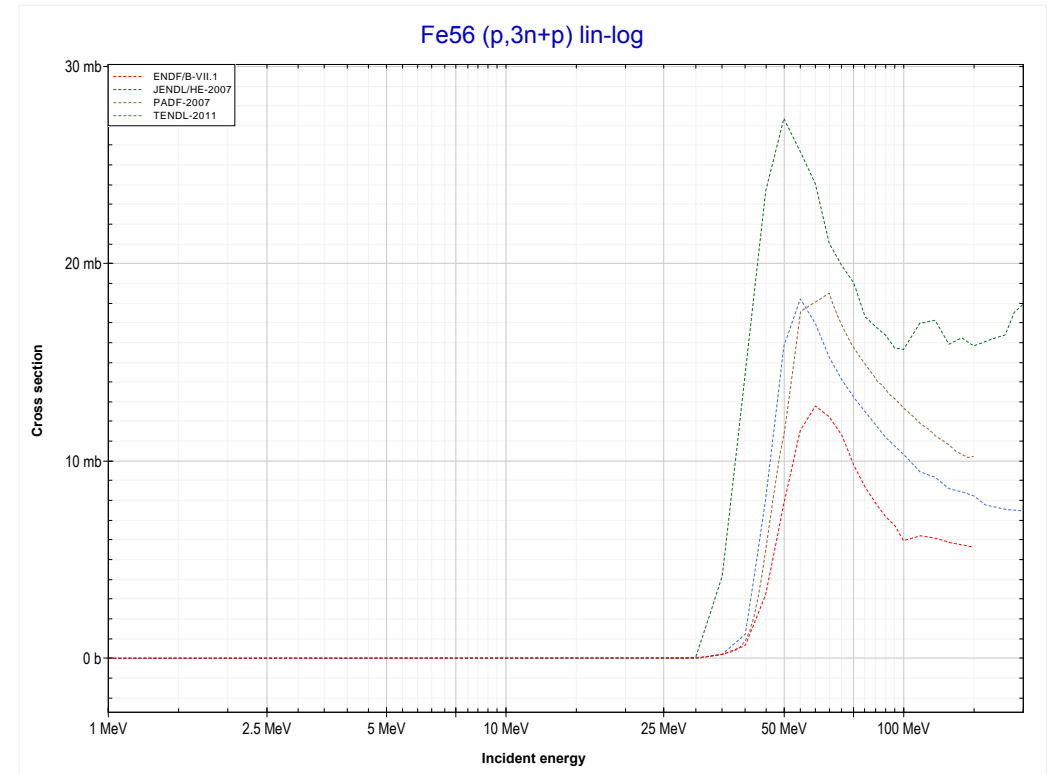
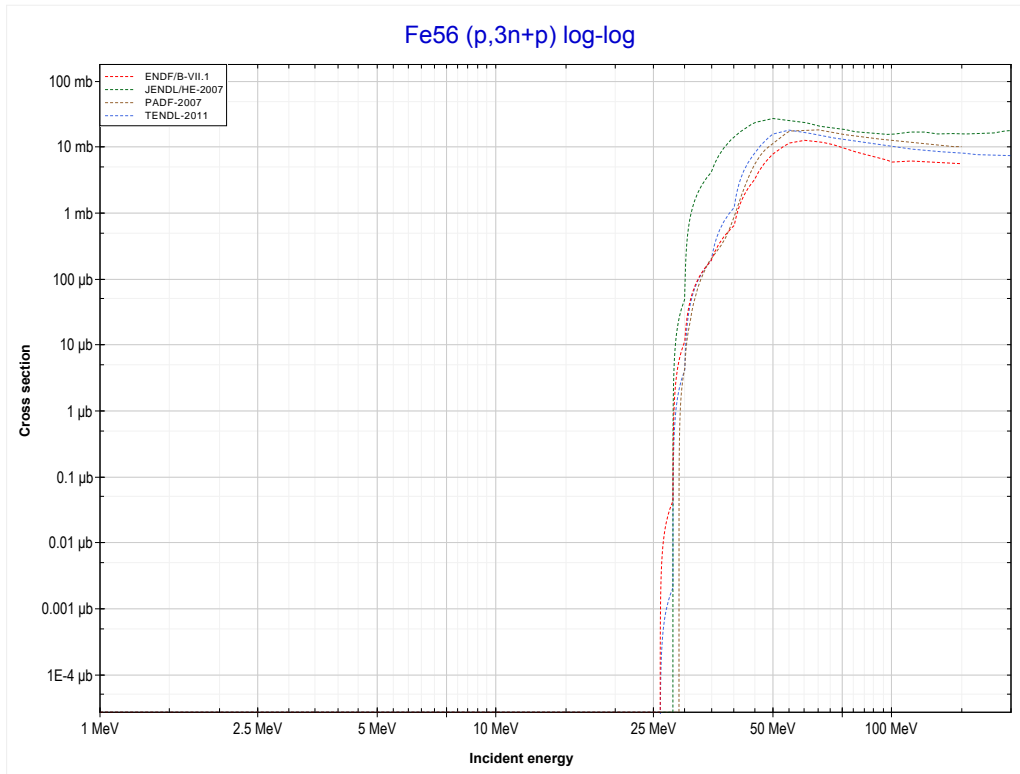
<< 26-Fe-54	<b>26-Fe-56</b>	27-Co-59 >>
<< MT22 (p,n+α)	<b>MT28 (p,n+p) or MT5 (Fe55 production)</b>	MT42 (p,3n+p) >>



Reaction	Q-Value
Fe56(p,d)Fe55	-8972.75 keV
Fe56(p,n+p)Fe55	-11197.32 keV

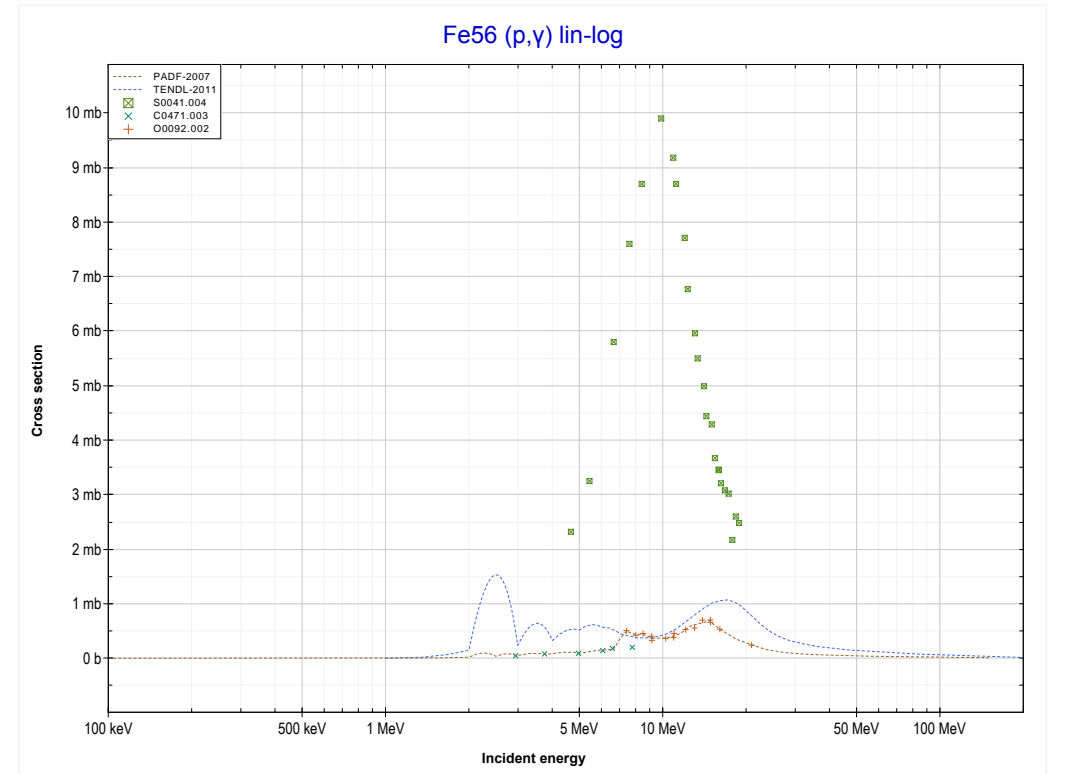
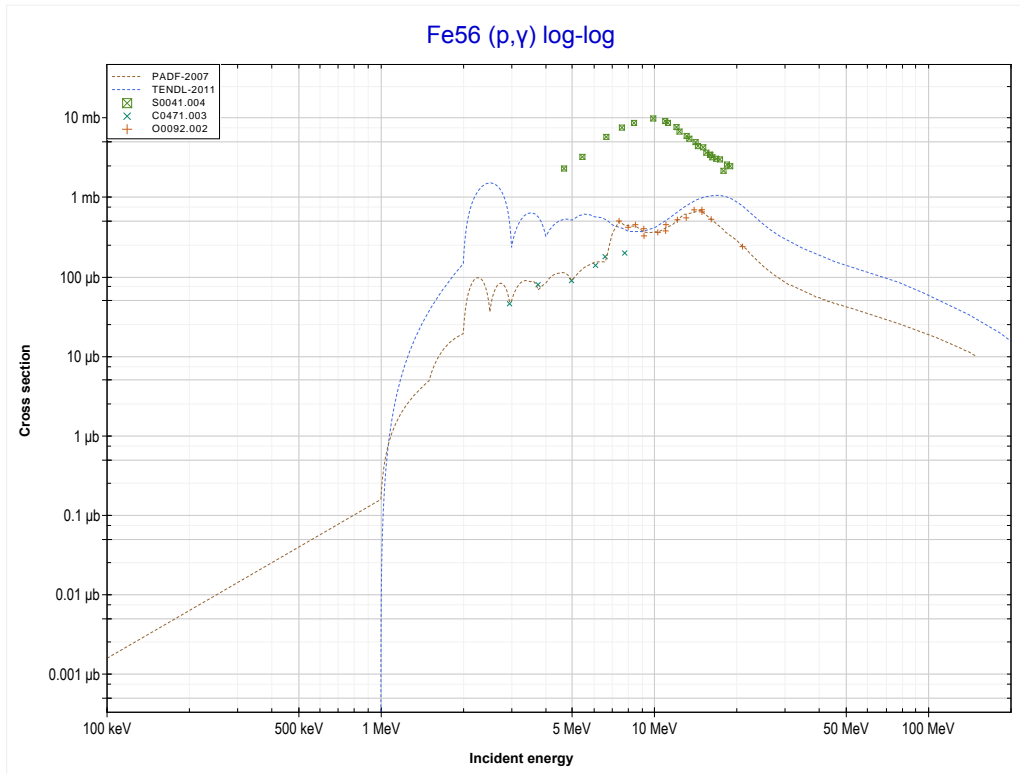


<< 24-Cr-52	<b>26-Fe-56</b>	27-Co-59 >>
<< MT28 (p,n+p)	<b>MT42 (p,3n+p) or MT5 (Fe53 production)</b>	MT102 (p, $\gamma$ ) >>



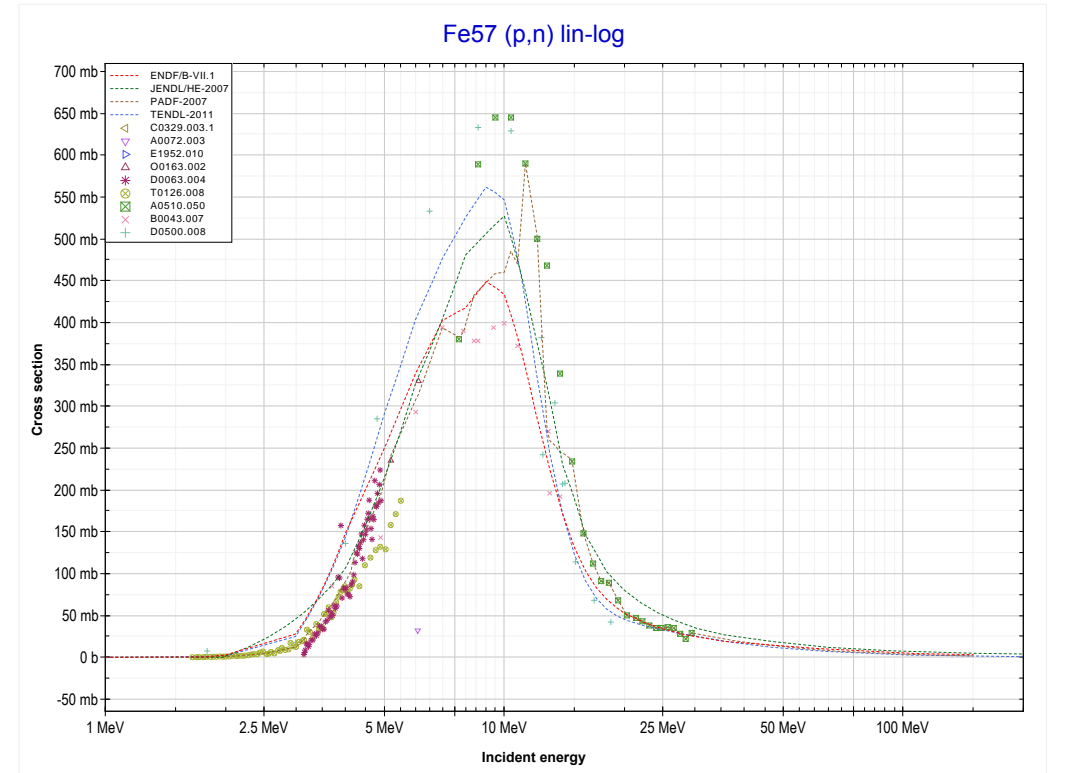
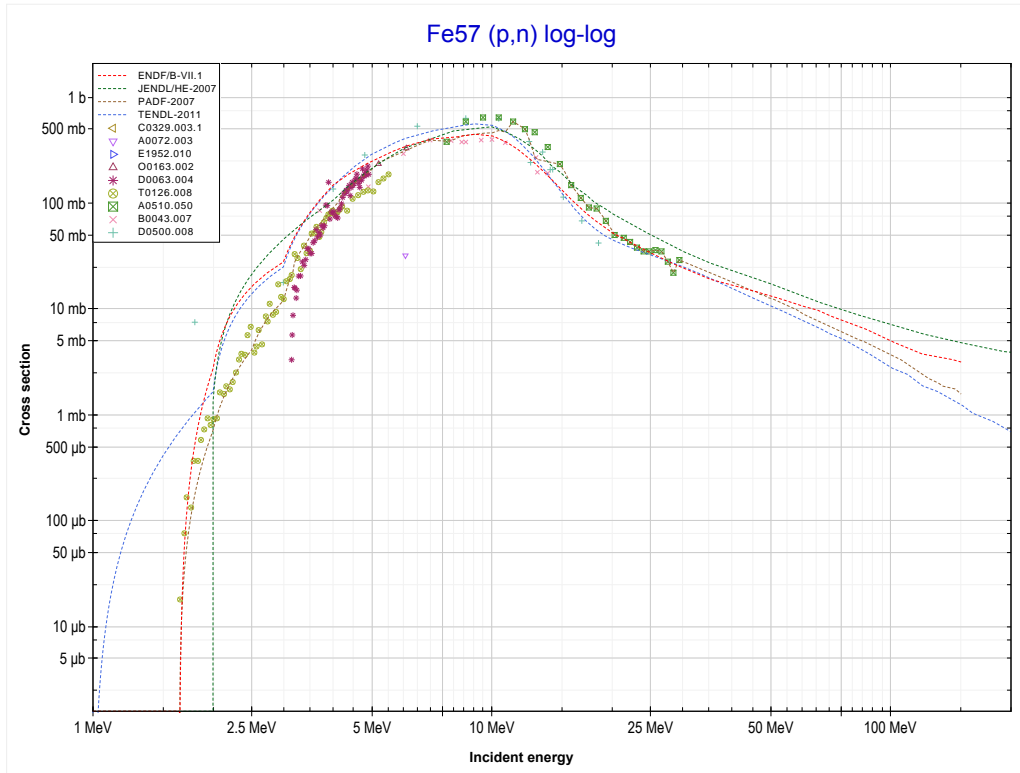
Reaction	Q-Value
Fe56(p,n+t)Fe53	-25392.25 keV
Fe56(p,2n+d)Fe53	-31649.49 keV
Fe56(p,3n+p)Fe53	-33874.05 keV

<< 26-Fe-54	<b>26-Fe-56</b>	26-Fe-58 >>
<< MT42 (p,3n+p)	<b>MT102 (p,<math>\gamma</math>) or MT5 (Co57 production)</b>	MT4 (p,n) >>



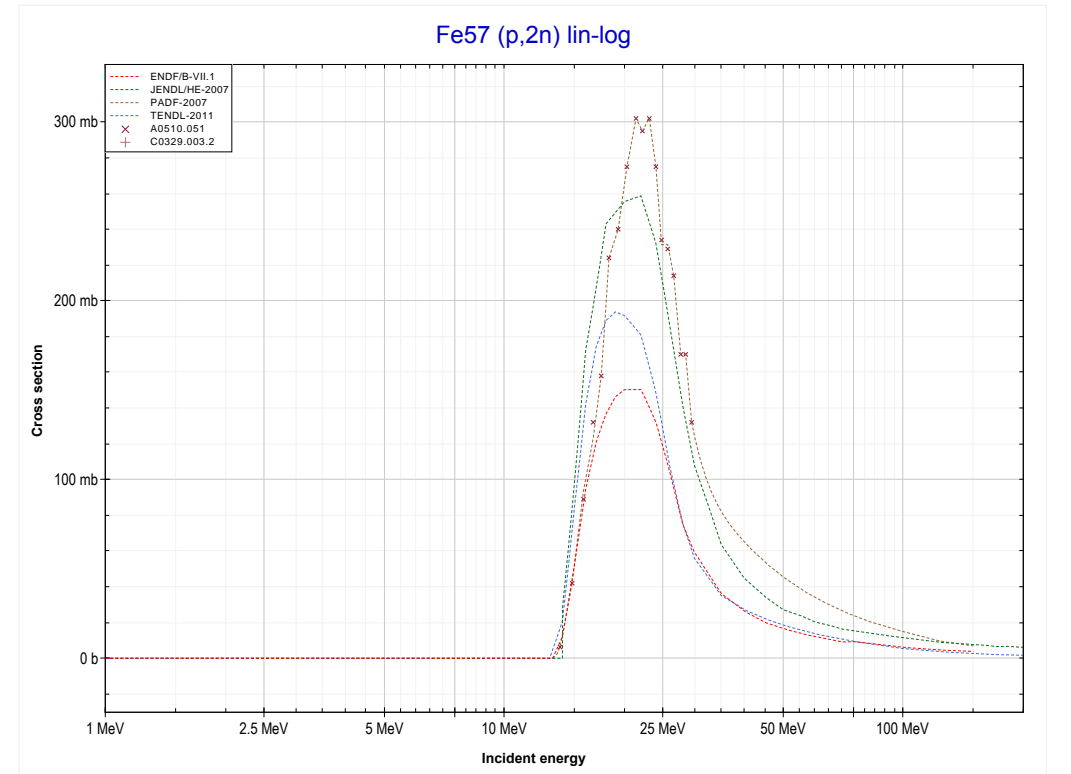
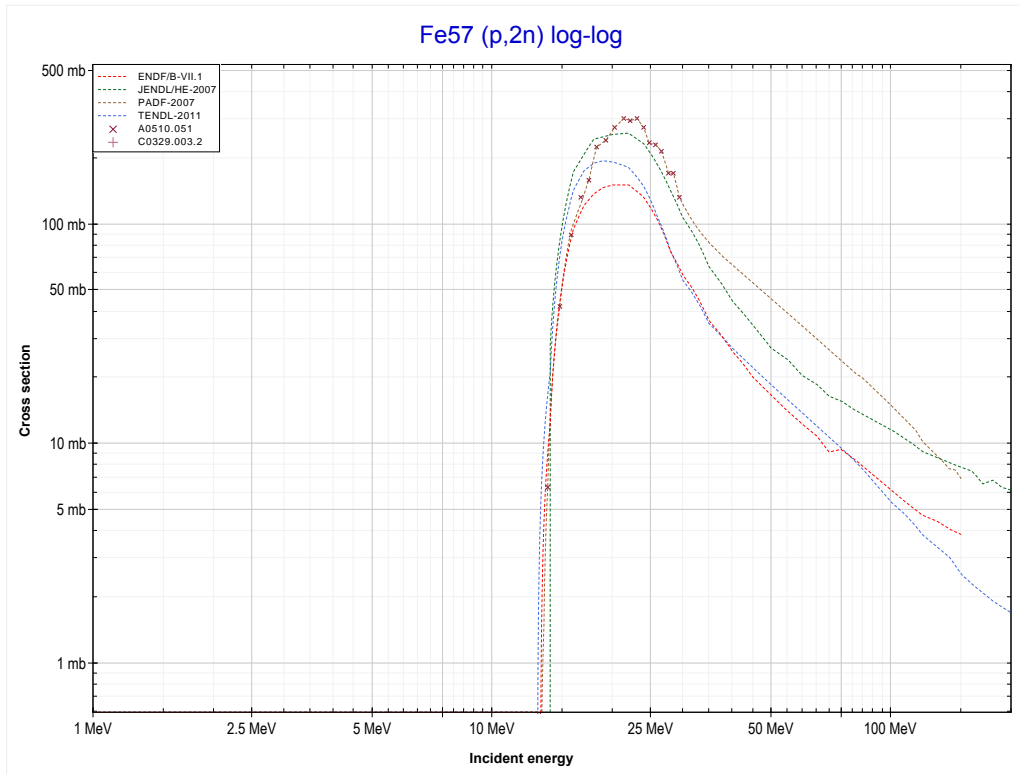
Reaction	Q-Value
Fe56(p, $\gamma$ )Co57	6027.77 keV

<< 26-Fe-56	<b>26-Fe-57</b>	26-Fe-58 >>
<< MT102 (p, $\gamma$ )	<b>MT4 (p,n) or MT5 (Co57 production)</b>	MT16 (p,2n) >>



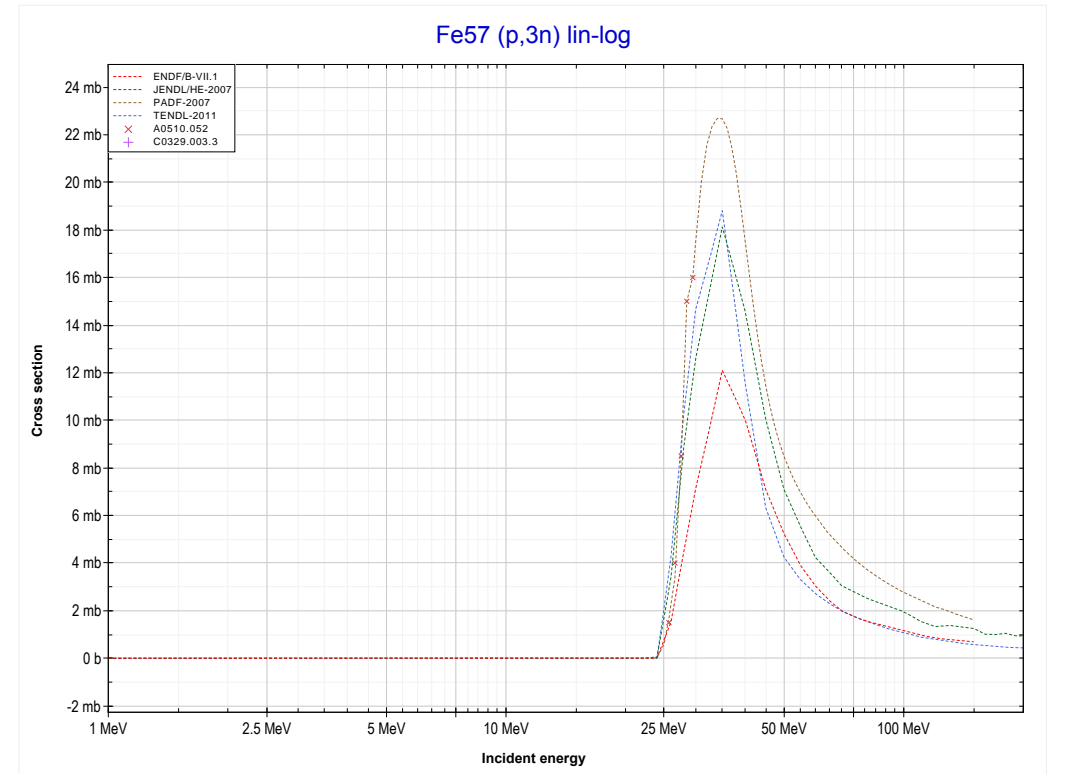
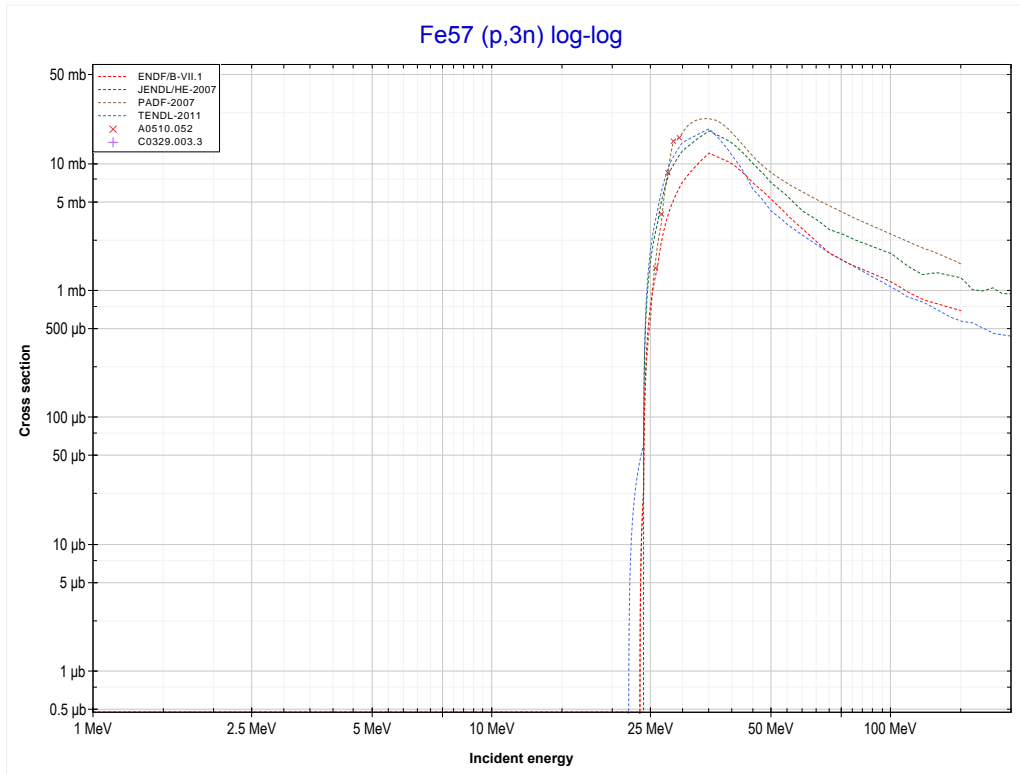
Reaction	Q-Value
Fe57(p,n)Co57	-1618.25 keV

<< 26-Fe-56	<b>26-Fe-57</b>	26-Fe-58 >>
<< MT4 (p,n)	<b>MT16 (p,2n) or MT5 (Co56 production)</b>	MT17 (p,3n) >>



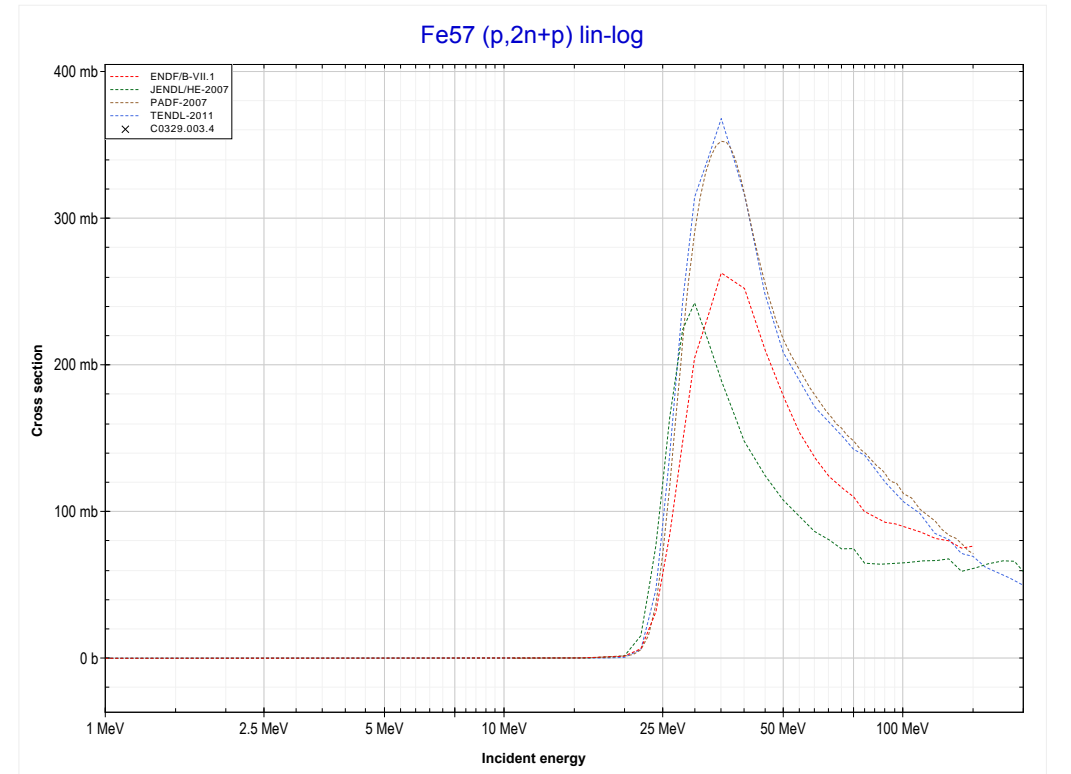
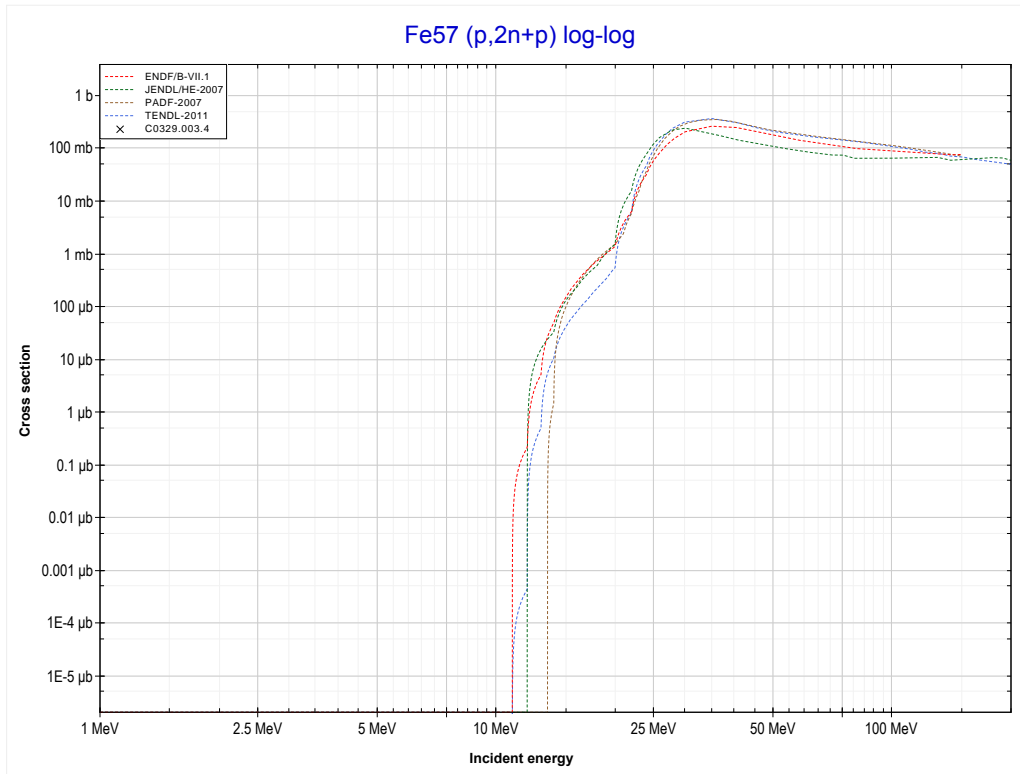
Reaction	Q-Value
Fe57(p,2n)Co56	-12994.36 keV

<< 25-Mn-55	<b>26-Fe-57</b>	26-Fe-58 >>
<< MT16 (p,2n)	<b>MT17 (p,3n) or MT5 (Co55 production)</b>	MT41 (p,2n+p) >>



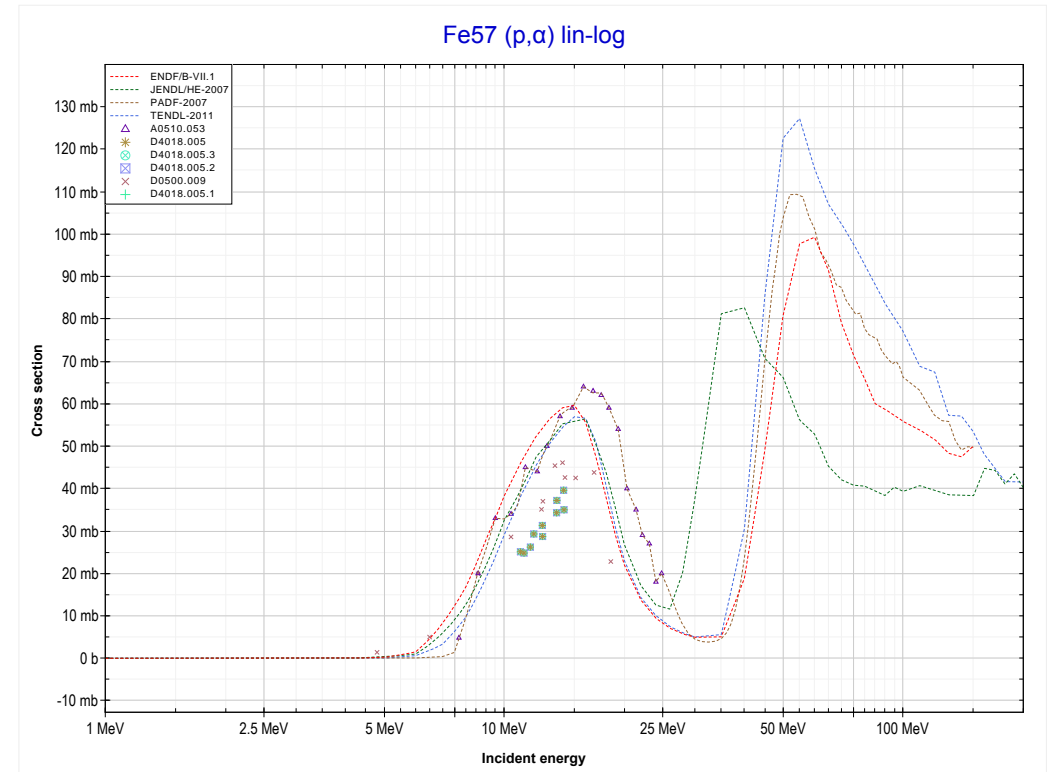
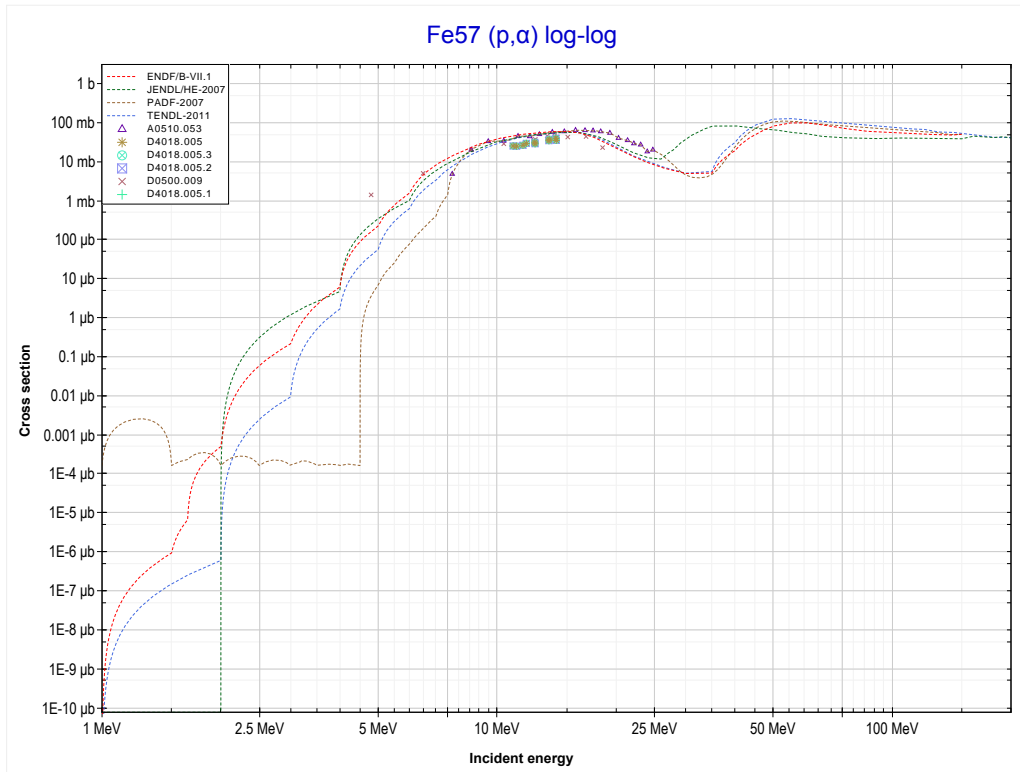
Reaction	Q-Value
Fe57(p,3n)Co55	-23077.48 keV

<< 24-Cr-50	<b>26-Fe-57</b>	27-Co-59 >>
<< MT17 (p,3n)	<b>MT41 (p,2n+p) or MT5 (Fe55 production)</b>	MT107 (p, $\alpha$ ) >>



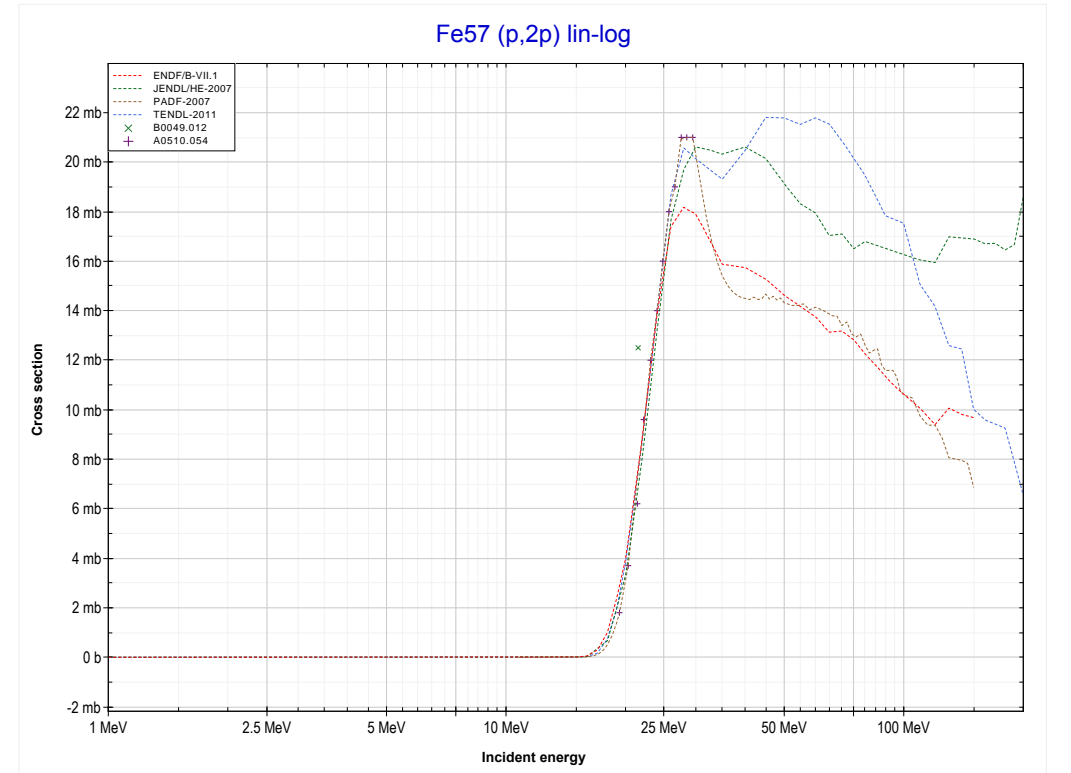
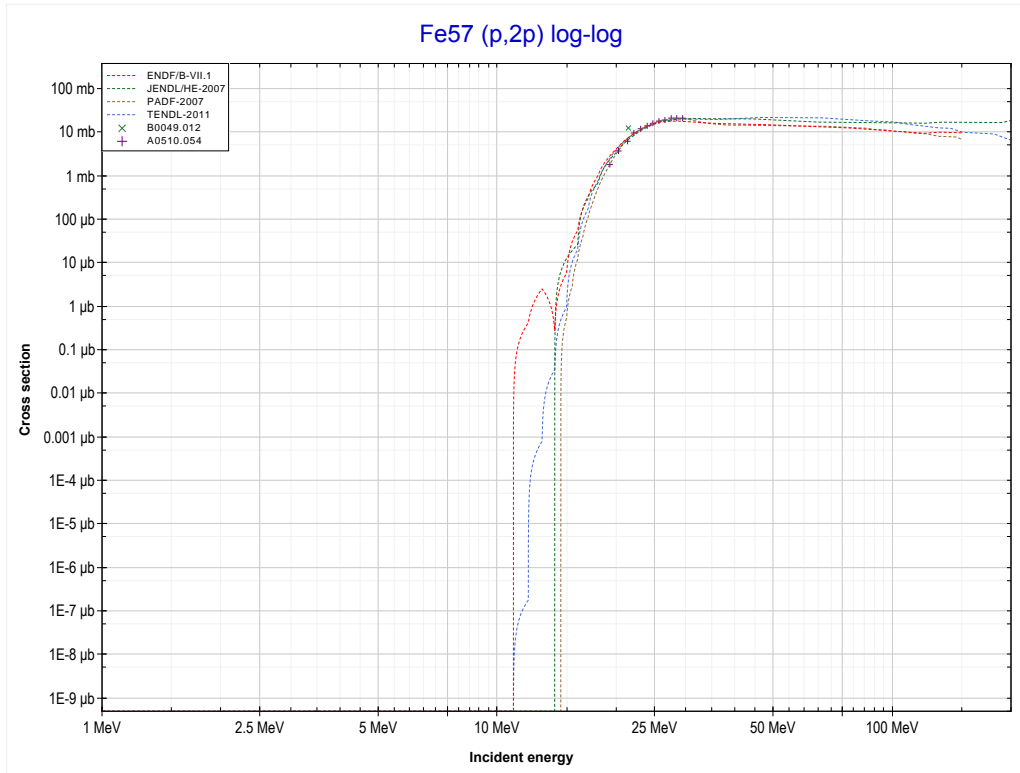
Reaction	Q-Value
Fe57(p,t)Fe55	-10361.54 keV
Fe57(p,n+d)Fe55	-16618.77 keV
Fe57(p,2n+p)Fe55	-18843.33 keV

<< 26-Fe-54	<b>26-Fe-57</b>	28-Ni-58 >>
<< MT41 (p,2n+p)	<b>MT107 (p,<math>\alpha</math>) or MT5 (Mn54 production)</b>	MT111 (p,2p) >>



Reaction	Q-Value
Fe57(p, $\alpha$ )Mn54	239.35 keV
Fe57(p,p+t)Mn54	-19574.51 keV
Fe57(p,n+He3)Mn54	-20338.26 keV
Fe57(p,2d)Mn54	-23607.17 keV
Fe57(p,n+p+d)Mn54	-25831.74 keV
Fe57(p,2n+2p)Mn54	-28056.30 keV

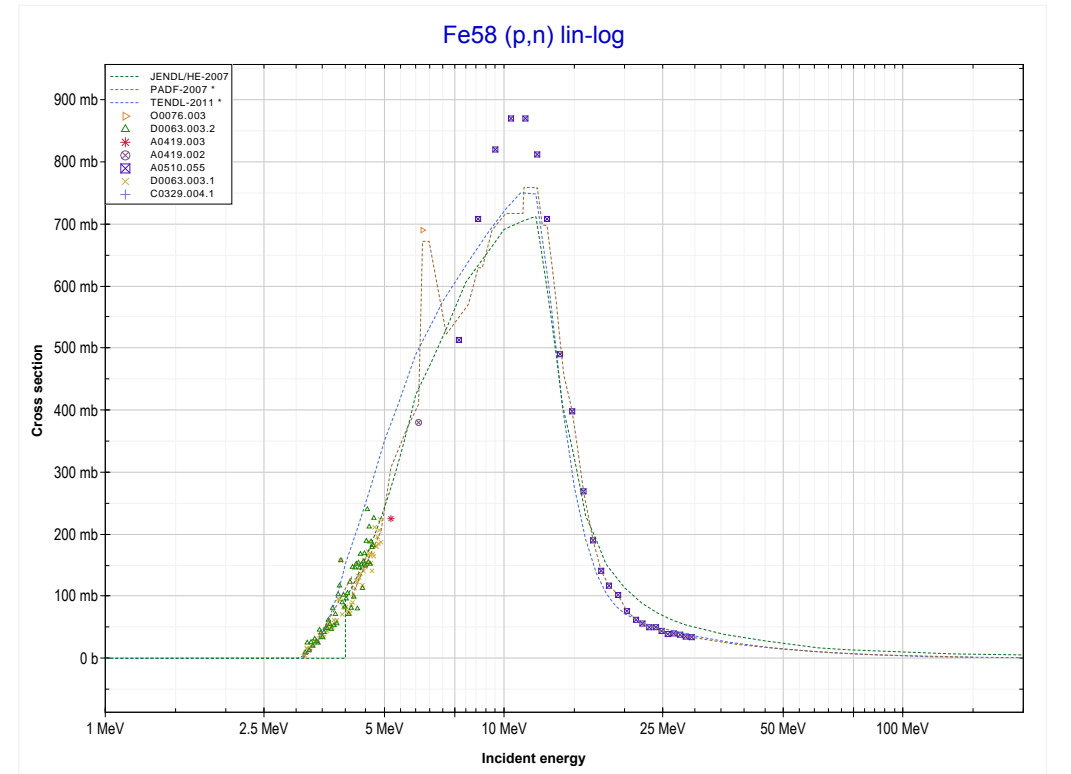
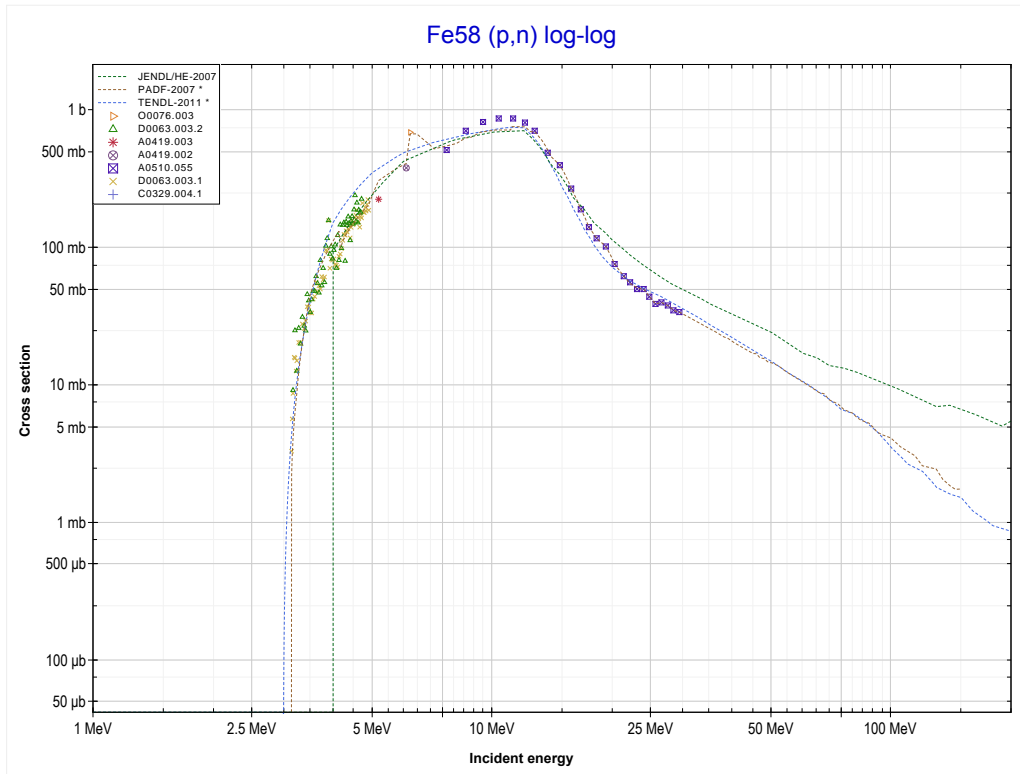
<< 24-Cr-50	<b>26-Fe-57</b>	28-Ni-58 >>
<< MT107 (p, $\alpha$ )	<b>MT111 (p,2p) or MT5 (Mn56 production)</b>	MT4 (p,n) >>



Reaction	Q-Value
Fe57(p,2p)Mn56	-10559.37 keV

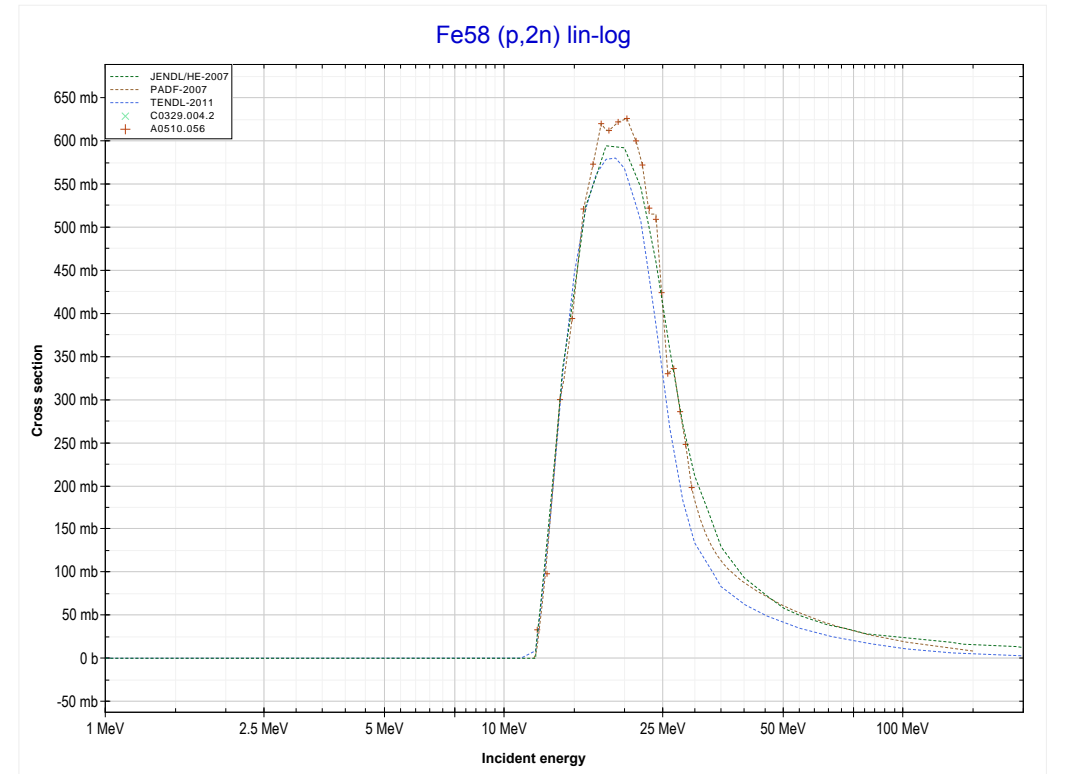
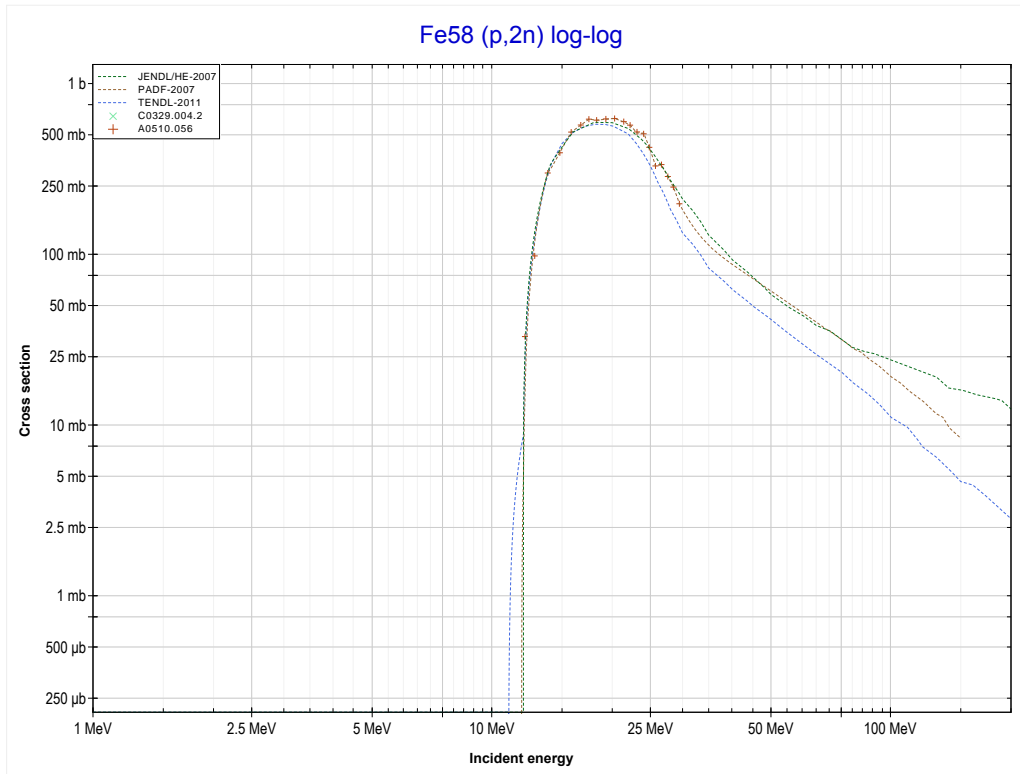


<< 26-Fe-57	<b>26-Fe-58</b>	27-Co-59 >>
<< MT111 (p,2p)	<b>MT4 (p,n) or MT5 (Co58 production)</b>	MT16 (p,2n) >>



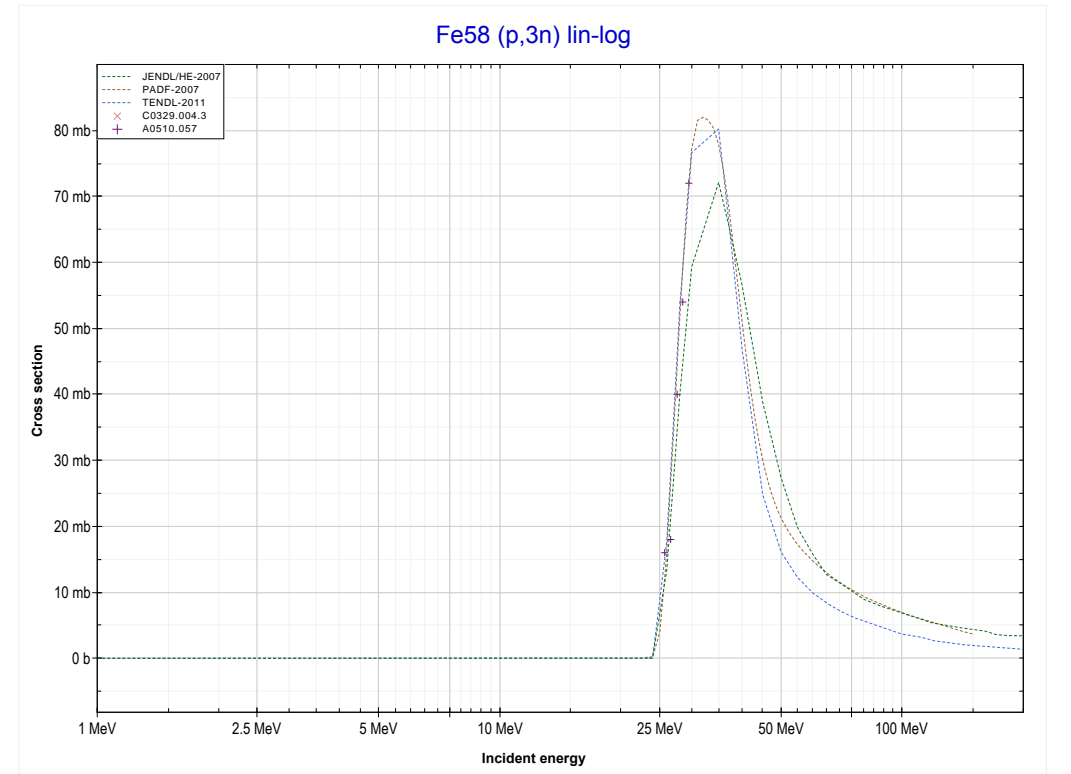
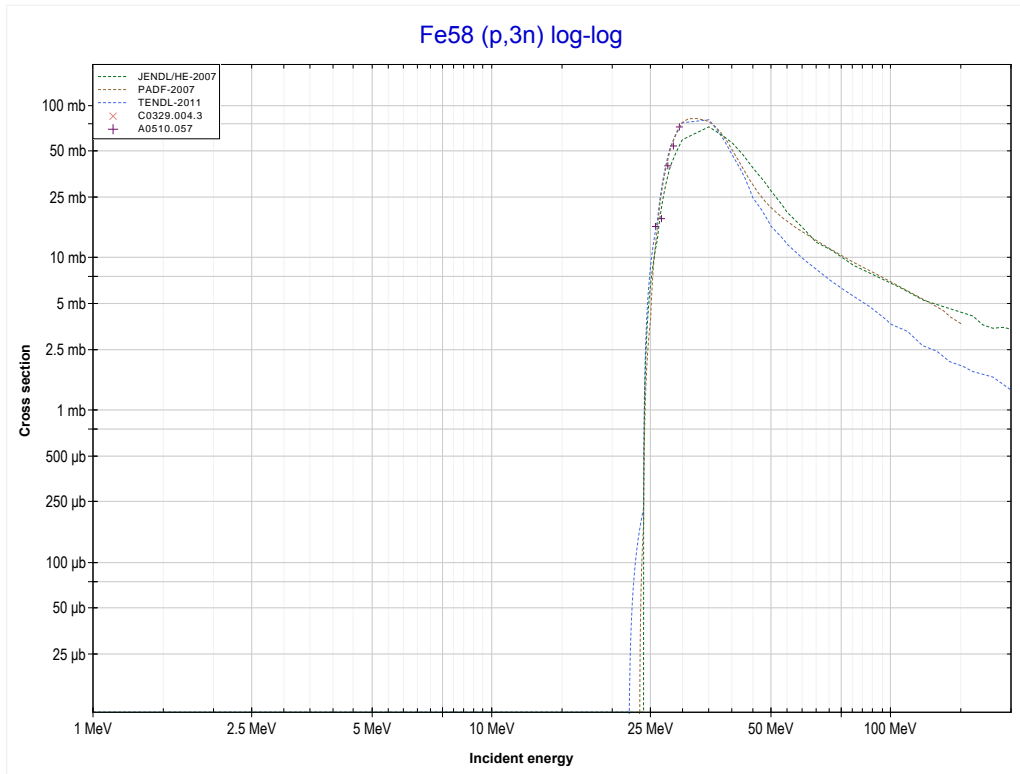
Reaction	Q-Value
Fe58(p,n)Co58	-3089.85 keV

<< 26-Fe-57	<b>26-Fe-58</b>	28-Ni-60 >>
<< MT4 (p,n)	<b>MT16 (p,2n) or MT5 (Co57 production)</b>	MT17 (p,3n) >>



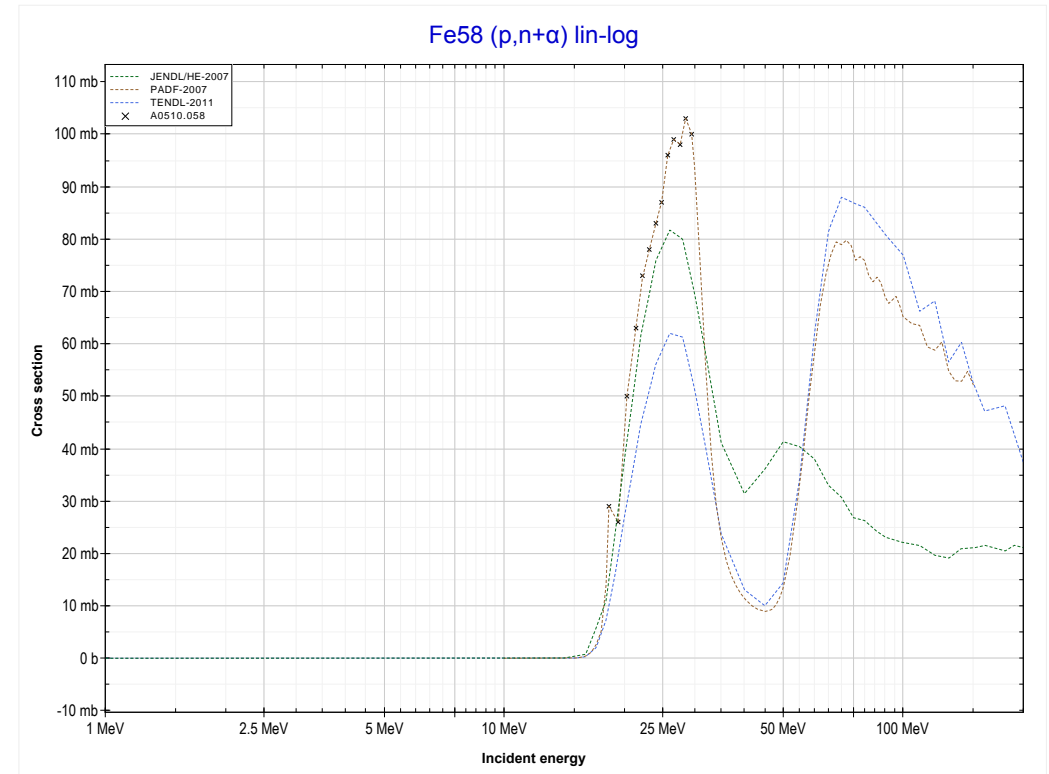
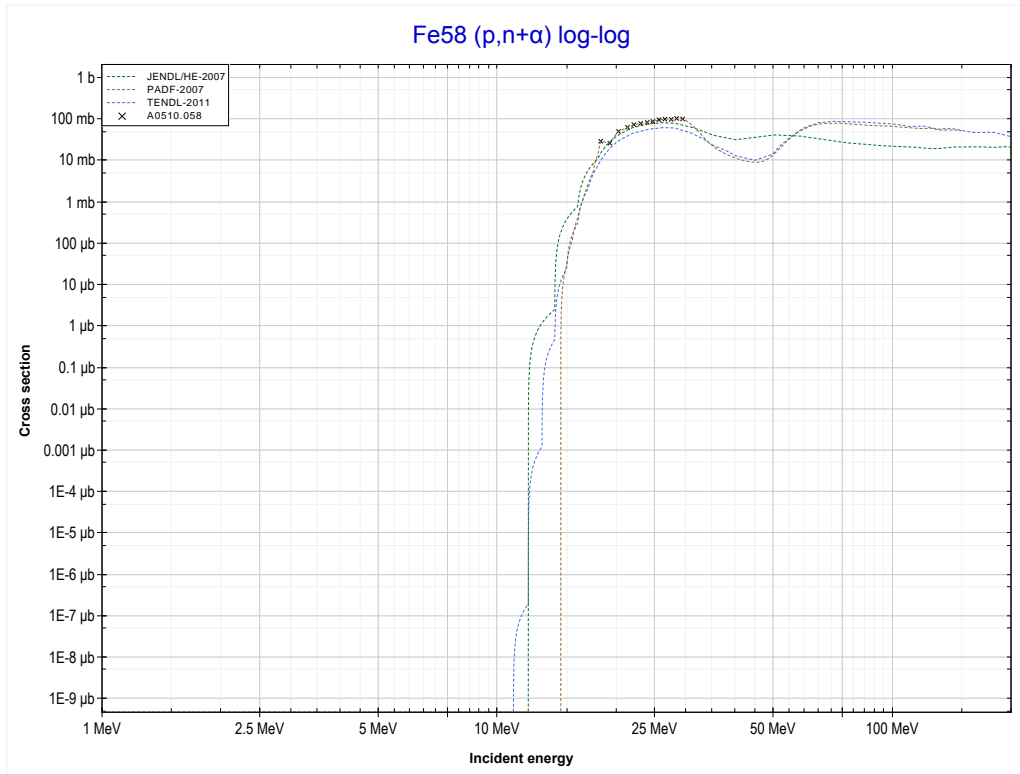
Reaction	Q-Value
Fe58(p,2n)Co57	-11662.86 keV

<< 26-Fe-57	<b>26-Fe-58</b>	27-Co-59 >>
<< MT16 (p,2n)	<b>MT17 (p,3n) or MT5 (Co56 production)</b>	MT22 (p,n+α) >>



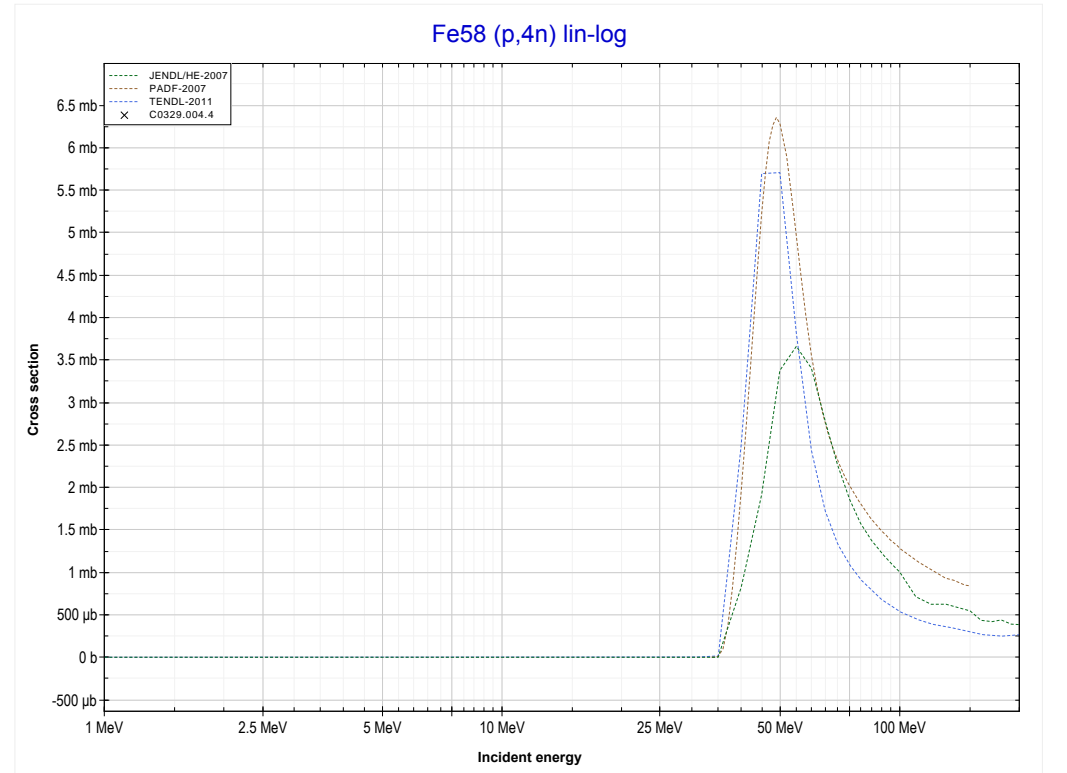
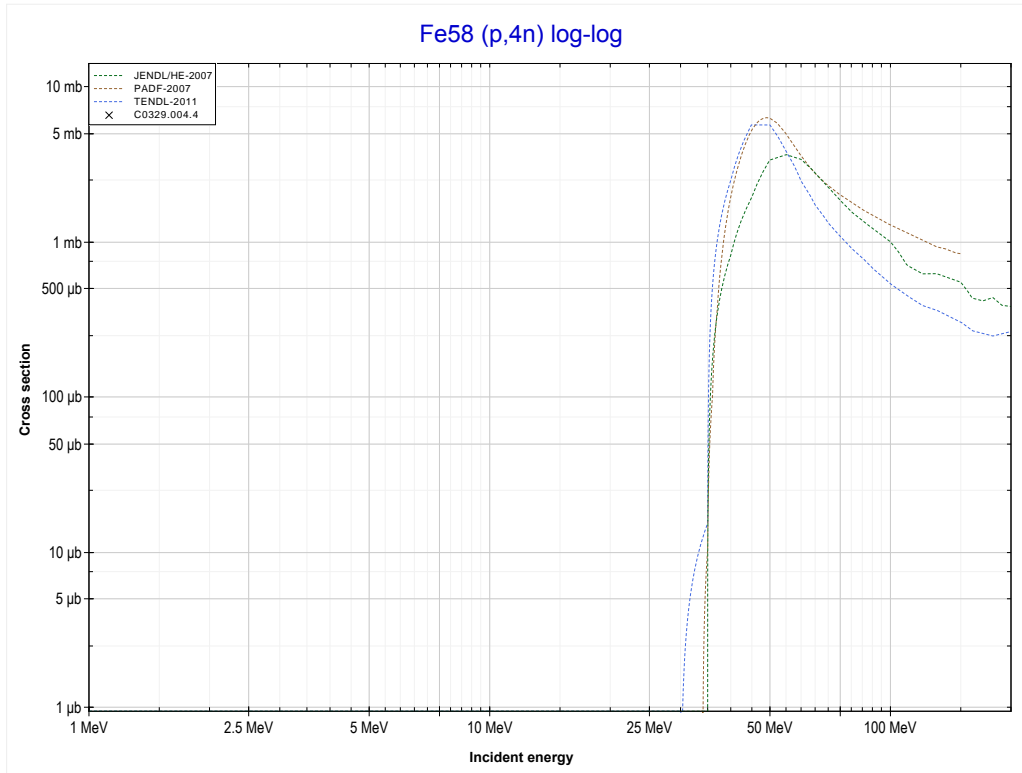
Reaction	Q-Value
Fe58(p,3n)Co56	-23038.98 keV

<< 26-Fe-56	<b>26-Fe-58</b>	28-Ni-60 >>
<< MT17 (p,3n)	<b>MT22 (p,n+α) or MT5 (Mn54 production)</b>	MT37 (p,4n) >>



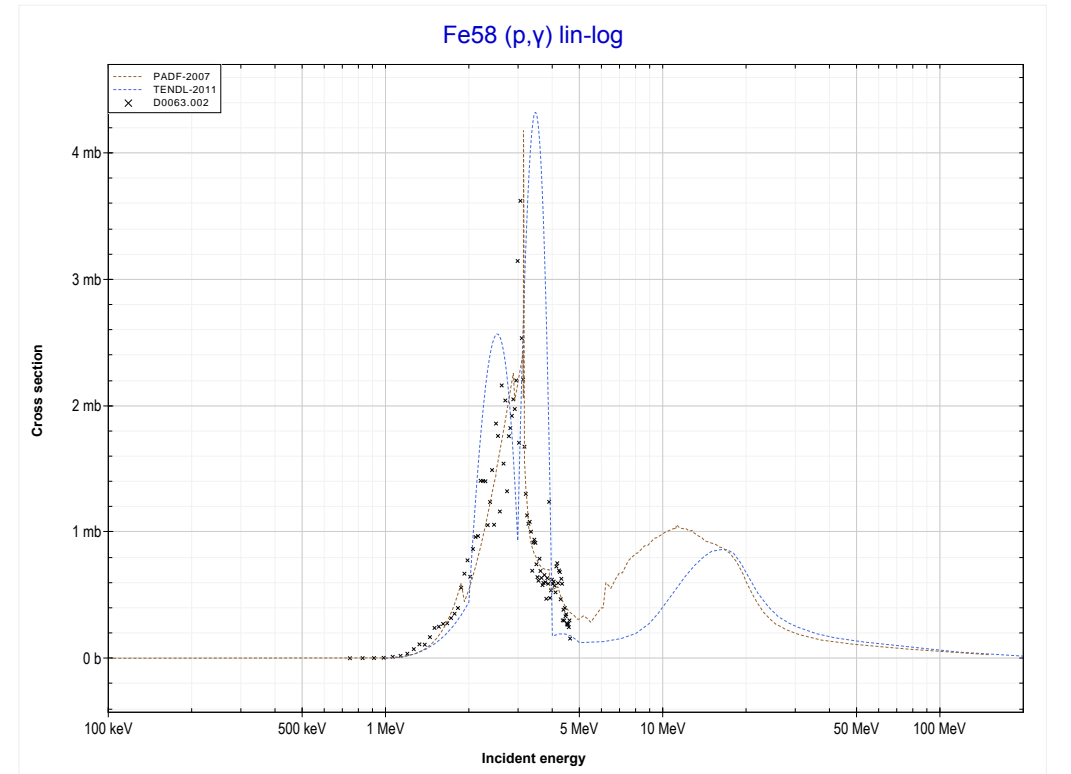
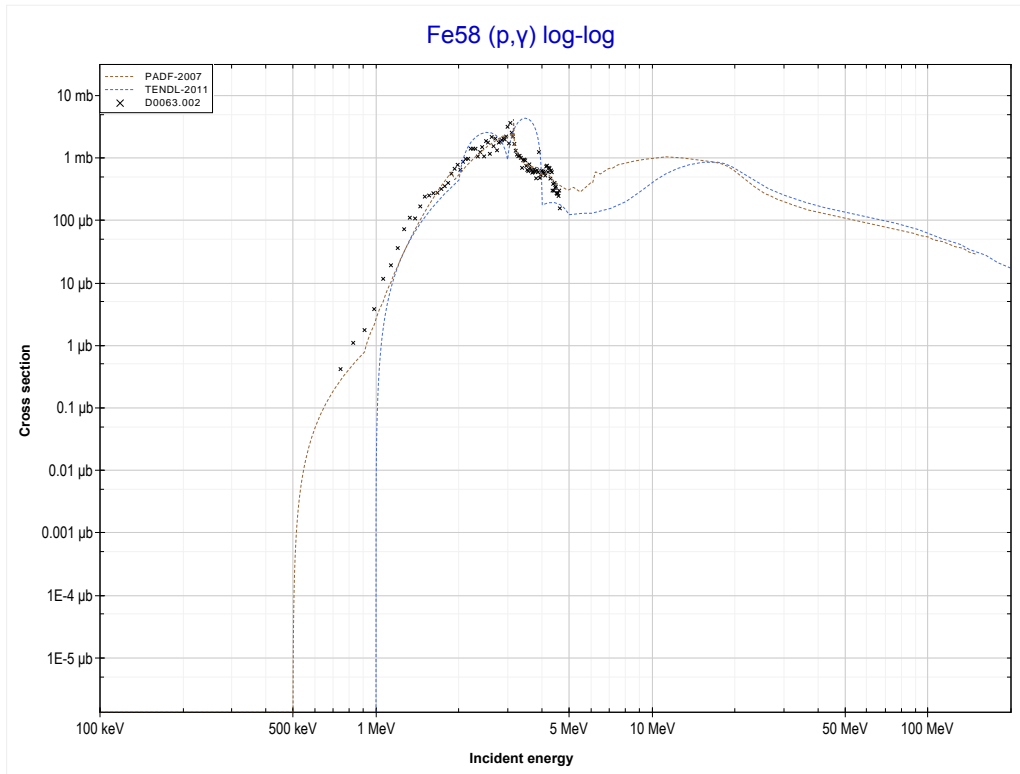
Reaction	Q-Value
Fe58(p,n+α)Mn54	-9805.26 keV
Fe58(p,d+t)Mn54	-27394.56 keV
Fe58(p,n+p+t)Mn54	-29619.12 keV
Fe58(p,2n+He3)Mn54	-30382.88 keV
Fe58(p,n+2d)Mn54	-33651.79 keV
Fe58(p,2n+p+d)Mn54	-35876.36 keV
Fe58(p,3n+2p)Mn54	-38100.92 keV

<< 25-Mn-55	<b>26-Fe-58</b>	27-Co-59 >>
<< MT22 (p,n+α)	<b>MT37 (p,4n) or MT5 (Co55 production)</b>	MT102 (p,γ) >>



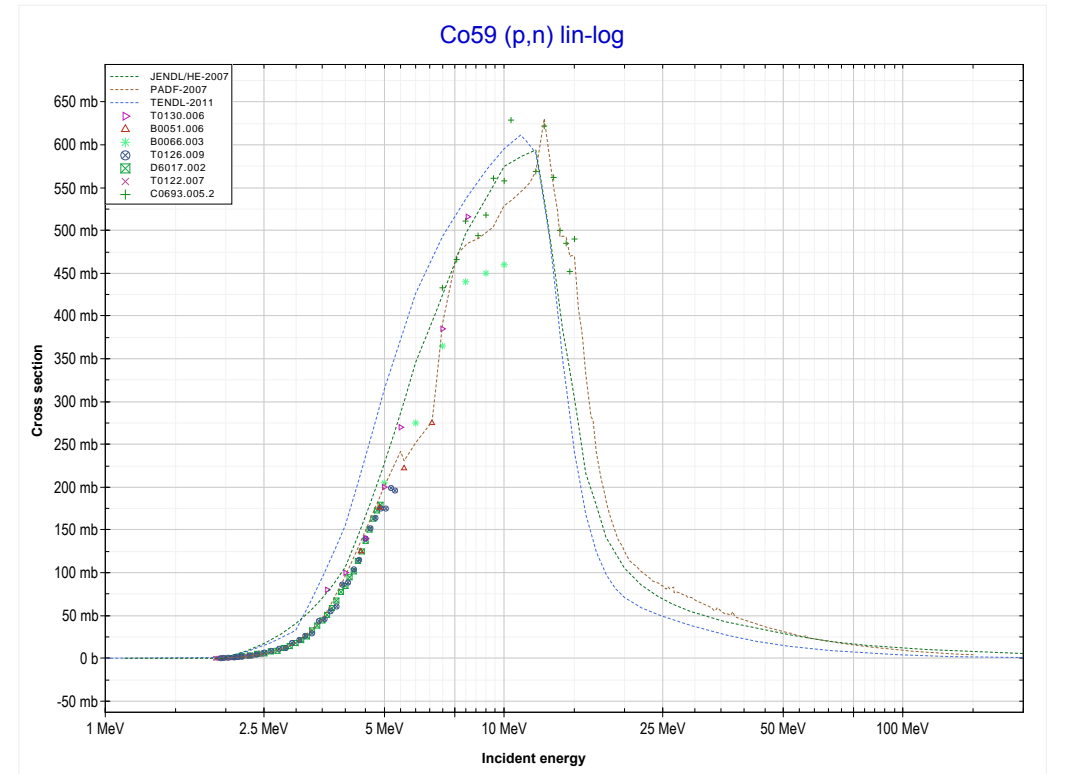
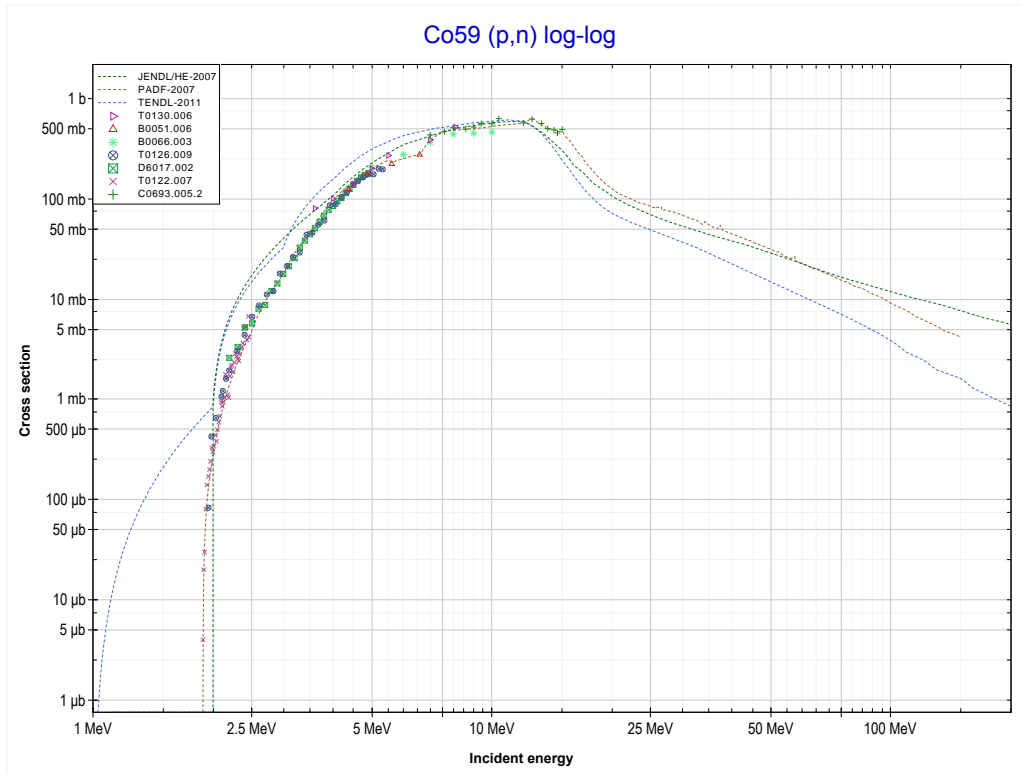
Reaction	Q-Value
Fe58(p,4n)Co55	-33122.10 keV

<< 26-Fe-56	<b>26-Fe-58</b>	27-Co-59 >>
<< MT37 (p,4n)	<b>MT102 (p,<math>\gamma</math>) or MT5 (Co59 production)</b>	MT4 (p,n) >>



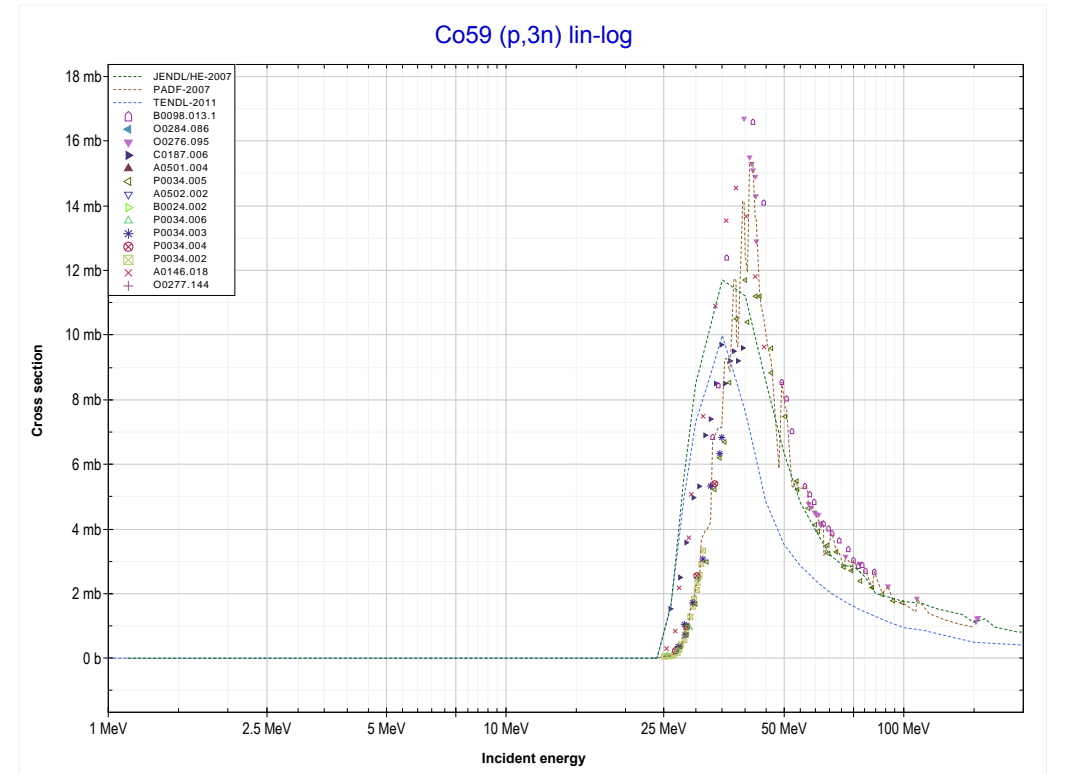
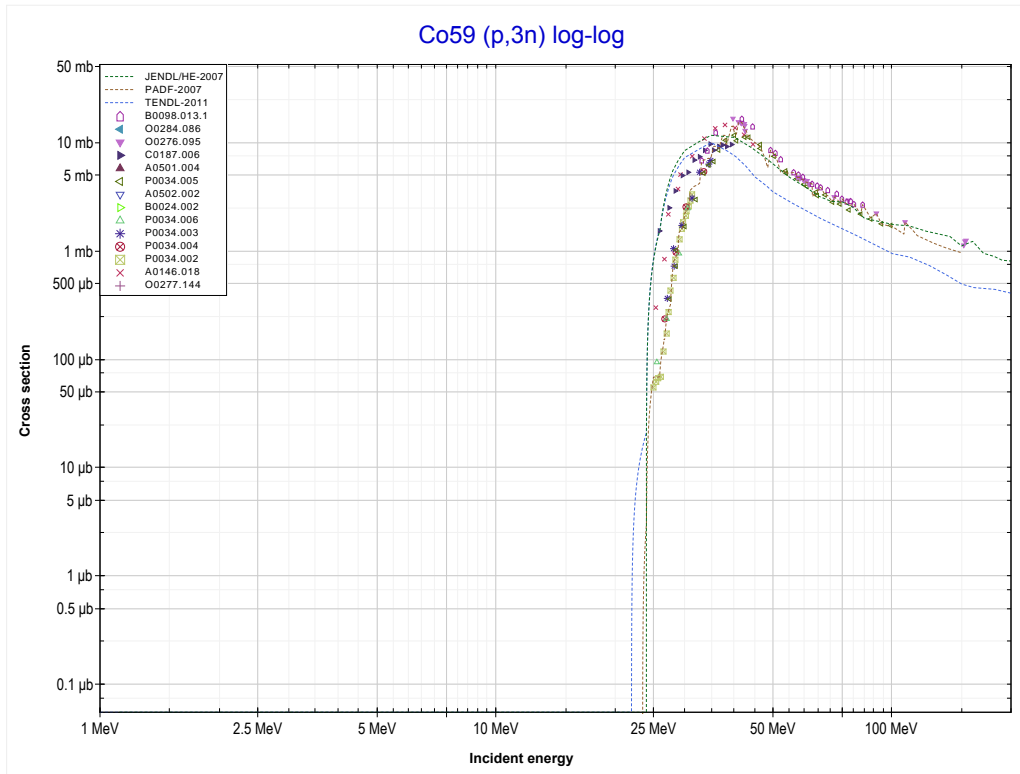
Reaction	Q-Value
Fe58(p, $\gamma$ )Co59	7363.97 keV

<< 26-Fe-58	<b>27-Co-59</b>	28-Ni-58 >>
<< MT102 (p, $\gamma$ )	<b>MT4 (p,n) or MT5 (Ni59 production)</b>	MT17 (p,3n) >>



Reaction	Q-Value
Co59(p,n)Ni59	-1855.05 keV

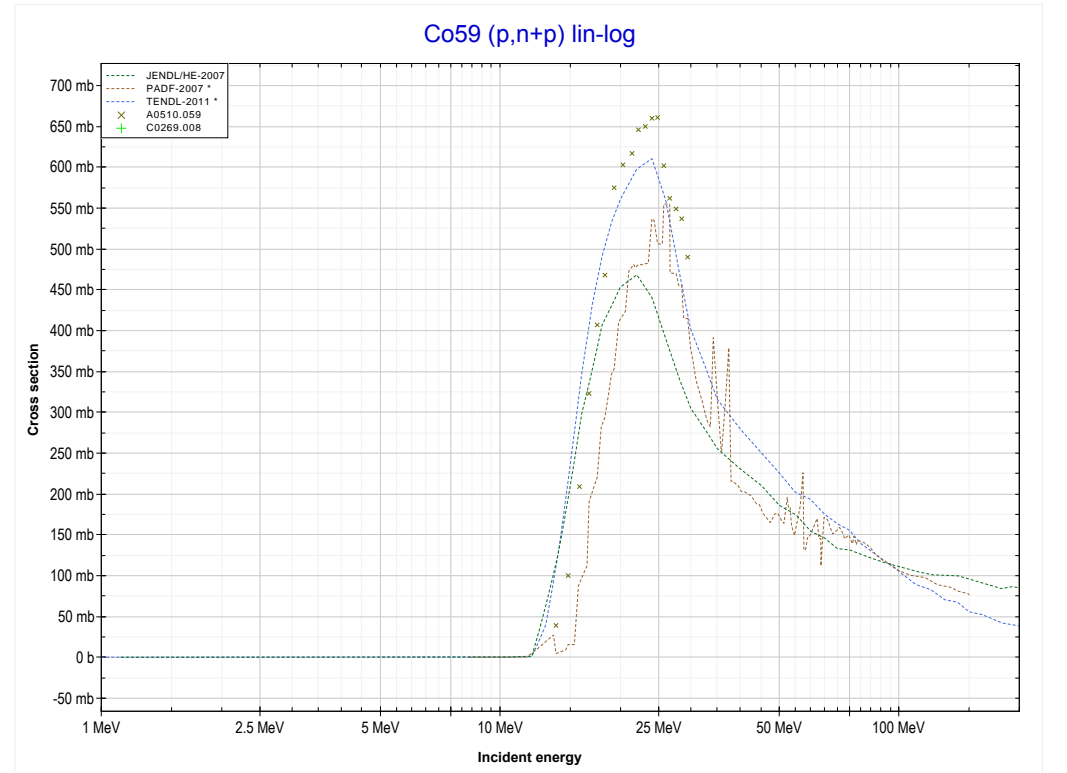
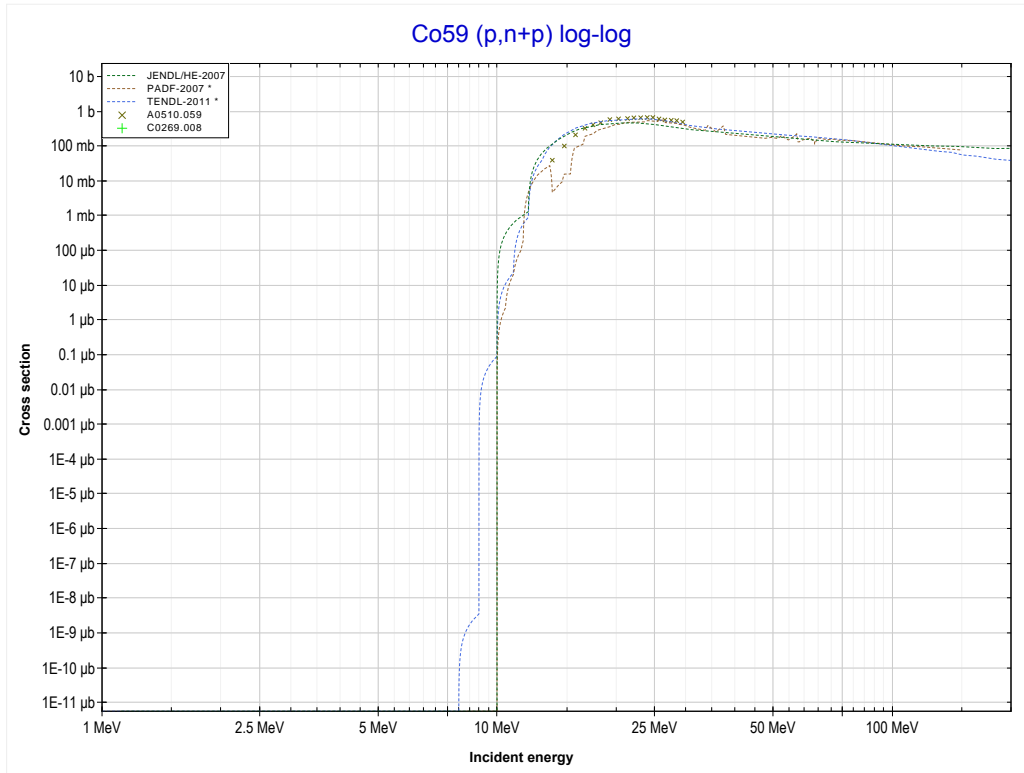
<< 26-Fe-58	<b>27-Co-59</b>	28-Ni-62 >>
<< MT4 (p,n)	<b>MT17 (p,3n) or MT5 (Ni57 production)</b>	MT28 (p,n+p) >>



Reaction	Q-Value
Co59(p,3n)Ni57	-23071.38 keV

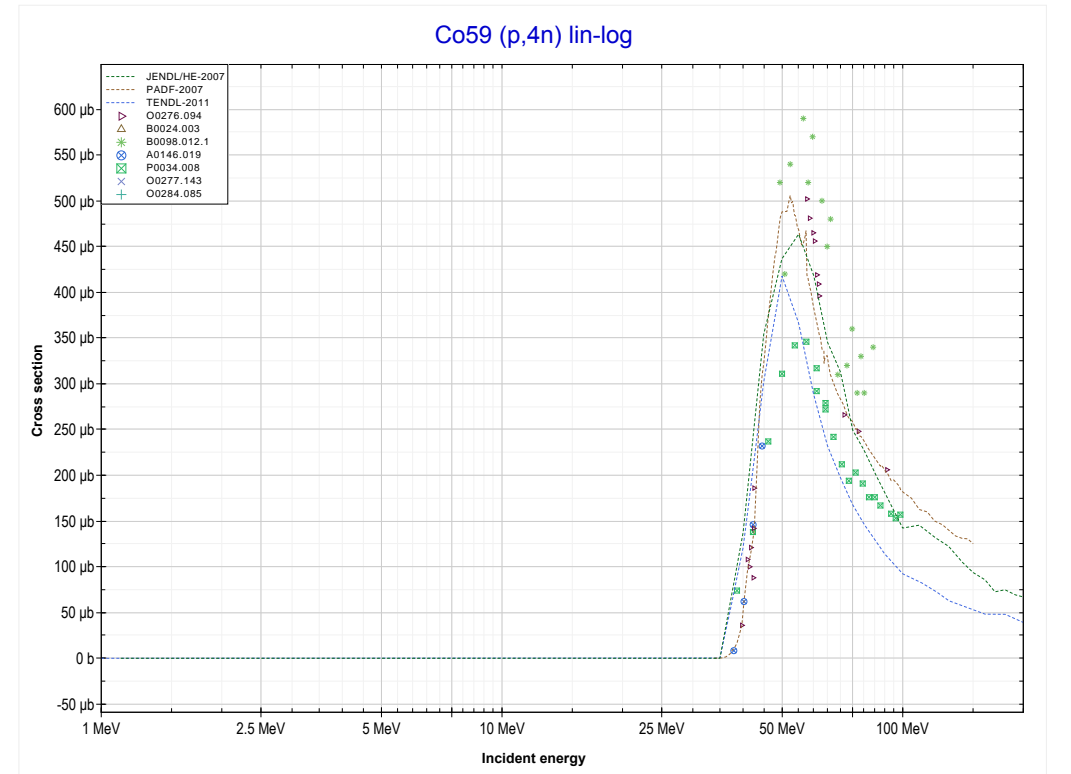
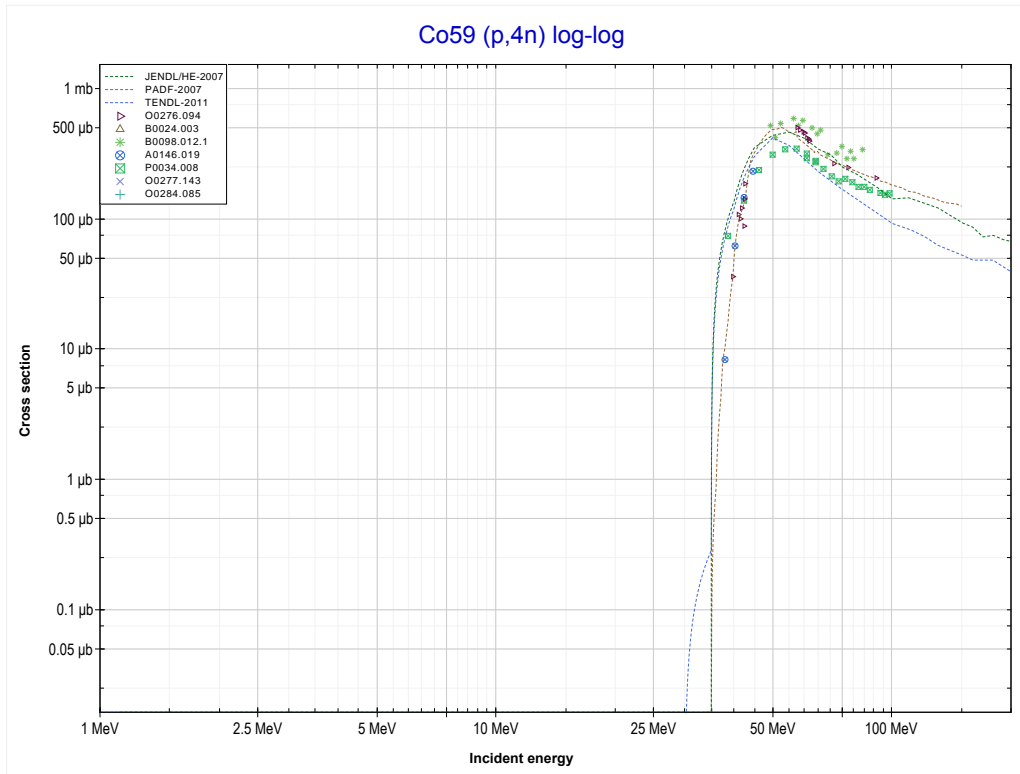


<< 26-Fe-56	<b>27-Co-59</b>	28-Ni-58 >>
<< MT17 (p,3n)	<b>MT28 (p,n+p) or MT5 (Co58 production)</b>	MT37 (p,4n) >>



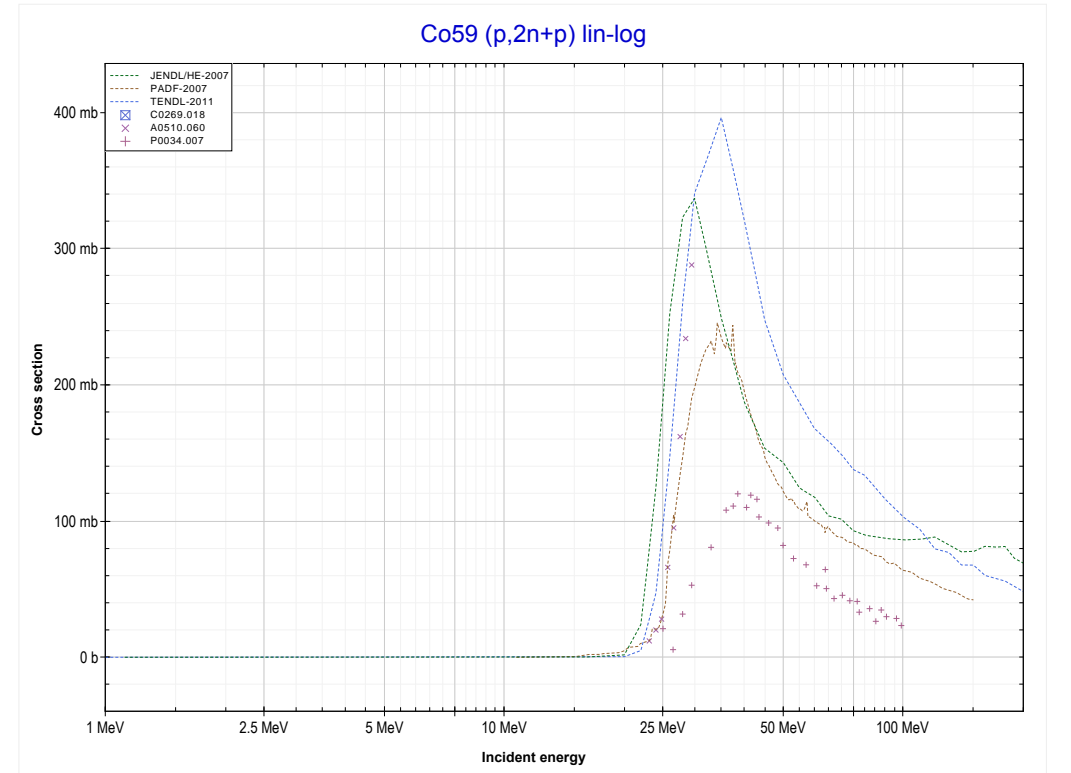
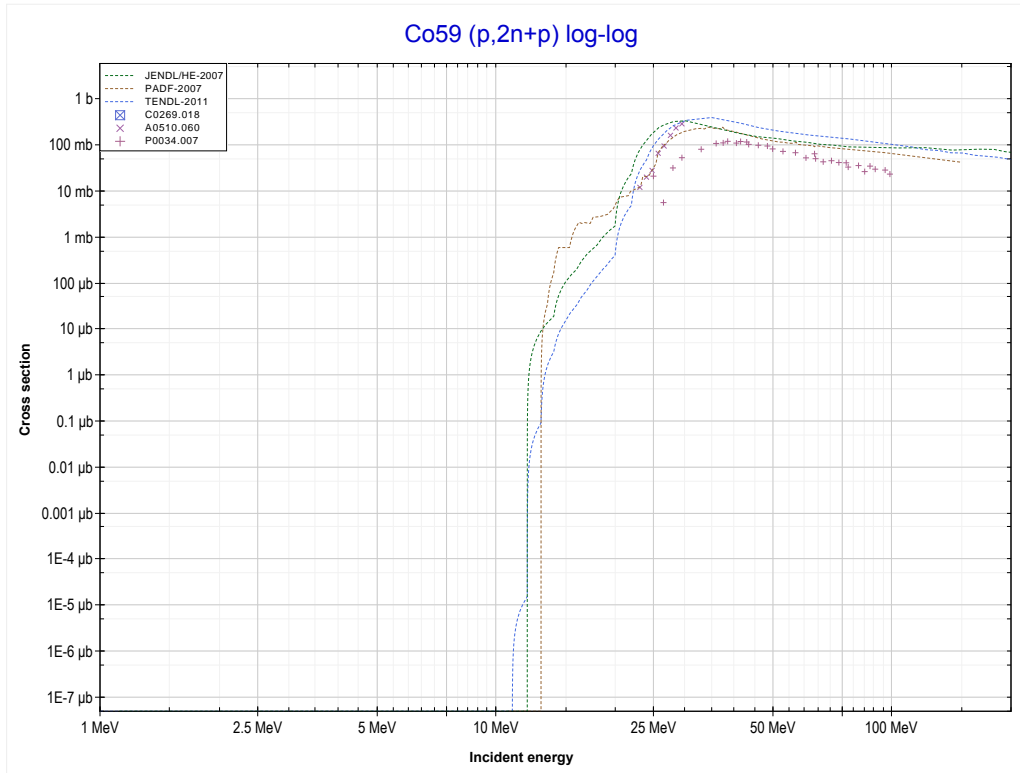
Reaction	Q-Value
Co59(p,d)Co58	-8229.25 keV
Co59(p,n+p)Co58	-10453.82 keV

<< 26-Fe-58	<b>27-Co-59</b>	29-Cu-65 >>
<< MT28 (p,n+p)	<b>MT37 (p,4n) or MT5 (Ni56 production)</b>	MT41 (p,2n+p) >>



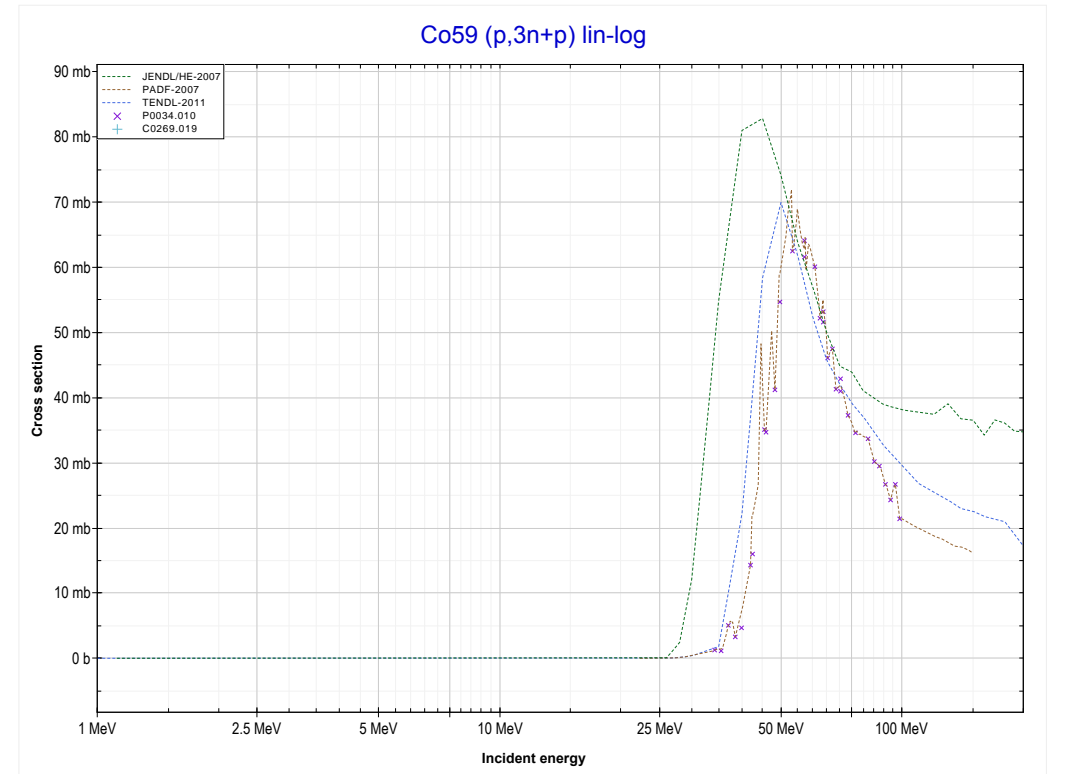
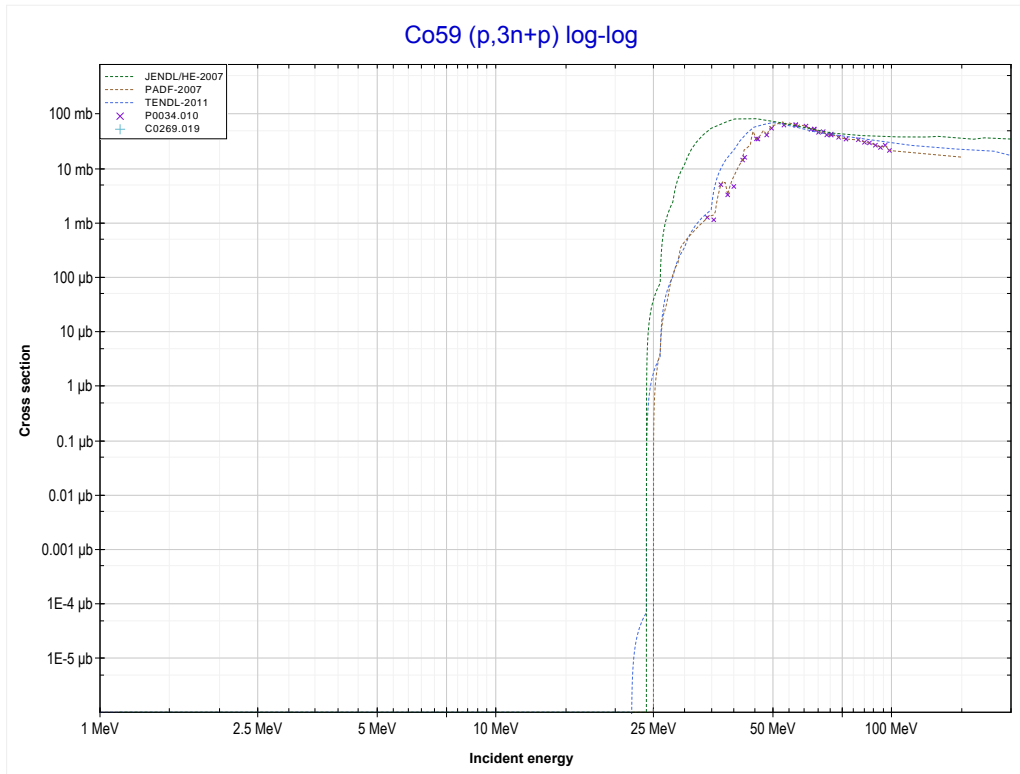
Reaction	Q-Value
Co59(p,4n)Ni56	-33320.70 keV

<< 26-Fe-57	<b>27-Co-59</b>	28-Ni-58 >>
<< MT37 (p,4n)	<b>MT41 (p,2n+p) or MT5 (Co57 production)</b>	MT42 (p,3n+p) >>



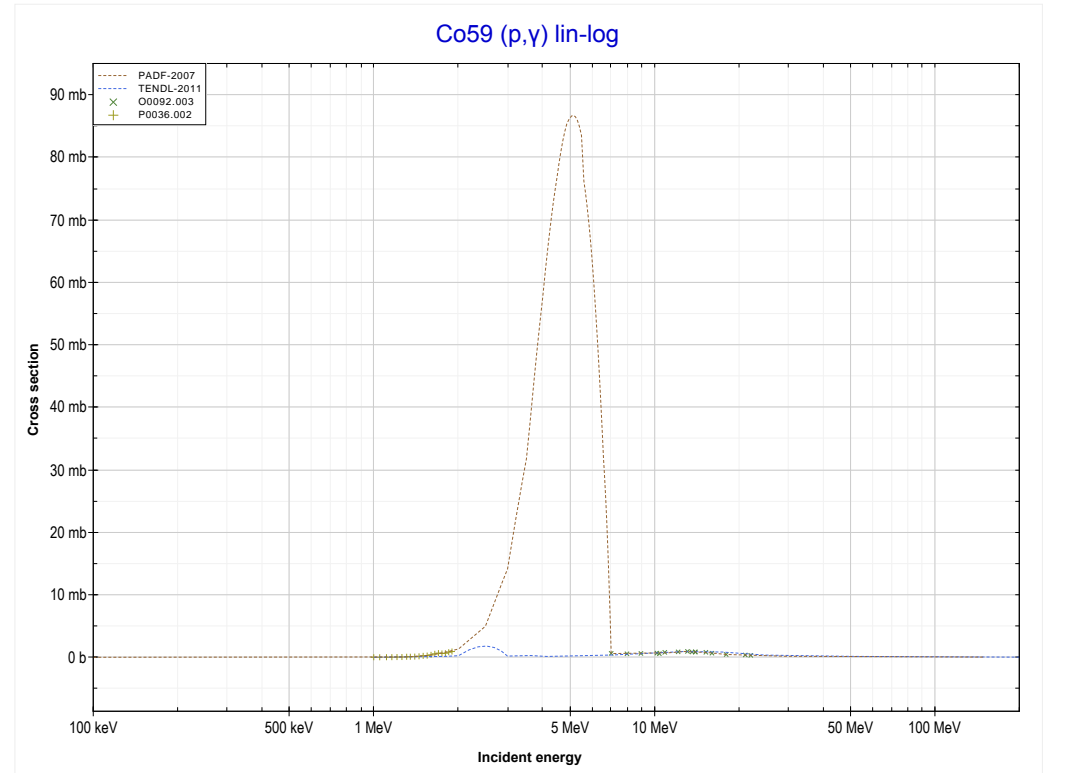
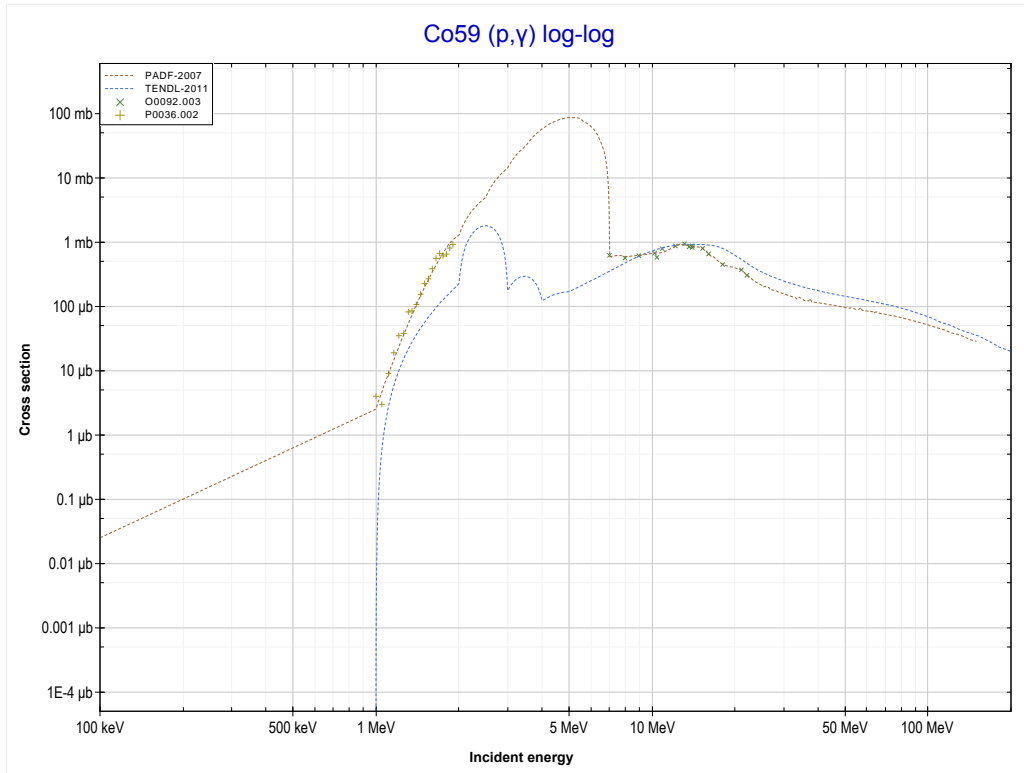
Reaction	Q-Value
Co59(p,t)Co57	-10545.04 keV
Co59(p,n+d)Co57	-16802.27 keV
Co59(p,2n+p)Co57	-19026.83 keV

<< 26-Fe-56	<b>27-Co-59</b>	31-Ga-69 >>
<< MT41 (p,2n+p)	<b>MT42 (p,3n+p) or MT5 (Co56 production)</b>	MT102 (p,y) >>



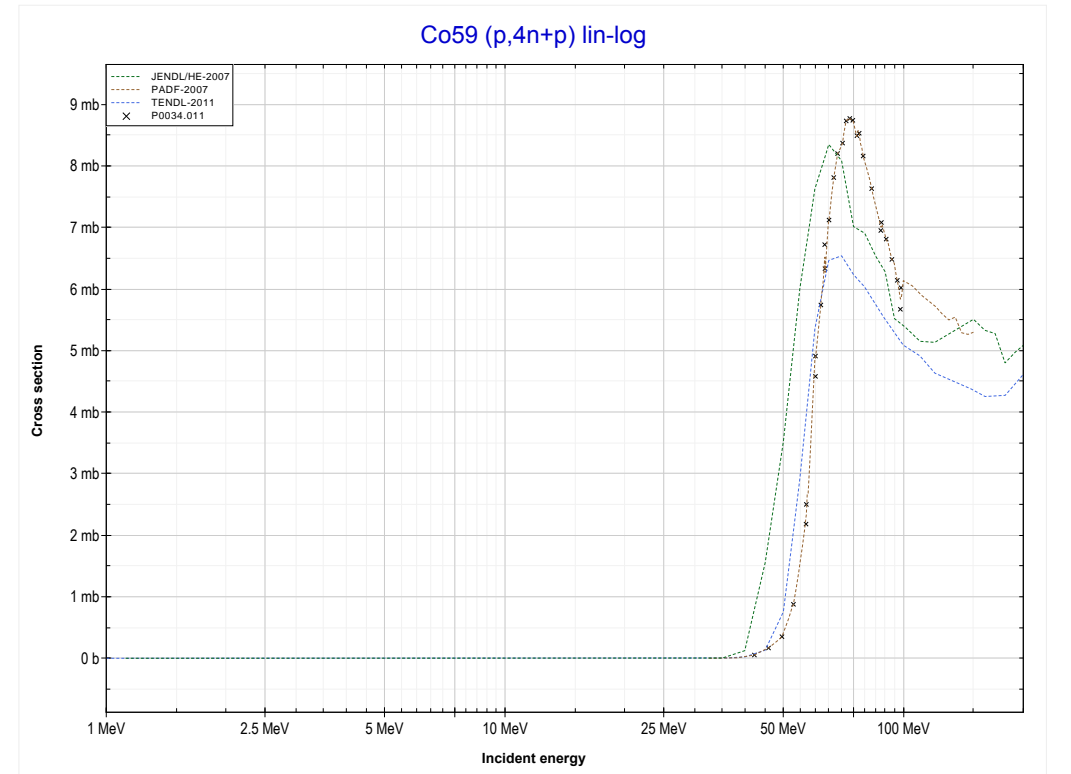
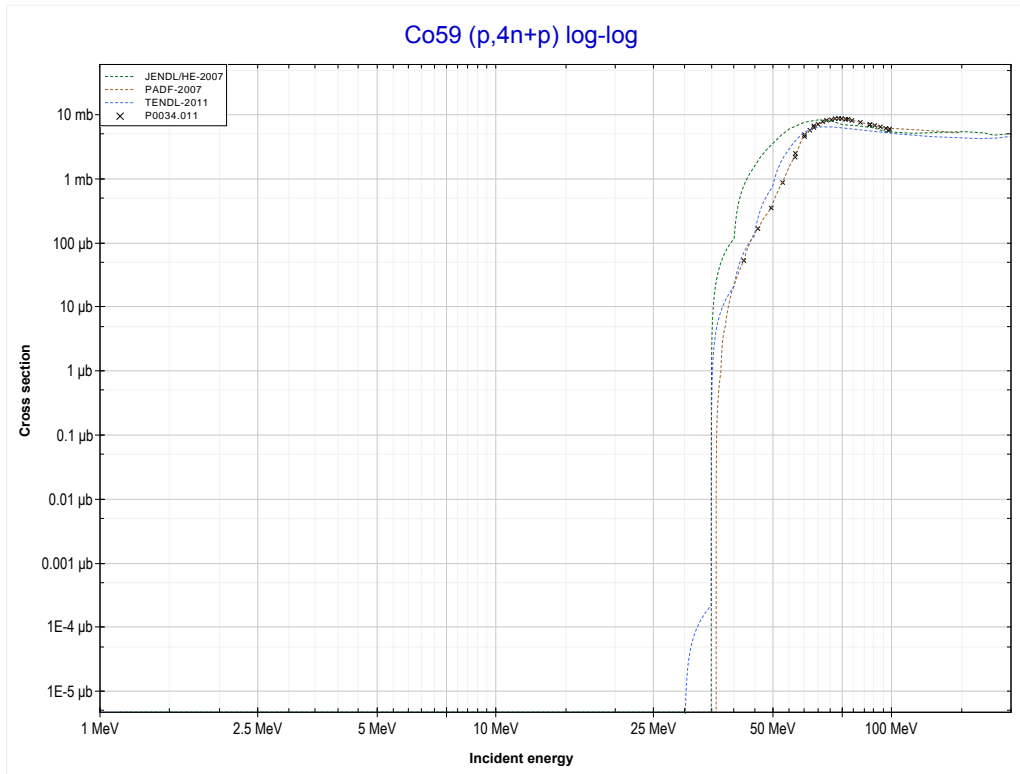
Reaction	Q-Value
Co59(p,n+t)Co56	-21921.15 keV
Co59(p,2n+d)Co56	-28178.39 keV
Co59(p,3n+p)Co56	-30402.95 keV

<< 26-Fe-58	<b>27-Co-59</b>	28-Ni-58 >>
<< MT42 (p,3n+p)	<b>MT102 (p,<math>\gamma</math>) or MT5 (Ni60 production)</b>	MT156 (p,4n+p) >>



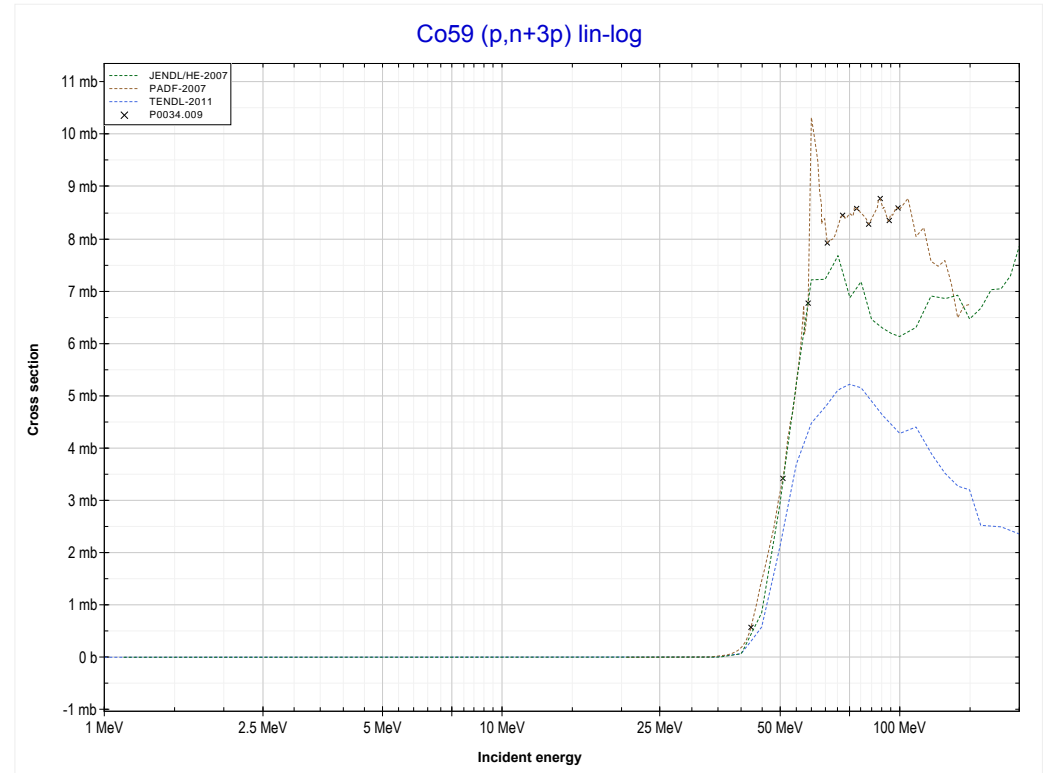
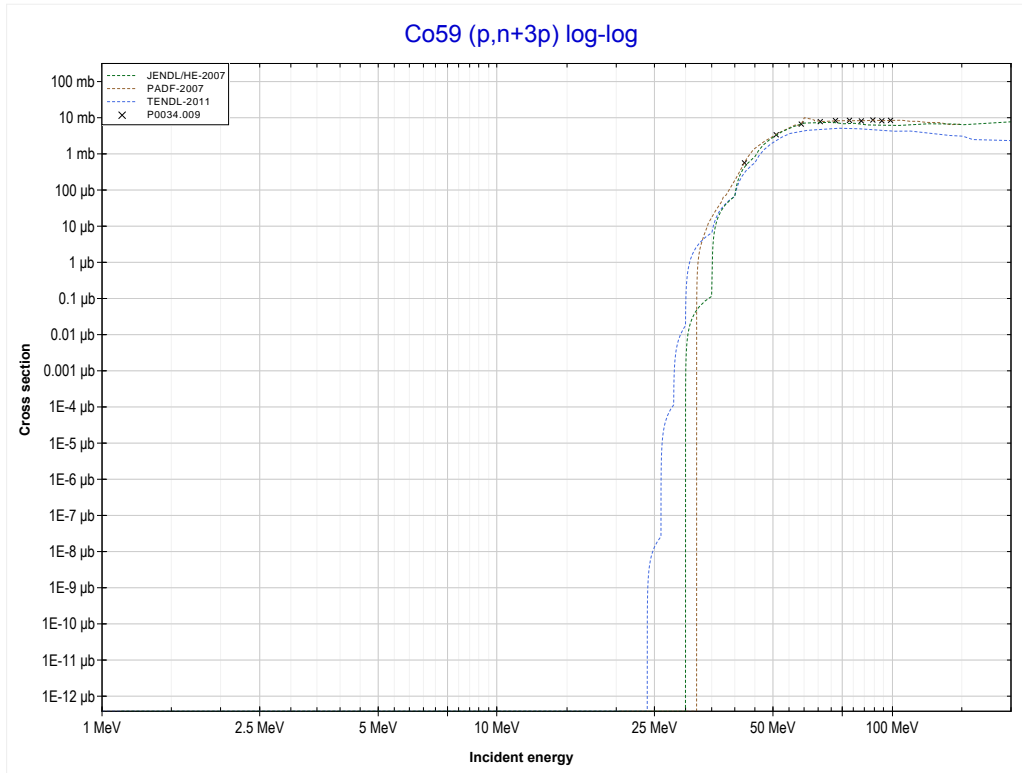
Reaction	Q-Value
Co59(p, $\gamma$ )Ni60	9532.67 keV

	<b>27-Co-59</b>	31-Ga-69 >>
<< MT102 (p, $\gamma$ )	<b>MT156 (p,4n+p) or MT5 (Co55 production)</b>	MT198 (p,n+3p) >>



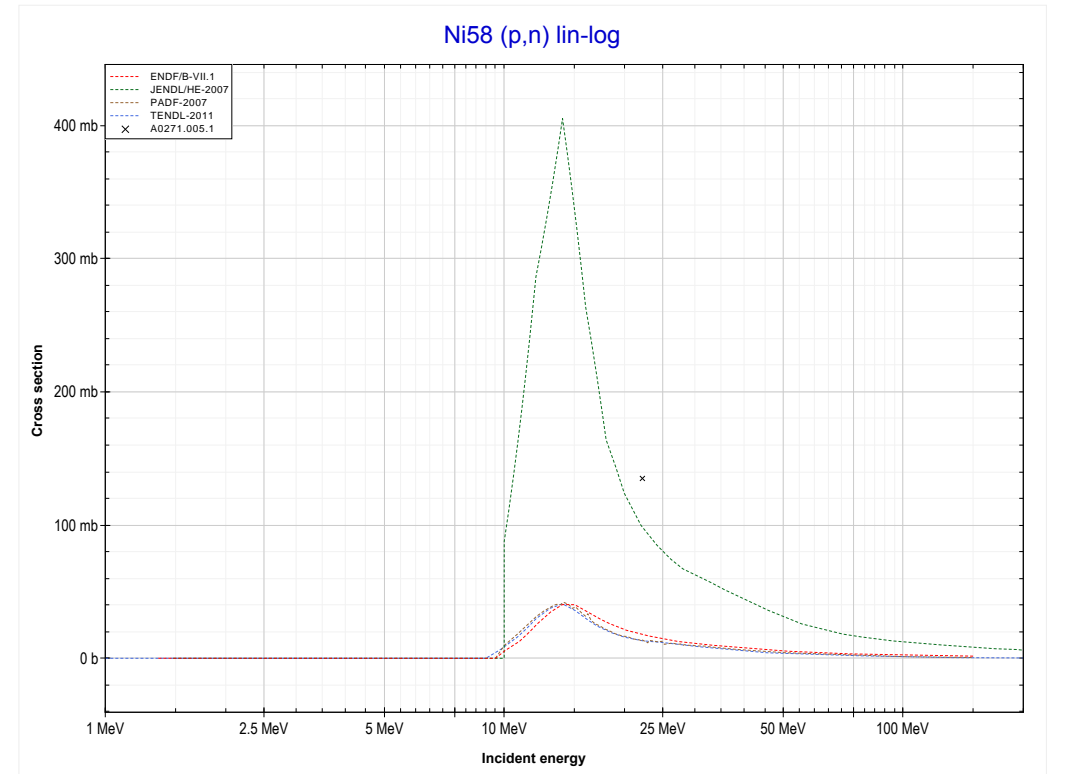
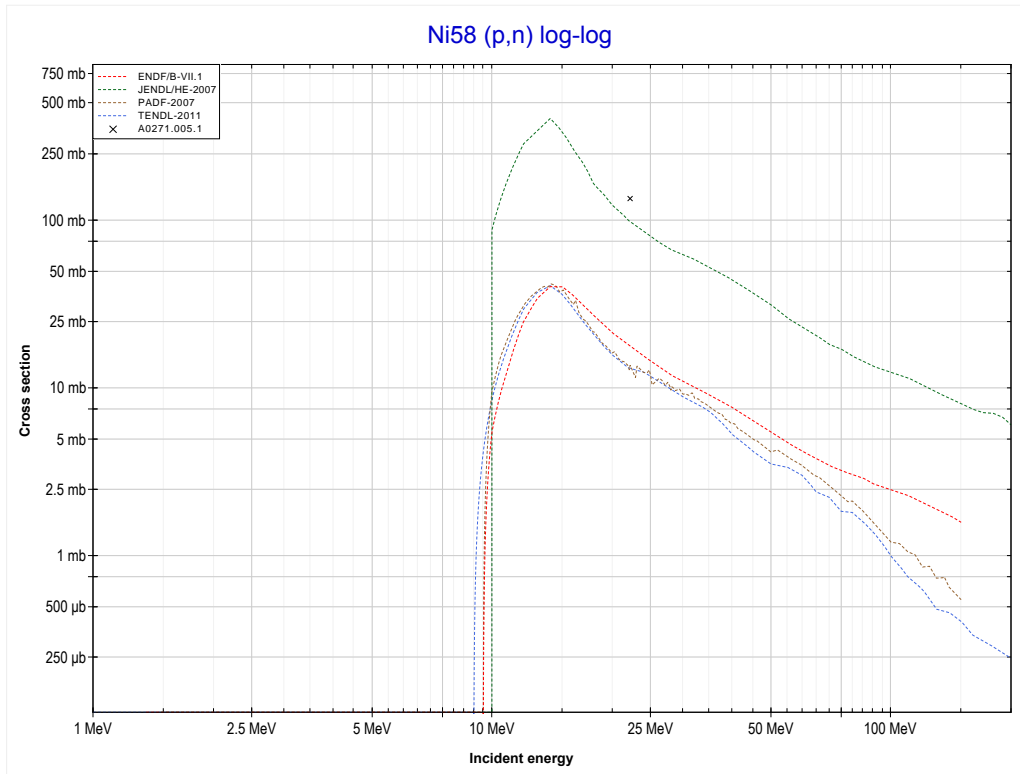
Reaction	Q-Value
Co59(p,2n+t)Co55	-32004.27 keV
Co59(p,3n+d)Co55	-38261.50 keV
Co59(p,4n+p)Co55	-40486.07 keV

<< 21-Sc-45	<b>27-Co-59</b>	
<< MT156 (p,4n+p)	<b>MT198 (p,n+3p) or MT5 (Mn56 production)</b>	MT4 (p,n) >>



Reaction	Q-Value
Co59(p,p+He3)Mn56	-20249.91 keV
Co59(p,2p+d)Mn56	-25743.39 keV
Co59(p,n+3p)Mn56	-27967.96 keV

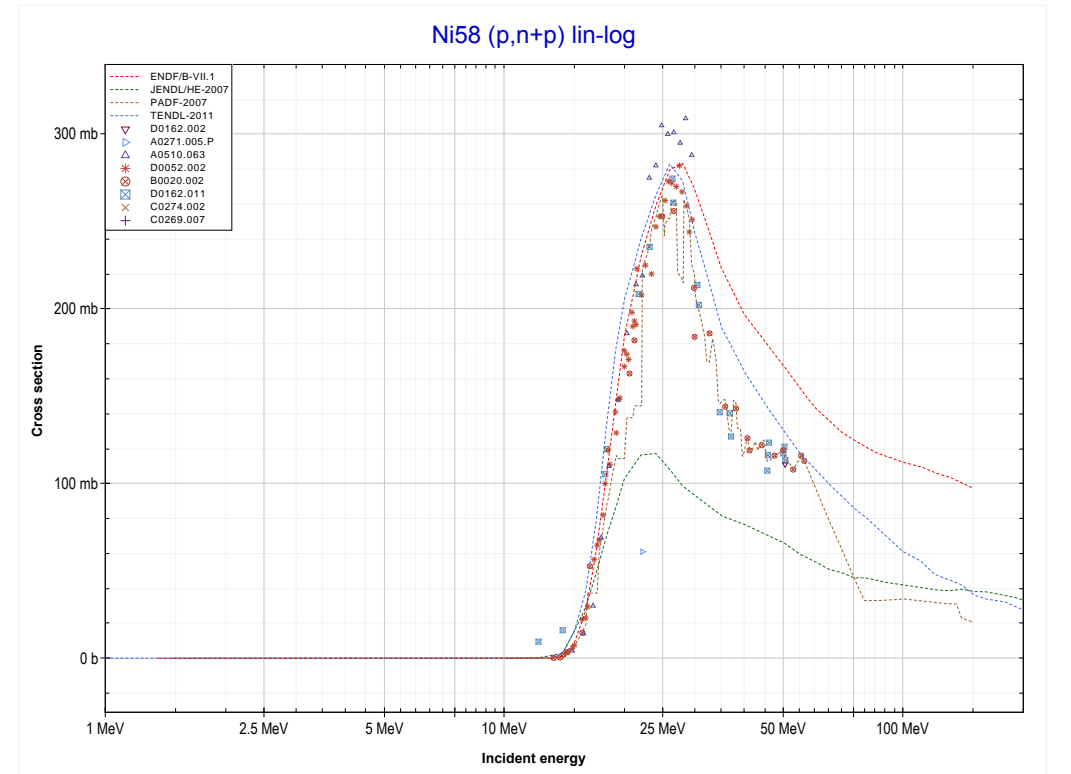
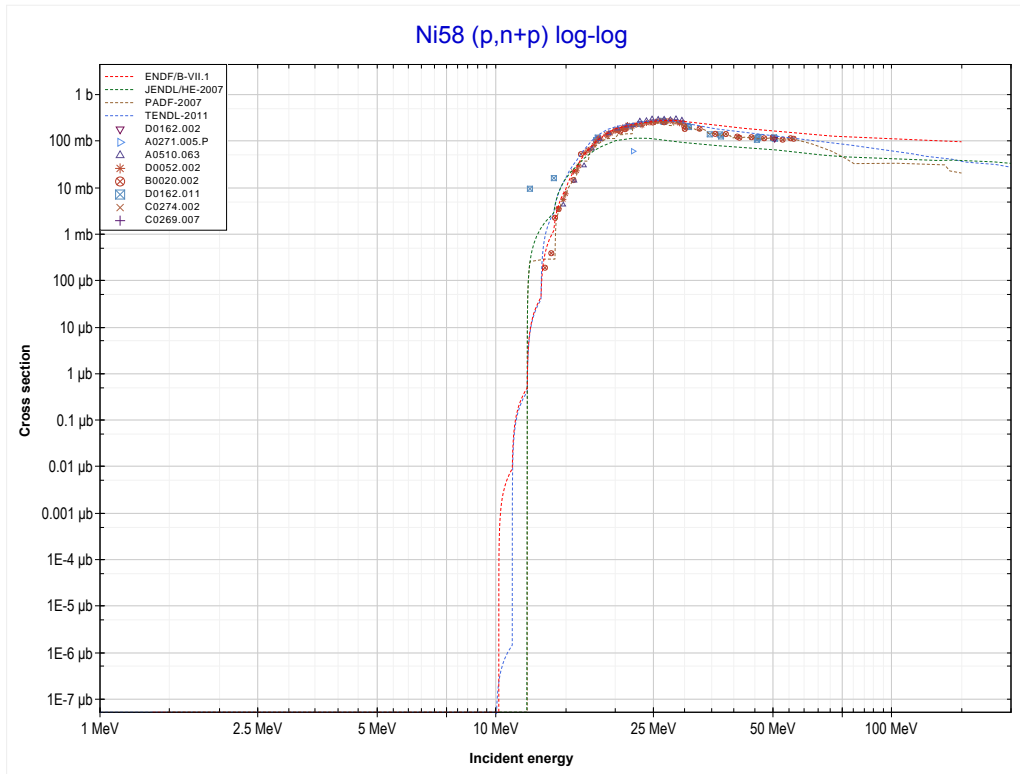
<< 27-Co-59	<b>28-Ni-58</b>	28-Ni-60 >>
<< MT198 (p,n+3p)	<b>MT4 (p,n) or MT5 (Cu58 production)</b>	MT28 (p,n+p) >>



Reaction	Q-Value
Ni58(p,n)Cu58	-9347.95 keV

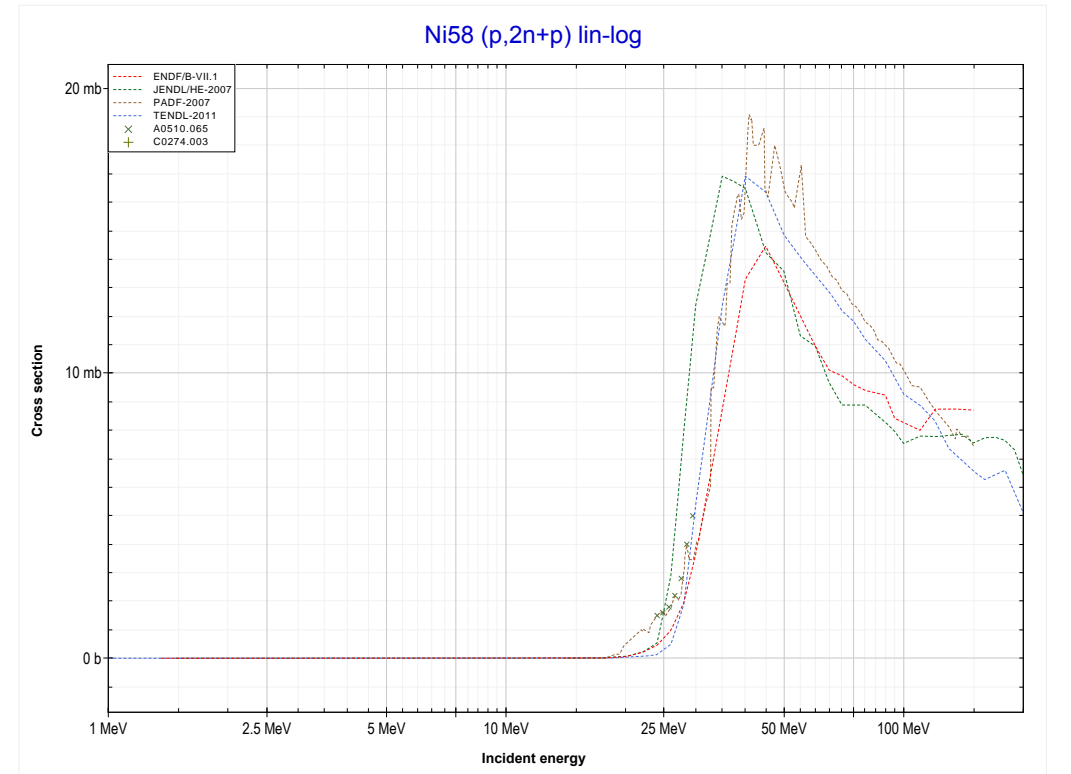
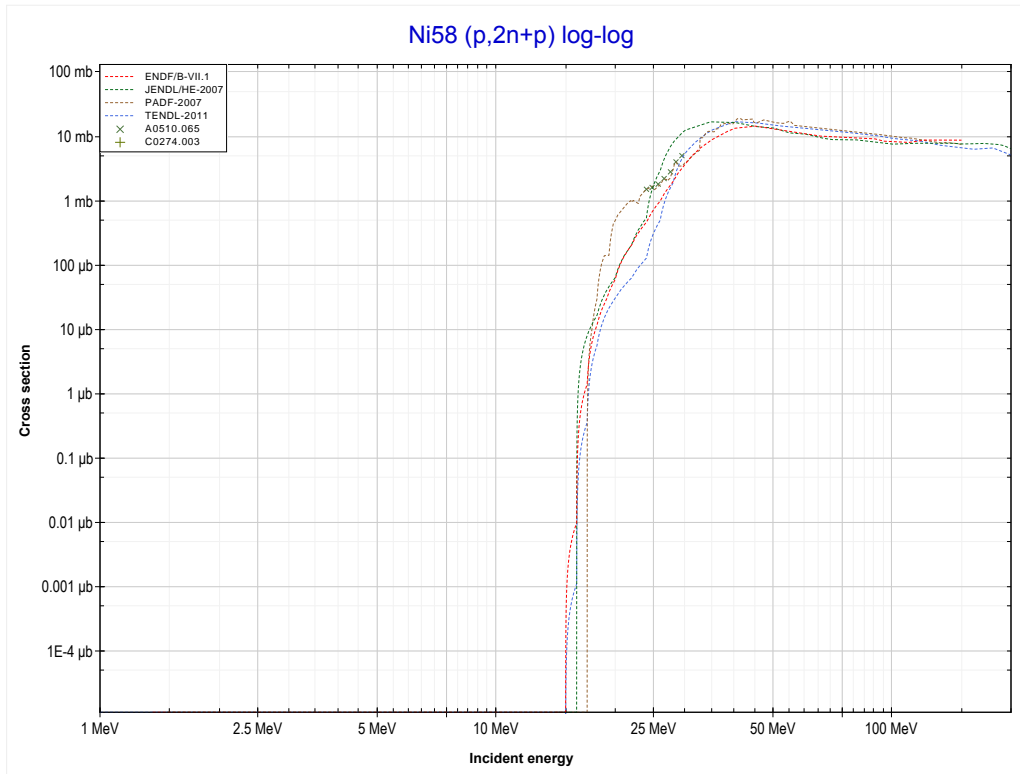


<< 27-Co-59	<b>28-Ni-58</b>	28-Ni-60 >>
<< MT4 (p,n)	<b>MT28 (p,n+p) or MT5 (Ni57 production)</b>	MT41 (p,2n+p) >>



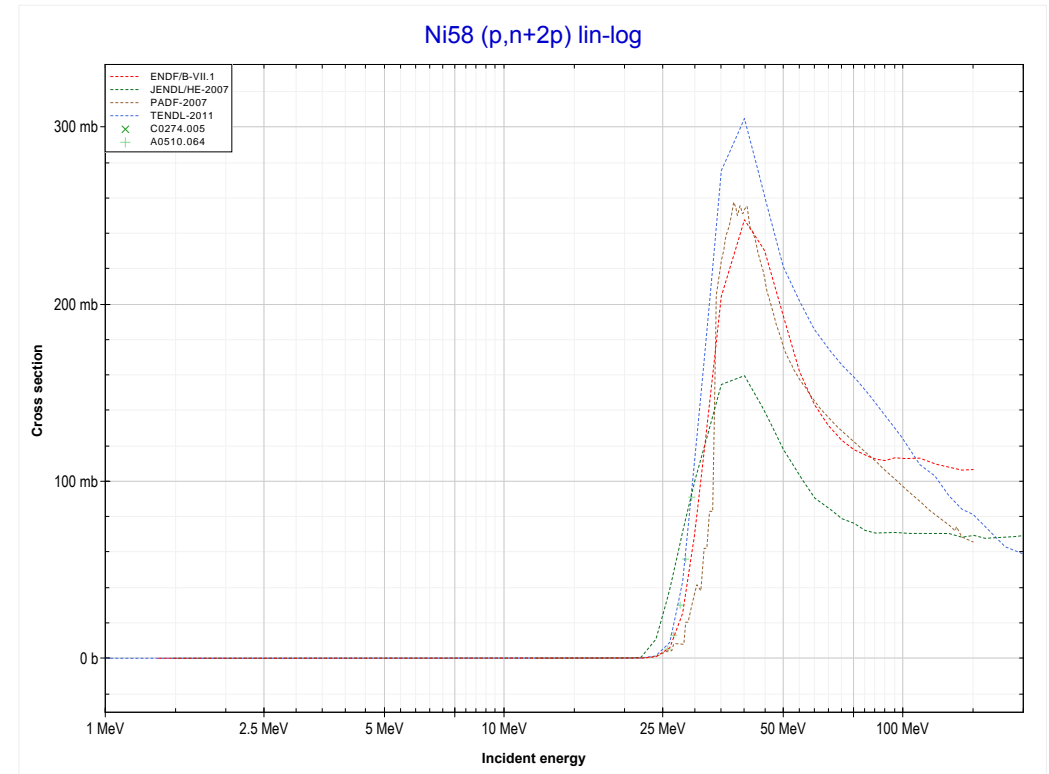
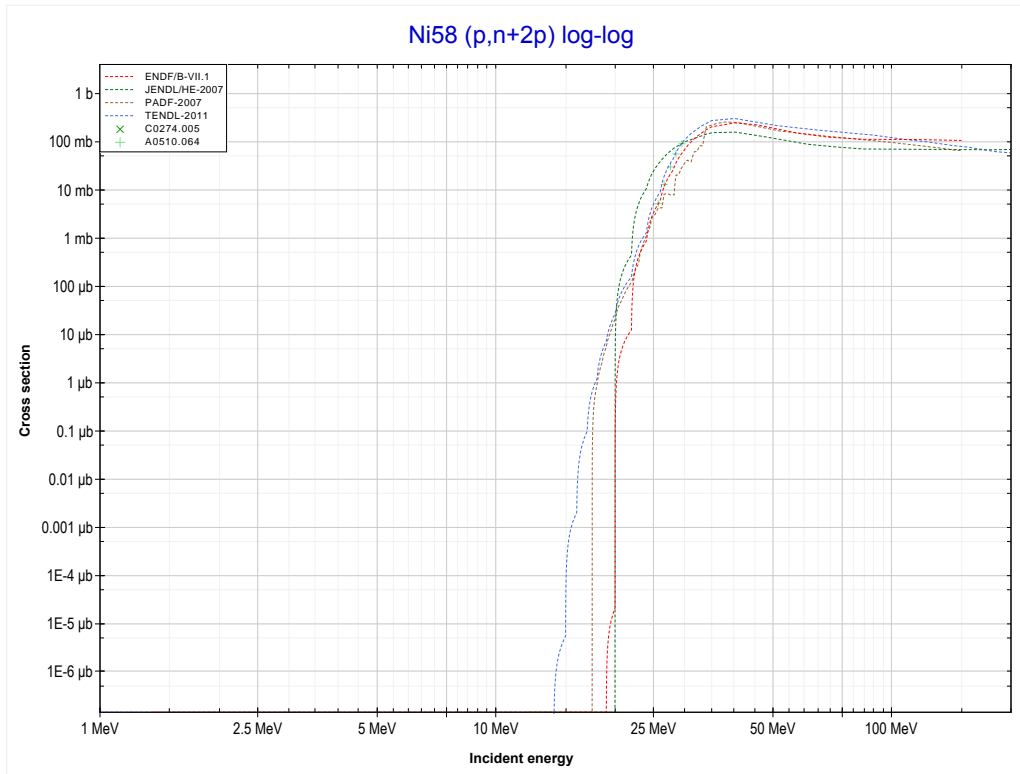
Reaction	Q-Value
Ni58(p,d)Ni57	-9992.45 keV
Ni58(p,n+p)Ni57	-12217.02 keV

<< 27-Co-59	<b>28-Ni-58</b>	29-Cu-63 >>
<< MT28 (p,n+p)	<b>MT41 (p,2n+p) or MT5 (Ni56 production)</b>	MT44 (p,n+2p) >>



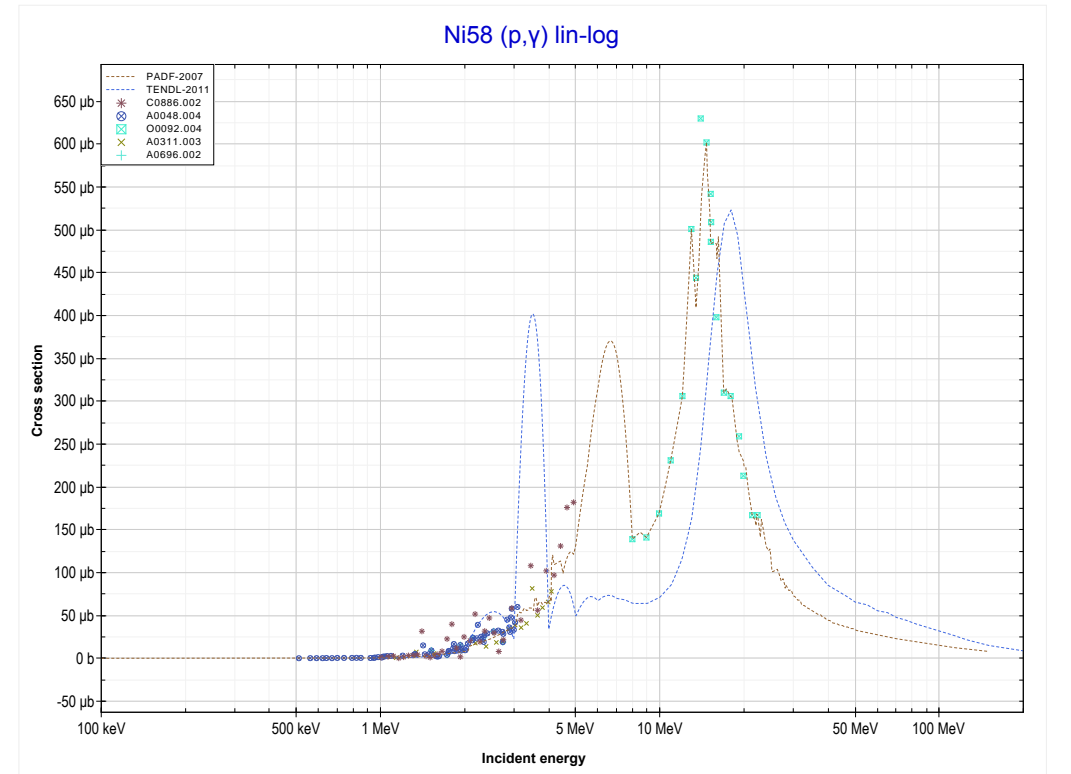
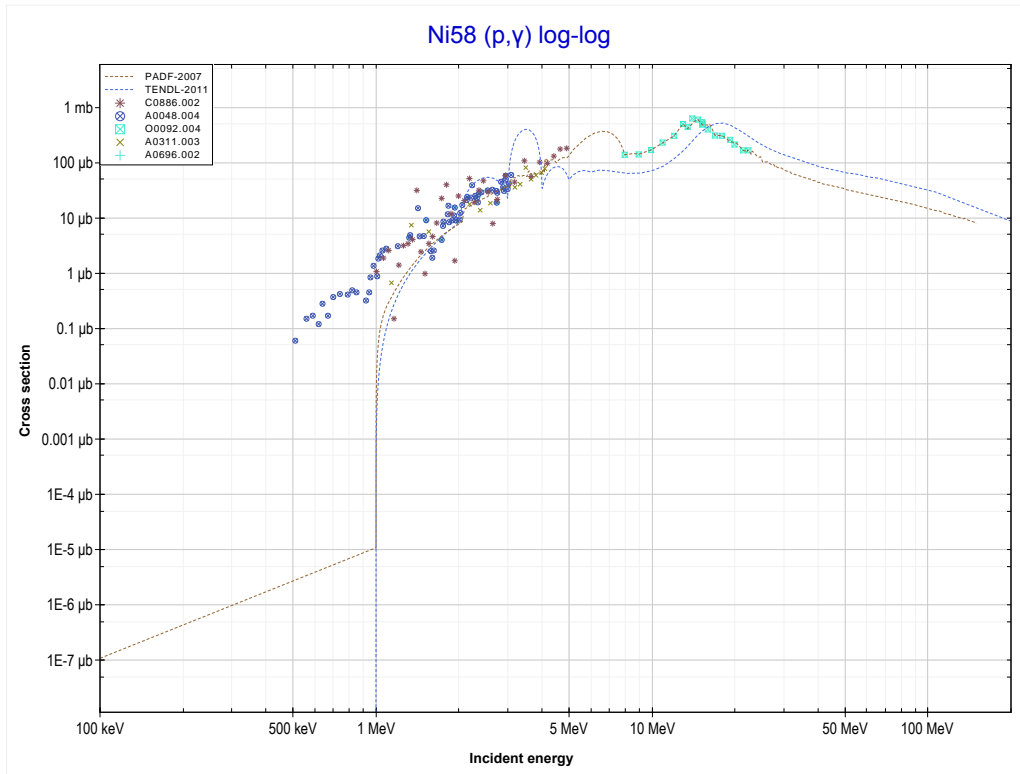
Reaction	Q-Value
Ni58(p,t)Ni56	-13984.54 keV
Ni58(p,n+d)Ni56	-20241.77 keV
Ni58(p,2n+p)Ni56	-22466.33 keV

<< 24-Cr-50	<b>28-Ni-58</b>	28-Ni-60 >>
<< MT41 (p,2n+p)	<b>MT44 (p,n+2p) or MT5 (Co56 production)</b>	MT102 (p, $\gamma$ ) >>



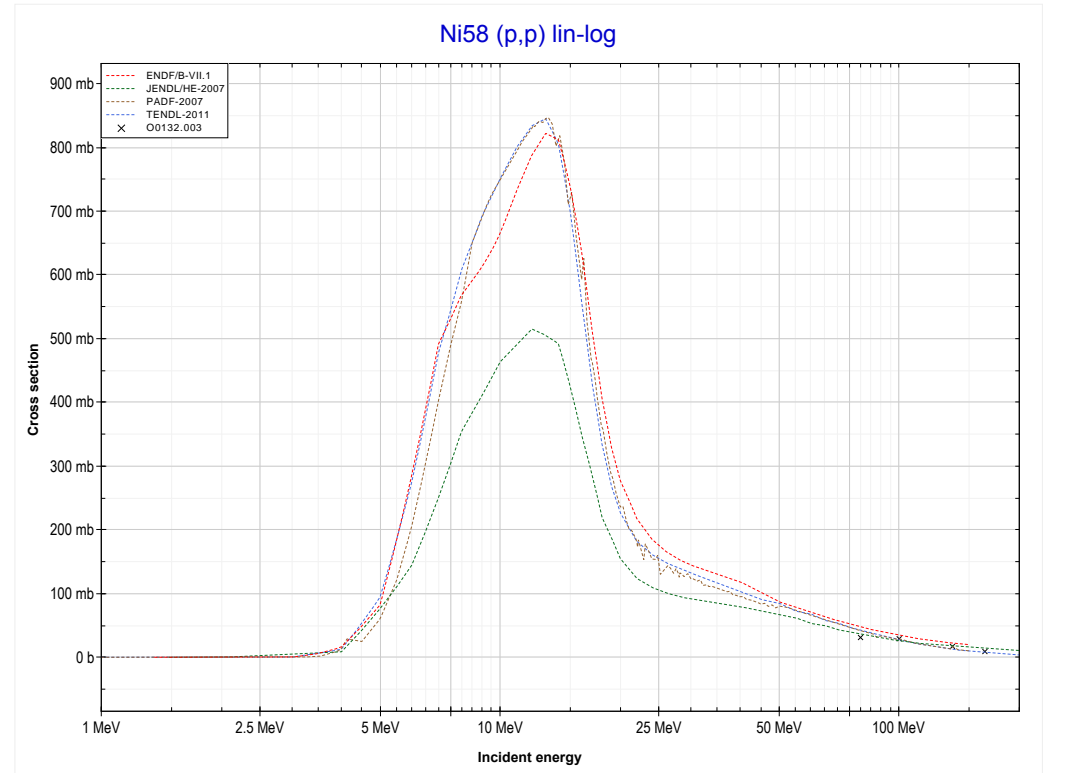
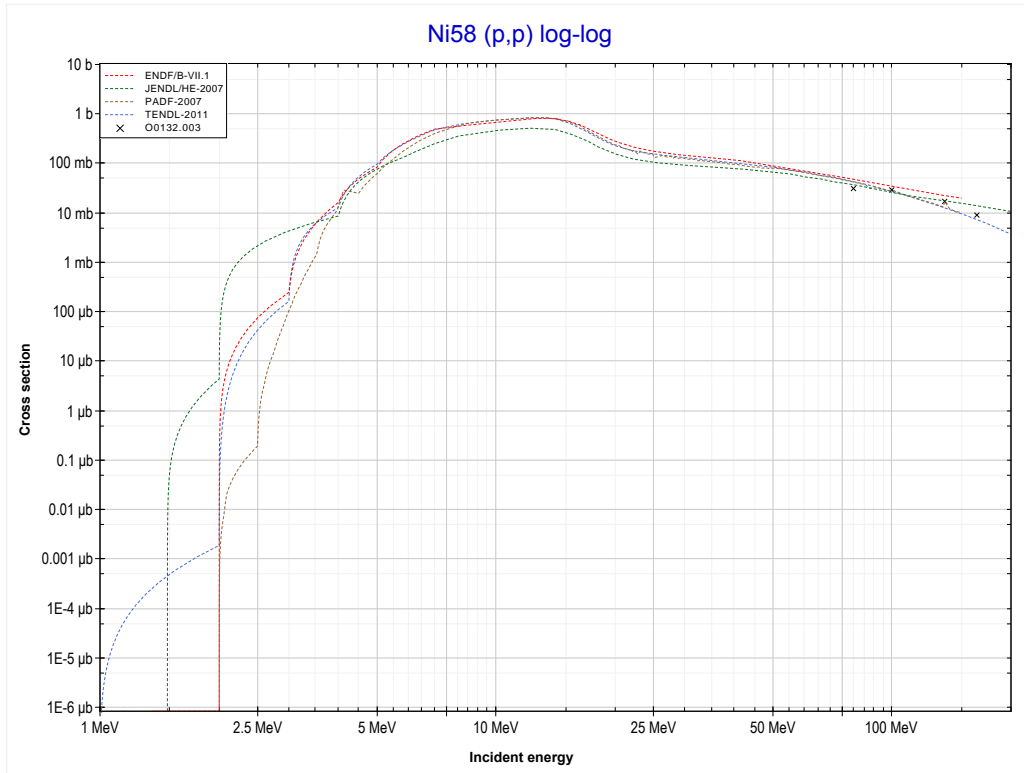
Reaction	Q-Value
Ni58(p,He3)Co56	-11830.54 keV
Ni58(p,p+d)Co56	-17324.02 keV
Ni58(p,n+2p)Co56	-19548.59 keV

<< 27-Co-59	<b>28-Ni-58</b>	28-Ni-60 >>
<< MT44 (p,n+2p)	<b>MT102 (p,<math>\gamma</math>) or MT5 (Cu59 production)</b>	MT103 (p,p) >>



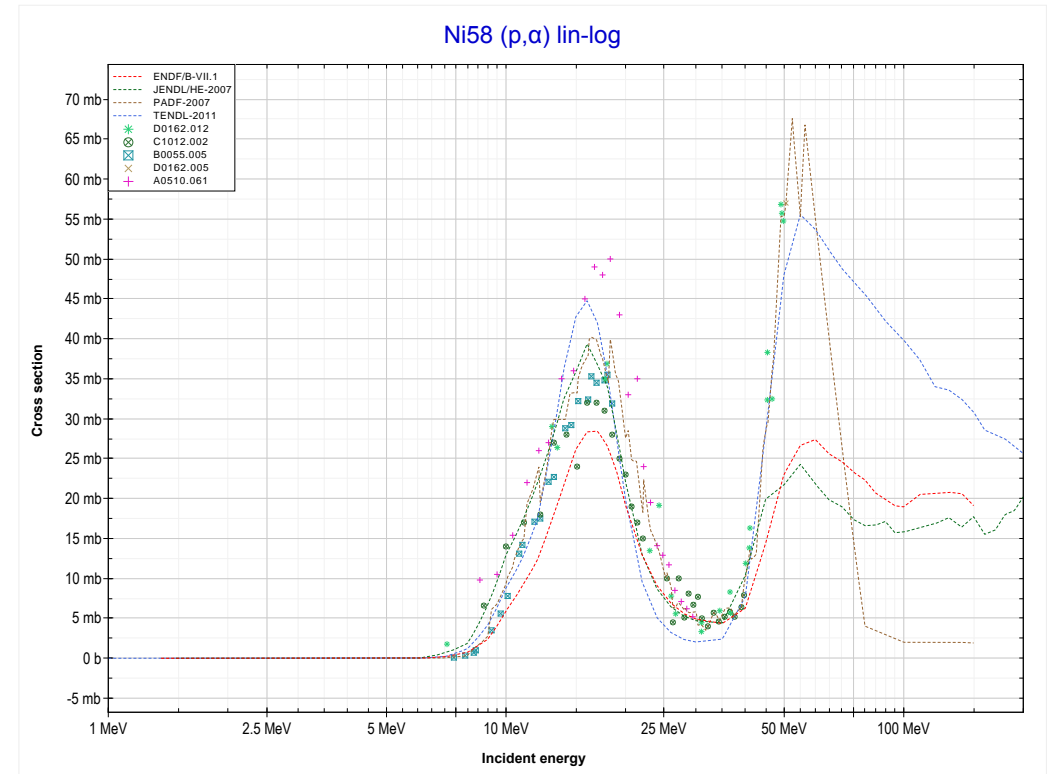
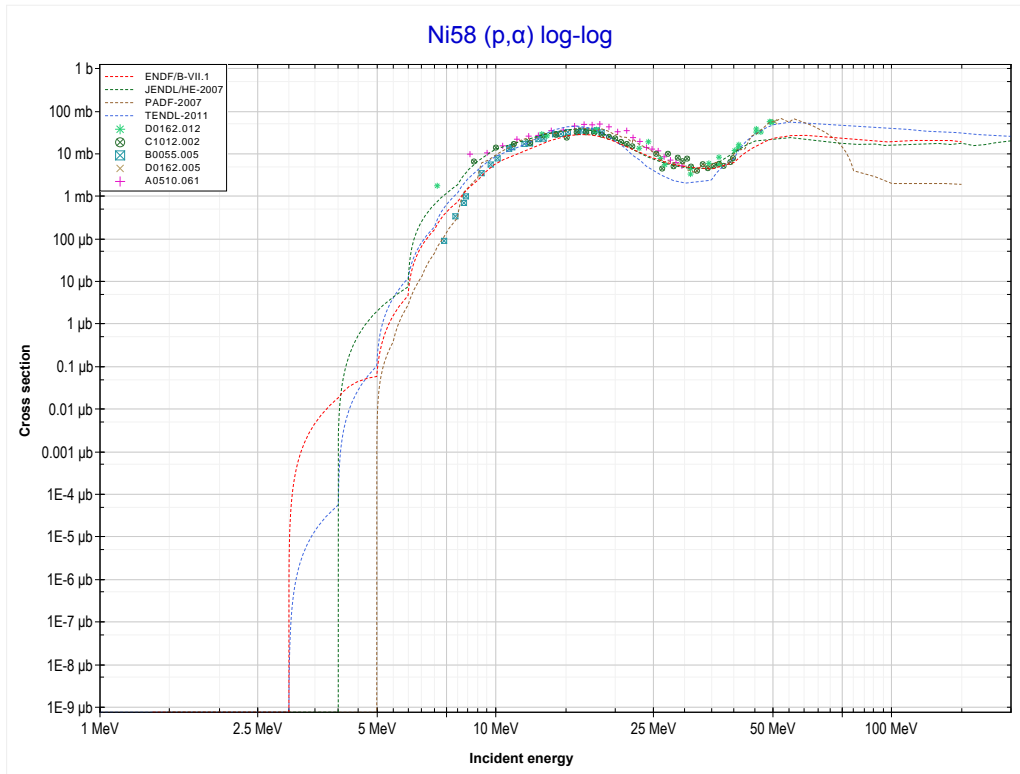
Reaction	Q-Value
Ni58(p, $\gamma$ )Cu59	3418.47 keV

<< 20-Ca-40	<b>28-Ni-58</b>	28-Ni-60 >>
<< MT102 (p, $\gamma$ )	<b>MT103 (p,p) or MT5 (Ni58 production)</b>	MT107 (p, $\alpha$ ) >>



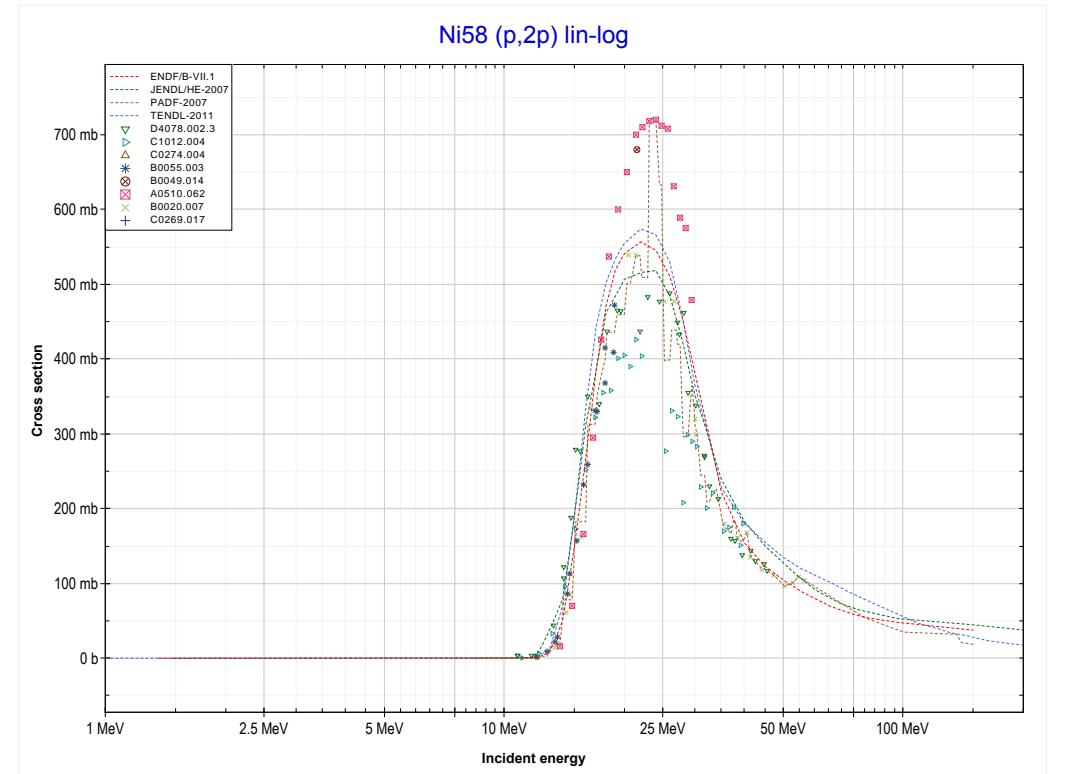
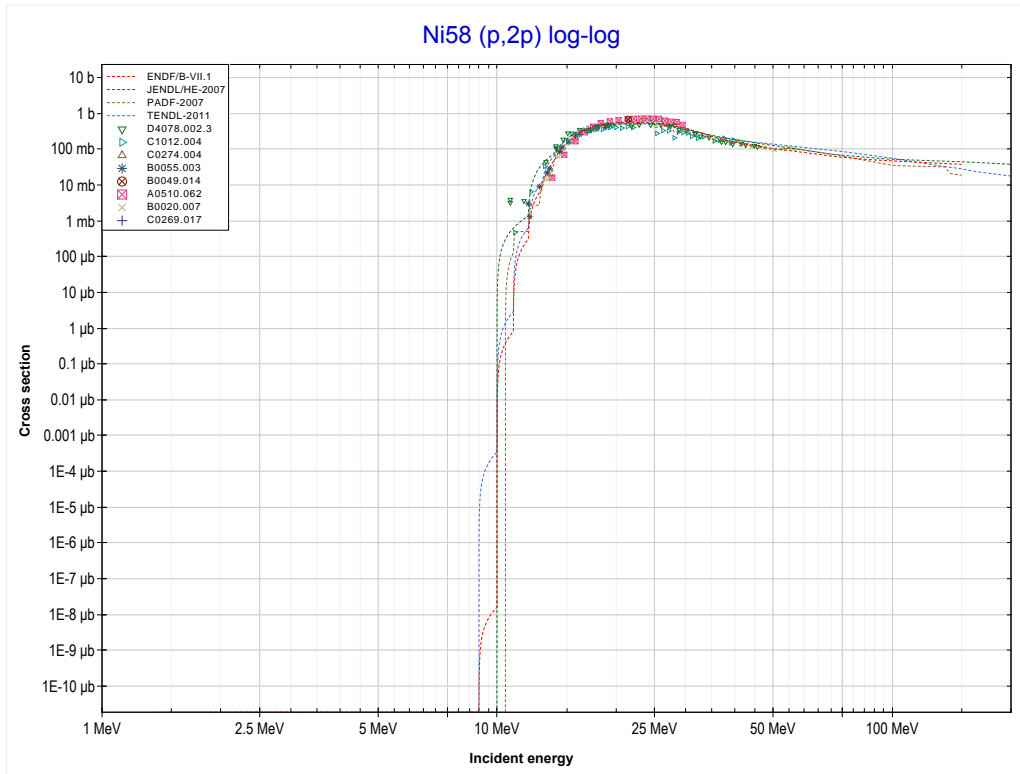
Reaction	Q-Value
Ni58(p,p)Ni58	0.00 keV

<< 26-Fe-57	<b>28-Ni-58</b>	28-Ni-60 >>
<< MT103 (p,p)	<b>MT107 (p,<math>\alpha</math>) or MT5 (Co55 production)</b>	MT111 (p,2p) >>



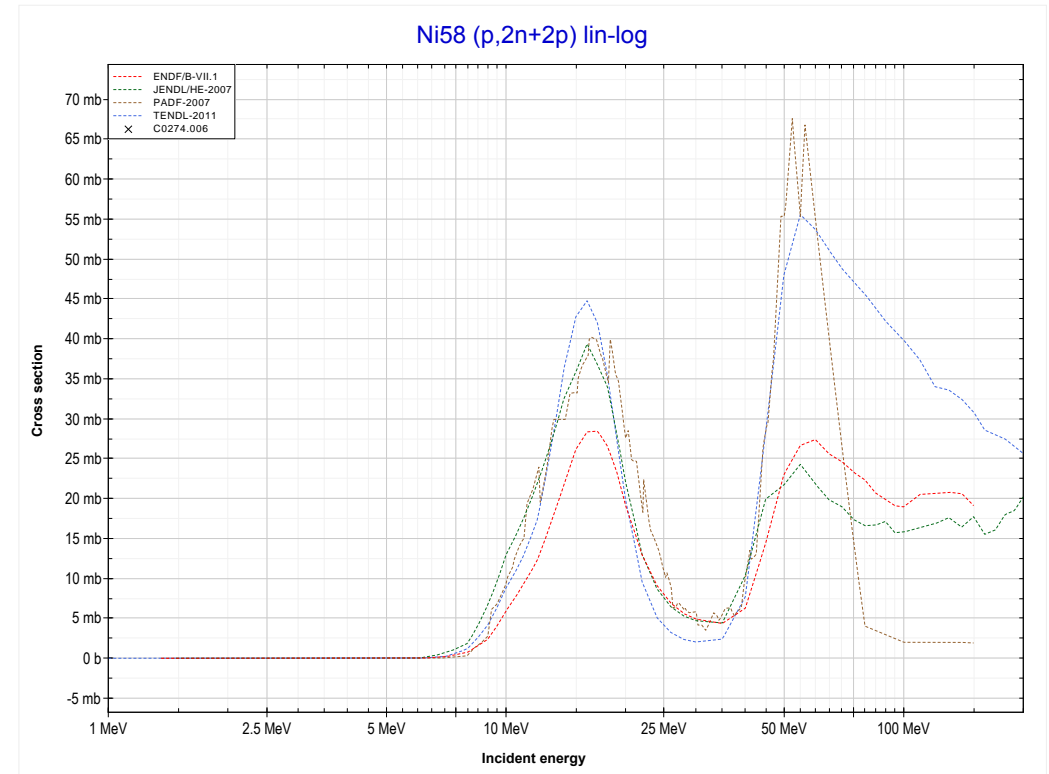
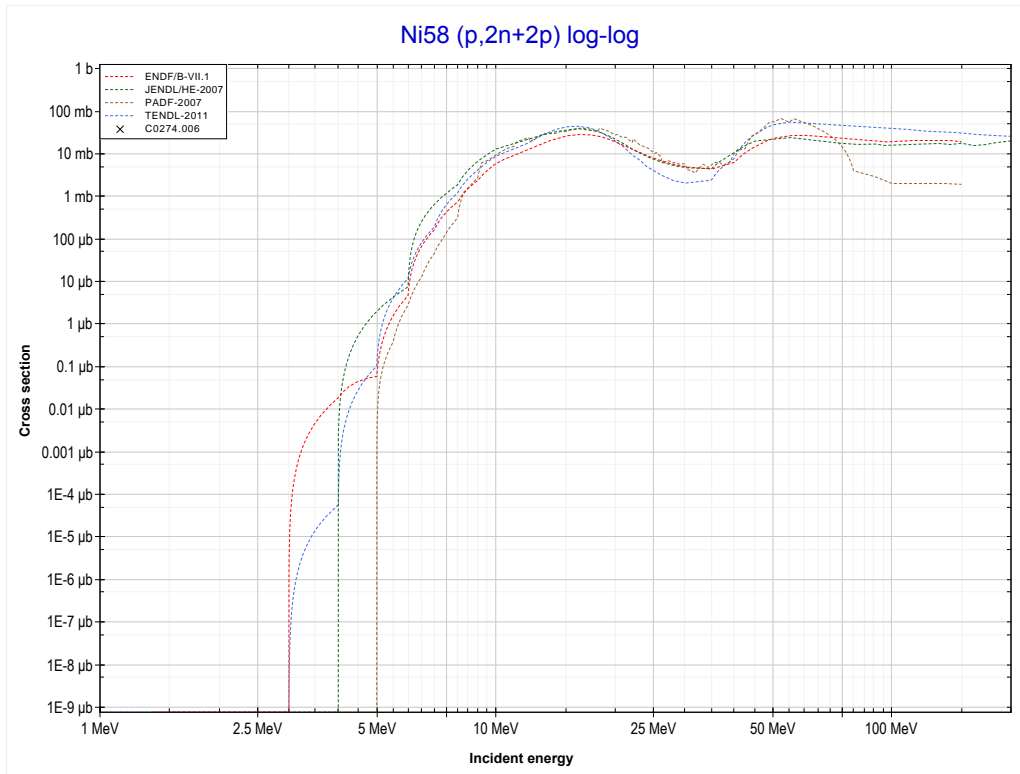
Reaction	Q-Value
Ni58(p, $\alpha$ )Co55	-1336.05 keV
Ni58(p,p+t)Co55	-21149.91 keV
Ni58(p,n+He3)Co55	-21913.66 keV
Ni58(p,2d)Co55	-25182.57 keV
Ni58(p,n+p+d)Co55	-27407.14 keV
Ni58(p,2n+2p)Co55	-29631.70 keV

<< 26-Fe-57	<b>28-Ni-58</b>	28-Ni-62 >>
<< MT107 (p, $\alpha$ )	<b>MT111 (p,2p) or MT5 (Co57 production)</b>	MT190 (p,2n+2p) >>



Reaction	Q-Value
Ni58(p,2p)Co57	-8172.47 keV

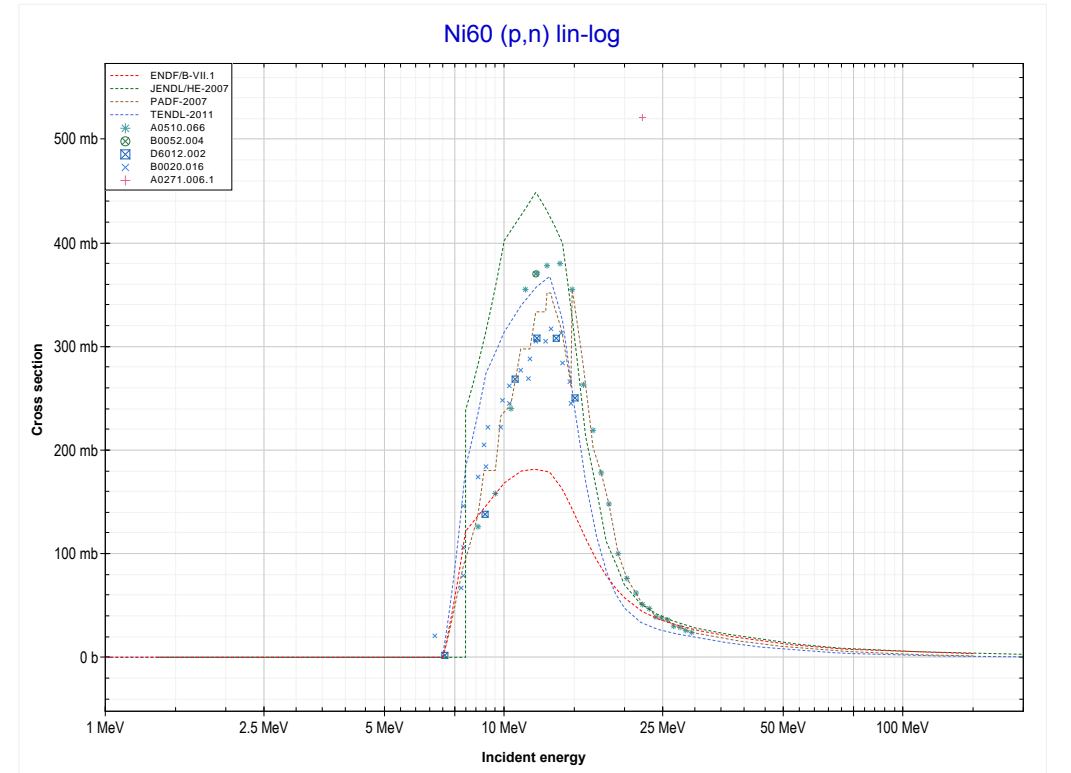
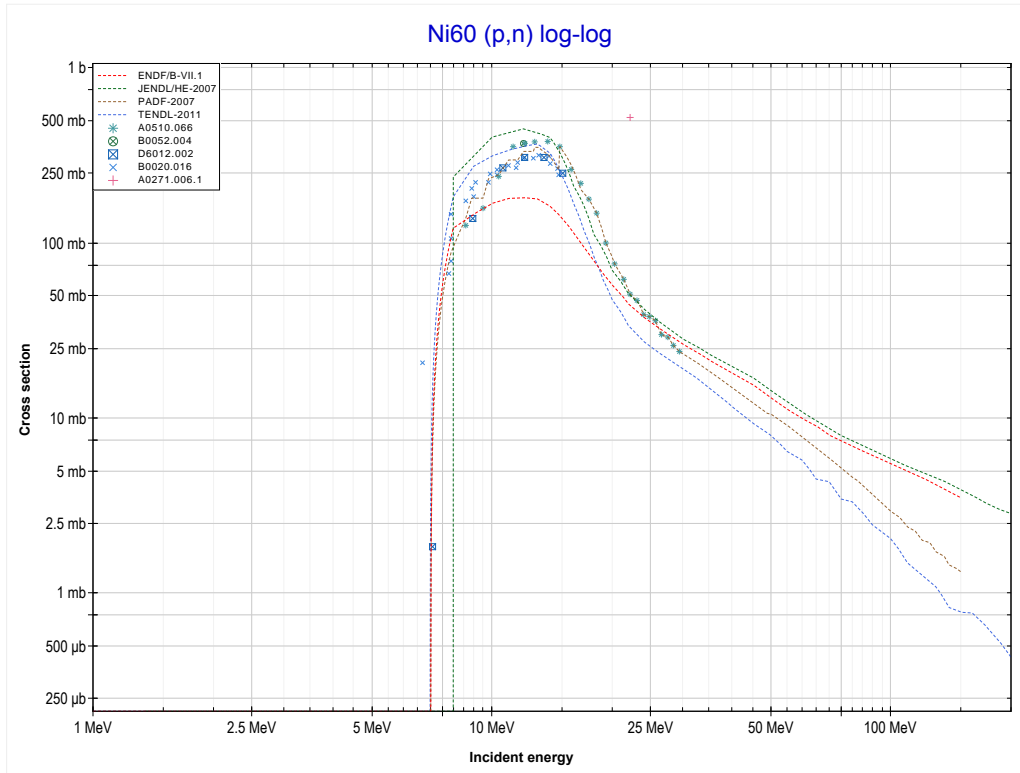
<< 24-Cr-50	<b>28-Ni-58</b>	30-Zn-64 >>
<< MT111 (p,2p)	<b>MT190 (p,2n+2p) or MT5 (Co55 production)</b>	MT4 (p,n) >>



Reaction	Q-Value
Ni58(p,α)Co55	-1336.05 keV
Ni58(p,p+t)Co55	-21149.91 keV
Ni58(p,n+He3)Co55	-21913.66 keV
Ni58(p,2d)Co55	-25182.57 keV
Ni58(p,n+p+d)Co55	-27407.14 keV
Ni58(p,2n+2p)Co55	-29631.70 keV

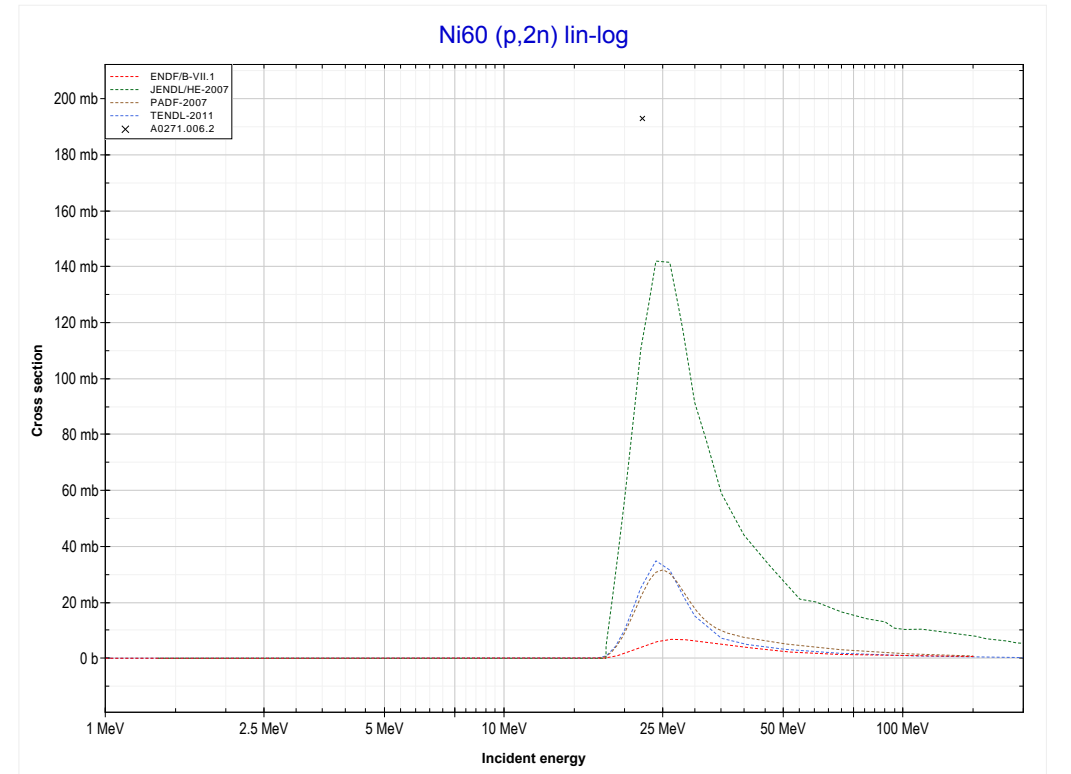
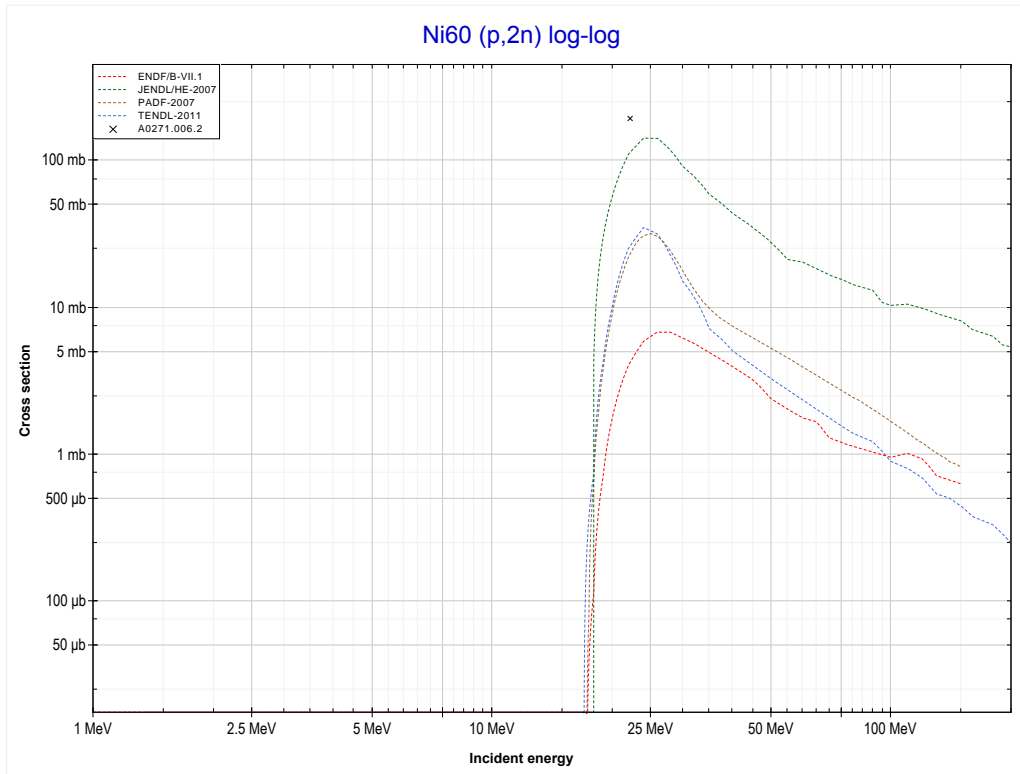


<< 28-Ni-58	<b>28-Ni-60</b>	28-Ni-61 >>
<< MT190 (p,2n+2p)	<b>MT4 (p,n) or MT5 (Cu60 production)</b>	MT16 (p,2n) >>



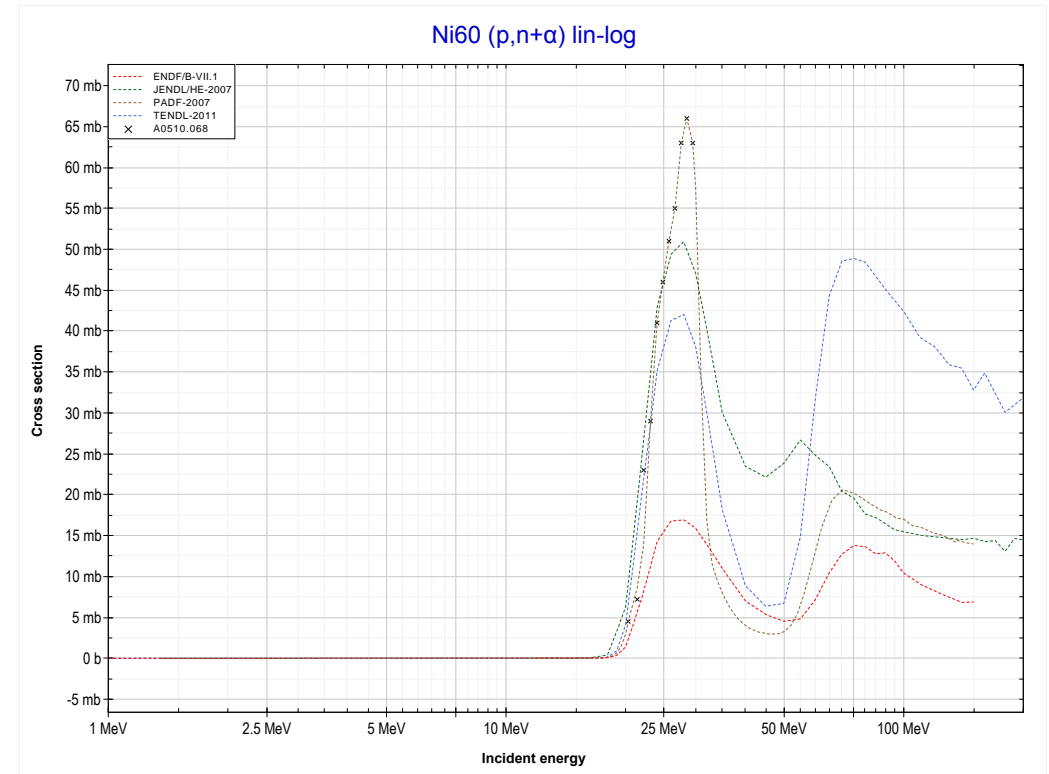
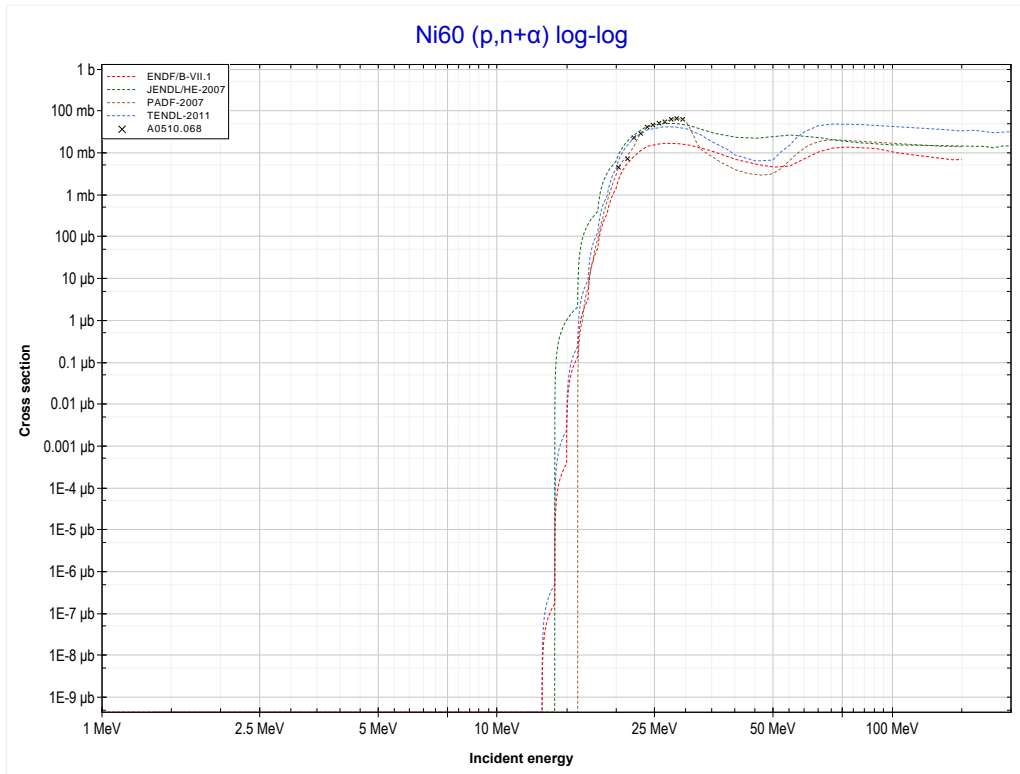
Reaction	Q-Value
Ni60(p,n)Cu60	-6910.35 keV

<< 26-Fe-58	<b>28-Ni-60</b>	28-Ni-61 >>
<< MT4 (p,n)	<b>MT16 (p,2n) or MT5 (Cu59 production)</b>	MT22 (p,n+α) >>



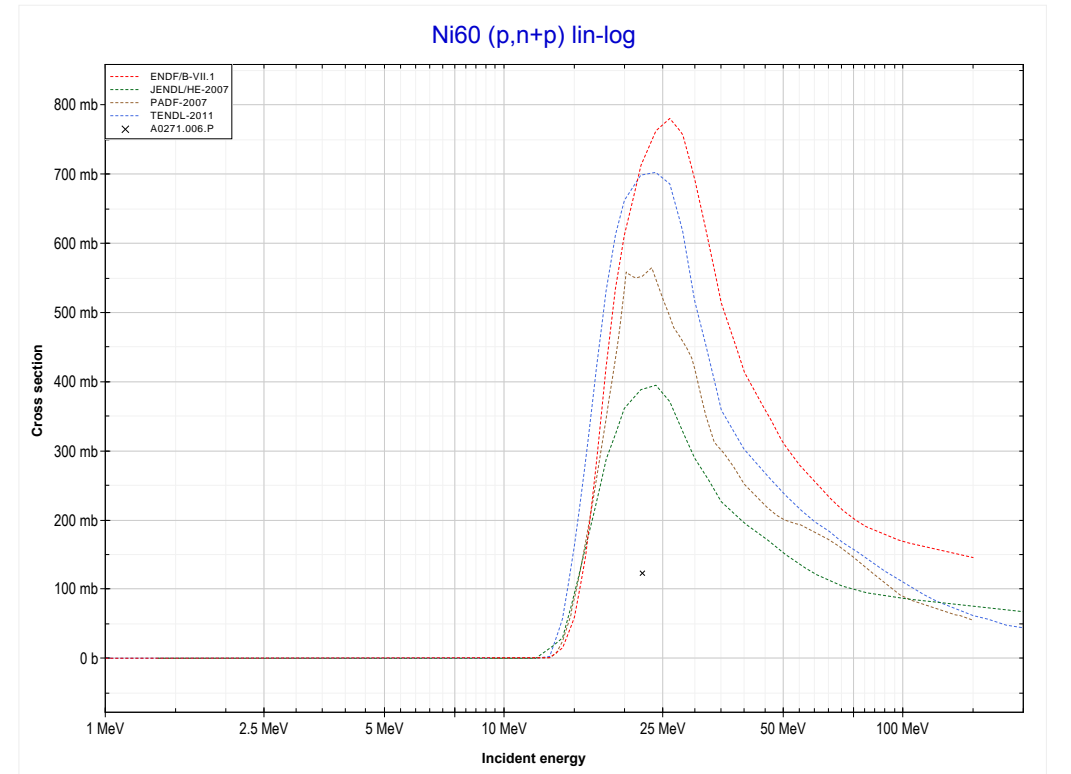
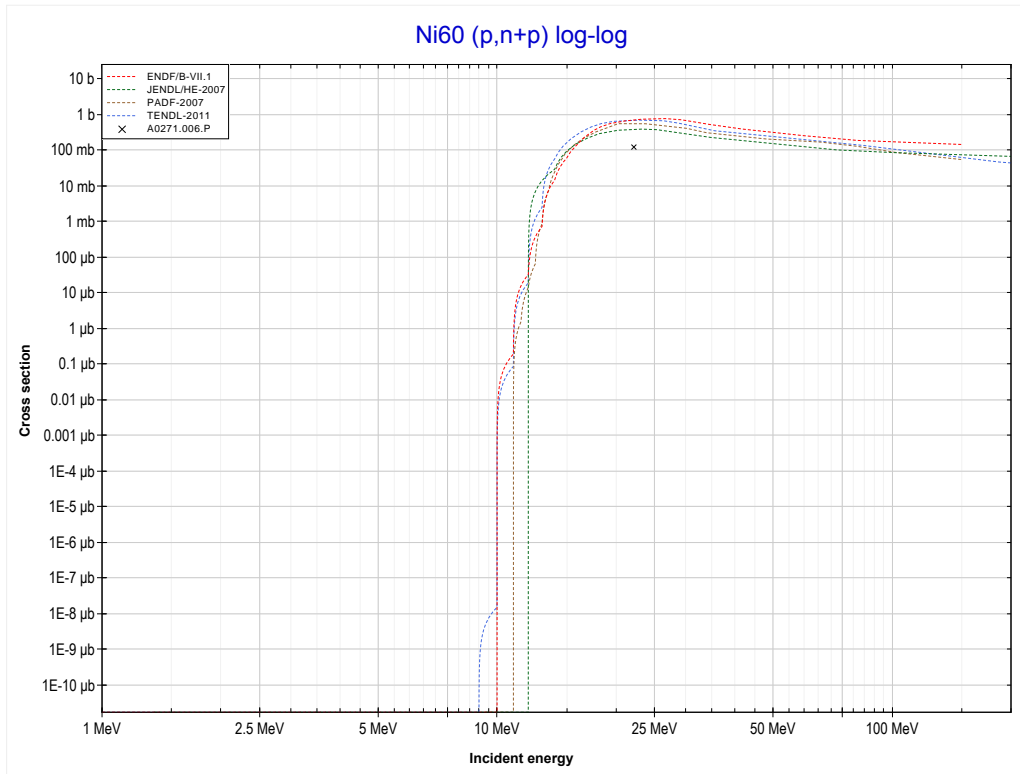
Reaction	Q-Value
Ni60(p,2n)Cu59	-16968.56 keV

<< 26-Fe-58	<b>28-Ni-60</b>	28-Ni-62 >>
<< MT16 (p,2n)	<b>MT22 (p,n+α) or MT5 (Co56 production)</b>	MT28 (p,n+p) >>



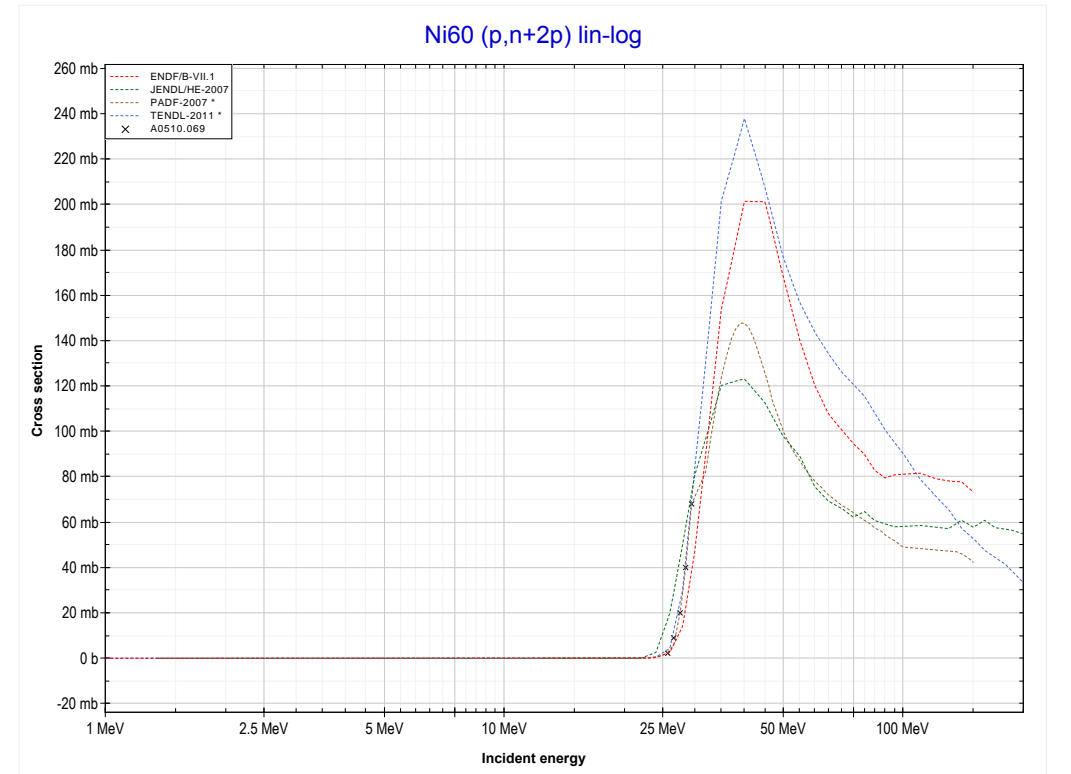
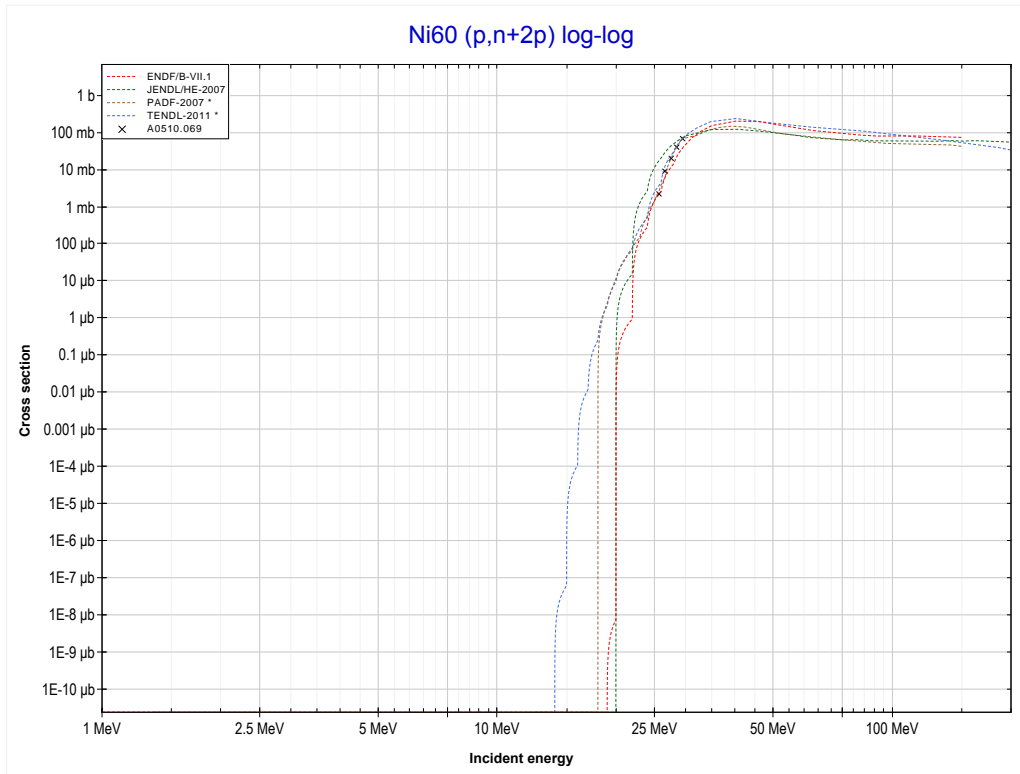
Reaction	Q-Value
Ni60(p,n+α)Co56	-11639.96 keV
Ni60(p,d+t)Co56	-29229.26 keV
Ni60(p,n+p+t)Co56	-31453.82 keV
Ni60(p,2n+He3)Co56	-32217.58 keV
Ni60(p,n+2d)Co56	-35486.49 keV
Ni60(p,2n+p+d)Co56	-37711.06 keV
Ni60(p,3n+2p)Co56	-39935.62 keV

<< 28-Ni-58	<b>28-Ni-60</b>	29-Cu-65 >>
<< MT22 (p,n+α)	<b>MT28 (p,n+p) or MT5 (Ni59 production)</b>	MT44 (p,n+2p) >>



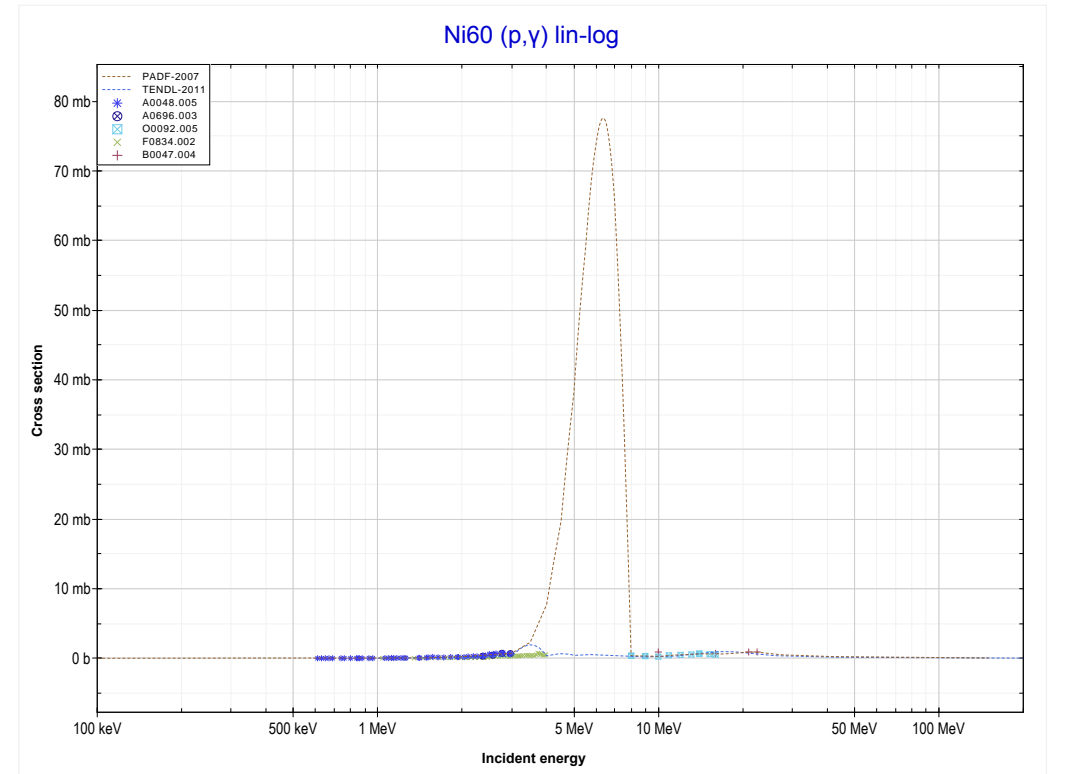
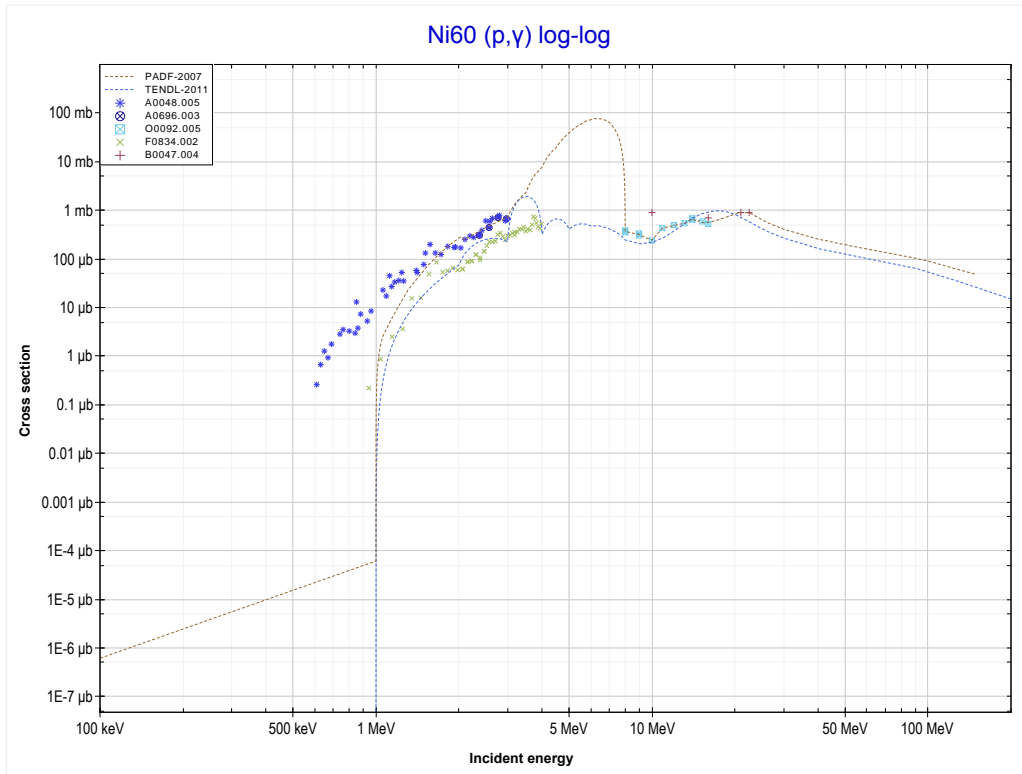
Reaction	Q-Value
Ni60(p,d)Ni59	-9163.15 keV
Ni60(p,n+p)Ni59	-11387.72 keV

<< 28-Ni-58	<b>28-Ni-60</b>	30-Zn-64 >>
<< MT28 (p,n+p)	<b>MT44 (p,n+2p) or MT5 (Co58 production)</b>	MT102 (p, $\gamma$ ) >>



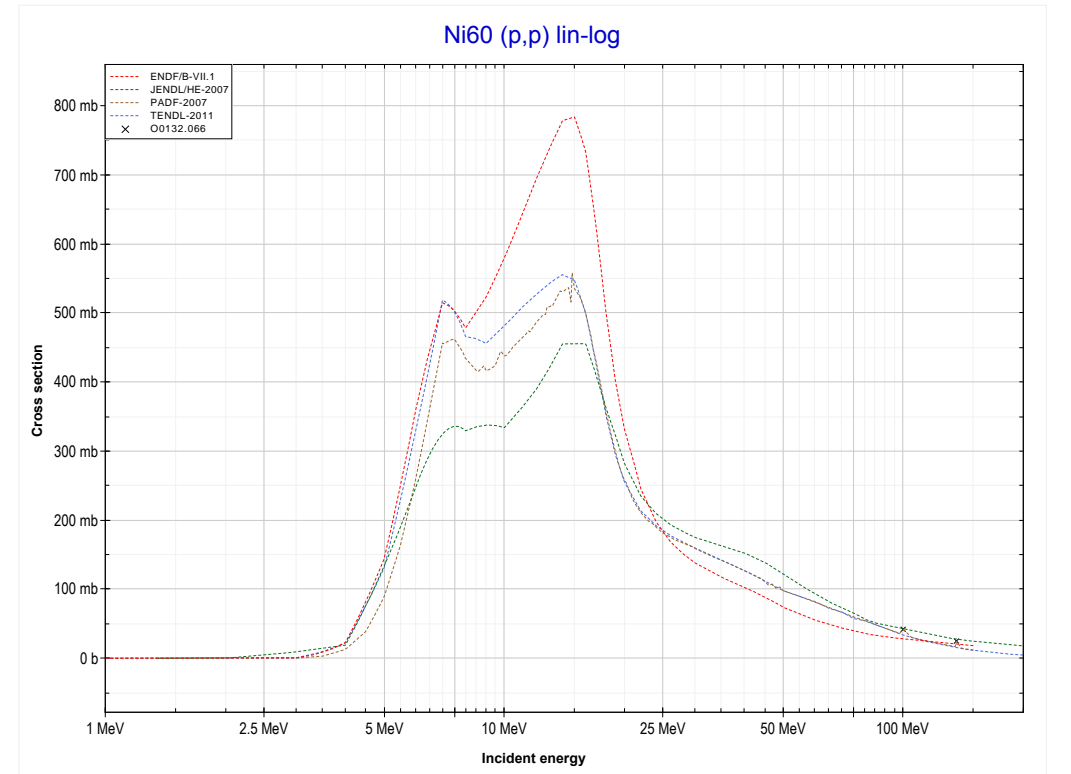
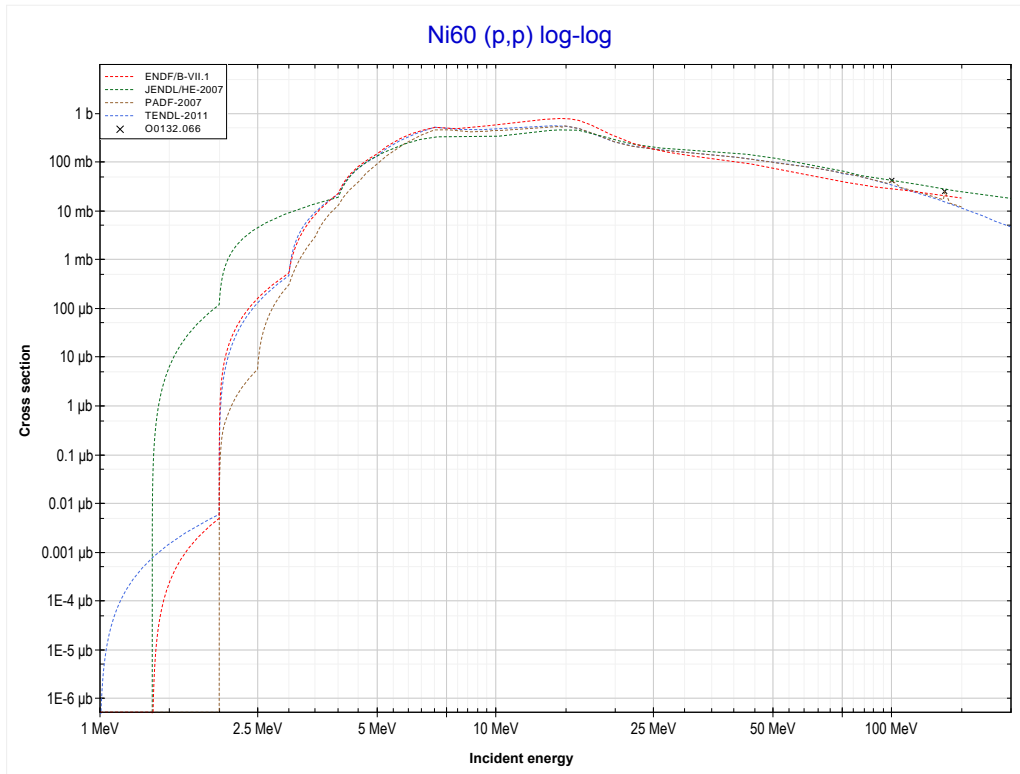
Reaction	Q-Value
Ni60(p,He3)Co58	-12268.44 keV
Ni60(p,p+d)Co58	-17761.92 keV
Ni60(p,n+2p)Co58	-19986.49 keV

<< 28-Ni-58	<b>28-Ni-60</b>	28-Ni-61 >>
<< MT44 (p,n+2p)	<b>MT102 (p,<math>\gamma</math>) or MT5 (Cu61 production)</b>	MT103 (p,p) >>



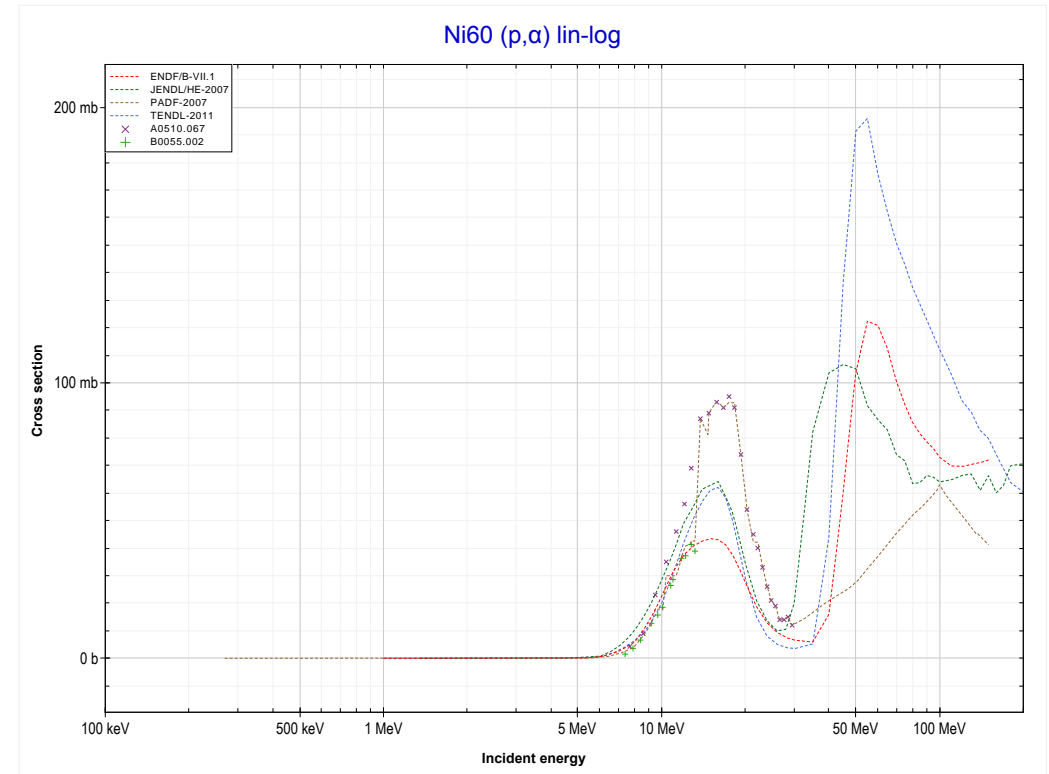
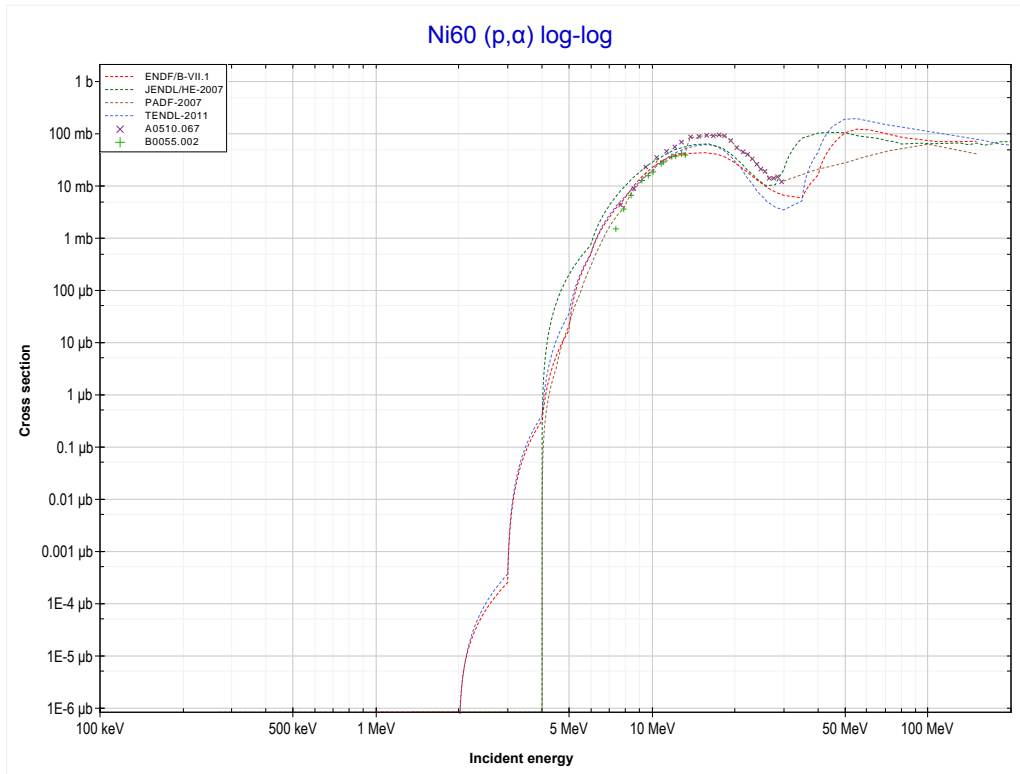
Reaction	Q-Value
Ni60(p, $\gamma$ )Cu61	4800.47 keV

<< 28-Ni-58	<b>28-Ni-60</b>	28-Ni-62 >>
<< MT102 (p, $\gamma$ )	<b>MT103 (p,p) or MT5 (Ni60 production)</b>	MT107 (p, $\alpha$ ) >>



Reaction	Q-Value
Ni60(p,p)Ni60	0.00 keV

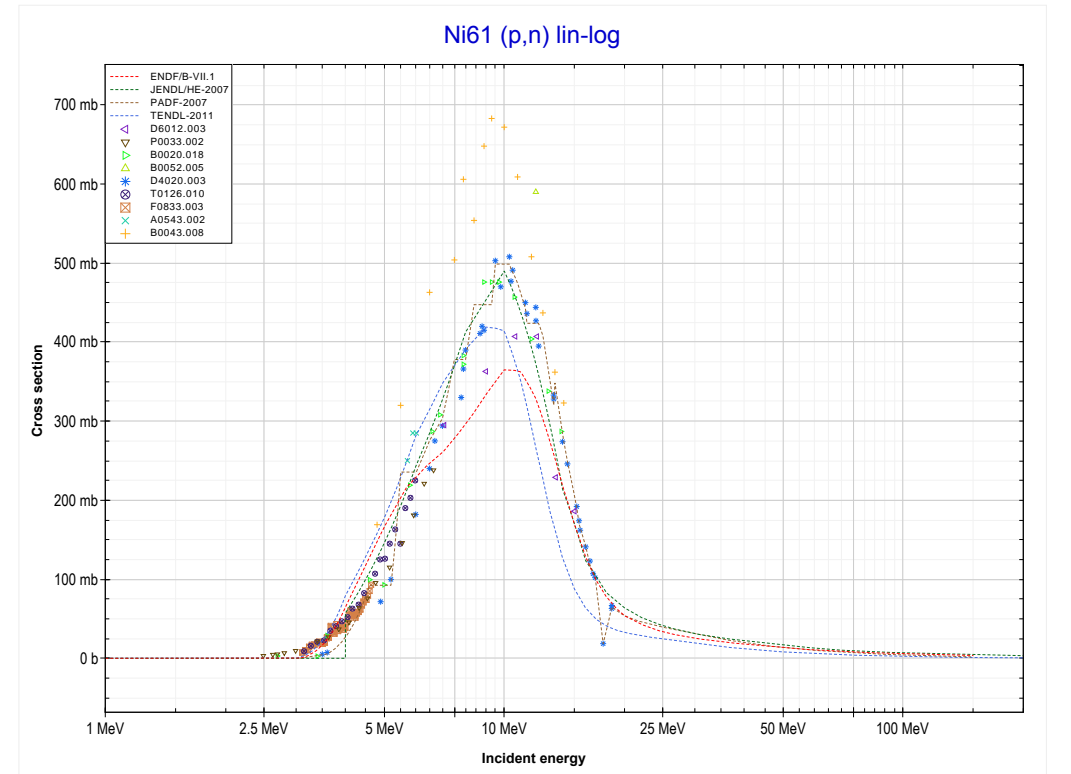
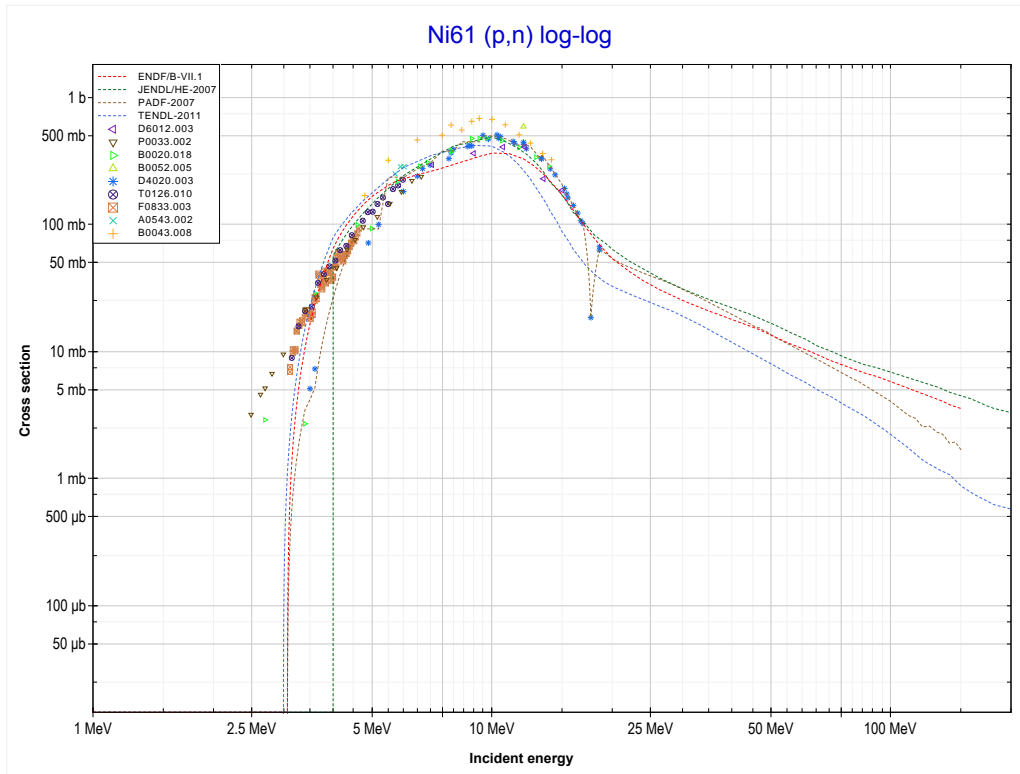
<< 28-Ni-58	<b>28-Ni-60</b>	28-Ni-61 >>
<< MT103 (p,p)	<b>MT107 (p,<math>\alpha</math>) or MT5 (Co57 production)</b>	MT4 (p,n) >>



Reaction	Q-Value
Ni60(p, $\alpha$ )Co57	-263.85 keV
Ni60(p,p+t)Co57	-20077.71 keV
Ni60(p,n+He3)Co57	-20841.46 keV
Ni60(p,2d)Co57	-24110.37 keV
Ni60(p,n+p+d)Co57	-26334.94 keV
Ni60(p,2n+2p)Co57	-28559.50 keV

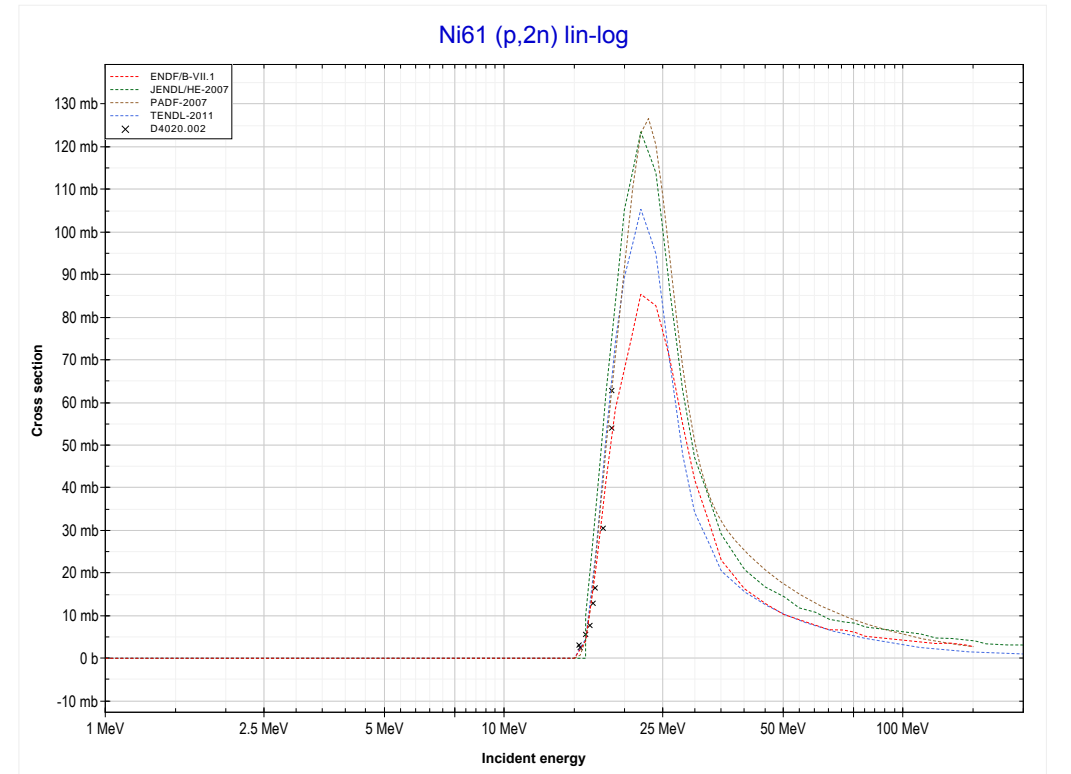
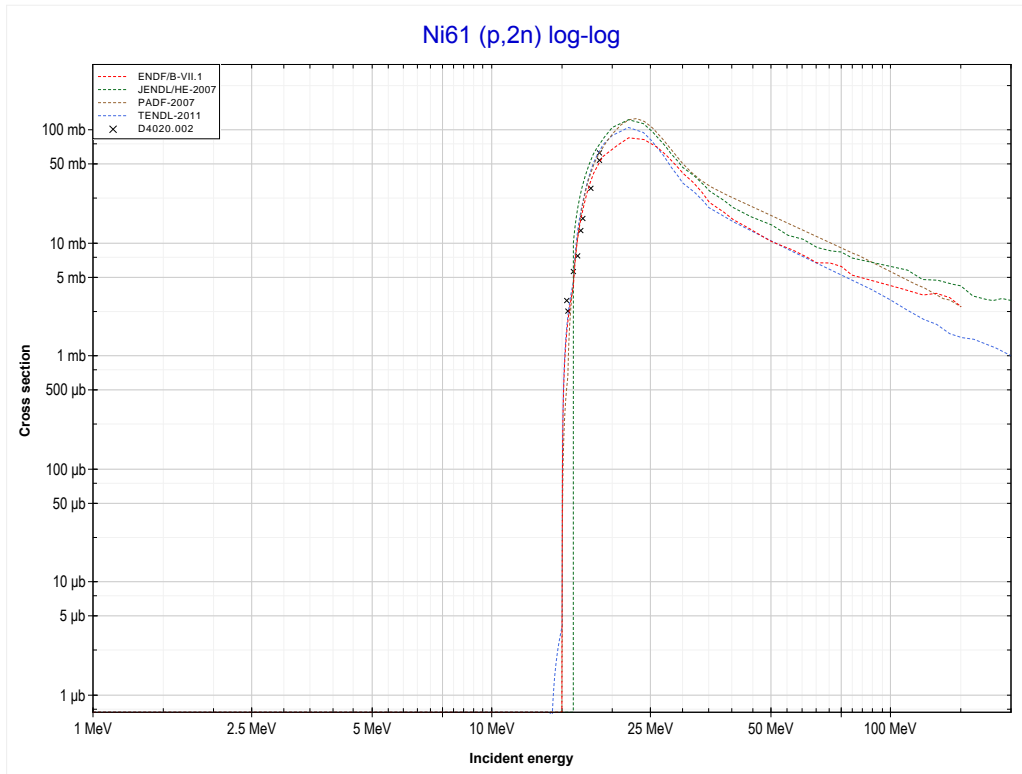


<< 28-Ni-60	<b>28-Ni-61</b>	28-Ni-62 >>
<< MT107 (p, $\alpha$ )	<b>MT4 (p,n) or MT5 (Cu61 production)</b>	MT16 (p,2n) >>



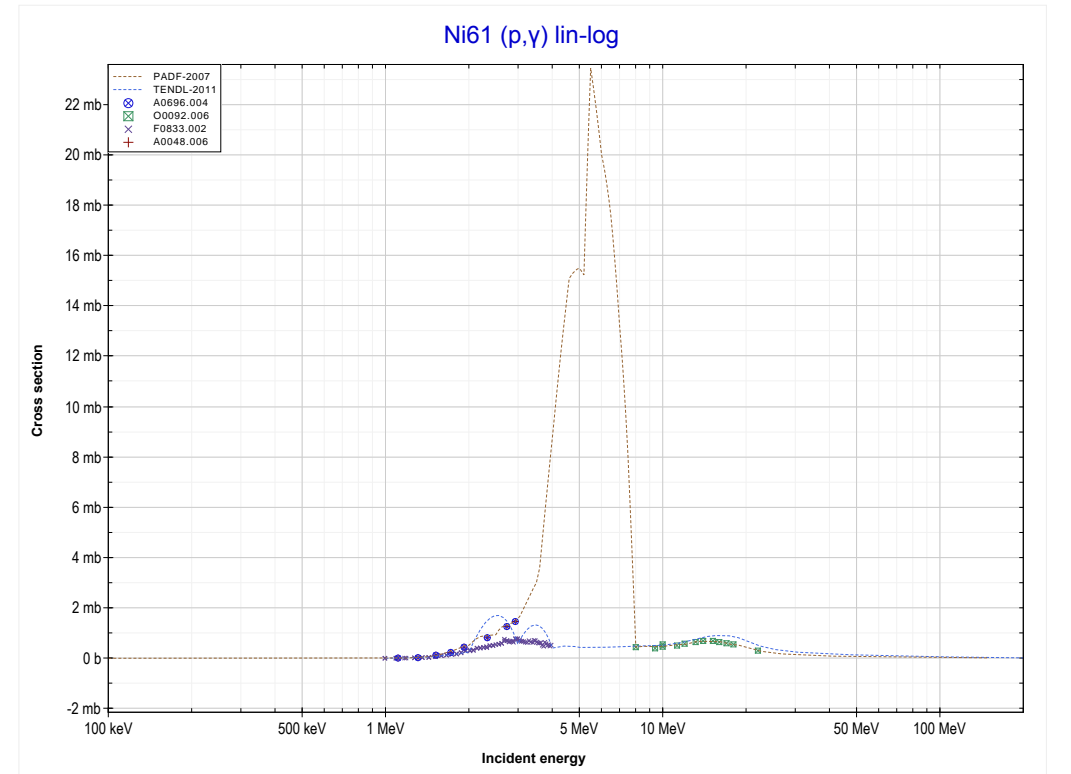
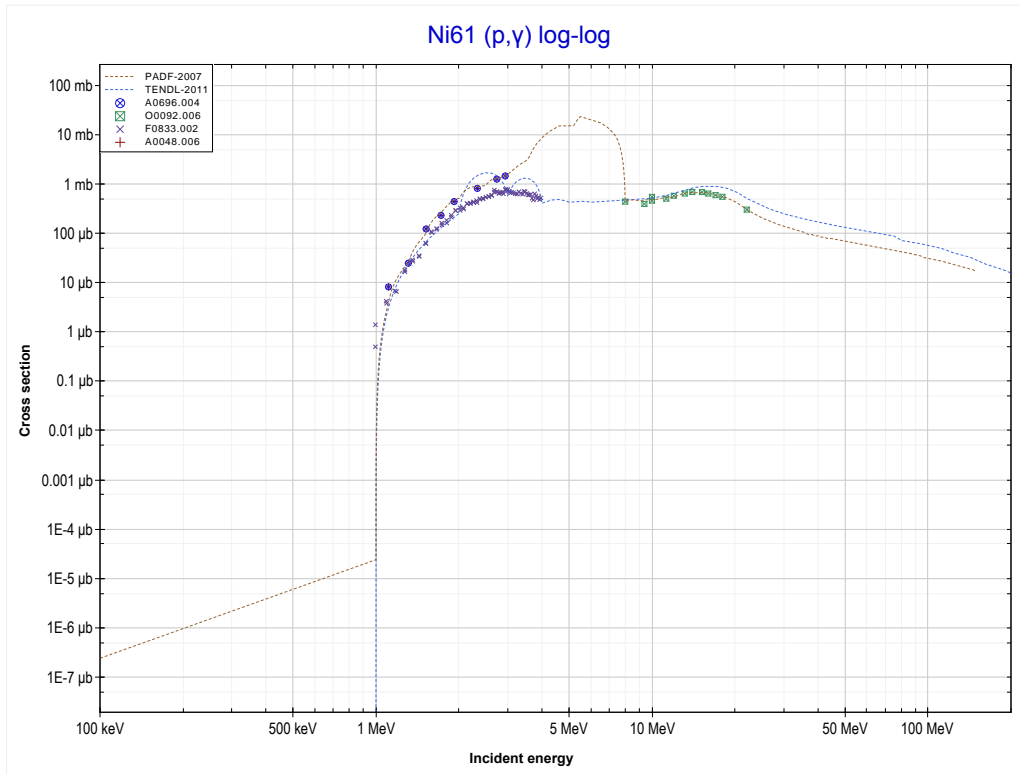
Reaction	Q-Value
Ni61(p,n)Cu61	-3019.65 keV

<< 28-Ni-60	<b>28-Ni-61</b>	28-Ni-62 >>
<< MT4 (p,n)	<b>MT16 (p,2n) or MT5 (Cu60 production)</b>	MT102 (p, $\gamma$ ) >>



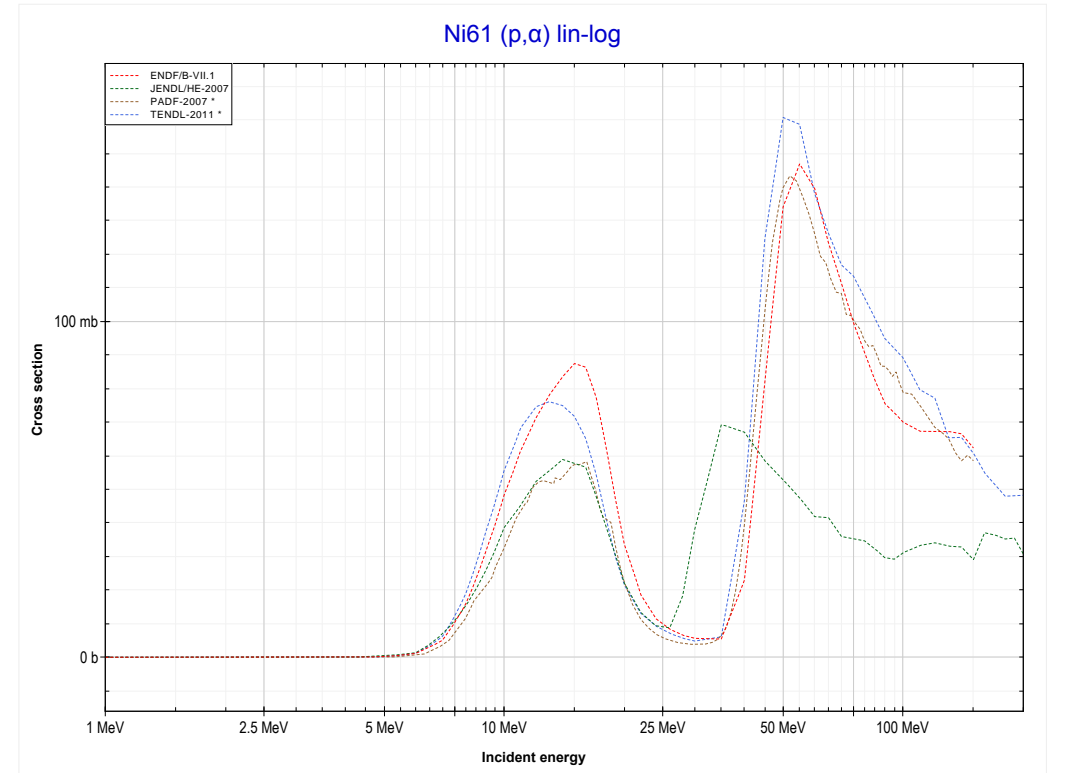
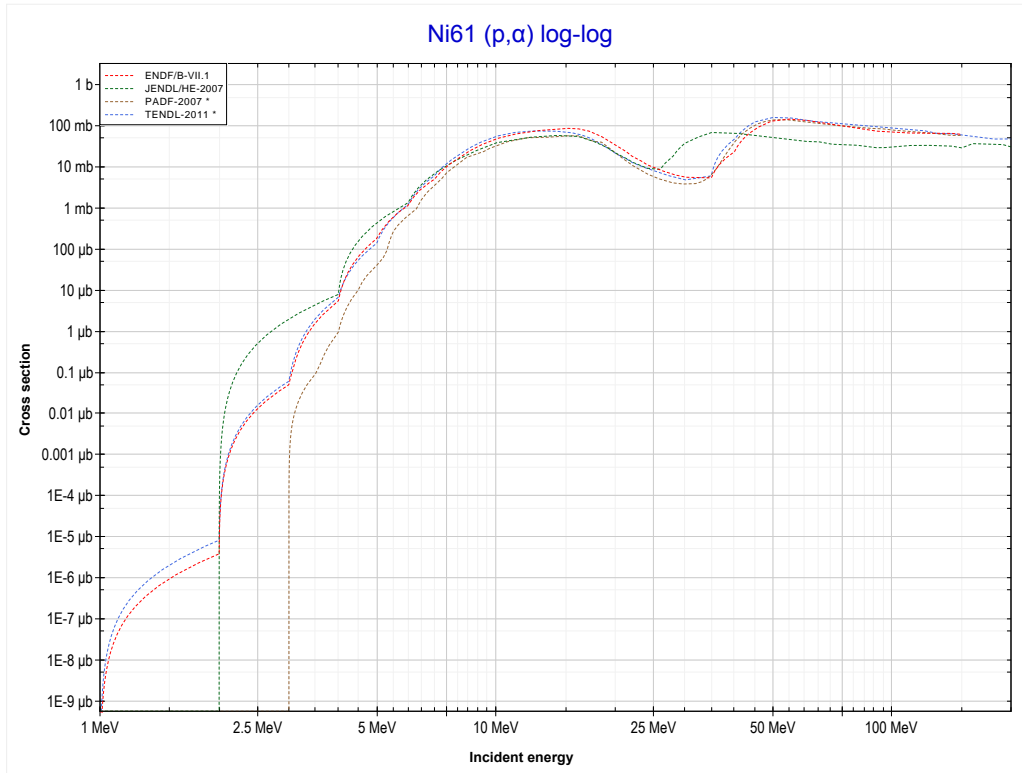
Reaction	Q-Value
Ni61(p,2n)Cu60	-14730.46 keV

<< 28-Ni-60	<b>28-Ni-61</b>	28-Ni-62 >>
<< MT16 (p,2n)	<b>MT102 (p,<math>\gamma</math>) or MT5 (Cu62 production)</b>	MT107 (p, $\alpha$ ) >>



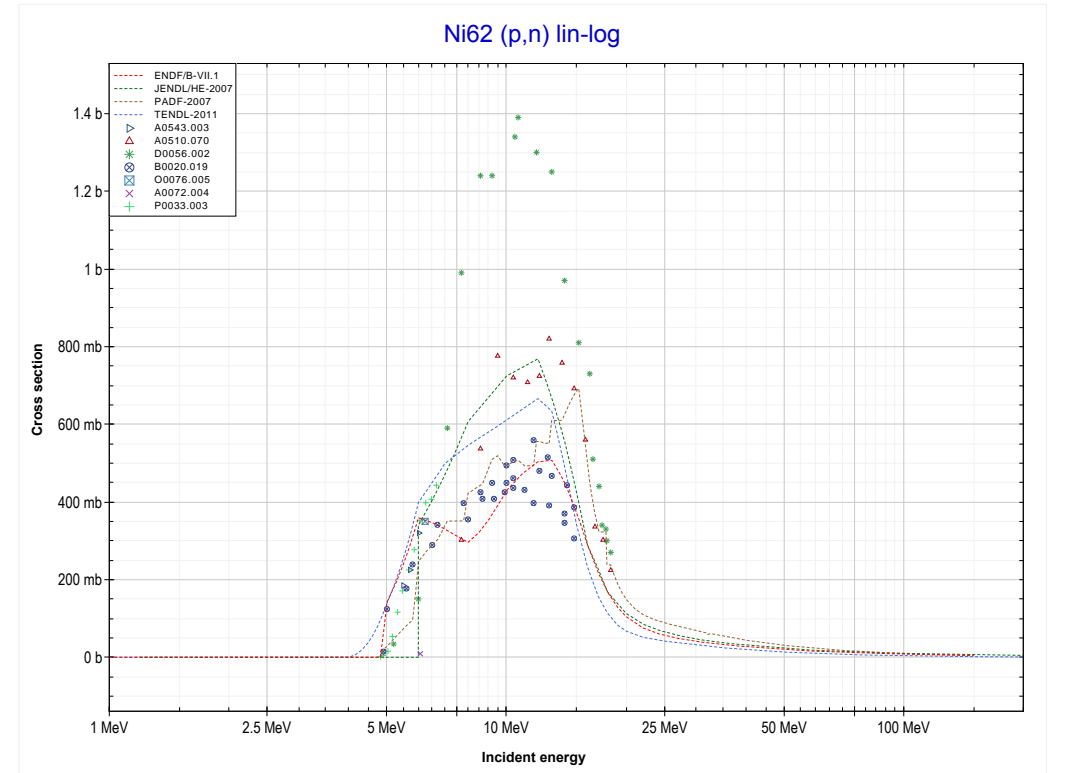
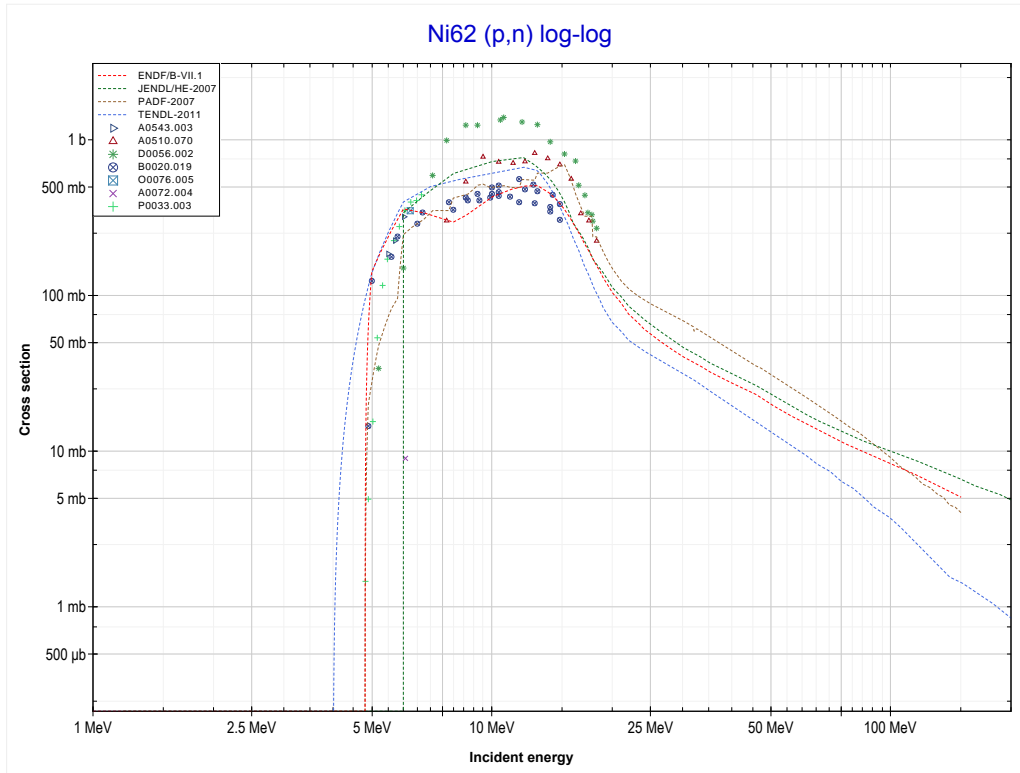
Reaction	Q-Value
Ni61(p, $\gamma$ )Cu62	5866.07 keV

<< 28-Ni-60	<b>28-Ni-61</b>	28-Ni-64 >>
<< MT102 (p, $\gamma$ )	<b>MT107 (p,<math>\alpha</math>) or MT5 (Co58 production)</b>	MT4 (p,n) >>



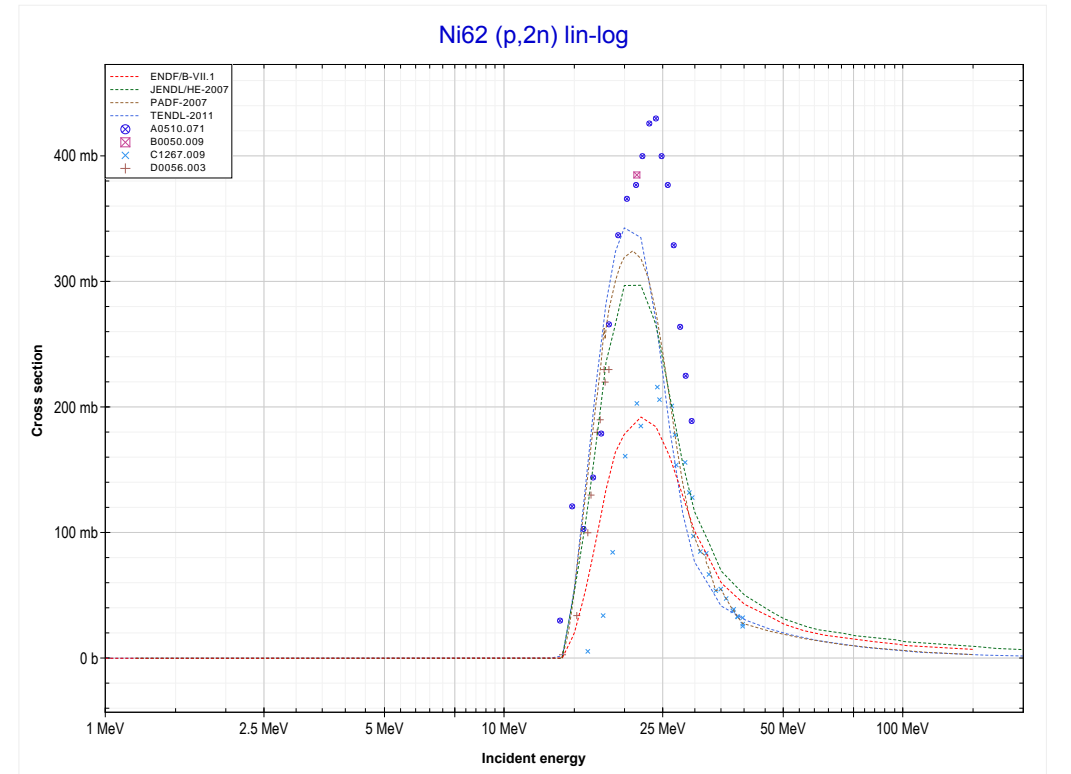
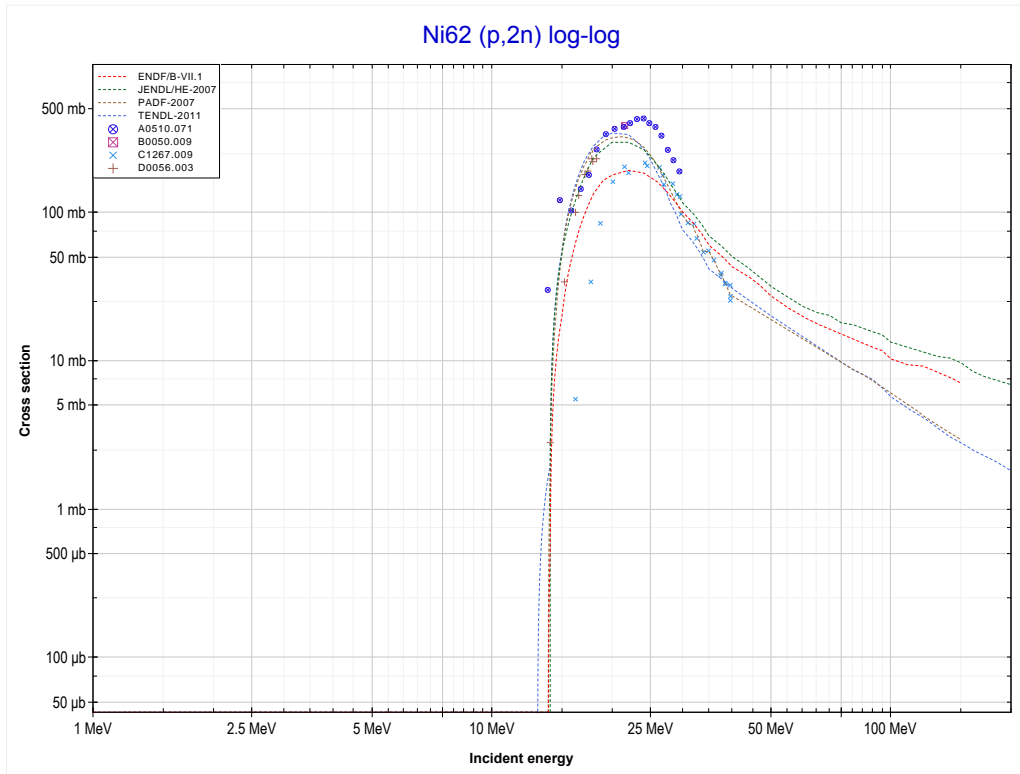
Reaction	Q-Value
Ni61(p, $\alpha$ )Co58	489.05 keV
Ni61(p,p+t)Co58	-19324.81 keV
Ni61(p,n+He3)Co58	-20088.56 keV
Ni61(p,2d)Co58	-23357.47 keV
Ni61(p,n+p+d)Co58	-25582.04 keV
Ni61(p,2n+2p)Co58	-27806.60 keV

<< 28-Ni-61	<b>28-Ni-62</b>	28-Ni-64 >>
<< MT107 (p, $\alpha$ )	<b>MT4 (p,n) or MT5 (Cu62 production)</b>	MT16 (p,2n) >>



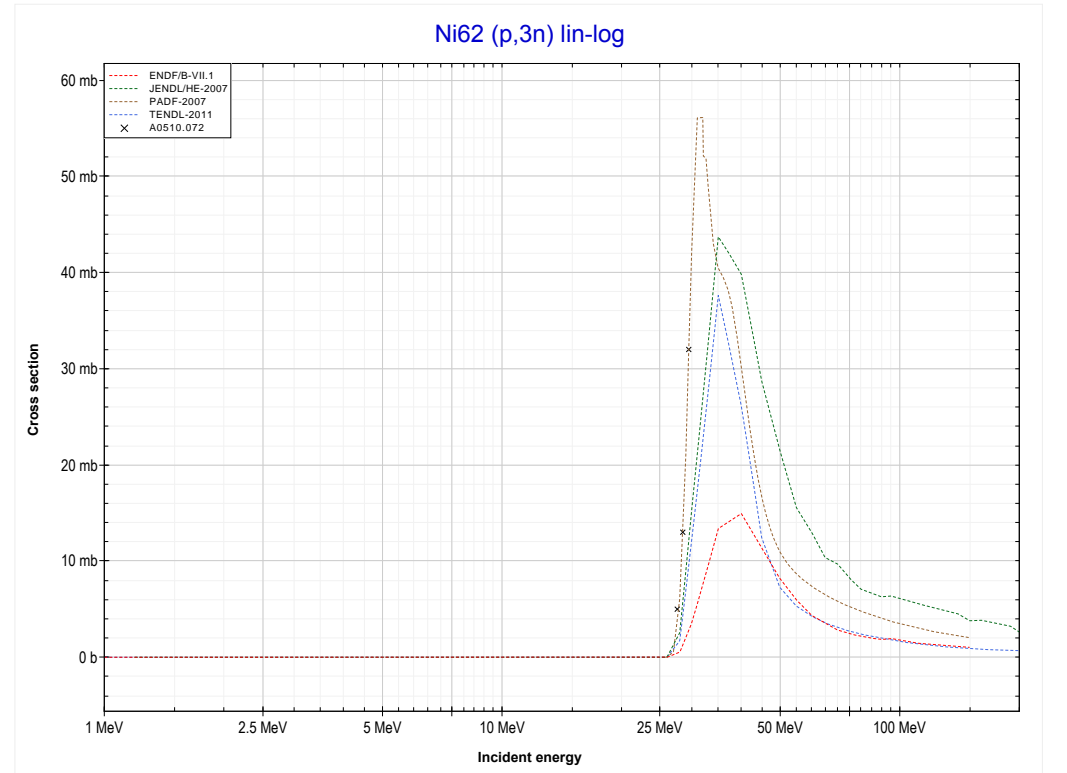
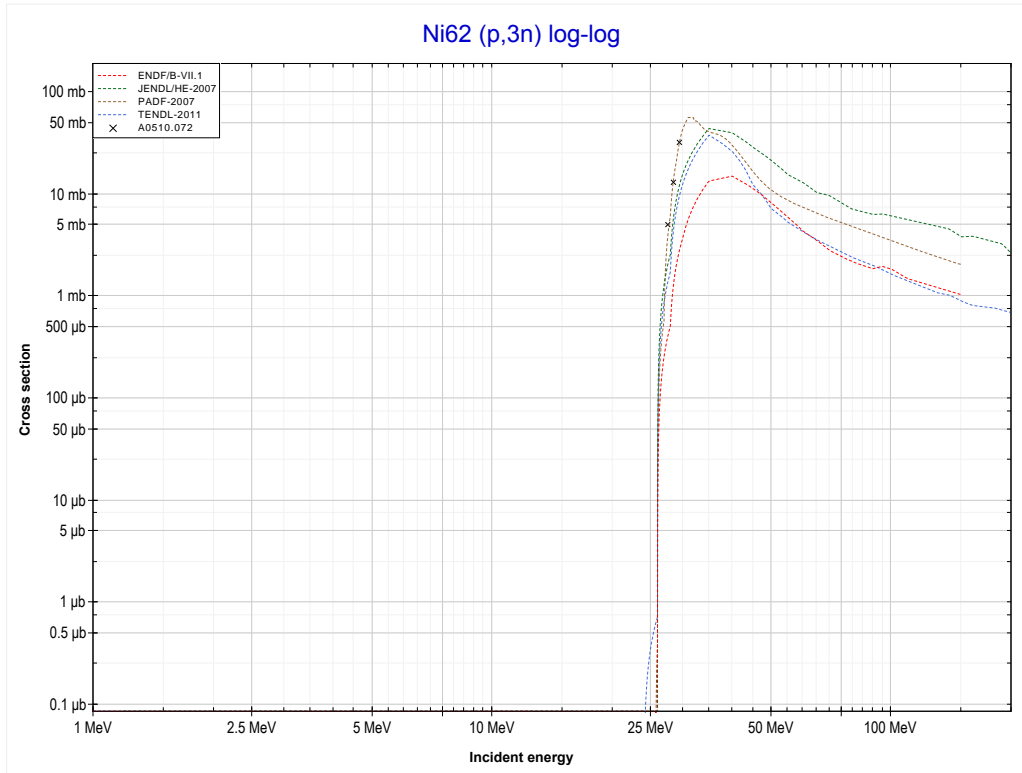
Reaction	Q-Value
Ni62(p,n)Cu62	-4730.45 keV

<< 28-Ni-61	<b>28-Ni-62</b>	29-Cu-63 >>
<< MT4 (p,n)	<b>MT16 (p,2n) or MT5 (Cu61 production)</b>	MT17 (p,3n) >>



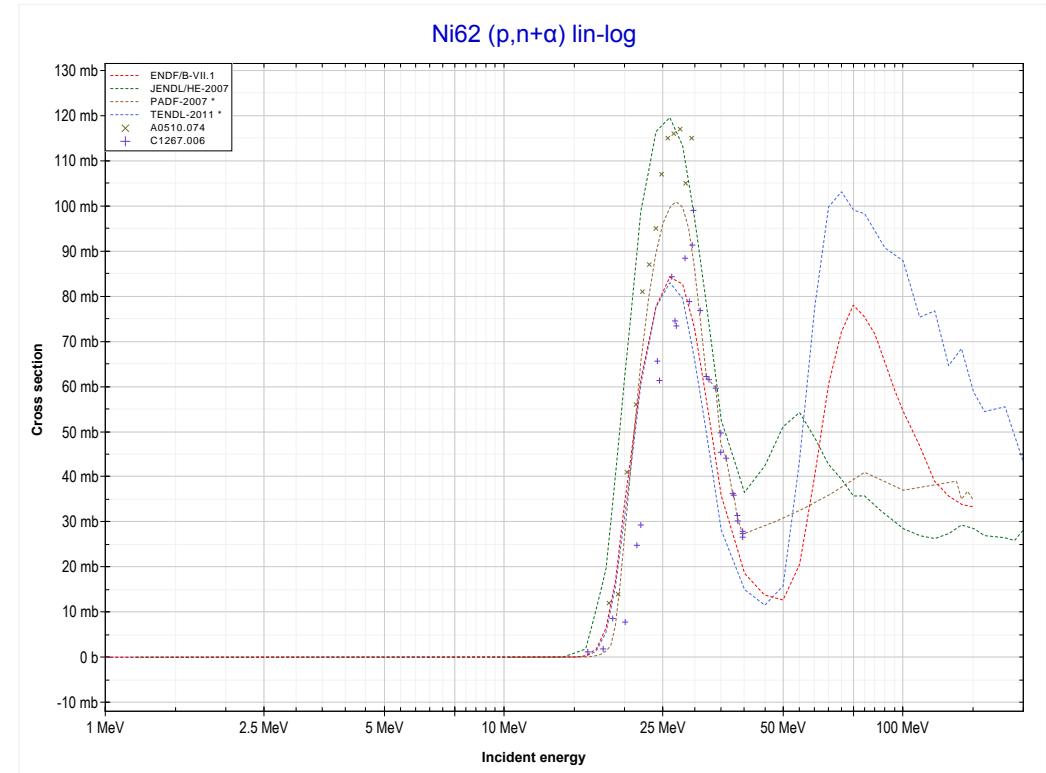
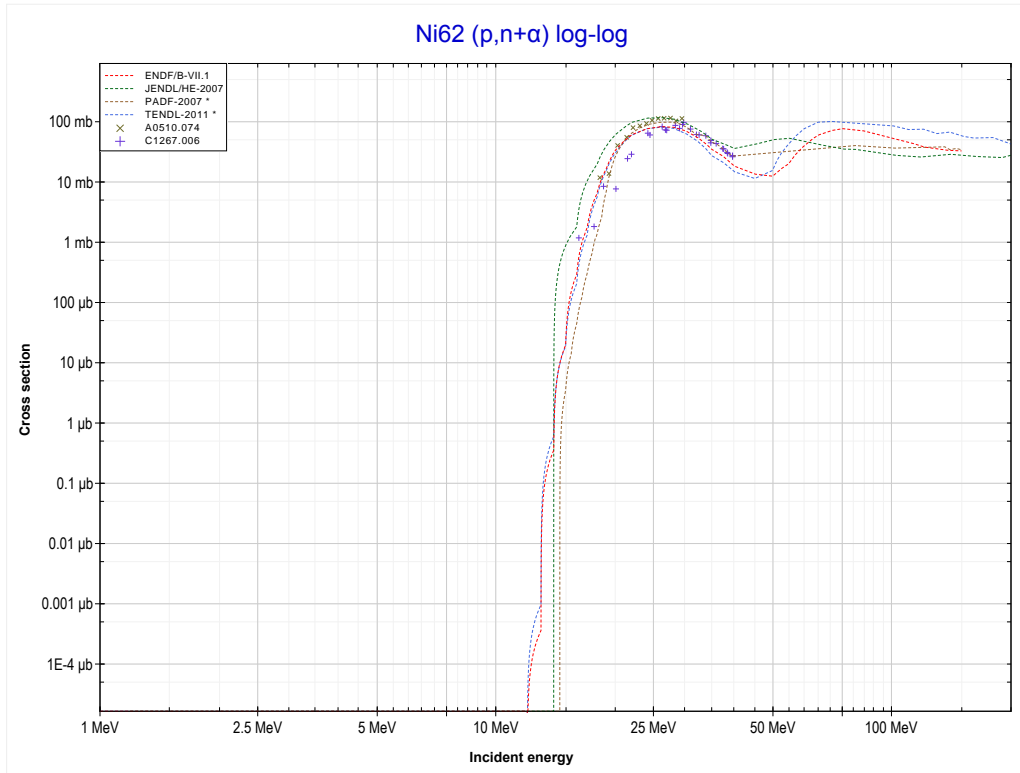
Reaction	Q-Value
Ni62(p,2n)Cu61	-13616.16 keV

<< 27-Co-59	<b>28-Ni-62</b>	29-Cu-63 >>
<< MT16 (p,2n)	<b>MT17 (p,3n) or MT5 (Cu60 production)</b>	MT22 (p,n+α) >>



Reaction	Q-Value
Ni62(p,3n)Cu60	-25326.98 keV

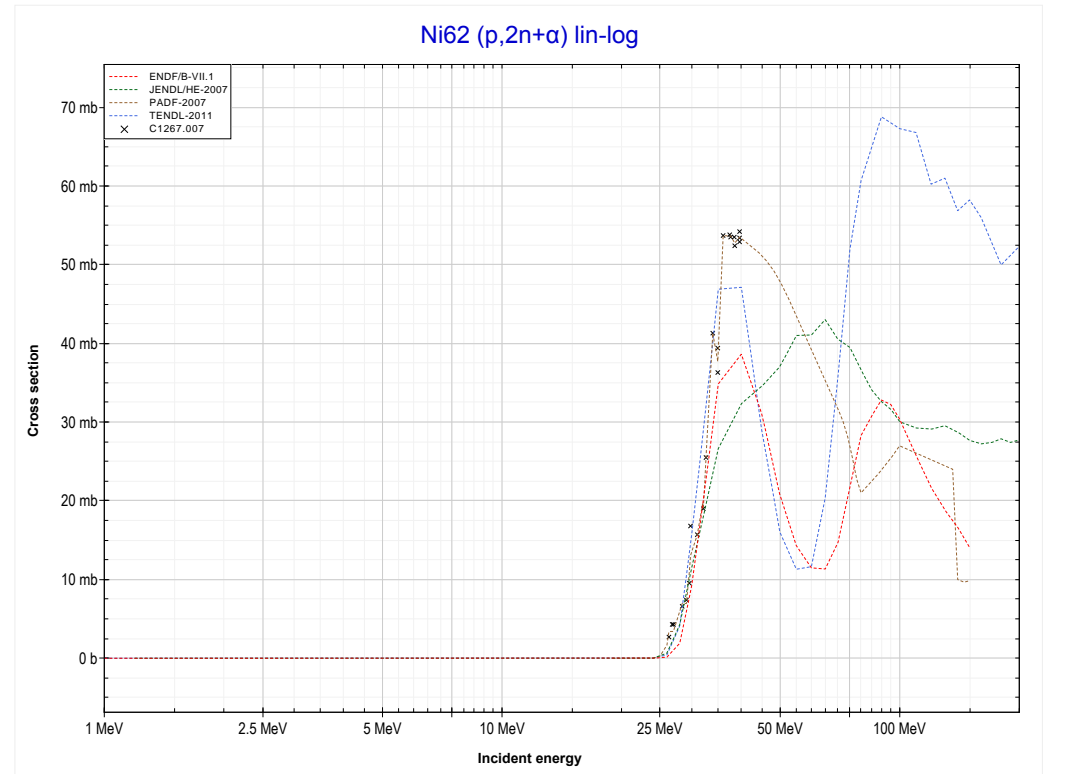
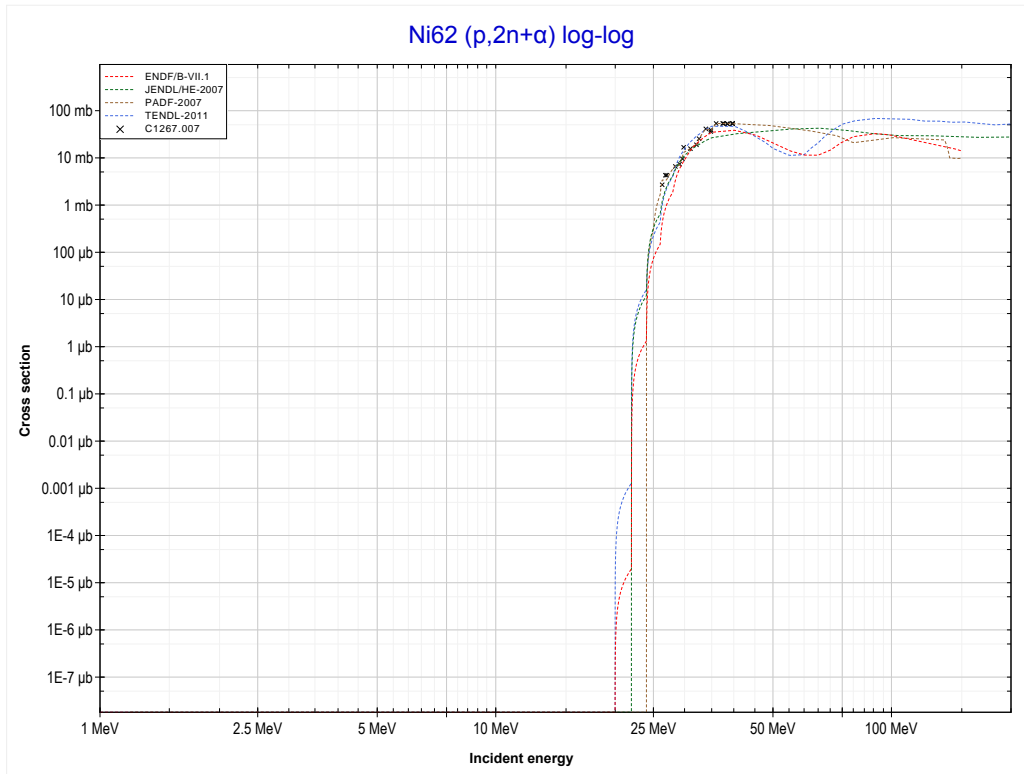
<< 28-Ni-60	<b>28-Ni-62</b>	28-Ni-64 >>
<< MT17 (p,3n)	<b>MT22 (p,n+α) or MT5 (Co58 production)</b>	MT24 (p,2n+α) >>



Reaction	Q-Value
Ni62(p,n+α)Co58	-10107.46 keV
Ni62(p,d+t)Co58	-27696.76 keV
Ni62(p,n+p+t)Co58	-29921.32 keV
Ni62(p,2n+He3)Co58	-30685.08 keV
Ni62(p,n+2d)Co58	-33953.99 keV
Ni62(p,2n+p+d)Co58	-36178.56 keV
Ni62(p,3n+2p)Co58	-38403.12 keV

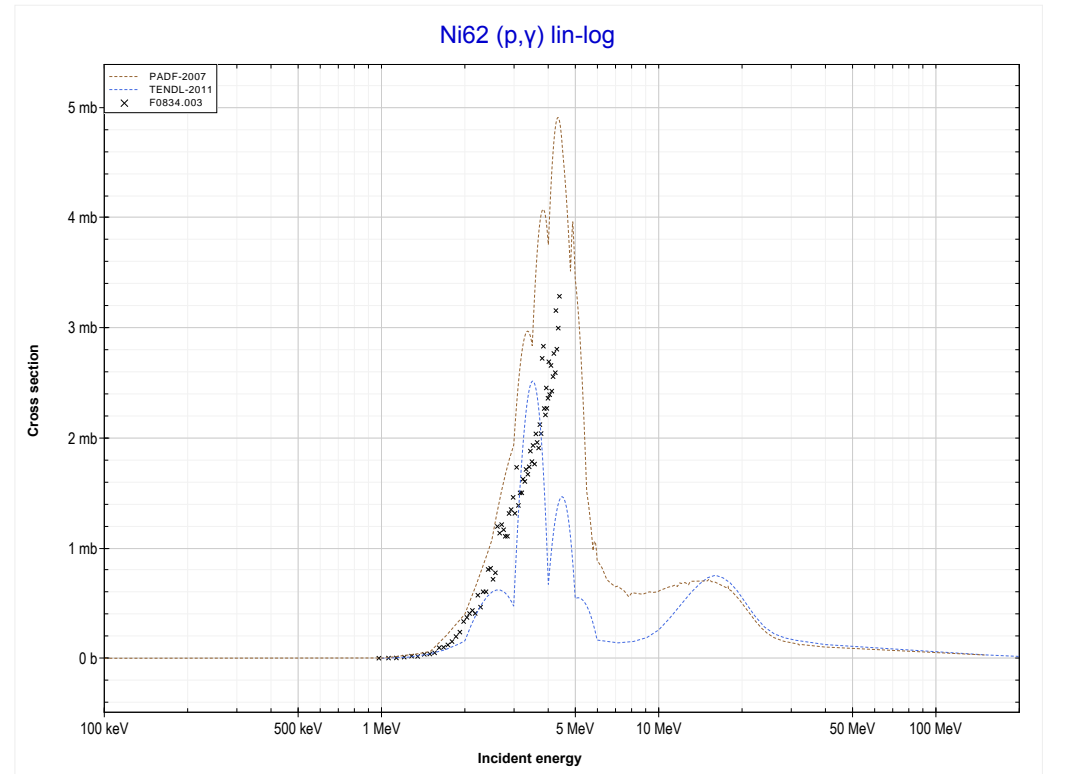
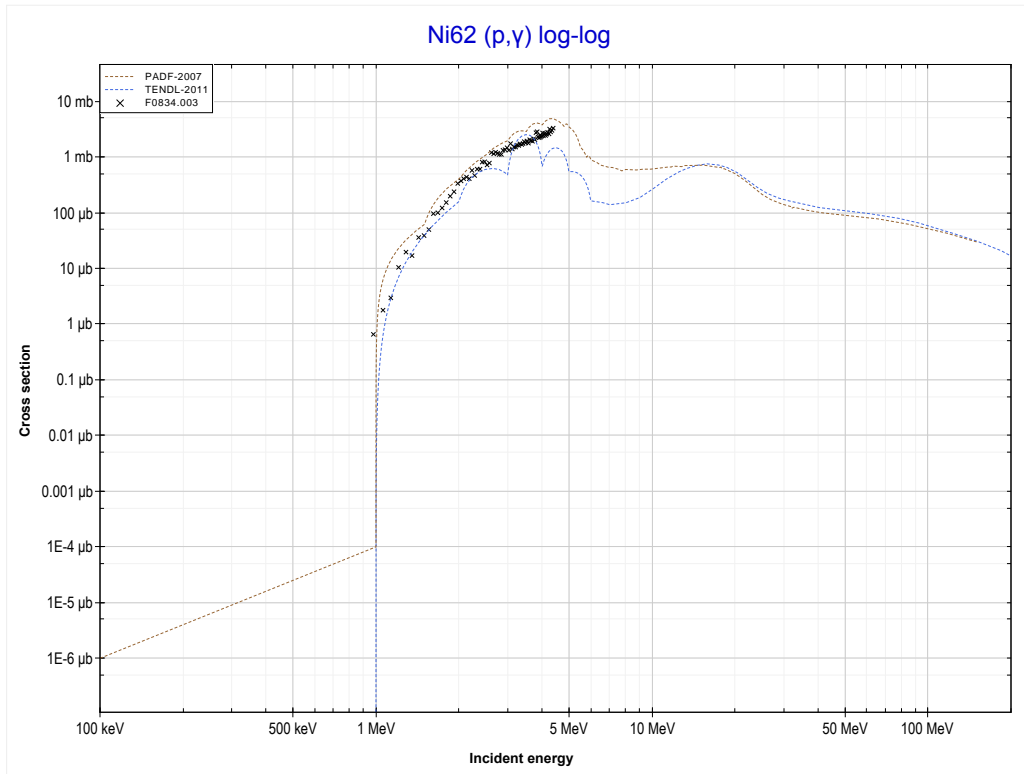


	<b>28-Ni-62</b>	<b>34-Se-76 &gt;&gt;</b>
<< MT22 (p,n+α)	<b>MT24 (p,2n+α) or MT5 (Co57 production)</b>	<b>MT102 (p,γ) &gt;&gt;</b>



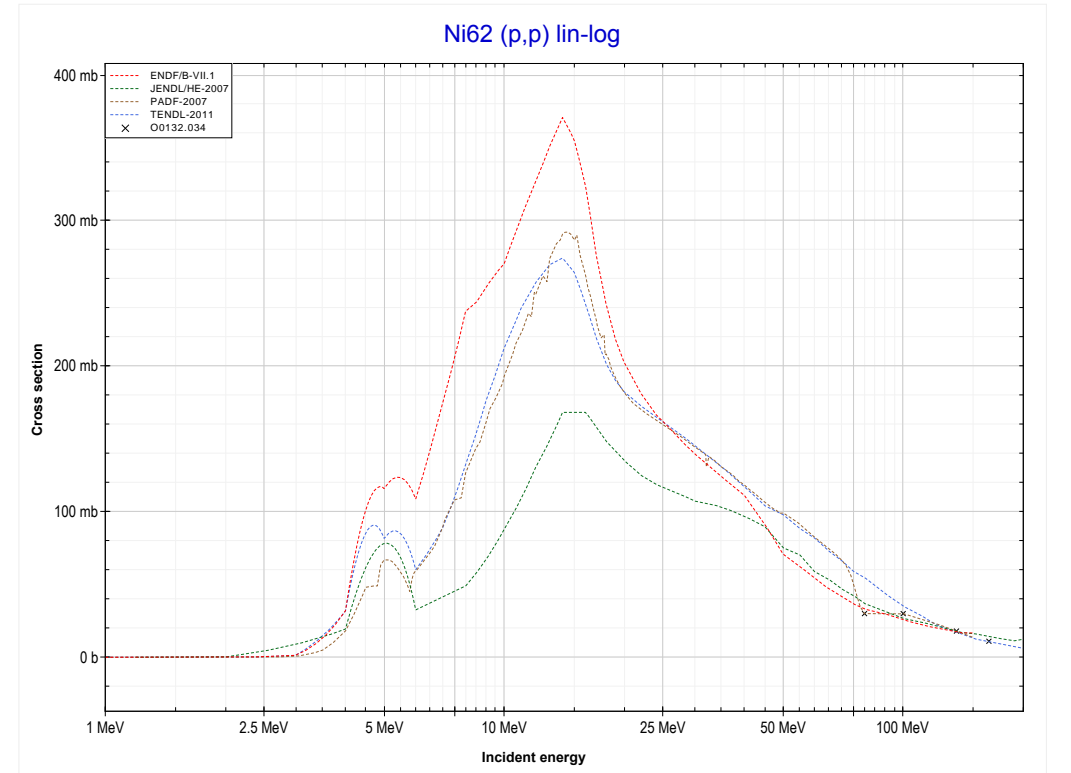
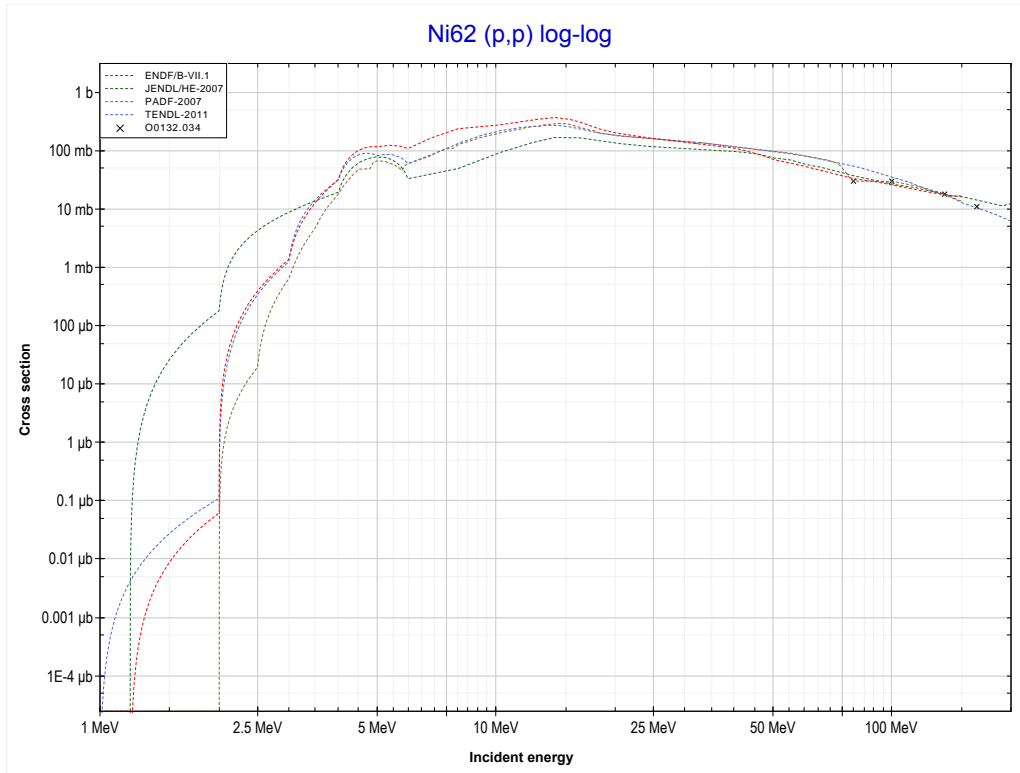
Reaction	Q-Value
Ni62(p,2n+α)Co57	-18680.48 keV
Ni62(p,2t)Co57	-30012.54 keV
Ni62(p,n+d+t)Co57	-36269.77 keV
Ni62(p,2n+p+t)Co57	-38494.34 keV
Ni62(p,3n+He3)Co57	-39258.10 keV
Ni62(p,2n+2d)Co57	-42527.01 keV
Ni62(p,3n+p+d)Co57	-44751.57 keV
Ni62(p,4n+2p)Co57	-46976.14 keV

<< 28-Ni-61	<b>28-Ni-62</b>	28-Ni-64 >>
<< MT24 (p,2n+α)	<b>MT102 (p,γ) or MT5 (Cu63 production)</b>	MT103 (p,p) >>



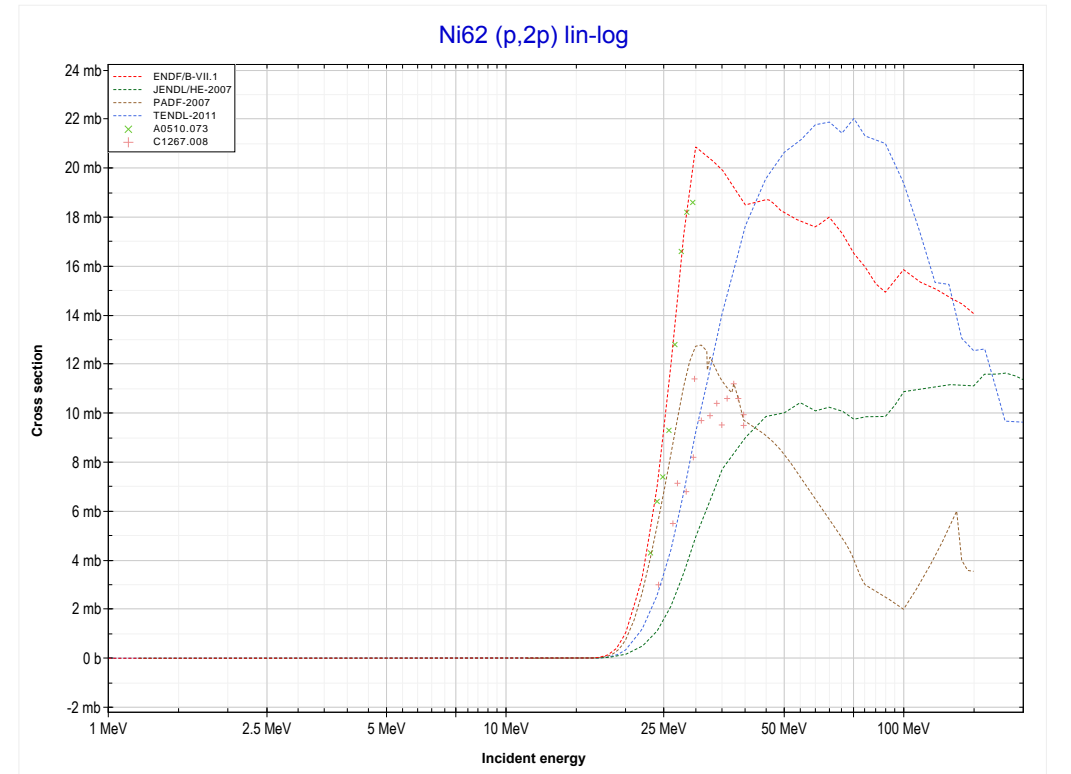
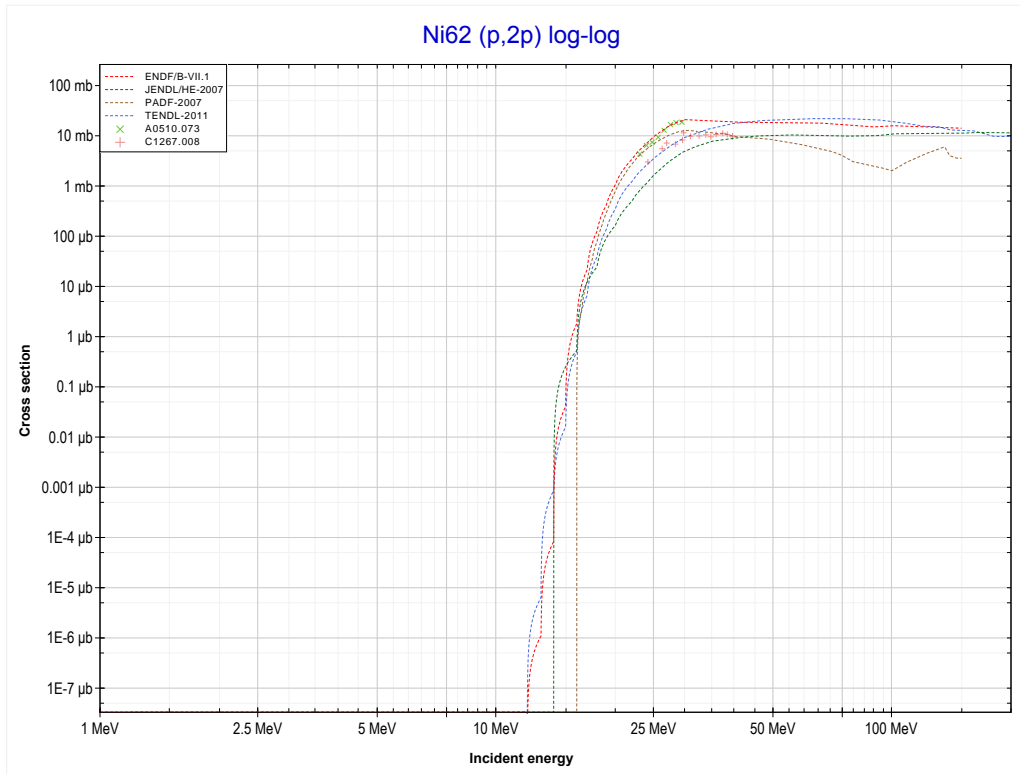
Reaction	Q-Value
Ni62(p,γ)Cu63	6122.37 keV

<< 28-Ni-60	<b>28-Ni-62</b>	28-Ni-64 >>
<< MT102 (p, $\gamma$ )	<b>MT103 (p,p) or MT5 (Ni62 production)</b>	MT111 (p,2p) >>



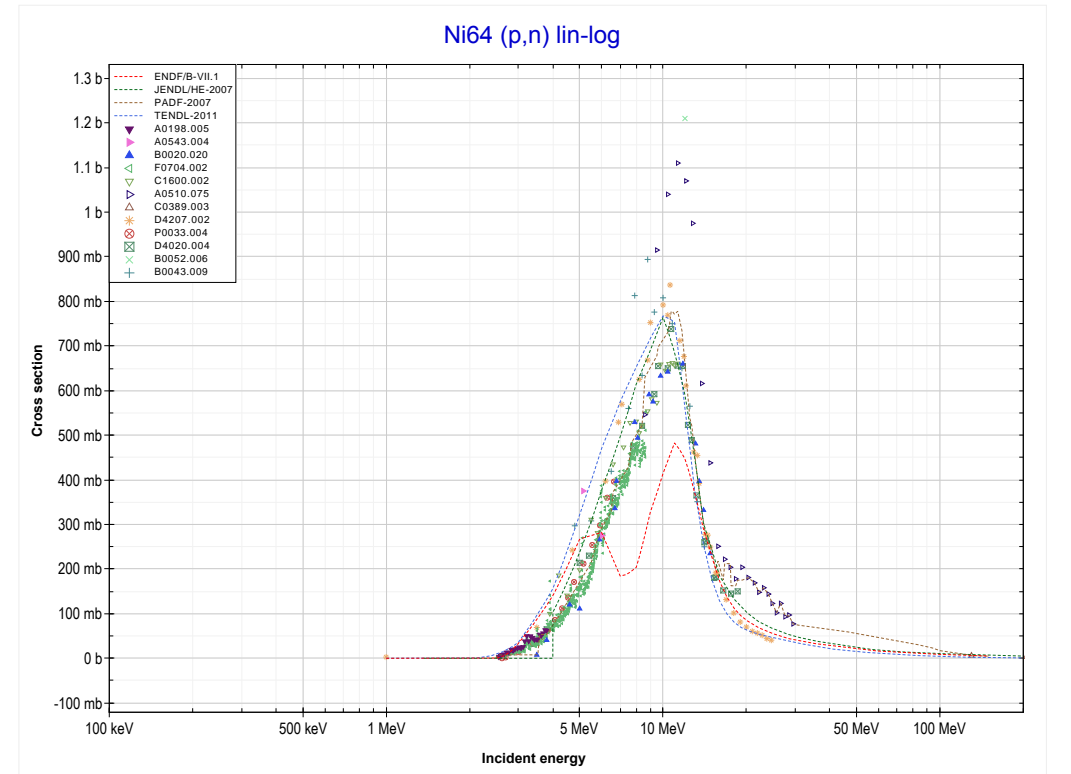
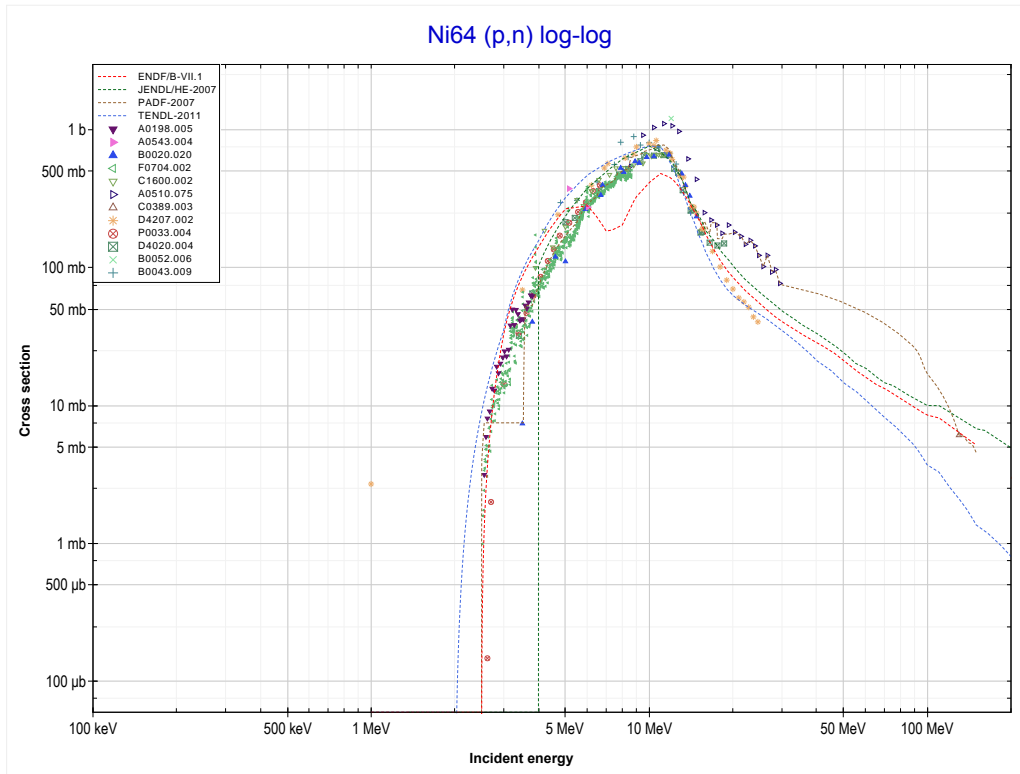
Reaction	Q-Value
Ni62(p,p)Ni62	0.00 keV

<< 28-Ni-58	<b>28-Ni-62</b>	30-Zn-68 >>
<< MT103 (p,p)	<b>MT111 (p,2p) or MT5 (Co61 production)</b>	MT4 (p,n) >>



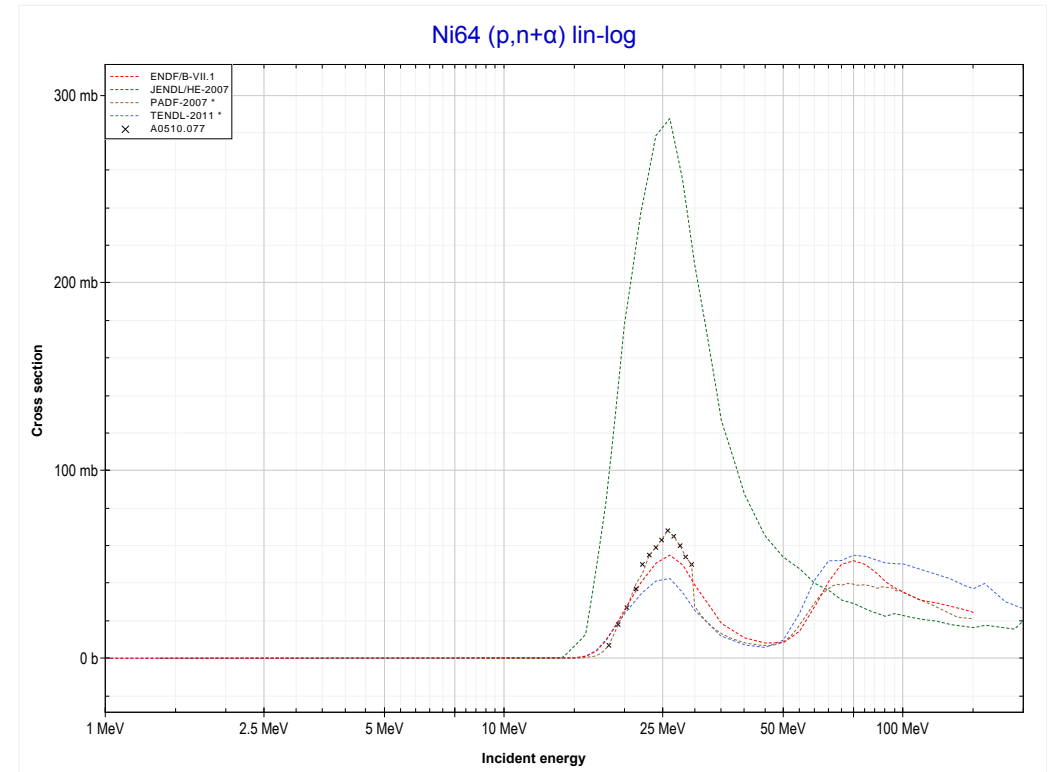
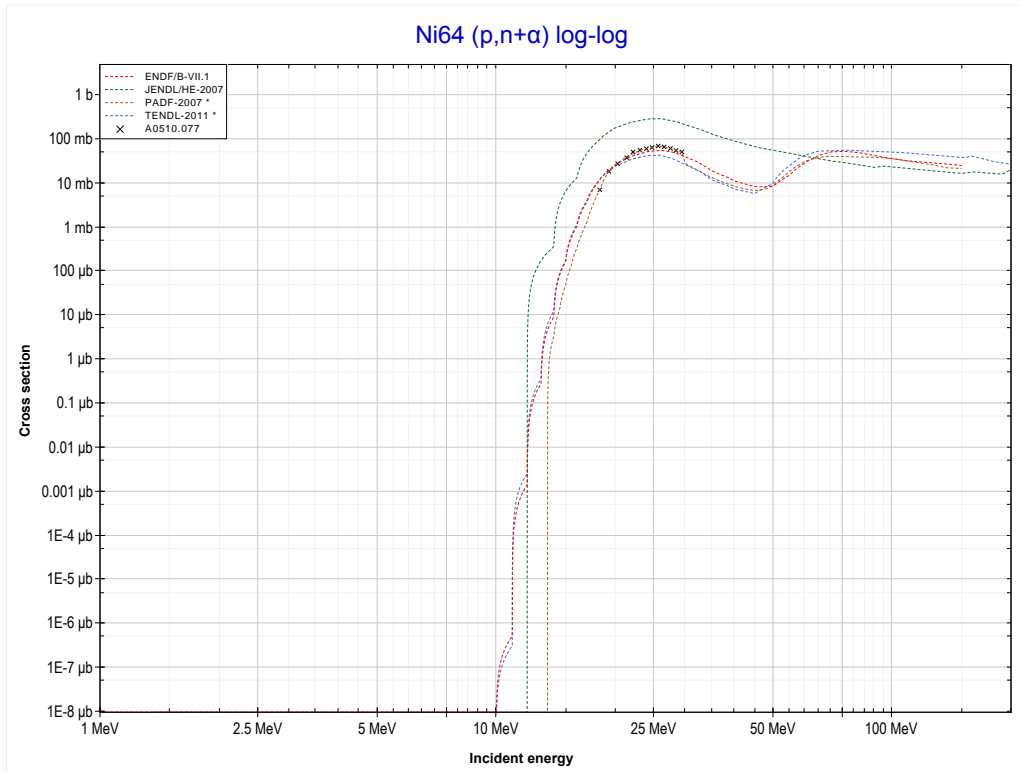
Reaction	Q-Value
Ni62(p,2p)Co61	-11136.67 keV

<< 28-Ni-62	<b>28-Ni-64</b>	29-Cu-63 >>
<< MT111 (p,2p)	<b>MT4 (p,n) or MT5 (Cu64 production)</b>	MT22 (p,n+α) >>



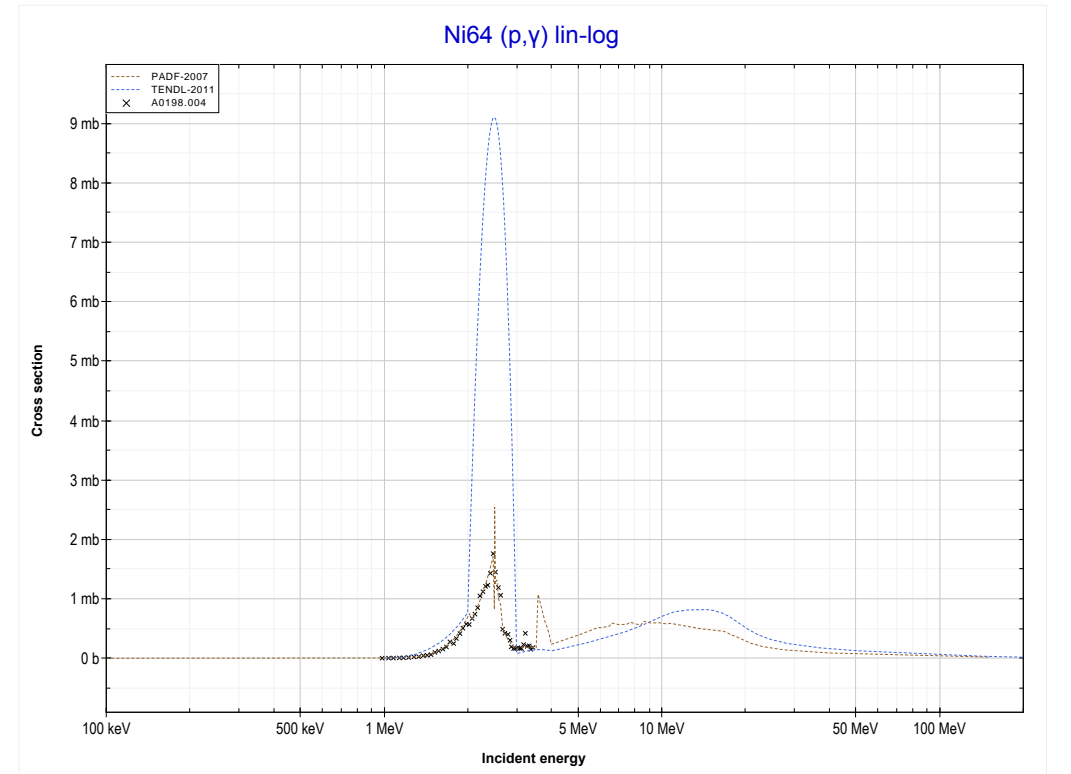
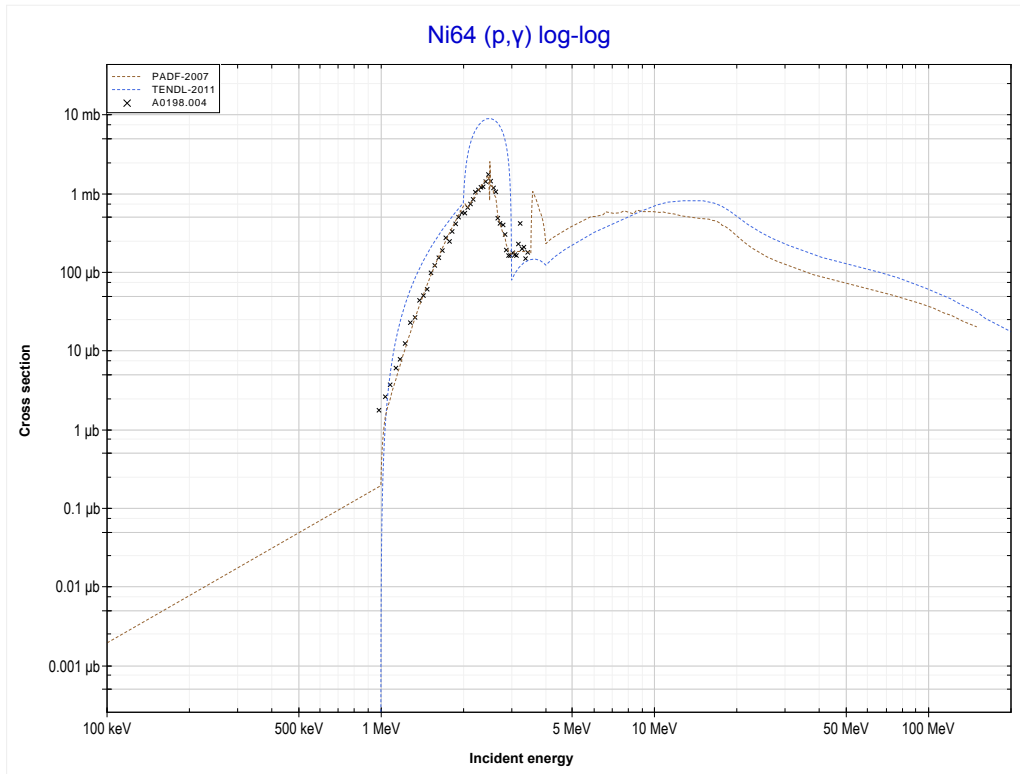
Reaction	Q-Value
Ni64(p,n)Cu64	-2457.45 keV

<< 28-Ni-62	<b>28-Ni-64</b>	30-Zn-64 >>
<< MT4 (p,n)	<b>MT22 (p,n+α) or MT5 (Co60 production)</b>	MT102 (p,γ) >>



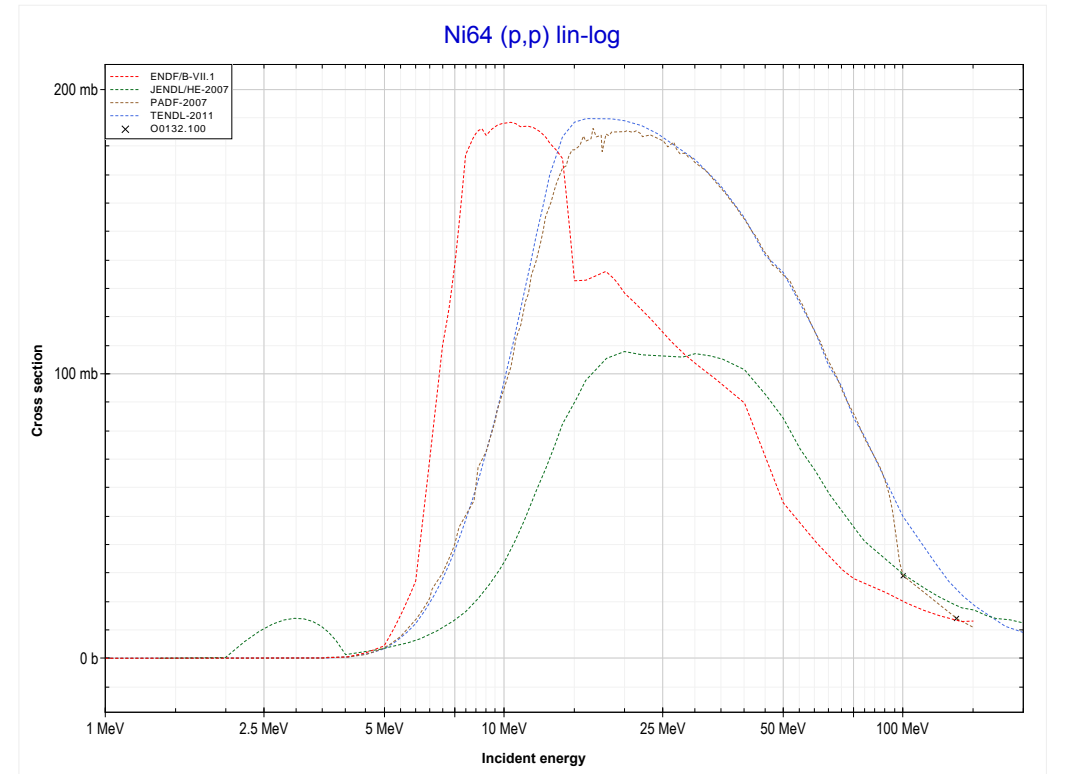
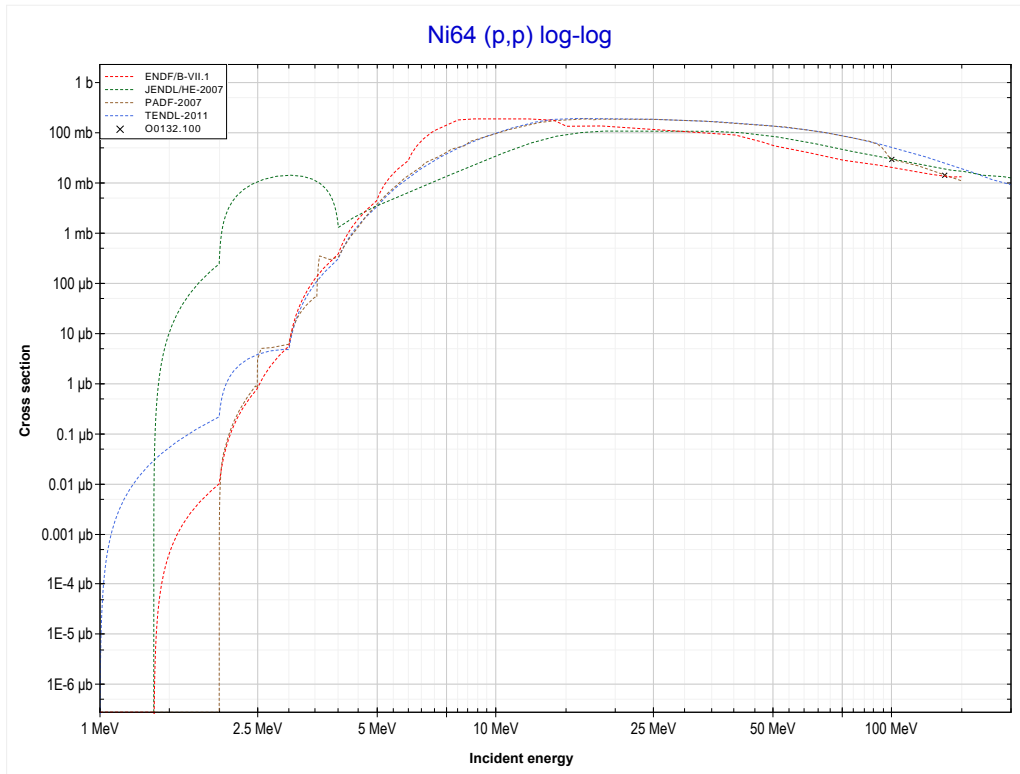
Reaction	Q-Value
Ni64(p,n+α)Co60	-8657.56 keV
Ni64(p,d+t)Co60	-26246.86 keV
Ni64(p,n+p+t)Co60	-28471.42 keV
Ni64(p,2n+He3)Co60	-29235.18 keV
Ni64(p,n+2d)Co60	-32504.09 keV
Ni64(p,2n+p+d)Co60	-34728.66 keV
Ni64(p,3n+2p)Co60	-36953.22 keV

<< 28-Ni-62	<b>28-Ni-64</b>	29-Cu-63 >>
<< MT22 (p,n+α)	<b>MT102 (p,γ) or MT5 (Cu65 production)</b>	MT103 (p,p) >>



Reaction	Q-Value
Ni64(p,γ)Cu65	7453.37 keV

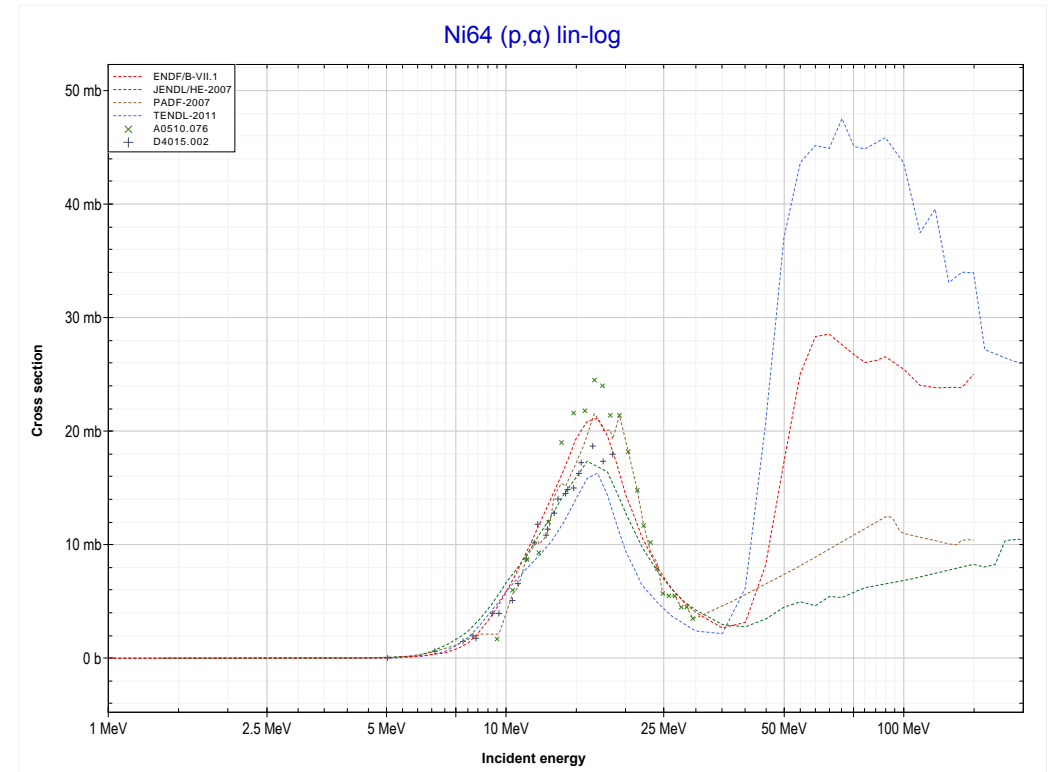
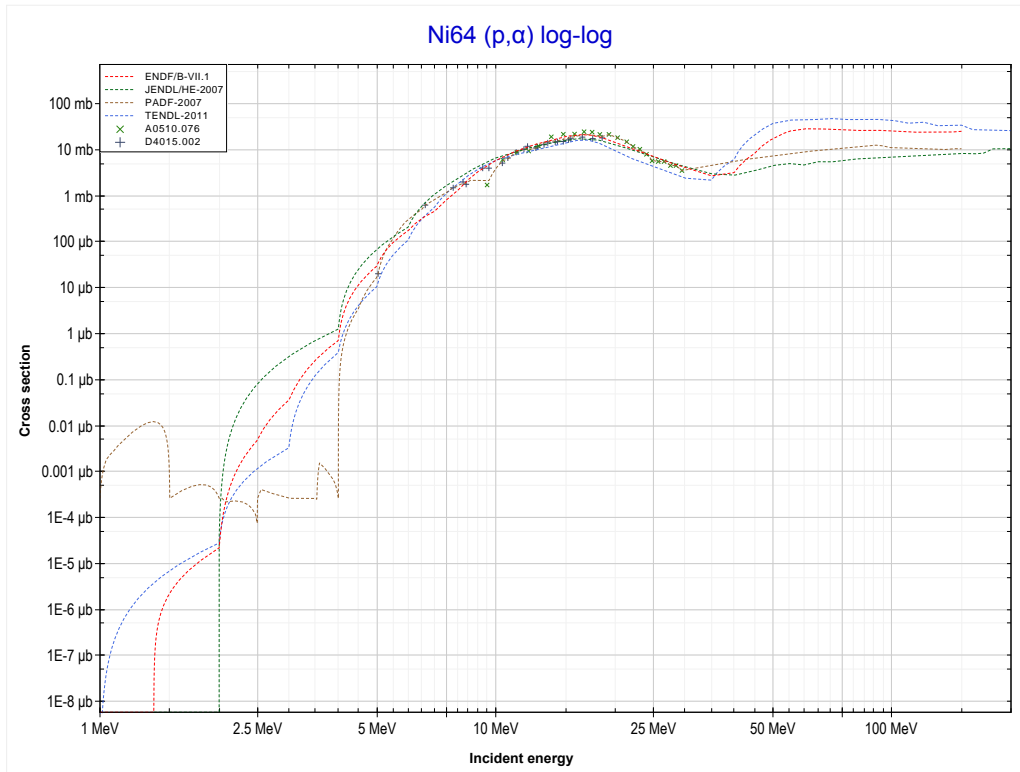
<< 28-Ni-62	<b>28-Ni-64</b>	29-Cu-63 >>
<< MT102 (p, $\gamma$ )	<b>MT103 (p,p) or MT5 (Ni64 production)</b>	MT107 (p, $\alpha$ ) >>



Reaction	Q-Value
Ni64(p,p)Ni64	0.00 keV

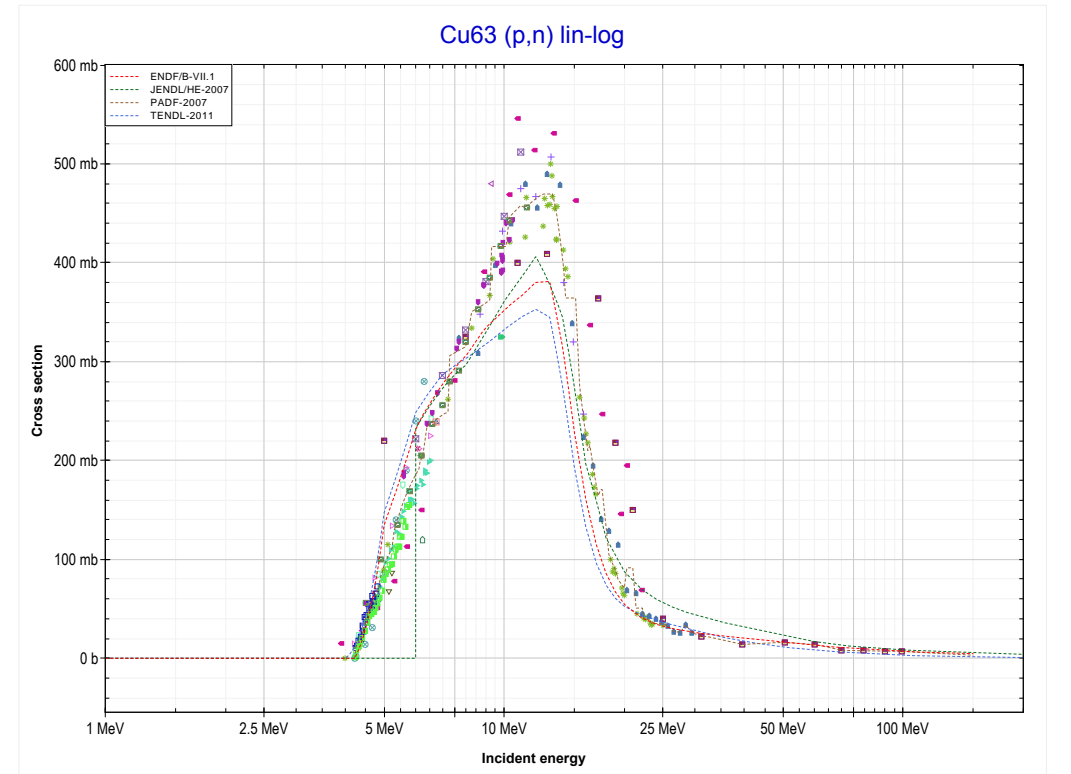
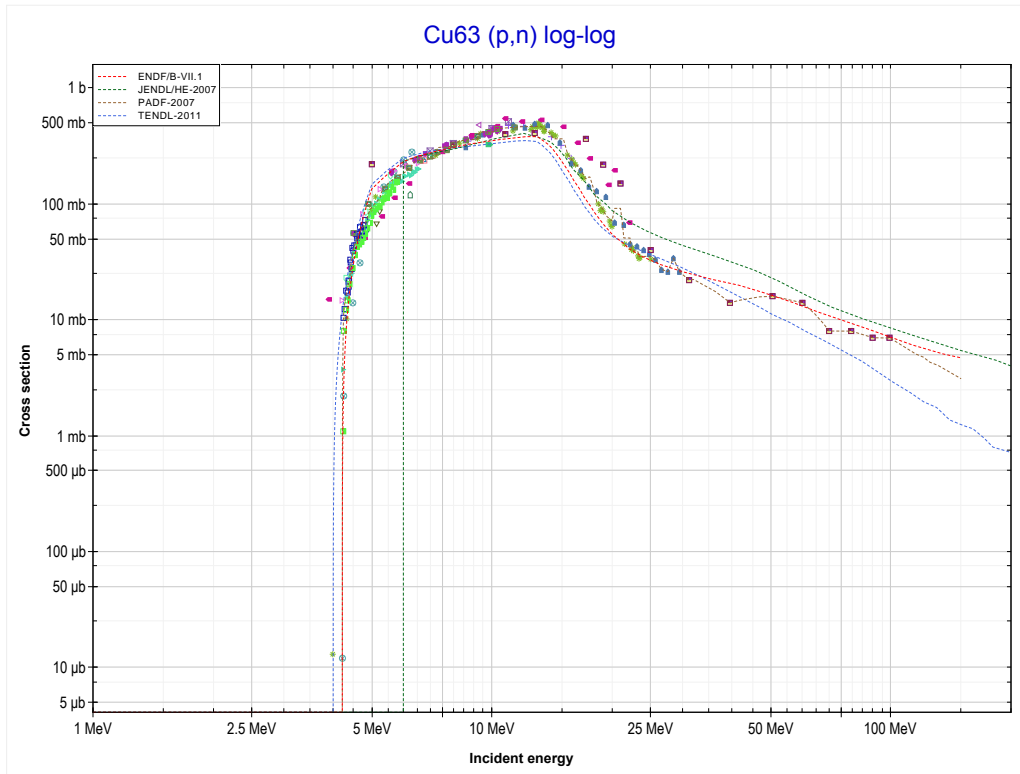


<< 28-Ni-61	<b>28-Ni-64</b>	29-Cu-63 >>
<< MT103 (p,p)	<b>MT107 (p,<math>\alpha</math>) or MT5 (Co61 production)</b>	MT4 (p,n) >>



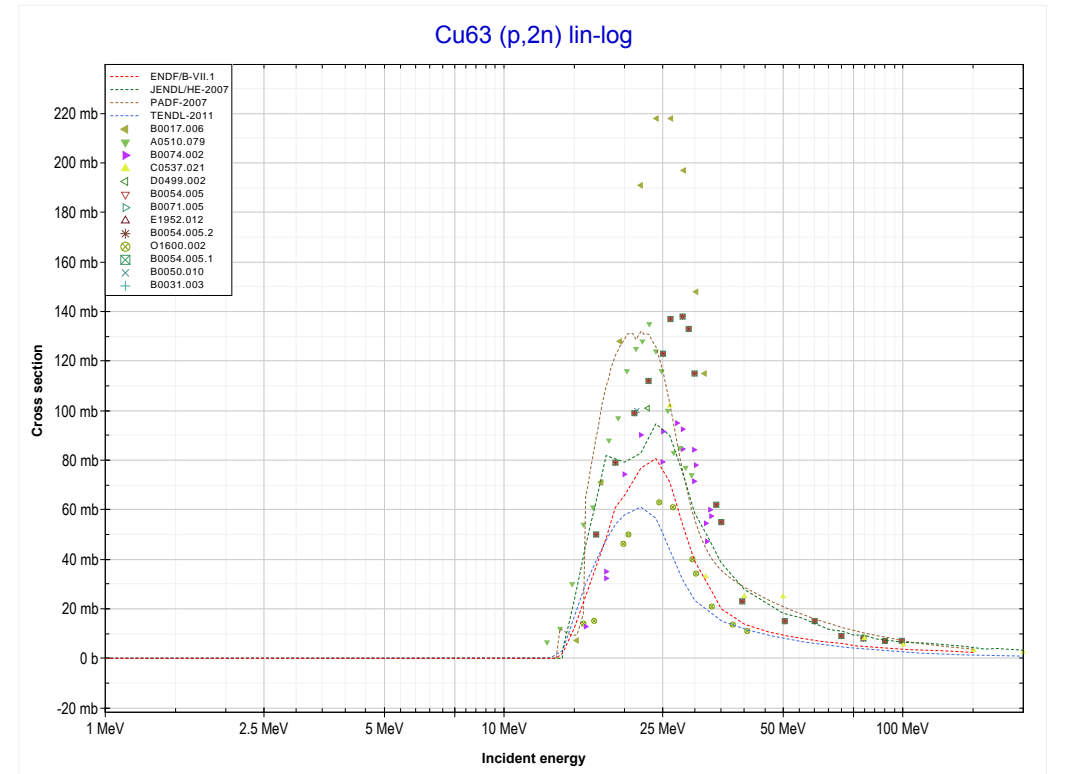
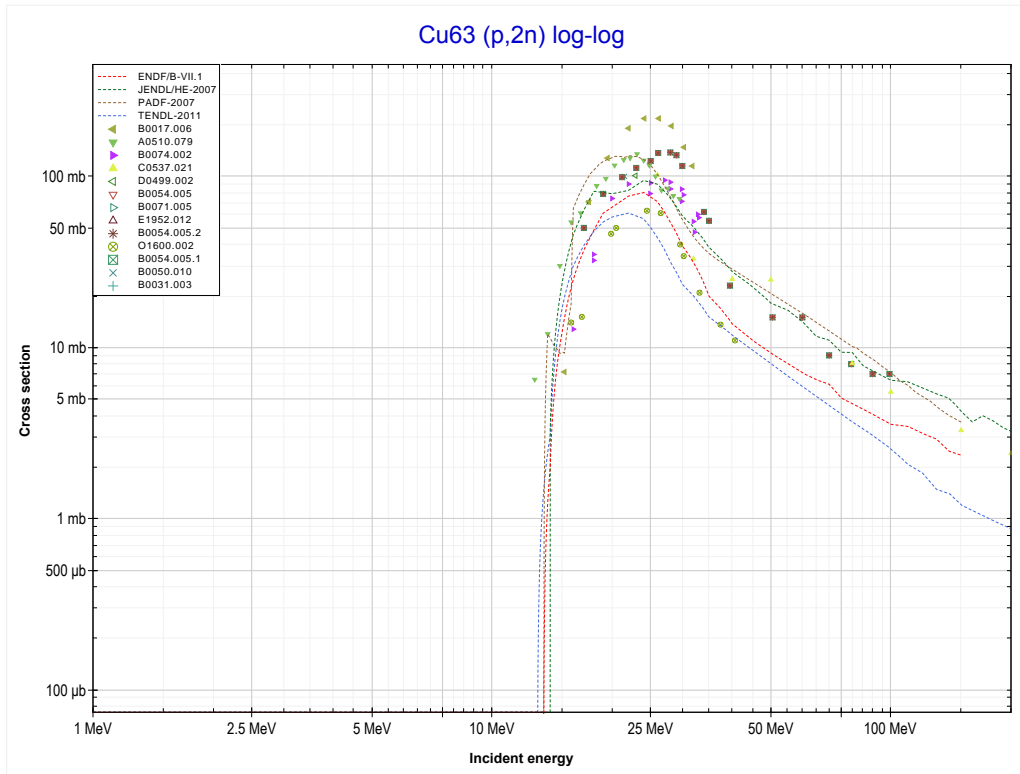
Reaction	Q-Value
Ni64(p, $\alpha$ )Co61	663.15 keV
Ni64(p,p+t)Co61	-19150.71 keV
Ni64(p,n+He3)Co61	-19914.46 keV
Ni64(p,2d)Co61	-23183.37 keV
Ni64(p,n+p+d)Co61	-25407.94 keV
Ni64(p,2n+2p)Co61	-27632.50 keV

<< 28-Ni-64	<b>29-Cu-63</b>	29-Cu-65 >>
<< MT107 (p, $\alpha$ )	<b>MT4 (p,n) or MT5 (Zn63 production)</b>	MT16 (p,2n) >>



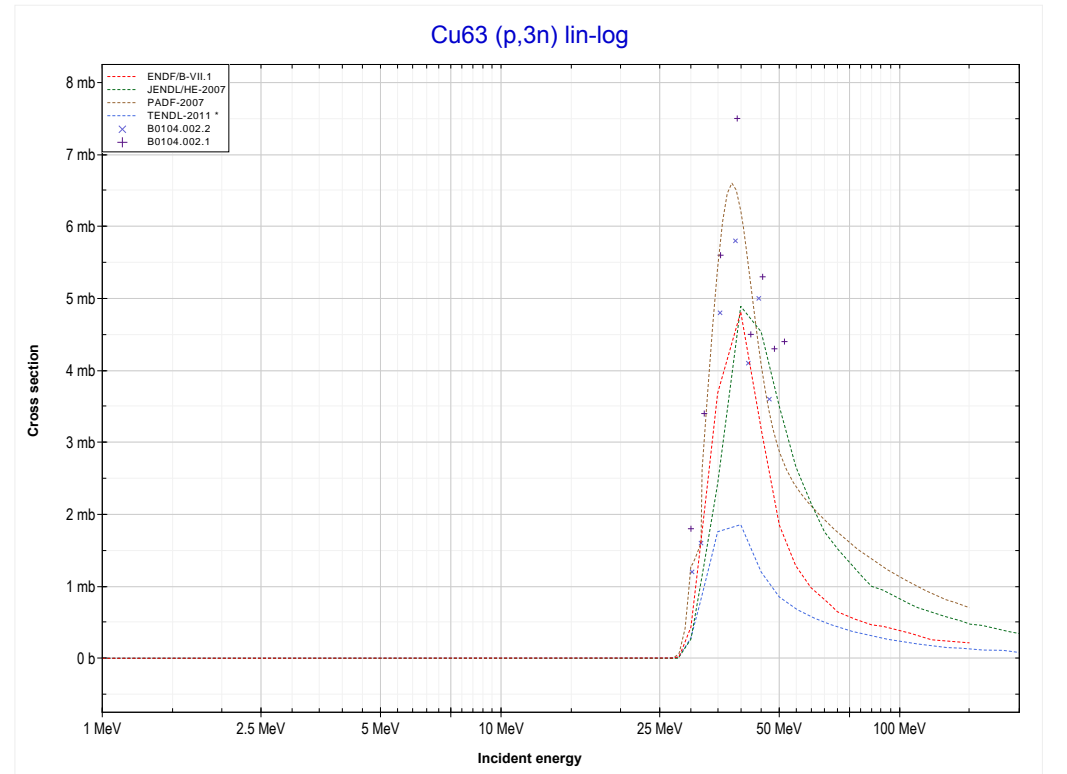
Reaction	Q-Value
Cu63(p,n)Zn63	-4148.85 keV

<< 28-Ni-62	<b>29-Cu-63</b>	30-Zn-66 >>
<< MT4 (p,n)	<b>MT16 (p,2n) or MT5 (Zn62 production)</b>	MT17 (p,3n) >>



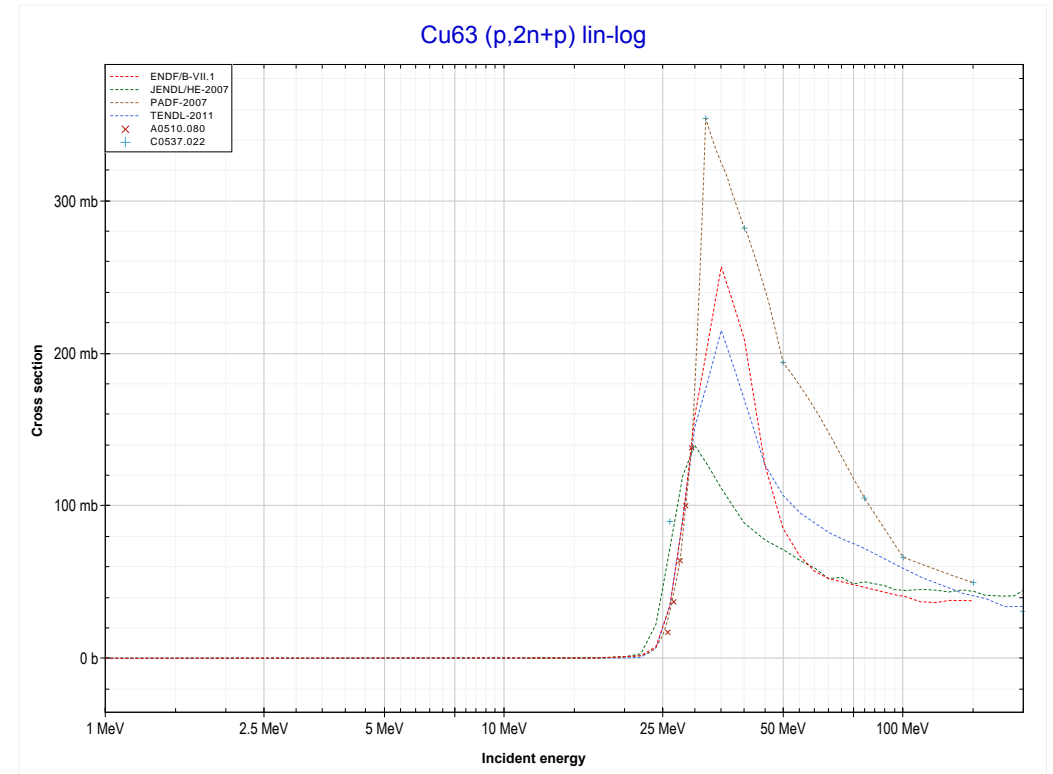
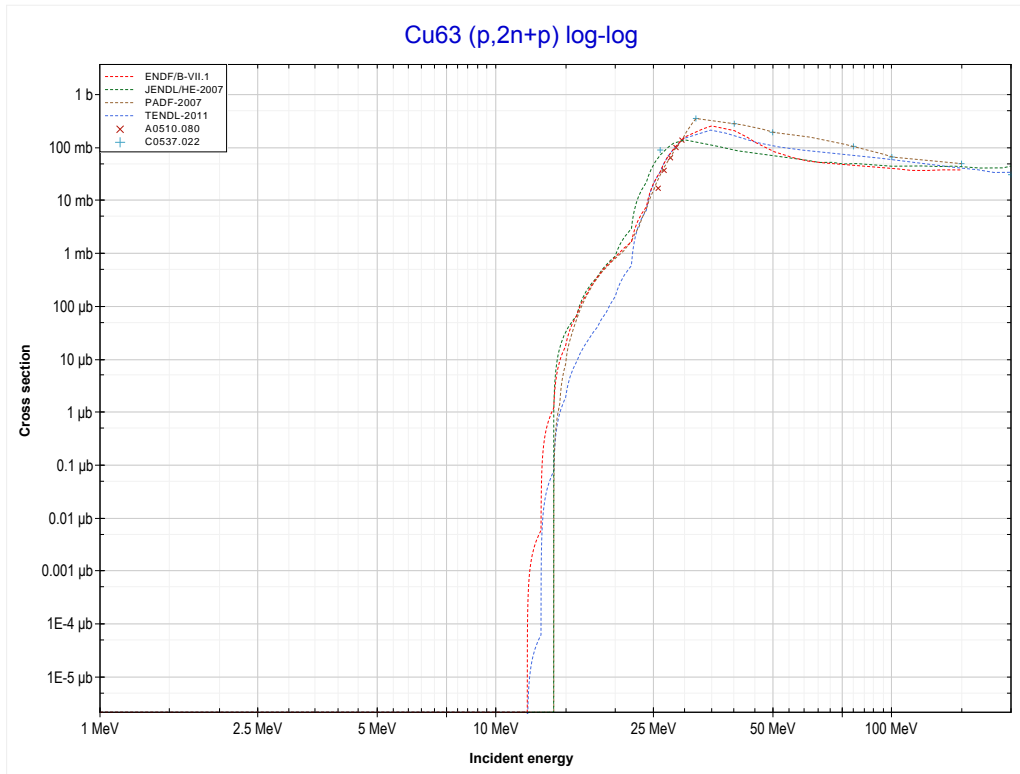
Reaction	Q-Value
Cu63(p,2n)Zn62	-13262.16 keV

<< 28-Ni-62	<b>29-Cu-63</b>	29-Cu-65 >>
<< MT16 (p,2n)	<b>MT17 (p,3n) or MT5 (Zn61 production)</b>	MT41 (p,2n+p) >>



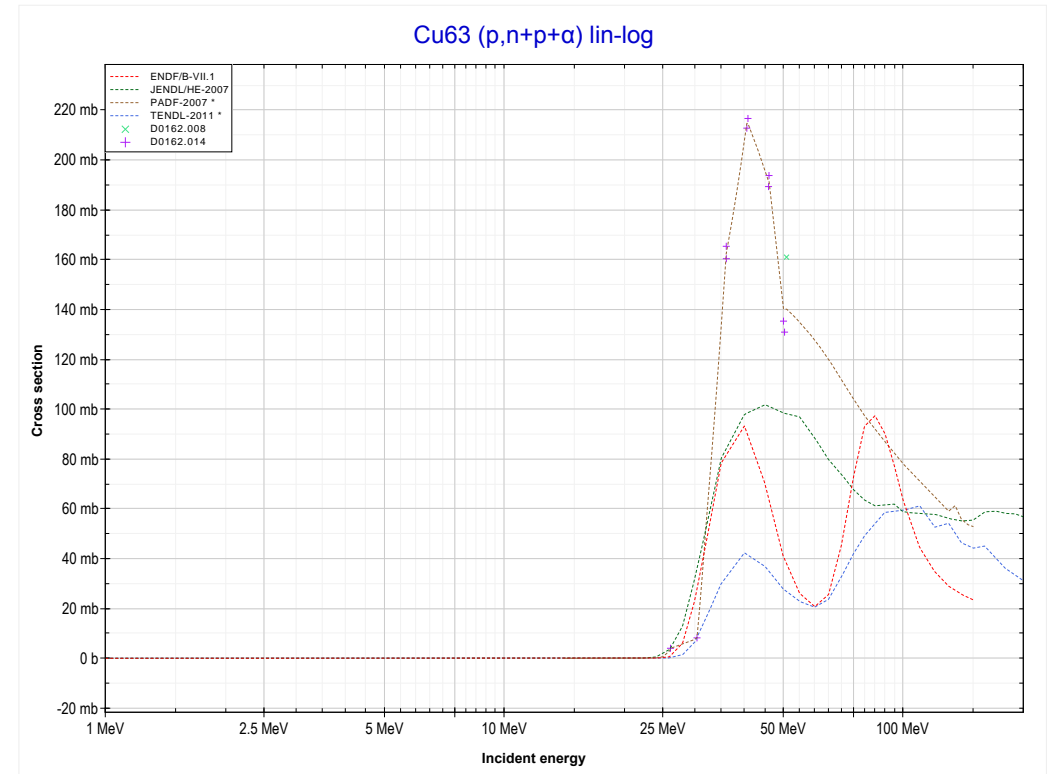
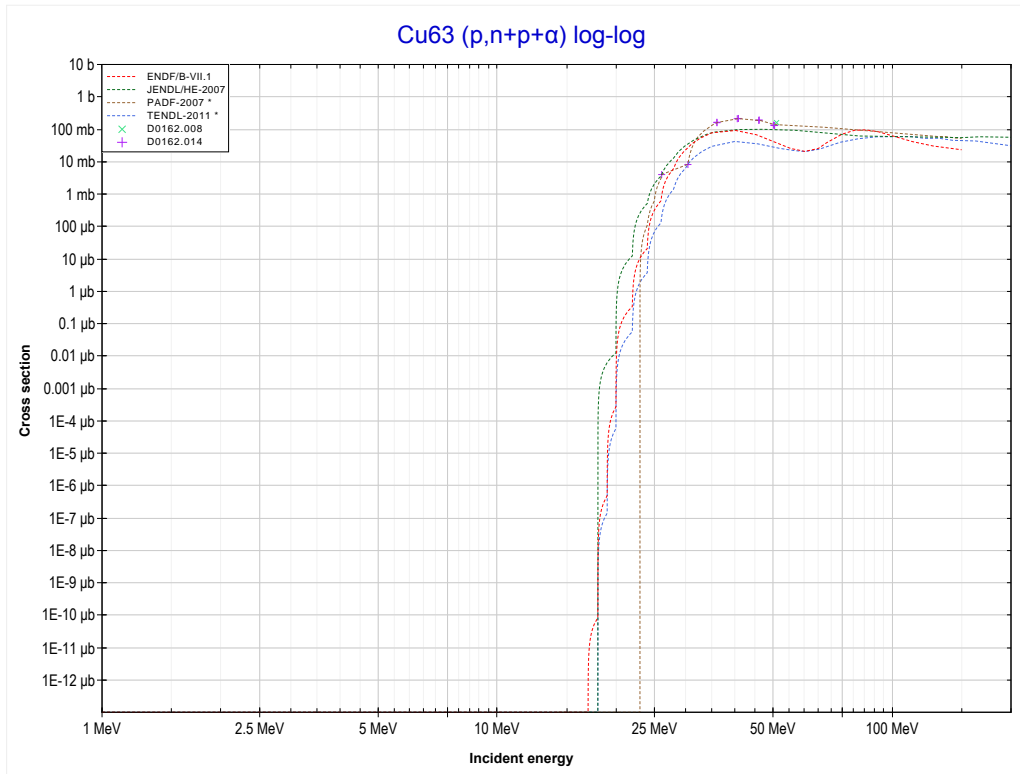
Reaction	Q-Value
Cu63(p,3n)Zn61	-26159.48 keV

<< 28-Ni-58	<b>29-Cu-63</b>	30-Zn-64 >>
<< MT17 (p,3n)	<b>MT41 (p,2n+p) or MT5 (Cu61 production)</b>	MT45 (p,n+p+α) >>



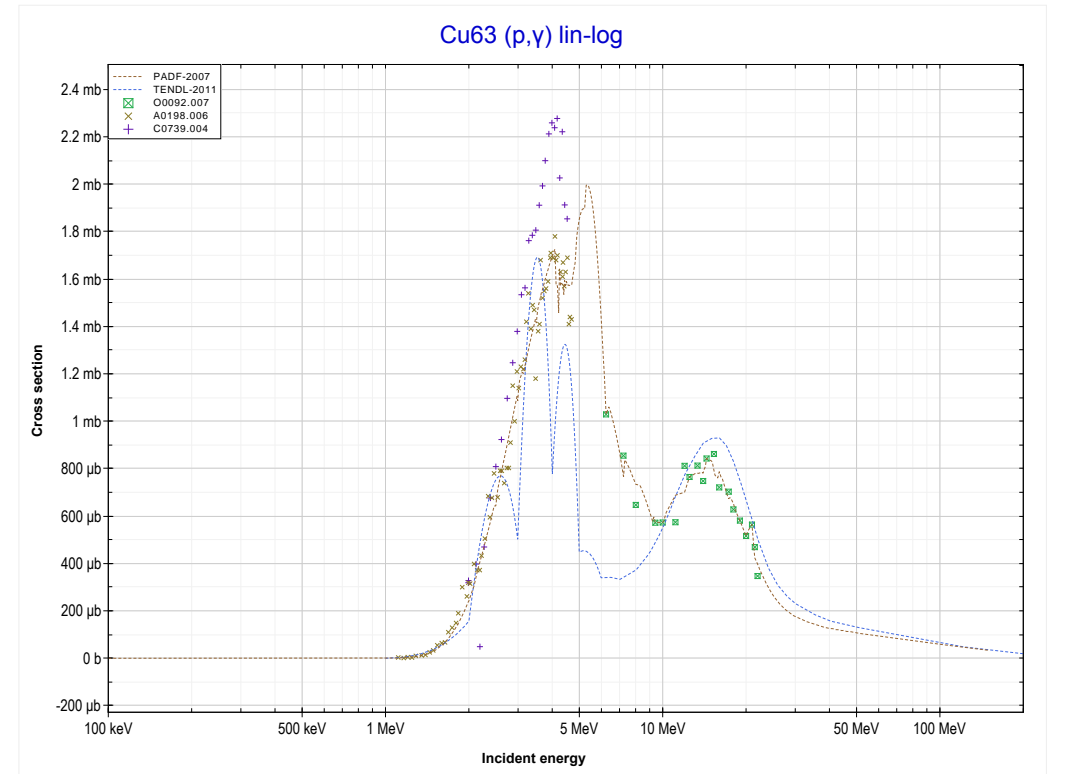
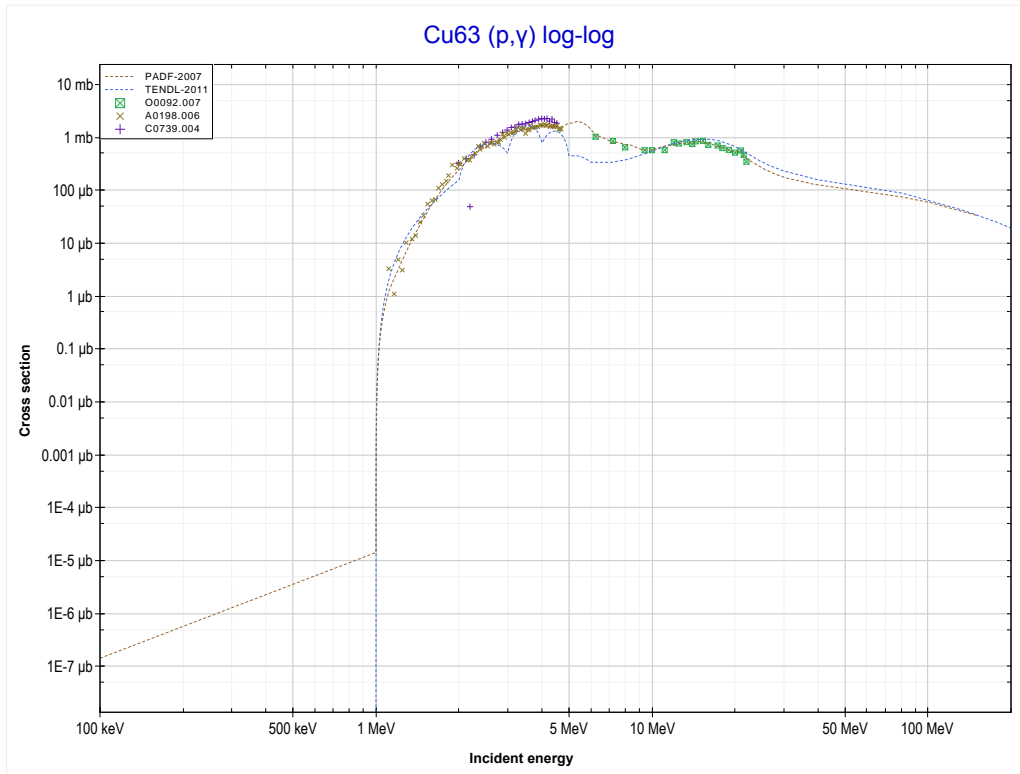
Reaction	Q-Value
Cu63(p,t)Cu61	-11256.74 keV
Cu63(p,n+d)Cu61	-17513.97 keV
Cu63(p,2n+p)Cu61	-19738.53 keV

<< 13-AI-27	<b>29-Cu-63</b>	
<< MT41 (p,2n+p)	<b>MT45 (p,n+p+α) or MT5 (Co58 production)</b>	MT102 (p,γ) >>



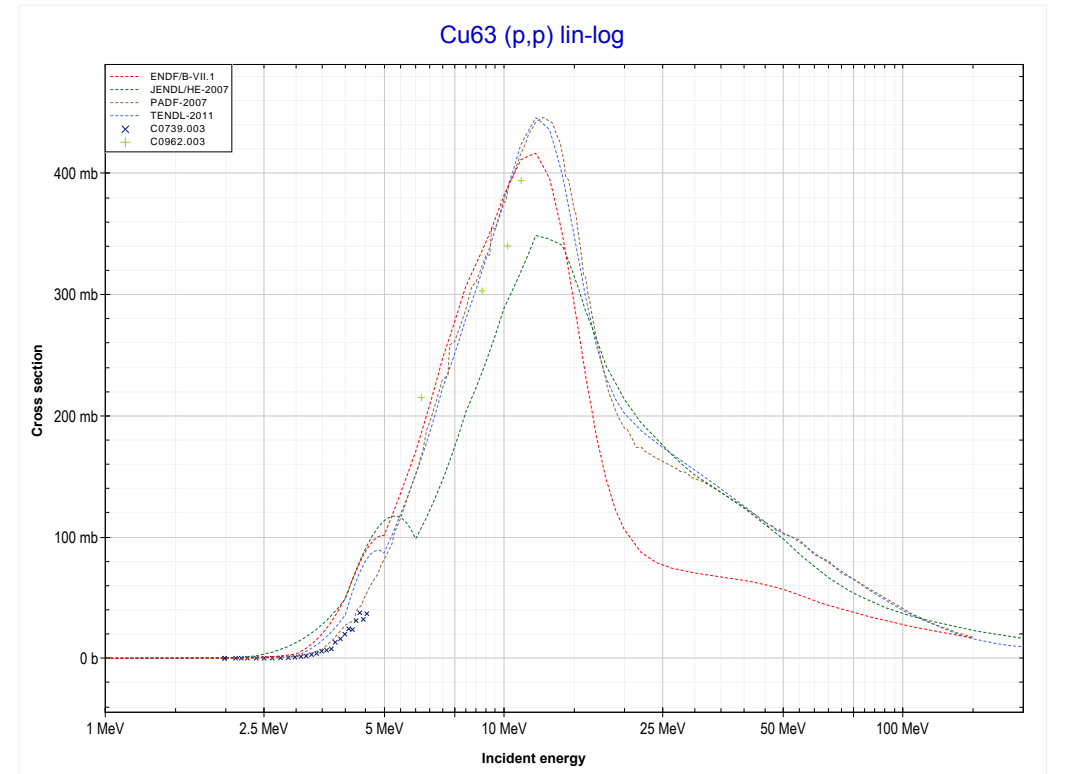
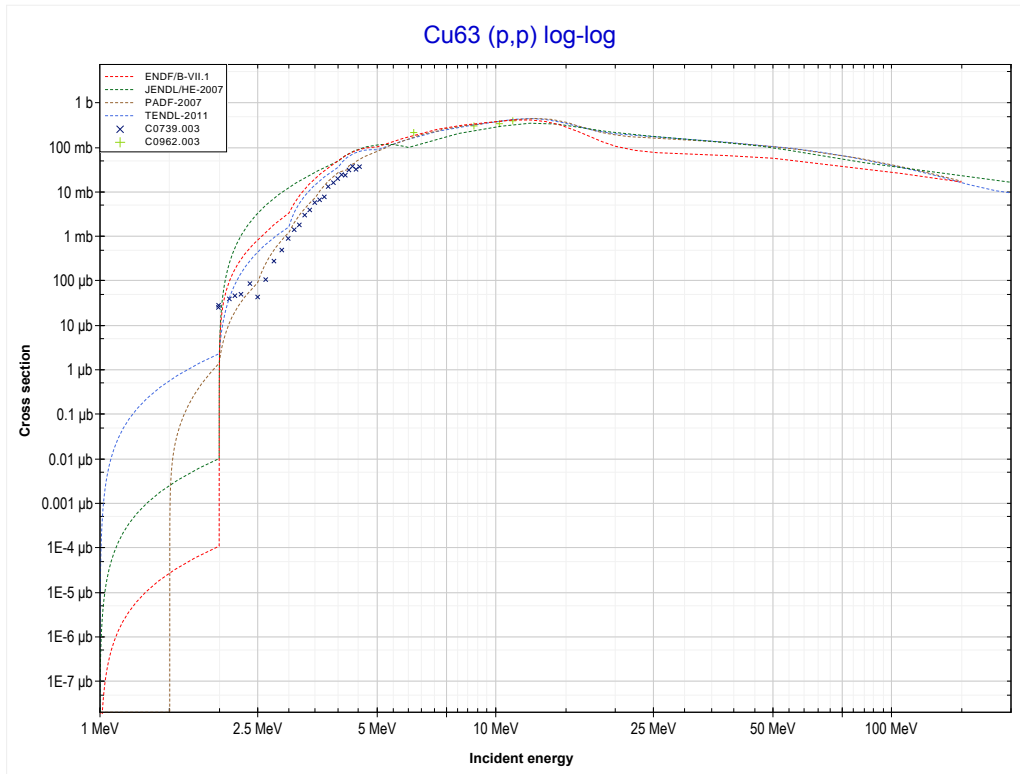
Reaction	Q-Value	Reaction	Q-Value
Cu63(p,d+α)Co58	-14005.27 keV	Cu63(p,n+p+2d)Co58	-40076.36 keV
Cu63(p,n+p+α)Co58	-16229.83 keV	Cu63(p,2n+2p+d)Co58	-42300.93 keV
Cu63(p,t+He3)Co58	-28325.65 keV	Cu63(p,3n+3p)Co58	-44525.49 keV
Cu63(p,p+d+t)Co58	-33819.13 keV		
Cu63(p,n+d+He3)Co58	-34582.88 keV		
Cu63(p,n+2p+t)Co58	-36043.69 keV		
Cu63(p,2n+p+He3)Co58	-36807.45 keV		
Cu63(p,3d)Co58	-37851.79 keV		

<< 28-Ni-64	<b>29-Cu-63</b>	29-Cu-65 >>
<< MT45 (p,n+p+α)	<b>MT102 (p,γ) or MT5 (Zn64 production)</b>	MT103 (p,p) >>



Reaction	Q-Value
Cu63(p,γ)Zn64	7713.07 keV

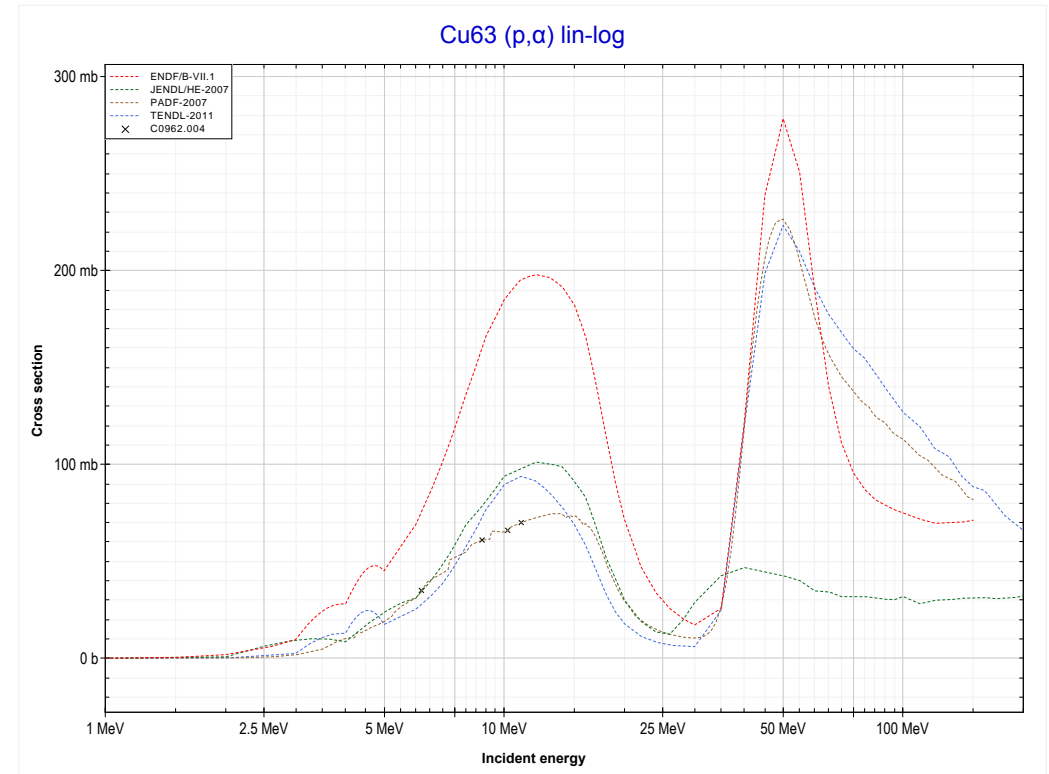
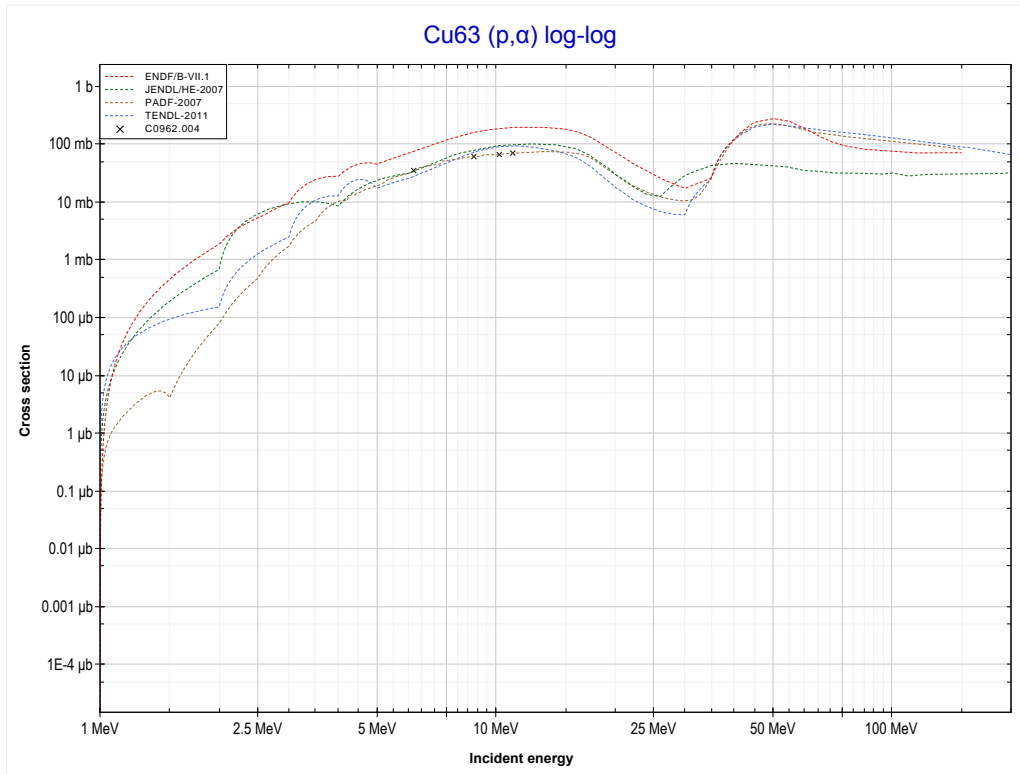
<< 28-Ni-64	<b>29-Cu-63</b>	29-Cu-65 >>
<< MT102 (p, $\gamma$ )	<b>MT103 (p,p) or MT5 (Cu63 production)</b>	MT107 (p, $\alpha$ ) >>



Reaction	Q-Value
Cu63(p,p)Cu63	0.00 keV

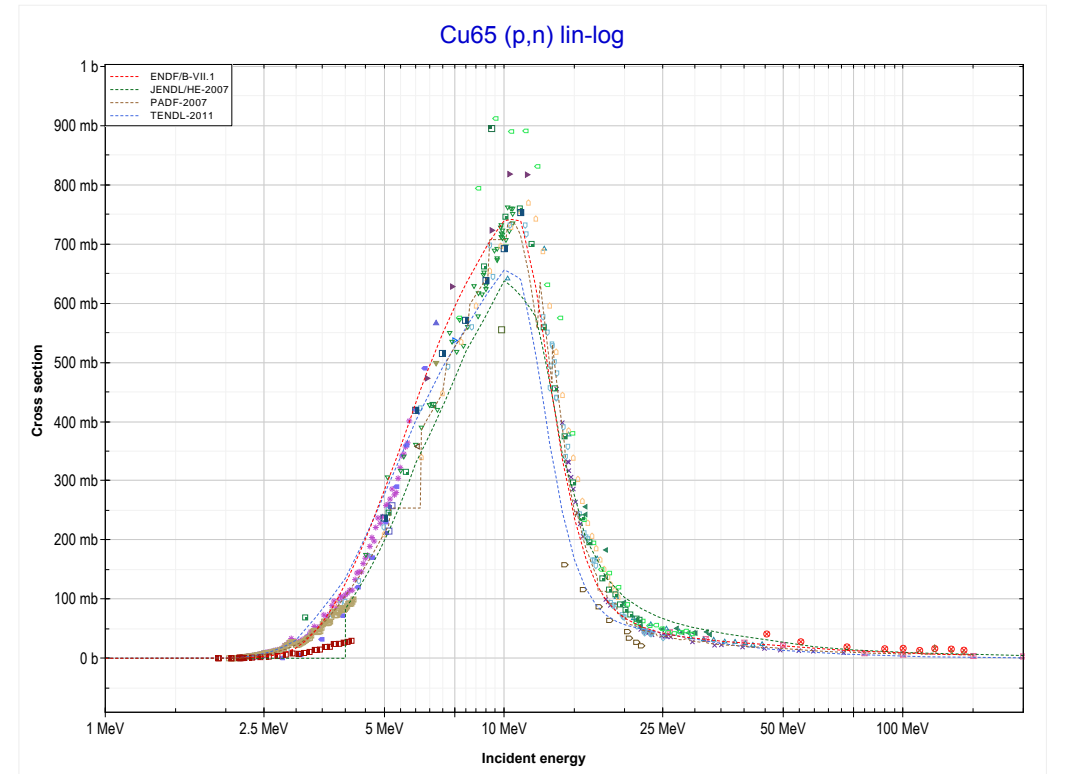
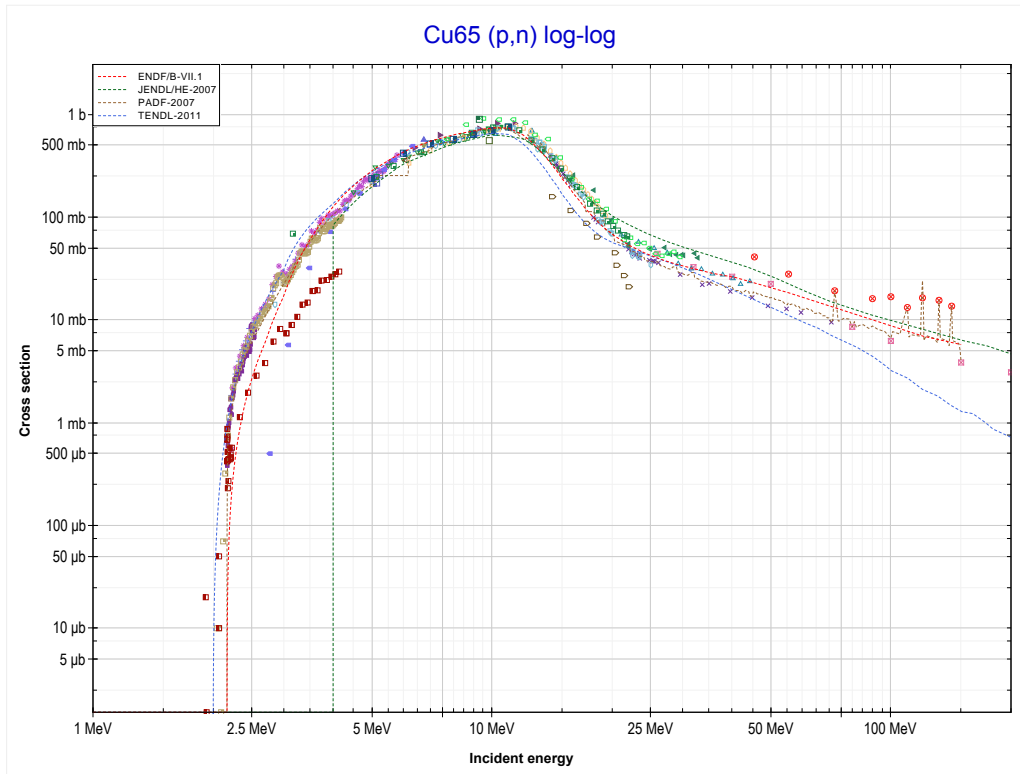


<< 28-Ni-64	<b>29-Cu-63</b>	29-Cu-65 >>
<< MT103 (p,p)	<b>MT107 (p,<math>\alpha</math>) or MT5 (Ni60 production)</b>	MT4 (p,n) >>



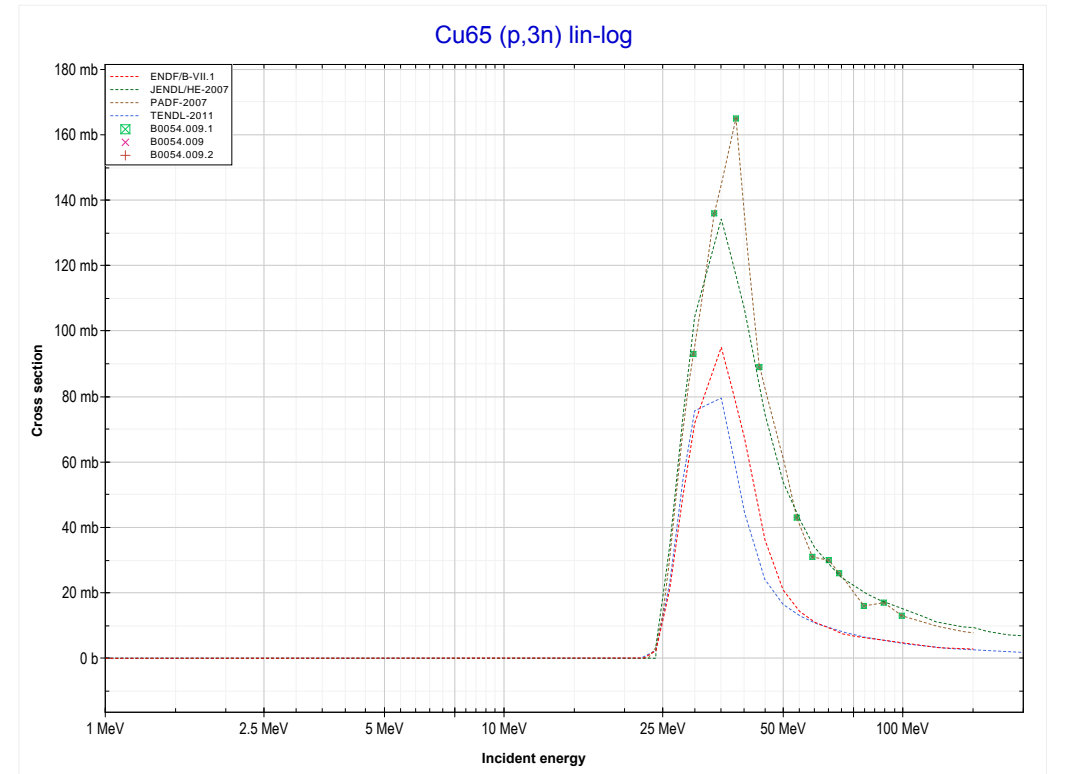
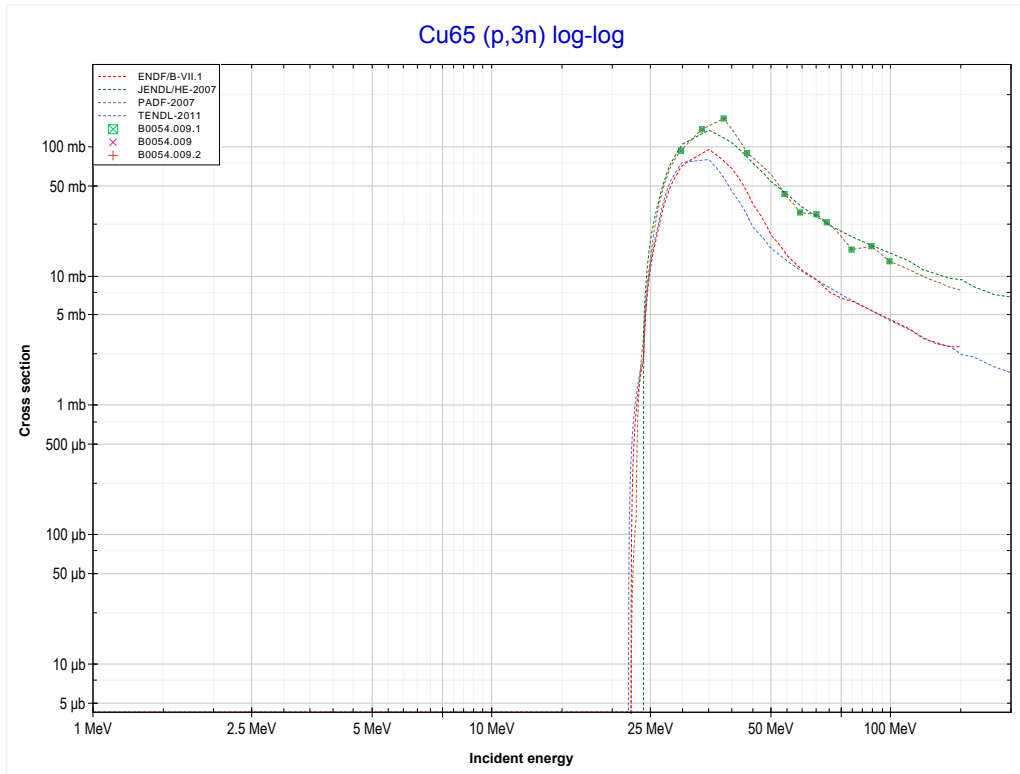
Reaction	Q-Value
Cu63(p, $\alpha$ )Ni60	3756.65 keV
Cu63(p,p+t)Ni60	-16057.21 keV
Cu63(p,n+He3)Ni60	-16820.96 keV
Cu63(p,2d)Ni60	-20089.87 keV
Cu63(p,n+p+d)Ni60	-22314.44 keV
Cu63(p,2n+2p)Ni60	-24539.00 keV

<< 29-Cu-63	<b>29-Cu-65</b>	30-Zn-64 >>
<< MT107 (p, $\alpha$ )	<b>MT4 (p,n) or MT5 (Zn65 production)</b>	MT17 (p,3n) >>



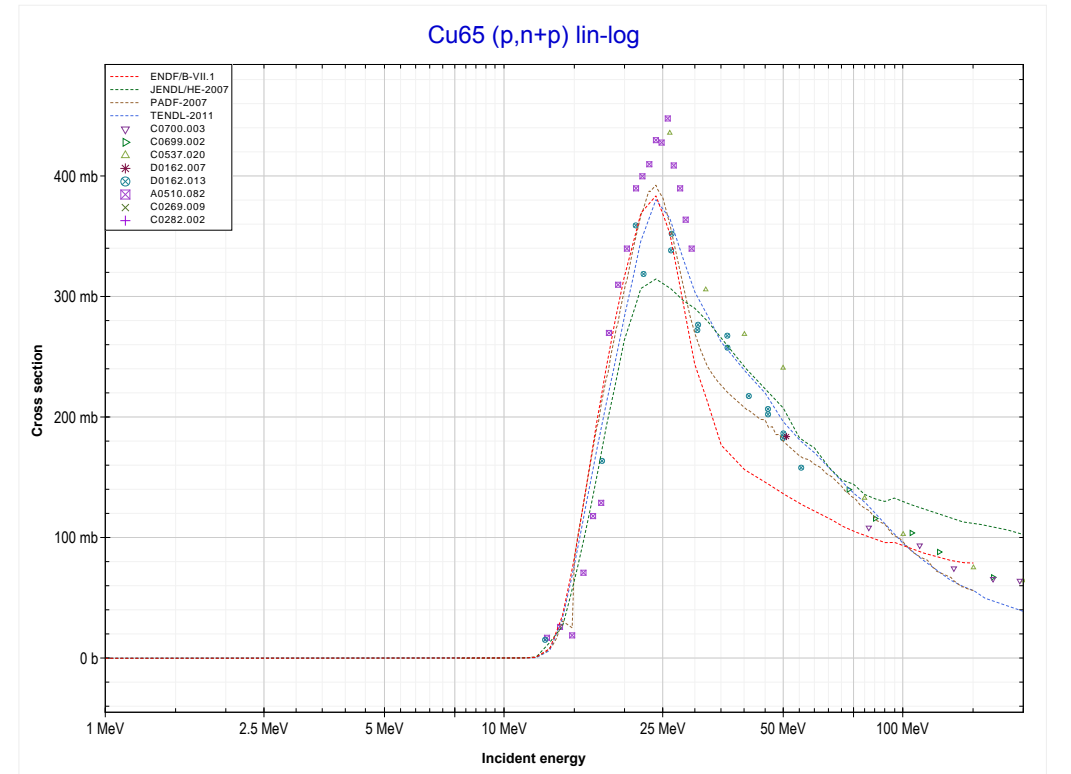
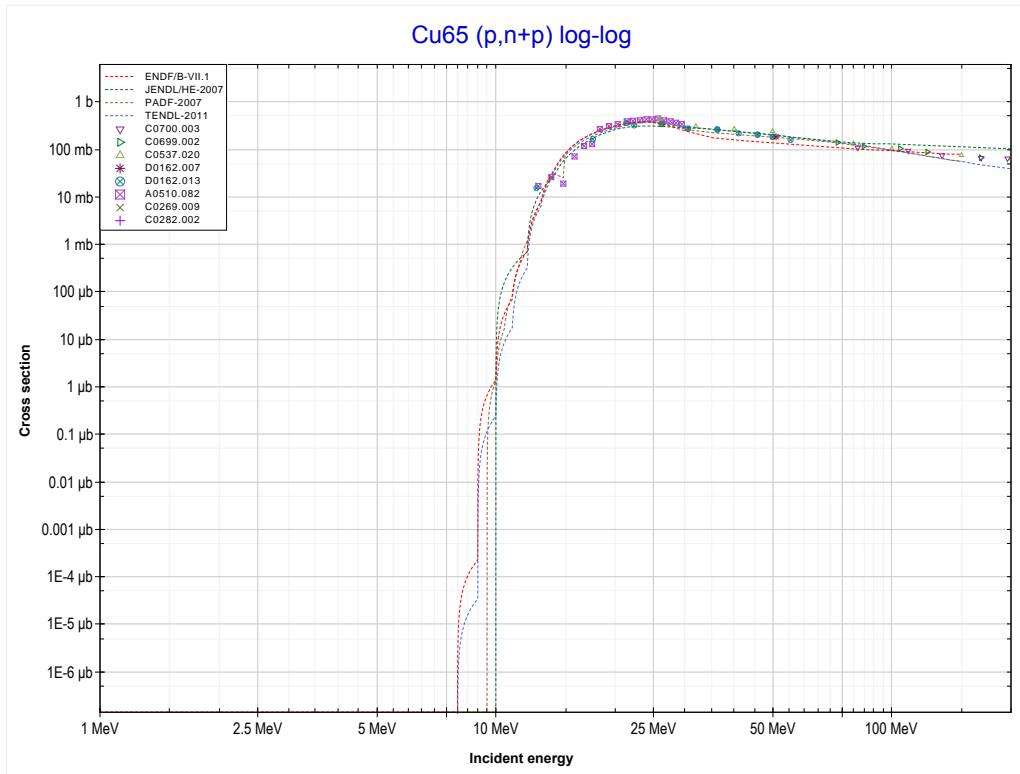
Reaction	Q-Value
Cu65(p,n)Zn65	-2134.45 keV

<< 29-Cu-63	<b>29-Cu-65</b>	30-Zn-68 >>
<< MT4 (p,n)	<b>MT17 (p,3n) or MT5 (Zn63 production)</b>	MT28 (p,n+p) >>



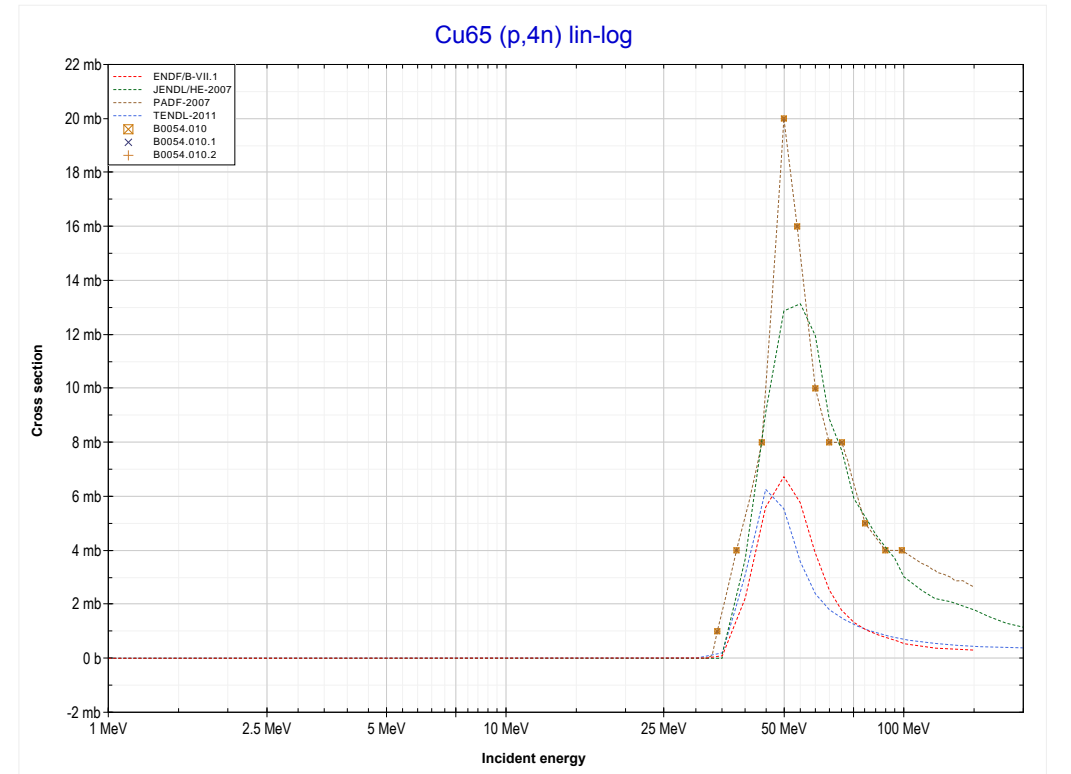
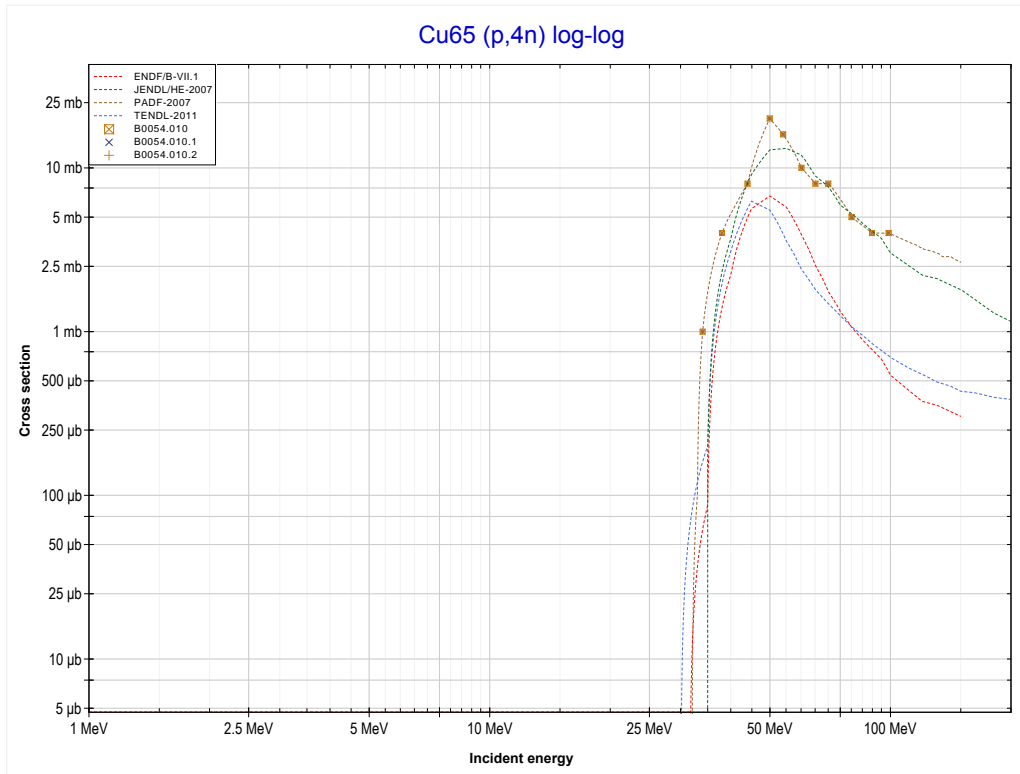
Reaction	Q-Value
Cu65(p,3n)Zn63	-21975.68 keV

<< 28-Ni-60	<b>29-Cu-65</b>	30-Zn-64 >>
<< MT17 (p,3n)	<b>MT28 (p,n+p) or MT5 (Cu64 production)</b>	MT37 (p,4n) >>



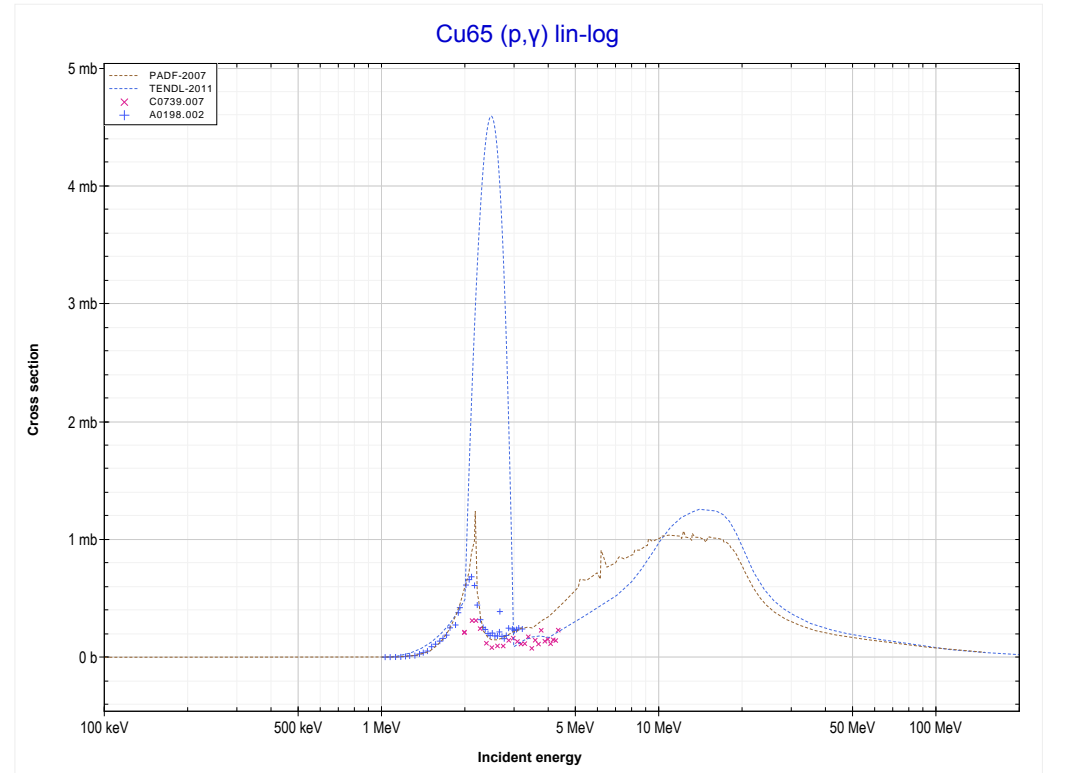
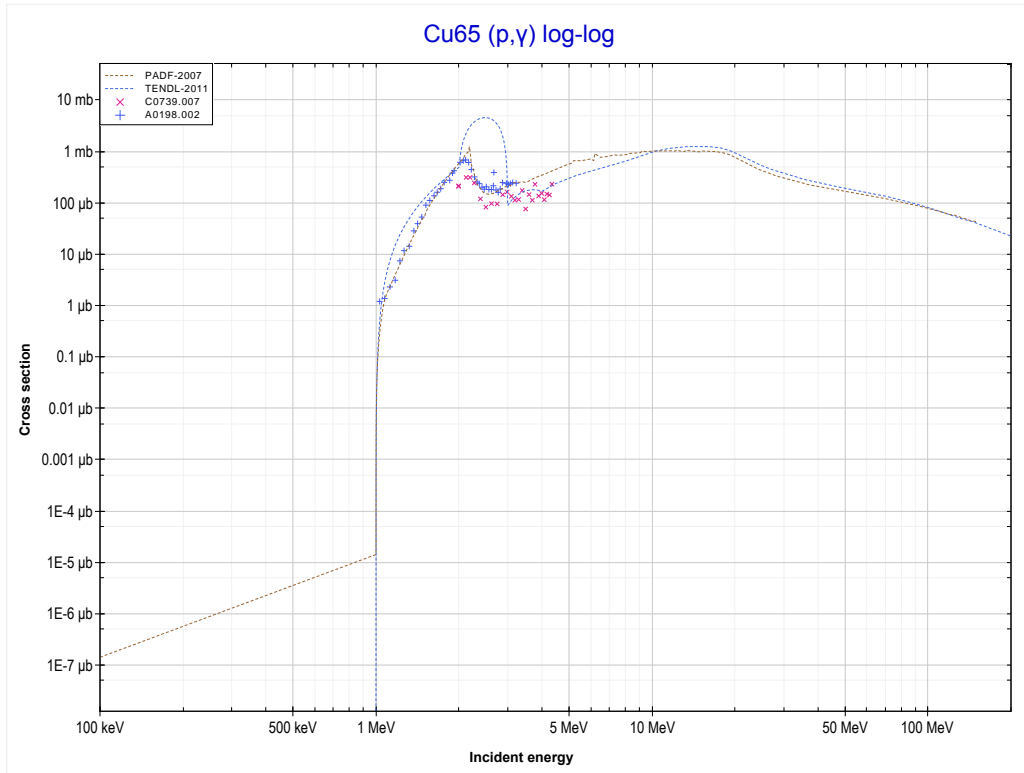
Reaction	Q-Value
Cu65(p,d)Cu64	-7686.25 keV
Cu65(p,n+p)Cu64	-9910.82 keV

<< 27-Co-59	<b>29-Cu-65</b>	31-Ga-69 >>
<< MT28 (p,n+p)	<b>MT37 (p,4n) or MT5 (Zn62 production)</b>	MT102 (p, $\gamma$ ) >>



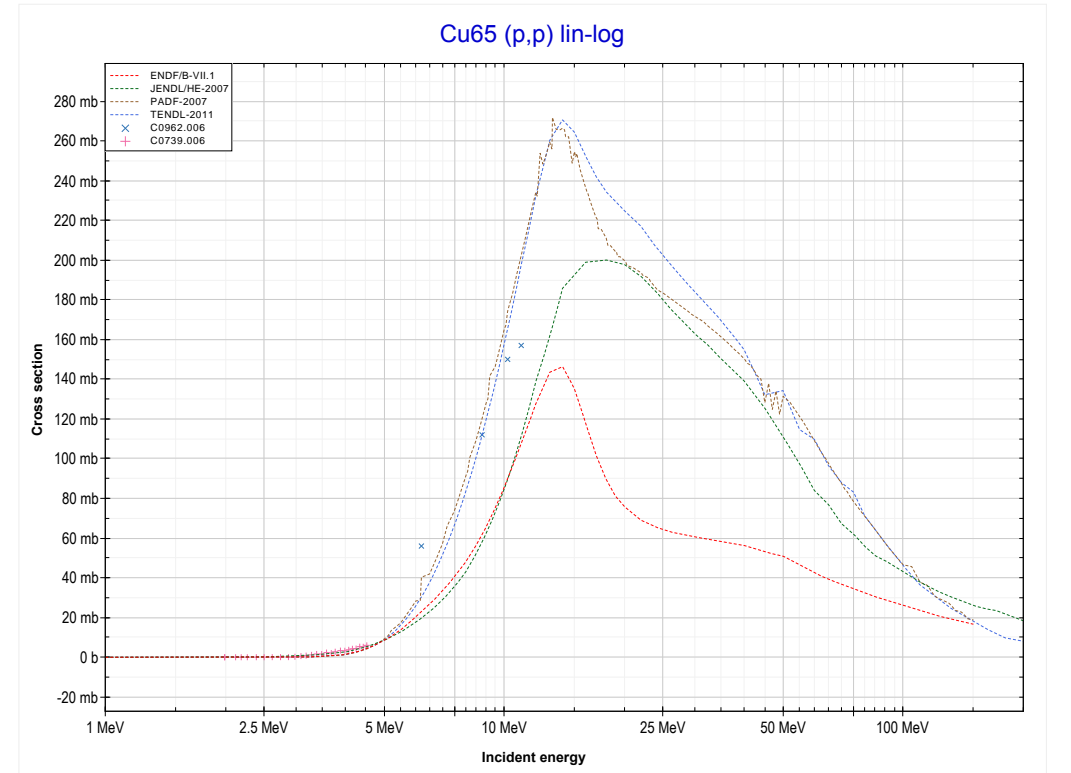
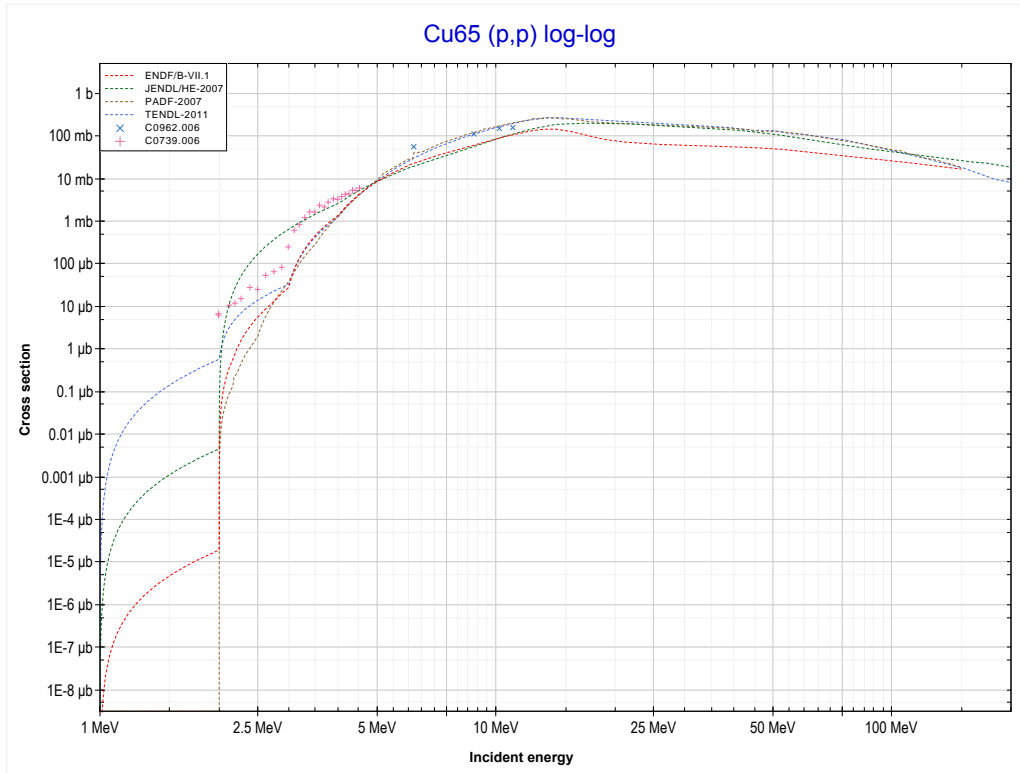
Reaction	Q-Value
Cu65(p,4n)Zn62	-31089.00 keV

<< 29-Cu-63	<b>29-Cu-65</b>	30-Zn-64 >>
<< MT37 (p,4n)	<b>MT102 (p,<math>\gamma</math>) or MT5 (Zn66 production)</b>	MT103 (p,p) >>



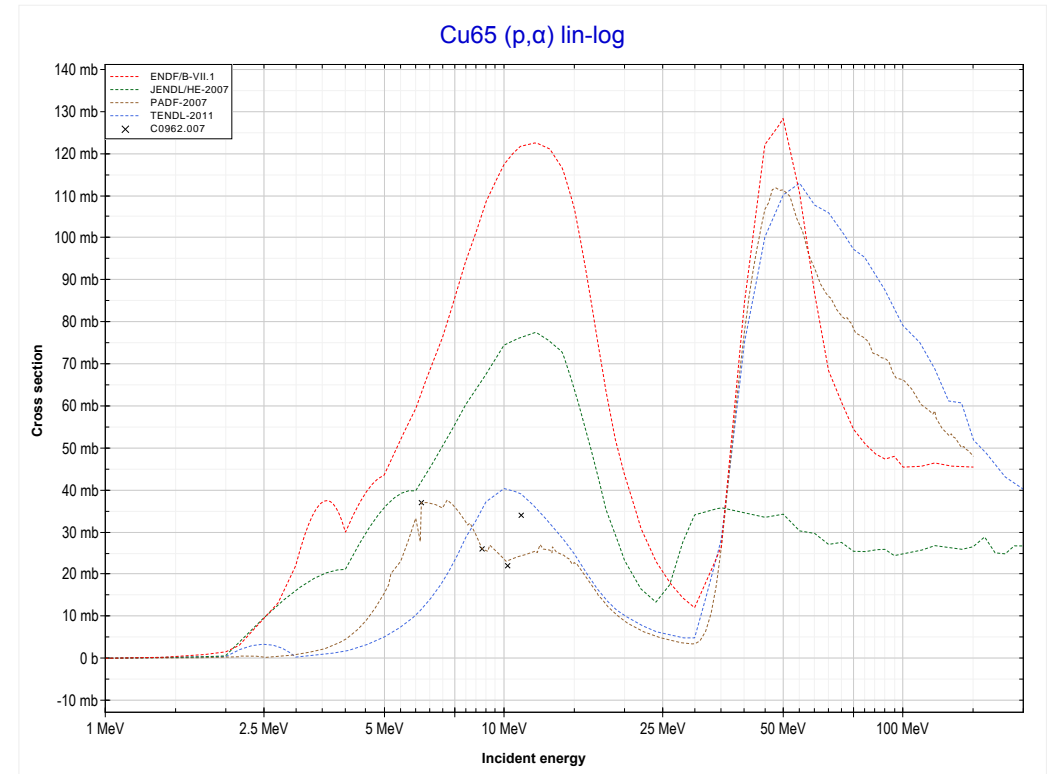
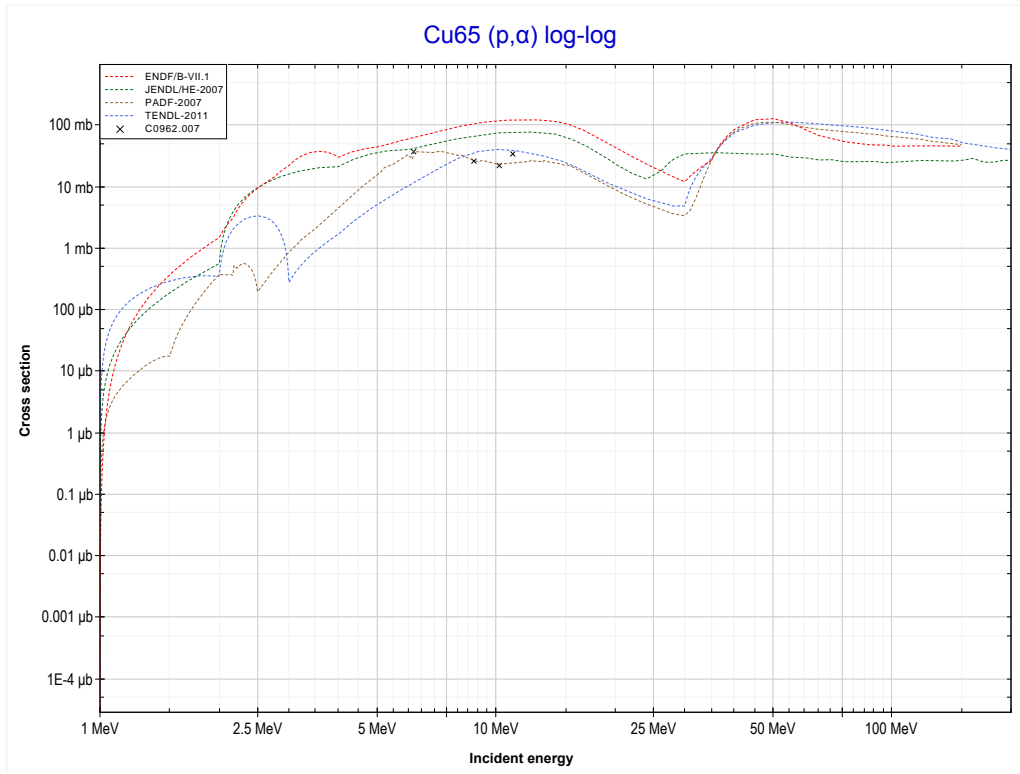
Reaction	Q-Value
Cu65(p, $\gamma$ )Zn66	8924.67 keV

<< 29-Cu-63	<b>29-Cu-65</b>	41-Nb-93 >>
<< MT102 (p, $\gamma$ )	<b>MT103 (p,p) or MT5 (Cu65 production)</b>	MT107 (p, $\alpha$ ) >>



Reaction	Q-Value
Cu65(p,p)Cu65	0.00 keV

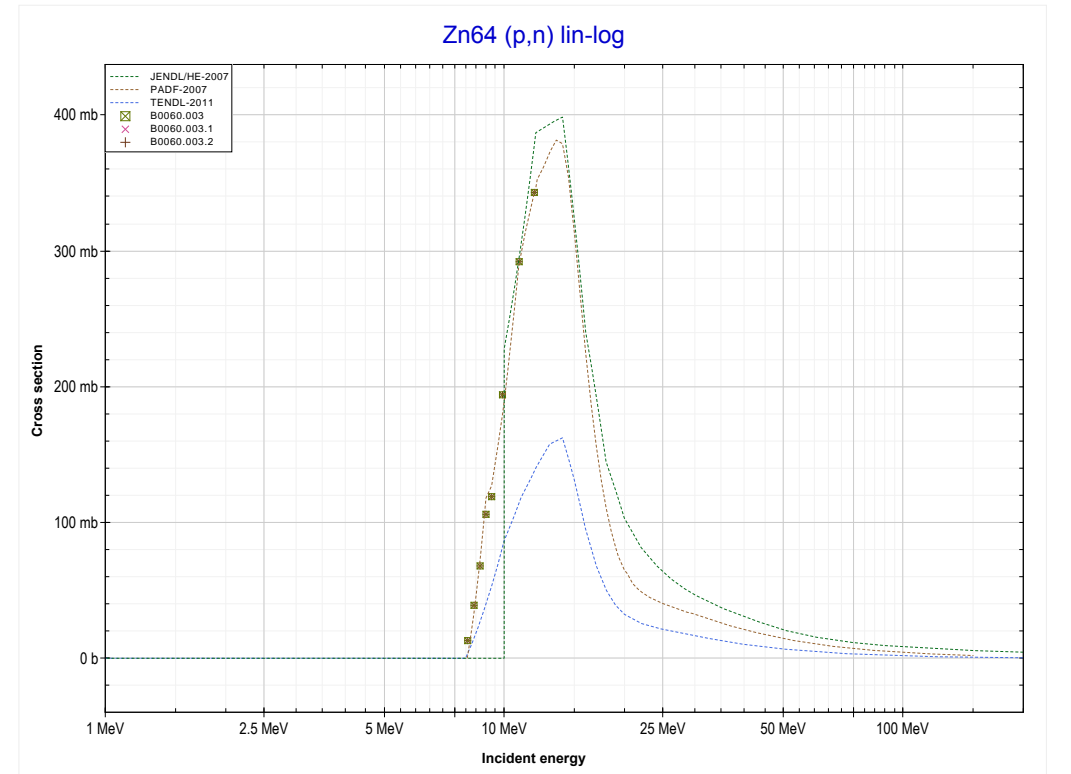
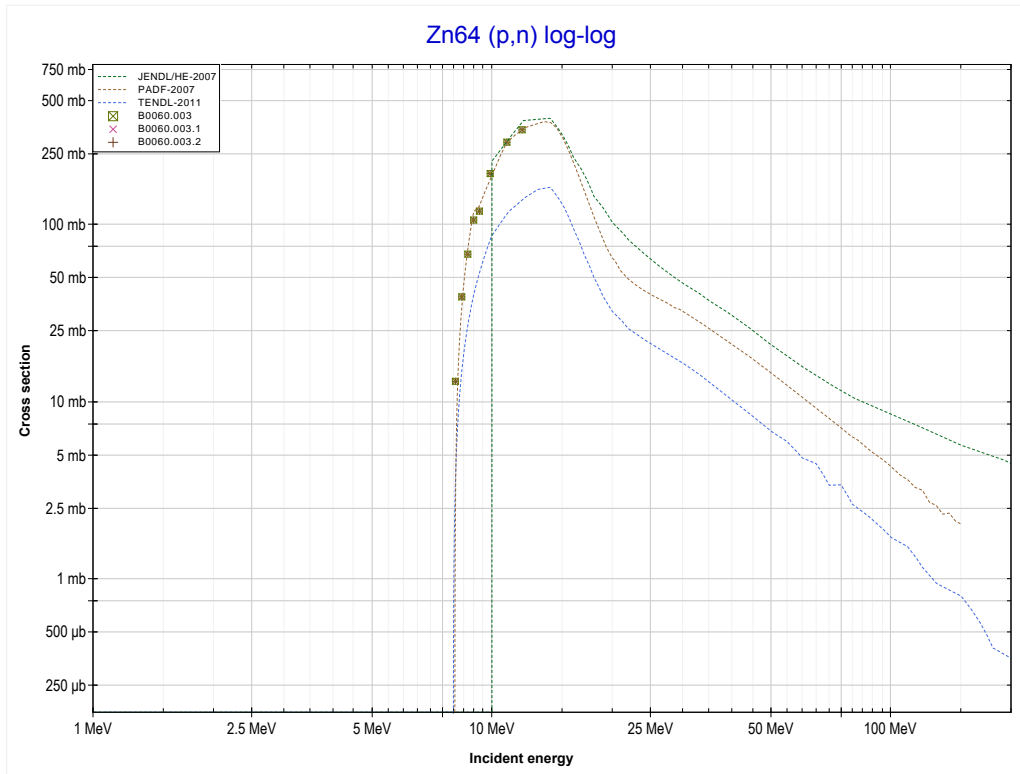
<< 29-Cu-63	<b>29-Cu-65</b>	30-Zn-64 >>
<< MT103 (p,p)	<b>MT107 (p,<math>\alpha</math>) or MT5 (Ni62 production)</b>	MT4 (p,n) >>



Reaction	Q-Value
Cu65(p, $\alpha$ )Ni62	4346.45 keV
Cu65(p,p+t)Ni62	-15467.41 keV
Cu65(p,n+He3)Ni62	-16231.16 keV
Cu65(p,2d)Ni62	-19500.07 keV
Cu65(p,n+p+d)Ni62	-21724.64 keV
Cu65(p,2n+2p)Ni62	-23949.20 keV

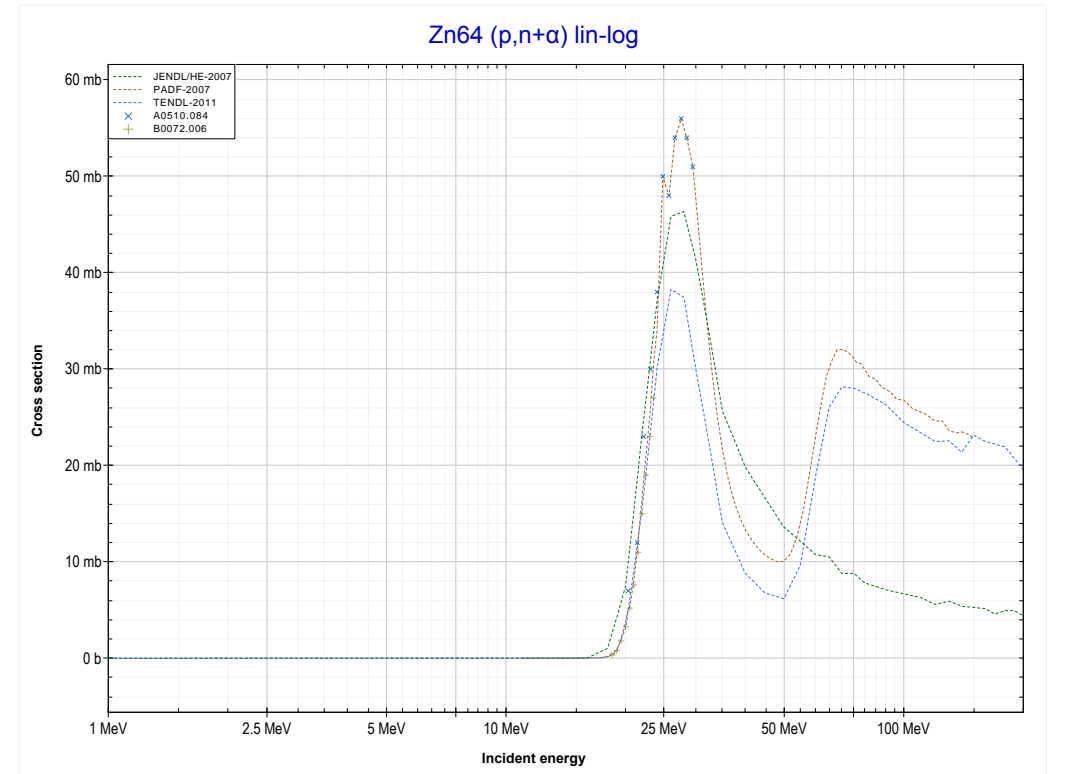
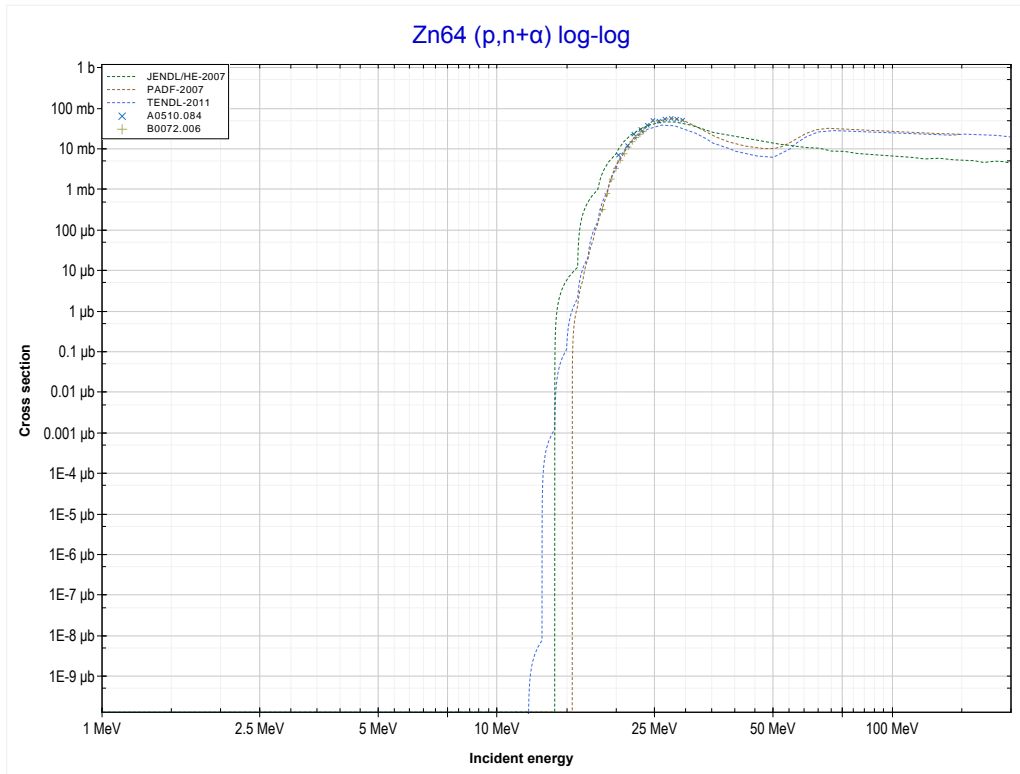


<< 29-Cu-65	<b>30-Zn-64</b>	30-Zn-66 >>
<< MT107 (p, $\alpha$ )	<b>MT4 (p,n) or MT5 (Ga64 production)</b>	MT22 (p,n+ $\alpha$ ) >>



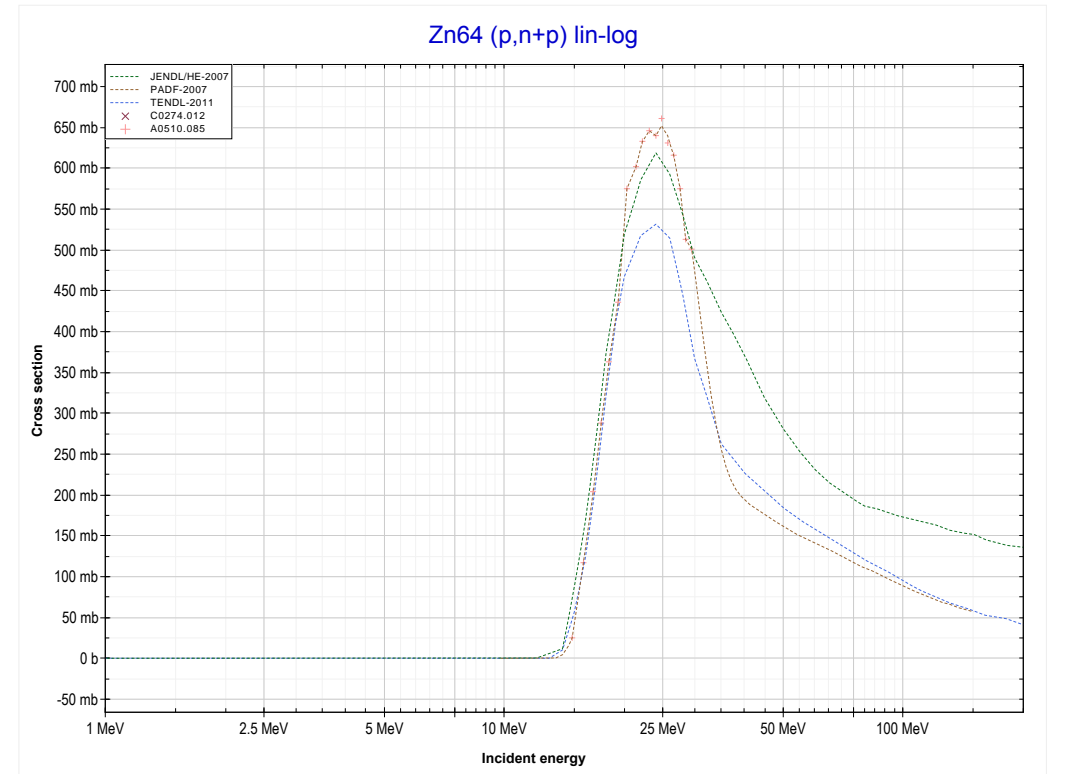
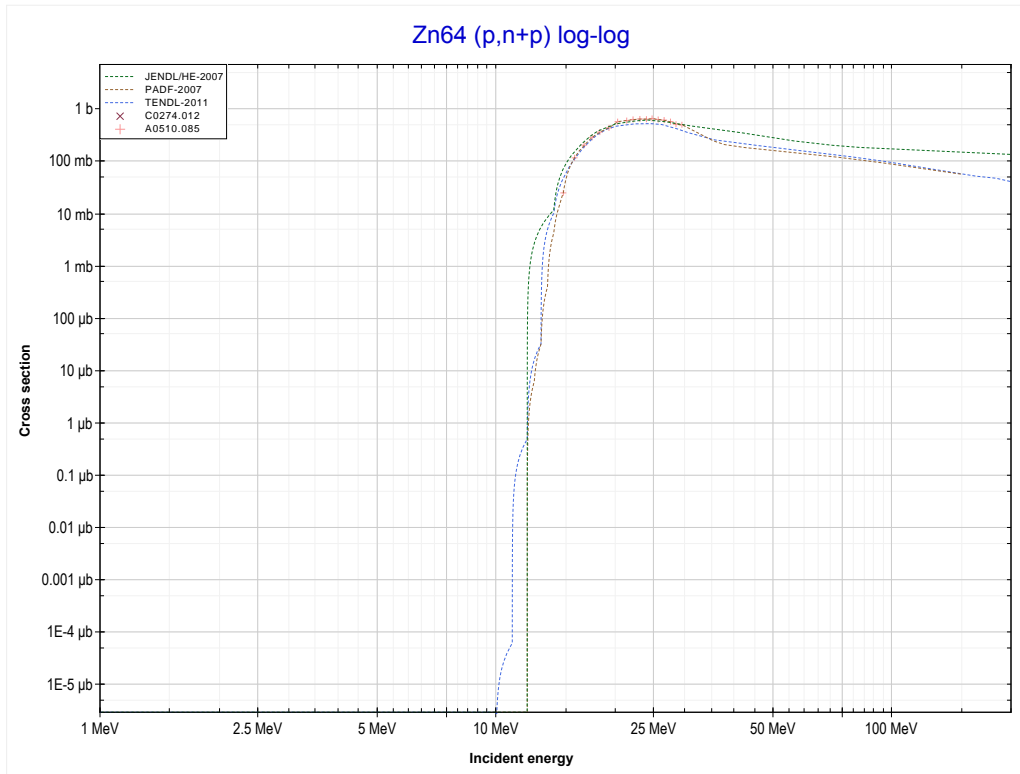
Reaction	Q-Value
Zn64(p,n)Ga64	-7951.65 keV

<< 28-Ni-64	<b>30-Zn-64</b>	30-Zn-68 >>
<< MT4 (p,n)	<b>MT22 (p,n+α) or MT5 (Cu60 production)</b>	MT28 (p,n+p) >>



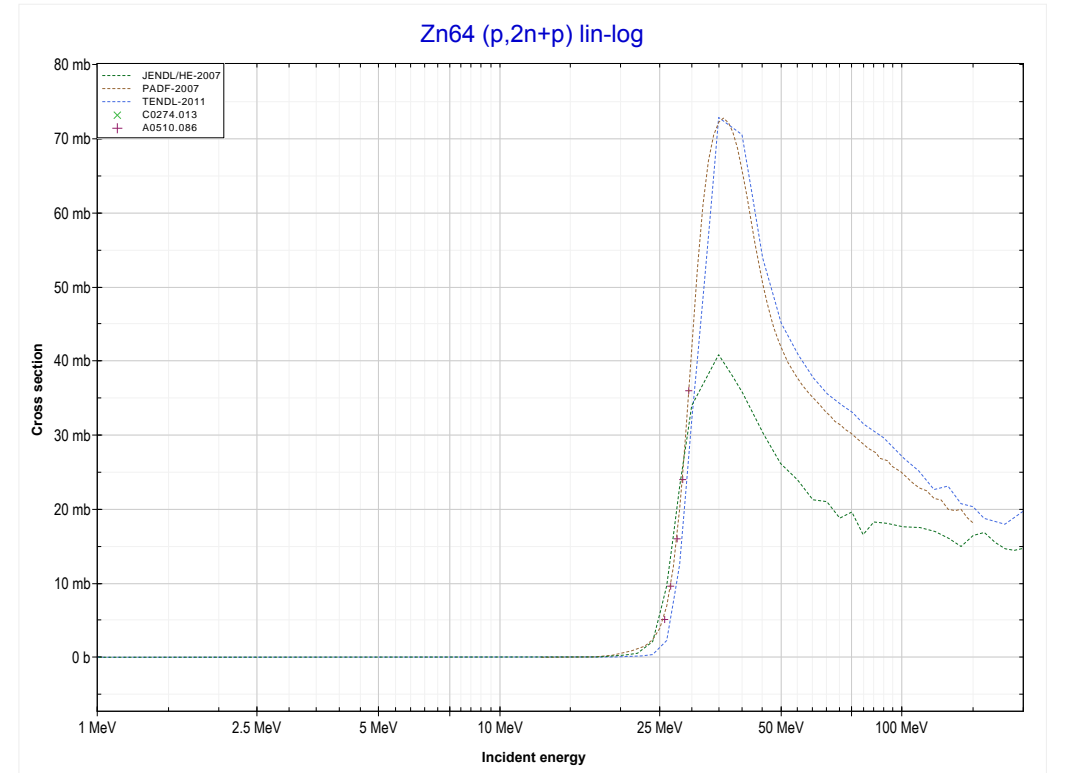
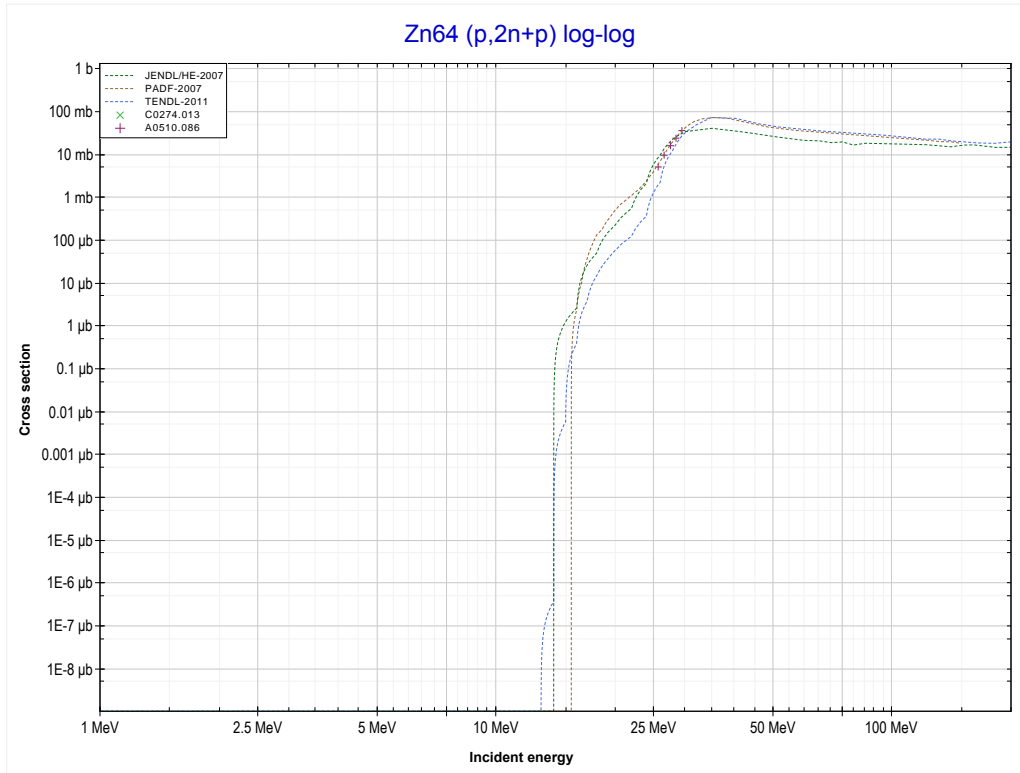
Reaction	Q-Value
Zn64(p,n+α)Cu60	-10866.76 keV
Zn64(p,d+t)Cu60	-28456.06 keV
Zn64(p,n+p+t)Cu60	-30680.62 keV
Zn64(p,2n+He3)Cu60	-31444.38 keV
Zn64(p,n+2d)Cu60	-34713.29 keV
Zn64(p,2n+p+d)Cu60	-36937.86 keV
Zn64(p,3n+2p)Cu60	-39162.42 keV

<< 29-Cu-65	<b>30-Zn-64</b>	30-Zn-66 >>
<< MT22 (p,n+α)	<b>MT28 (p,n+p) or MT5 (Zn63 production)</b>	MT41 (p,2n+p) >>



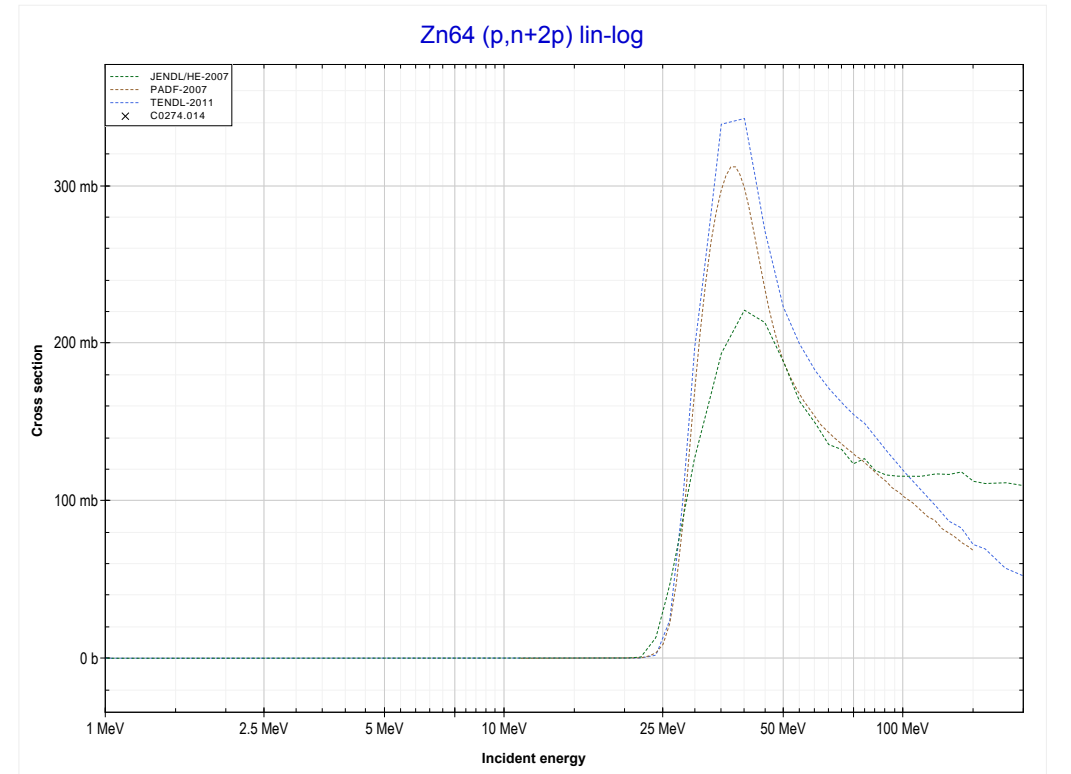
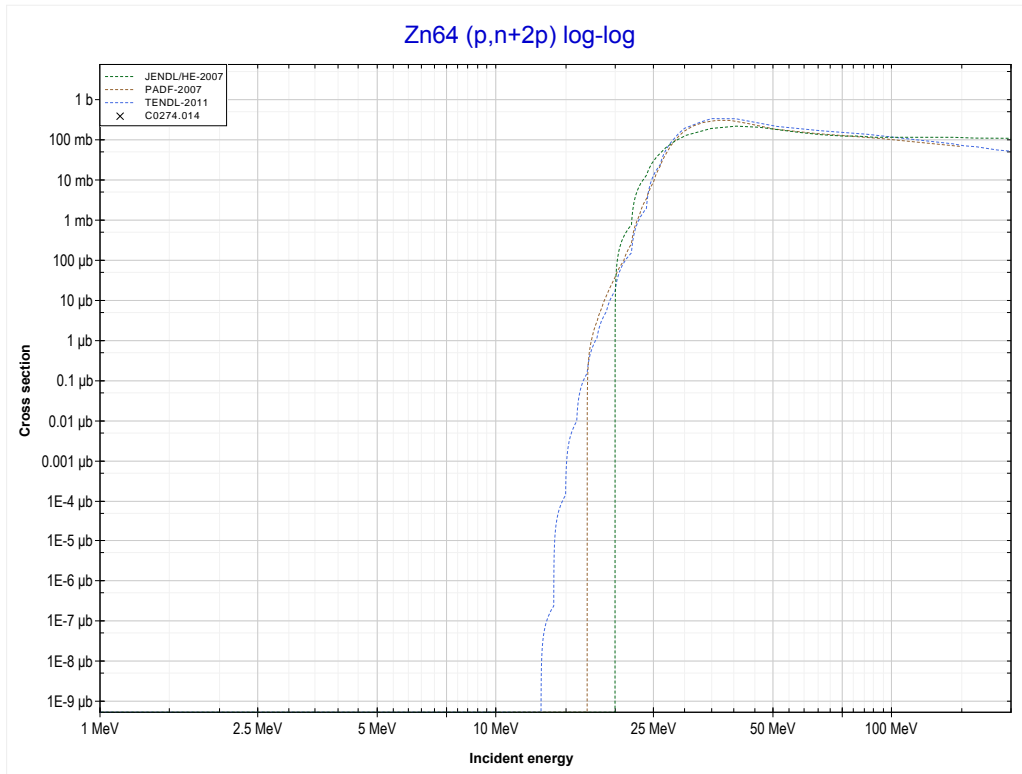
Reaction	Q-Value
Zn64(p,d)Zn63	-9637.35 keV
Zn64(p,n+p)Zn63	-11861.92 keV

<< 29-Cu-63	<b>30-Zn-64</b>	31-Ga-69 >>
<< MT28 (p,n+p)	<b>MT41 (p,2n+p) or MT5 (Zn62 production)</b>	MT44 (p,n+2p) >>



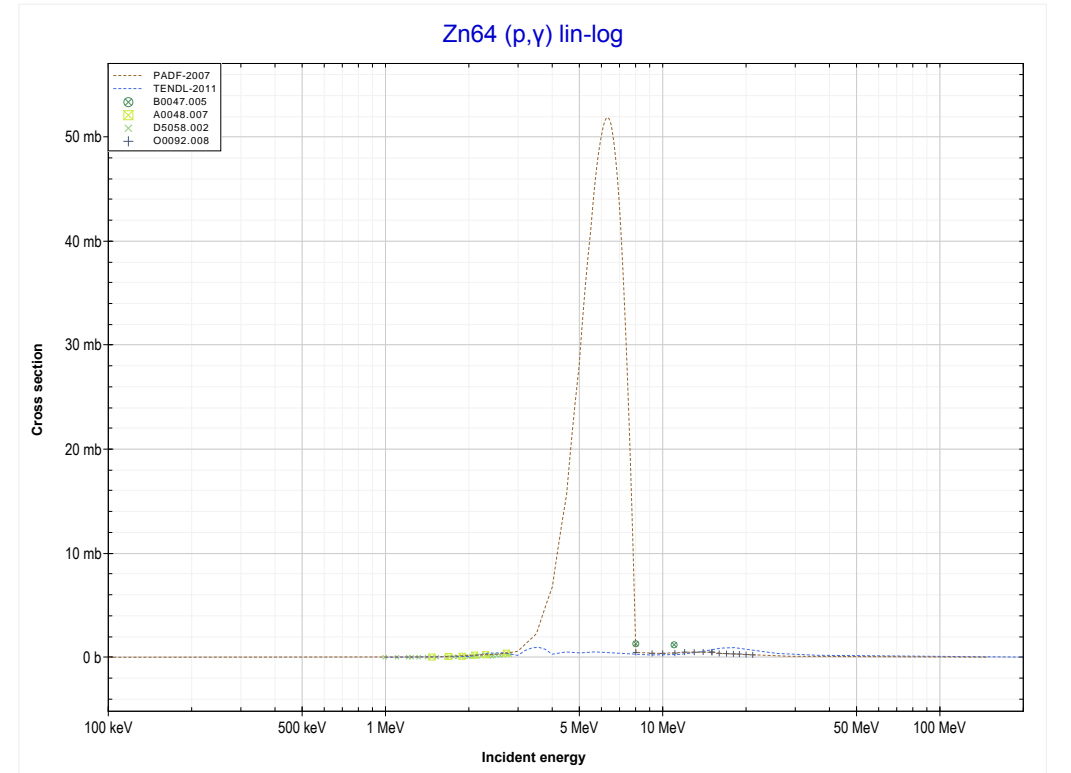
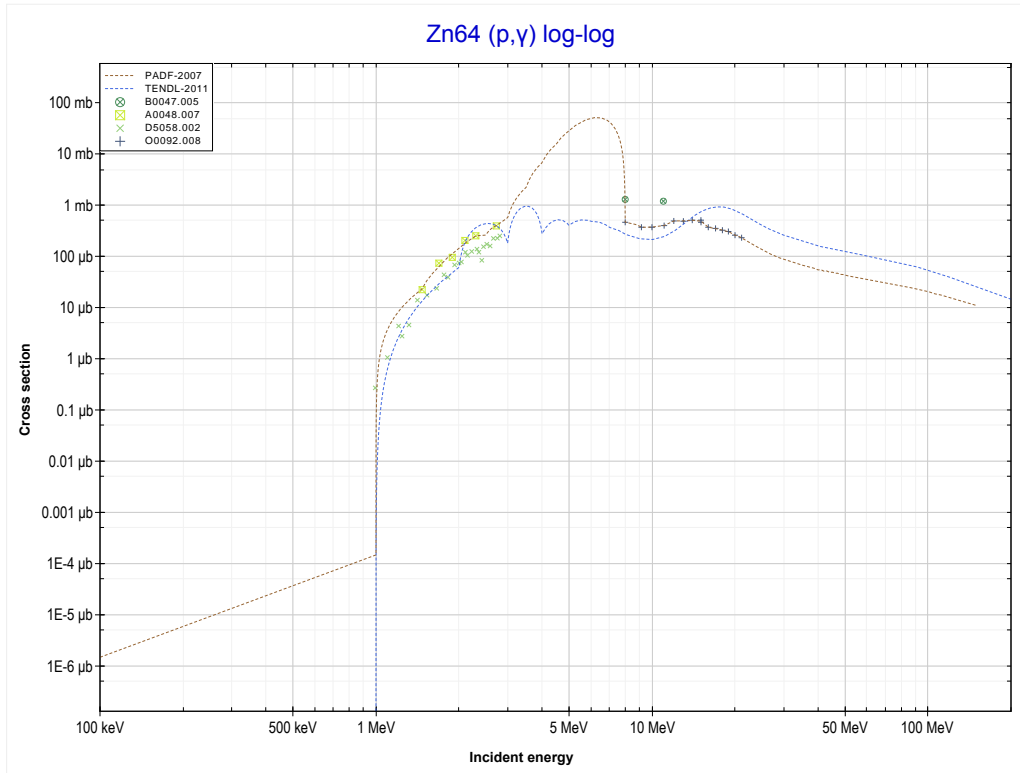
Reaction	Q-Value
Zn64(p,t)Zn62	-12493.44 keV
Zn64(p,n+d)Zn62	-18750.67 keV
Zn64(p,2n+p)Zn62	-20975.23 keV

<< 28-Ni-60	<b>30-Zn-64</b>	31-Ga-71 >>
<< MT41 (p,2n+p)	<b>MT44 (p,n+2p) or MT5 (Cu62 production)</b>	MT102 (p, $\gamma$ ) >>



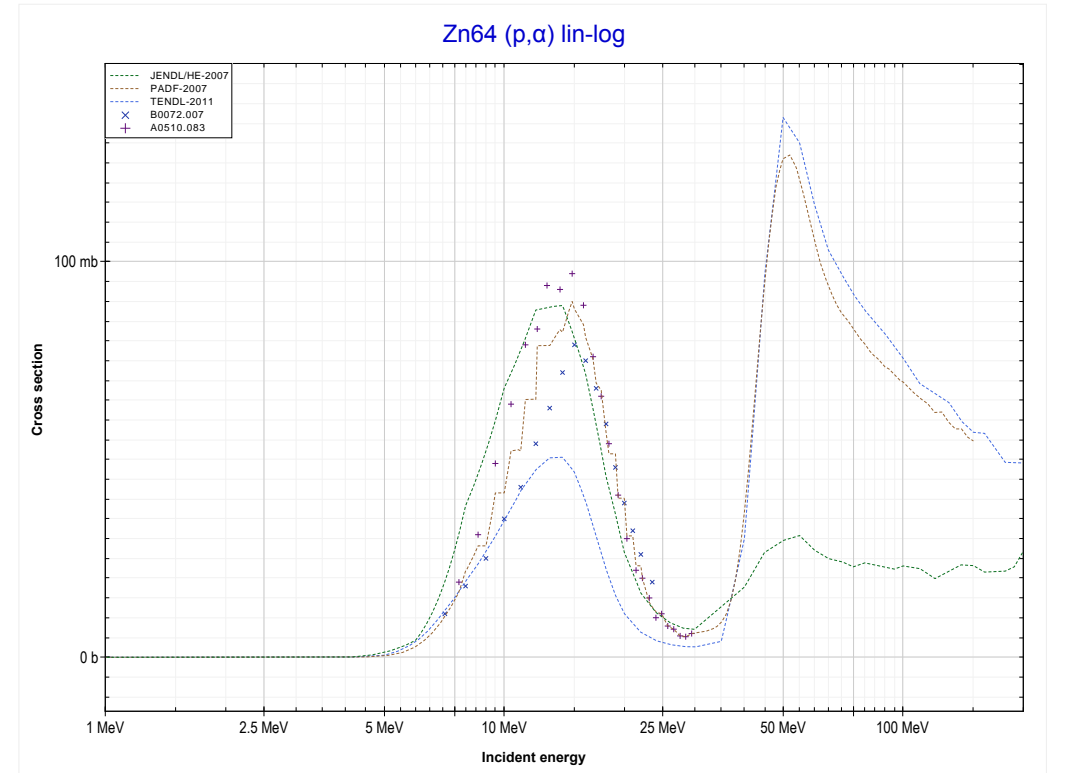
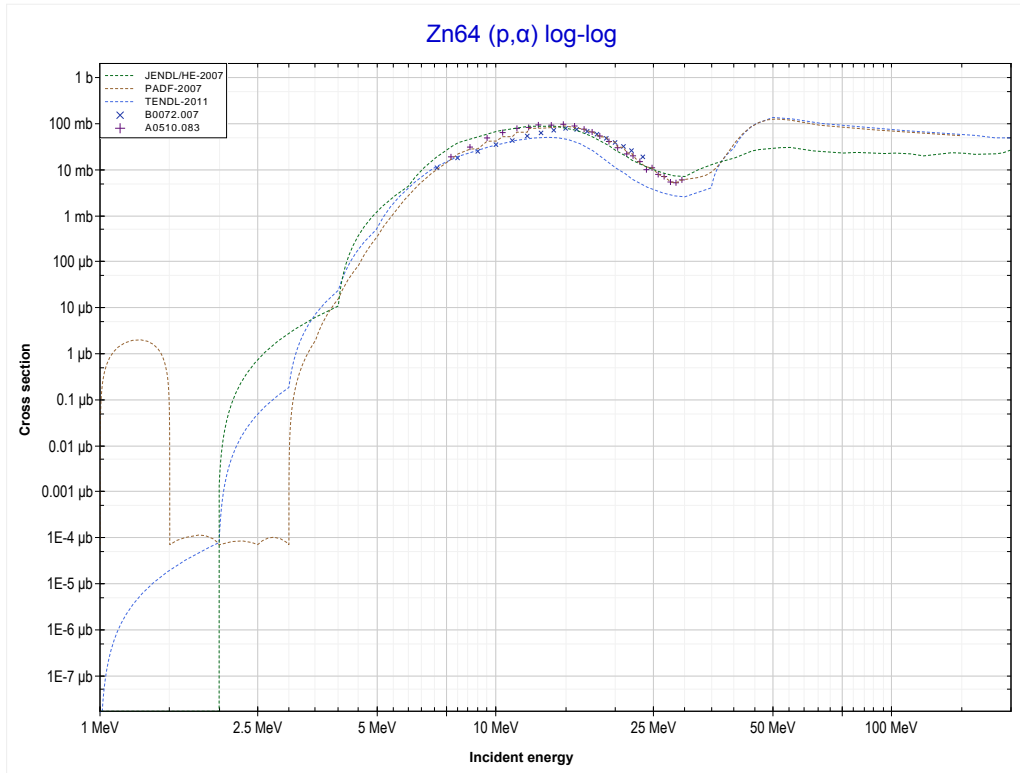
Reaction	Q-Value
Zn64(p,He3)Cu62	-10847.84 keV
Zn64(p,p+d)Cu62	-16341.32 keV
Zn64(p,n+2p)Cu62	-18565.89 keV

<< 29-Cu-65	<b>30-Zn-64</b>	30-Zn-66 >>
<< MT44 (p,n+2p)	<b>MT102 (p,<math>\gamma</math>) or MT5 (Ga65 production)</b>	MT107 (p, $\alpha$ ) >>



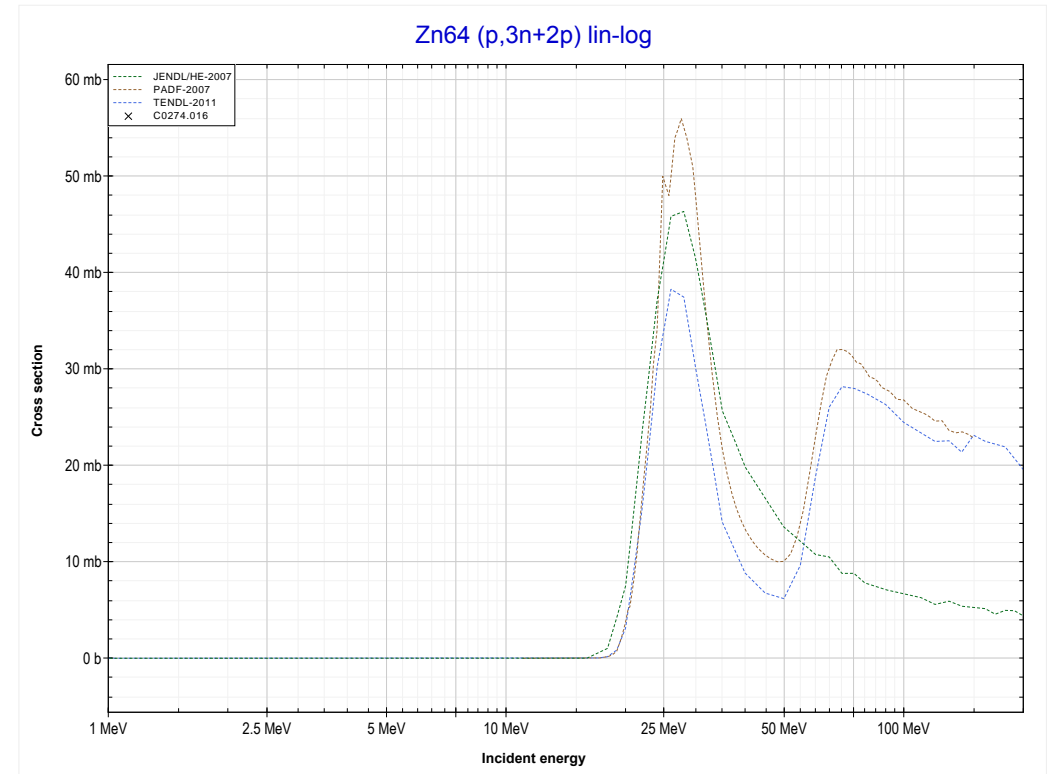
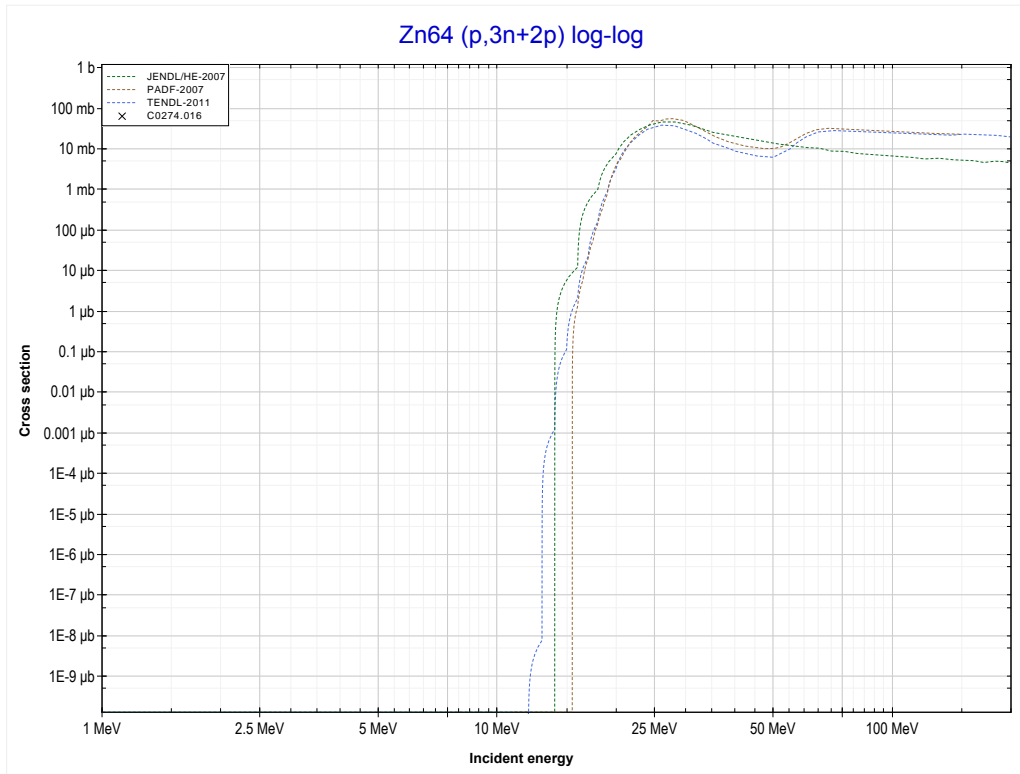
Reaction	Q-Value
Zn64(p, $\gamma$ )Ga65	3942.57 keV

<< 29-Cu-65	<b>30-Zn-64</b>	30-Zn-67 >>
<< MT102 (p, $\gamma$ )	<b>MT107 (p,<math>\alpha</math>) or MT5 (Cu61 production)</b>	MT179 (p,3n+2p) >>



Reaction	Q-Value
Zn64(p, $\alpha$ )Cu61	844.05 keV
Zn64(p,p+t)Cu61	-18969.81 keV
Zn64(p,n+He3)Cu61	-19733.56 keV
Zn64(p,2d)Cu61	-23002.47 keV
Zn64(p,n+p+d)Cu61	-25227.04 keV
Zn64(p,2n+2p)Cu61	-27451.60 keV

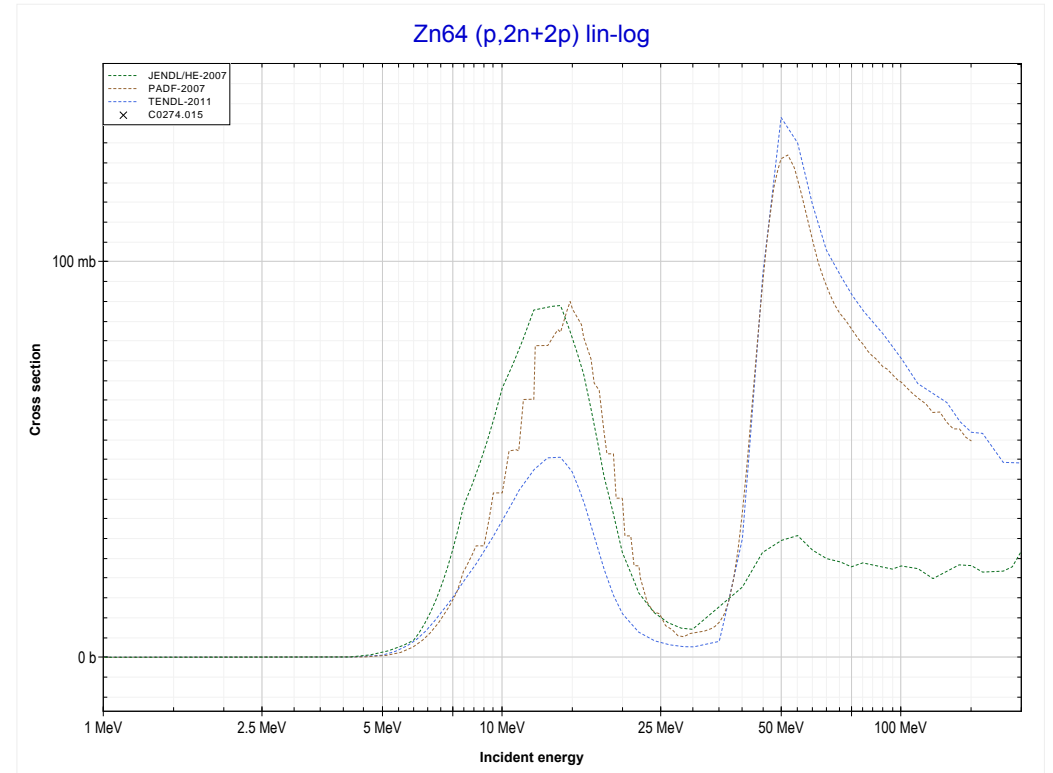
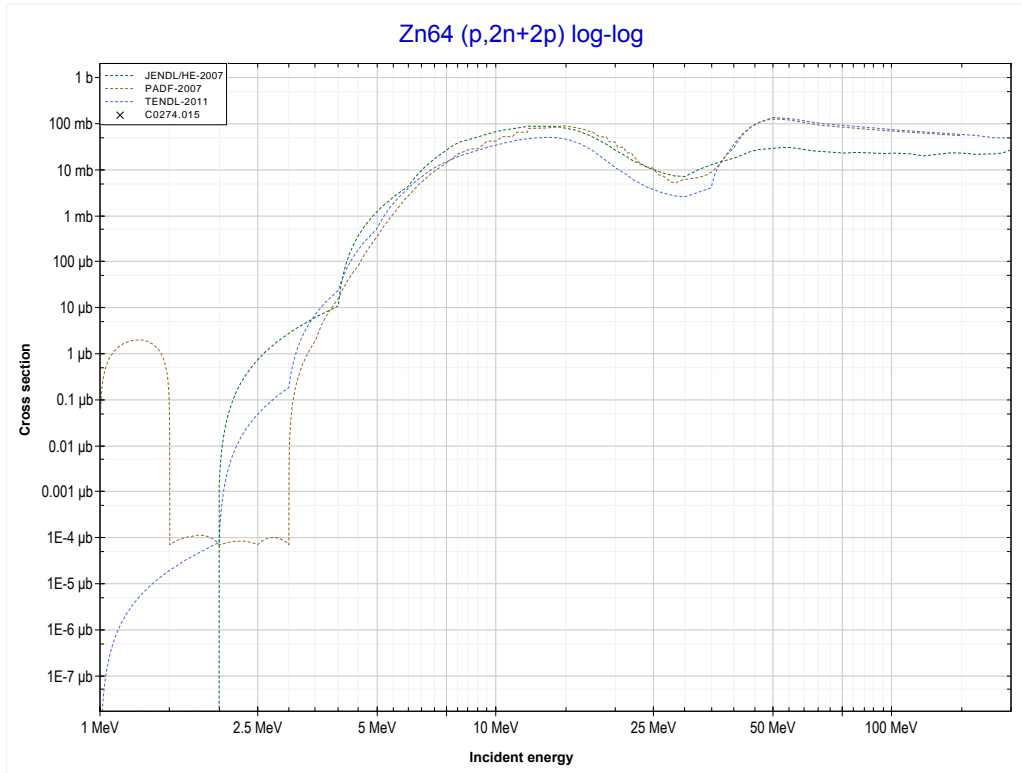
<< 12-Mg-26	<b>30-Zn-64</b>	31-Ga-69 >>
<< MT107 (p, $\alpha$ )	<b>MT179 (p,3n+2p) or MT5 (Cu60 production)</b>	MT190 (p,2n+2p) >>



Reaction	Q-Value
Zn64(p,n+ $\alpha$ )Cu60	-10866.76 keV
Zn64(p,d+t)Cu60	-28456.06 keV
Zn64(p,n+p+t)Cu60	-30680.62 keV
Zn64(p,2n+He3)Cu60	-31444.38 keV
Zn64(p,n+2d)Cu60	-34713.29 keV
Zn64(p,2n+p+d)Cu60	-36937.86 keV
Zn64(p,3n+2p)Cu60	-39162.42 keV

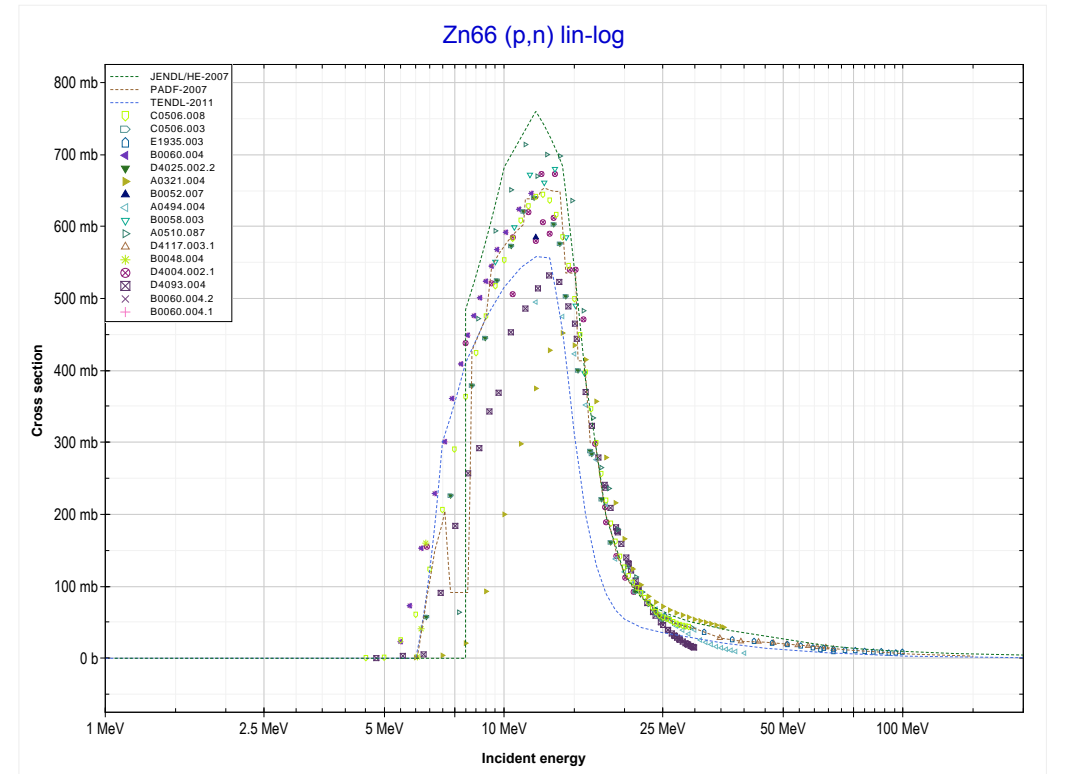
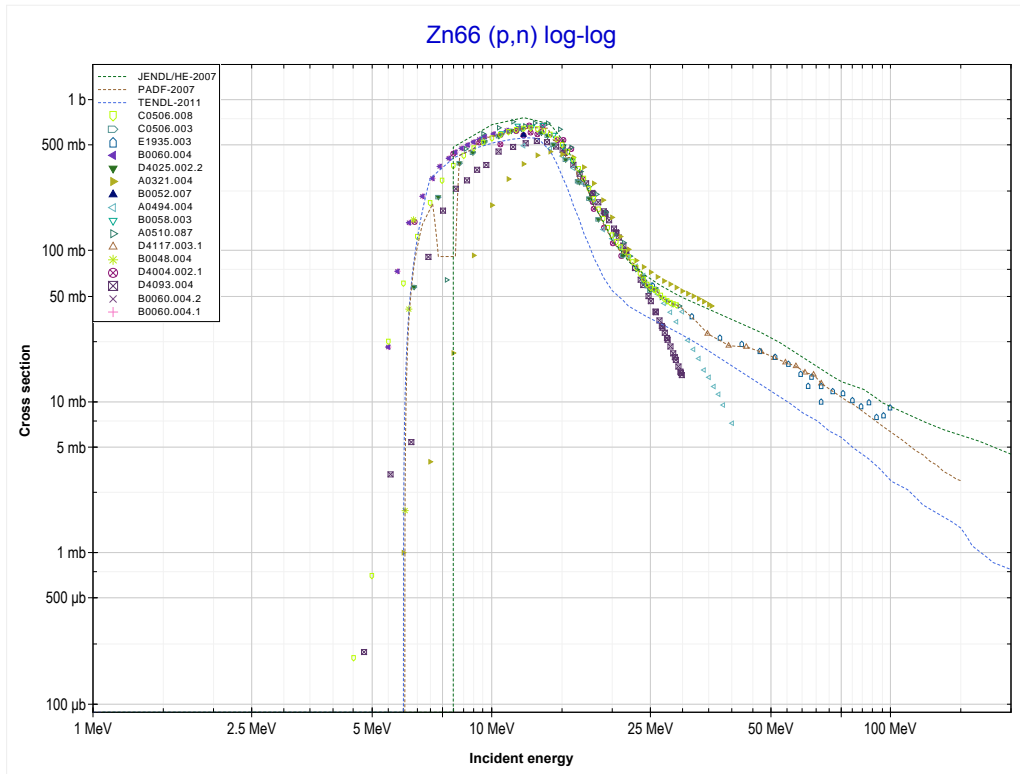


<< 28-Ni-58	<b>30-Zn-64</b>	
<< MT179 (p,3n+2p)	<b>MT190 (p,2n+2p) or MT5 (Cu61 production)</b>	MT4 (p,n) >>



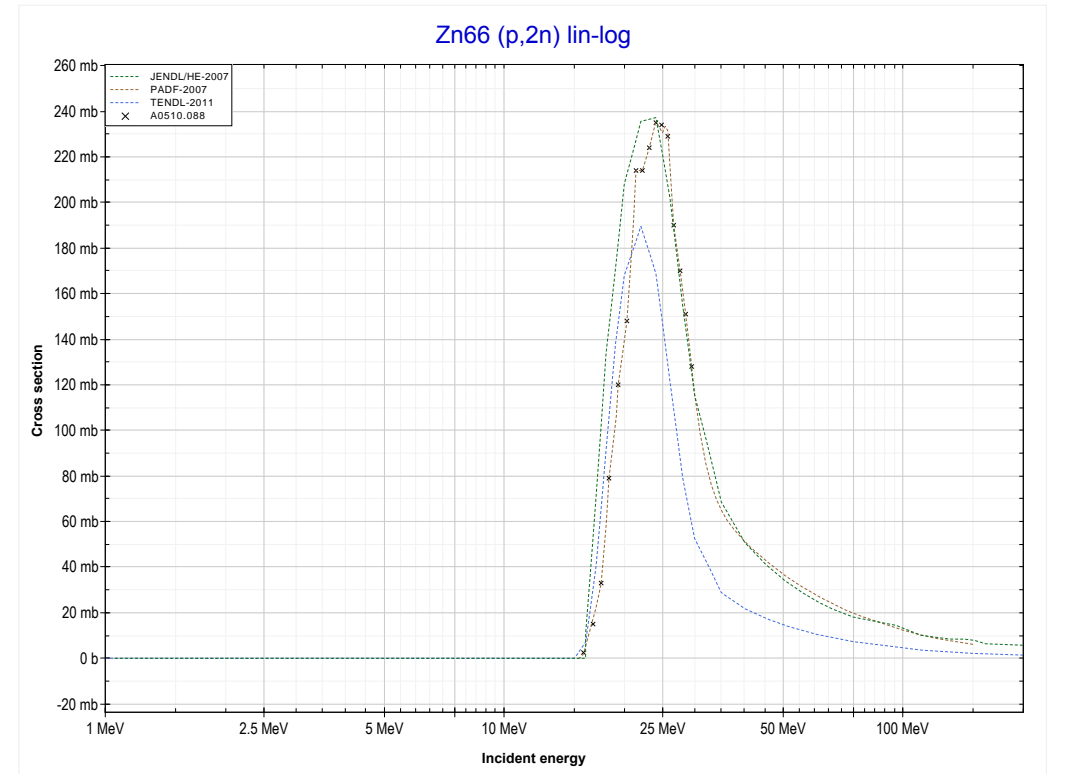
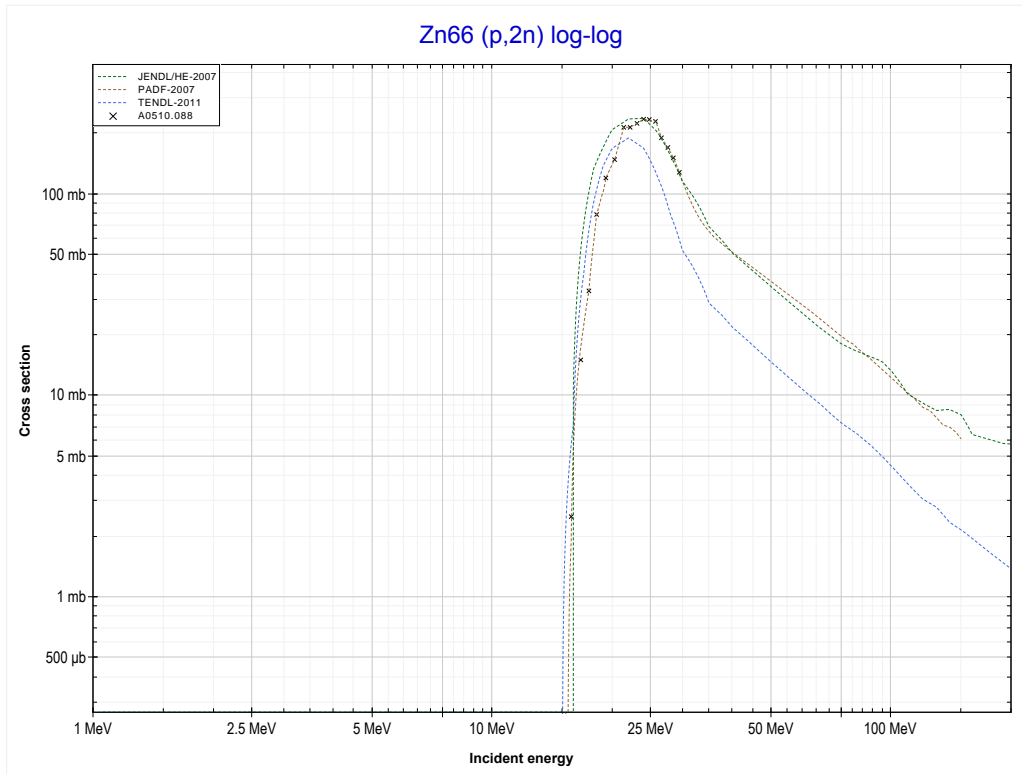
Reaction	Q-Value
Zn64(p,α)Cu61	844.05 keV
Zn64(p,p+t)Cu61	-18969.81 keV
Zn64(p,n+He3)Cu61	-19733.56 keV
Zn64(p,2d)Cu61	-23002.47 keV
Zn64(p,n+p+d)Cu61	-25227.04 keV
Zn64(p,2n+2p)Cu61	-27451.60 keV

<< 30-Zn-64	<b>30-Zn-66</b>	30-Zn-67 >>
<< MT190 (p,2n+2p)	<b>MT4 (p,n) or MT5 (Ga66 production)</b>	MT16 (p,2n) >>



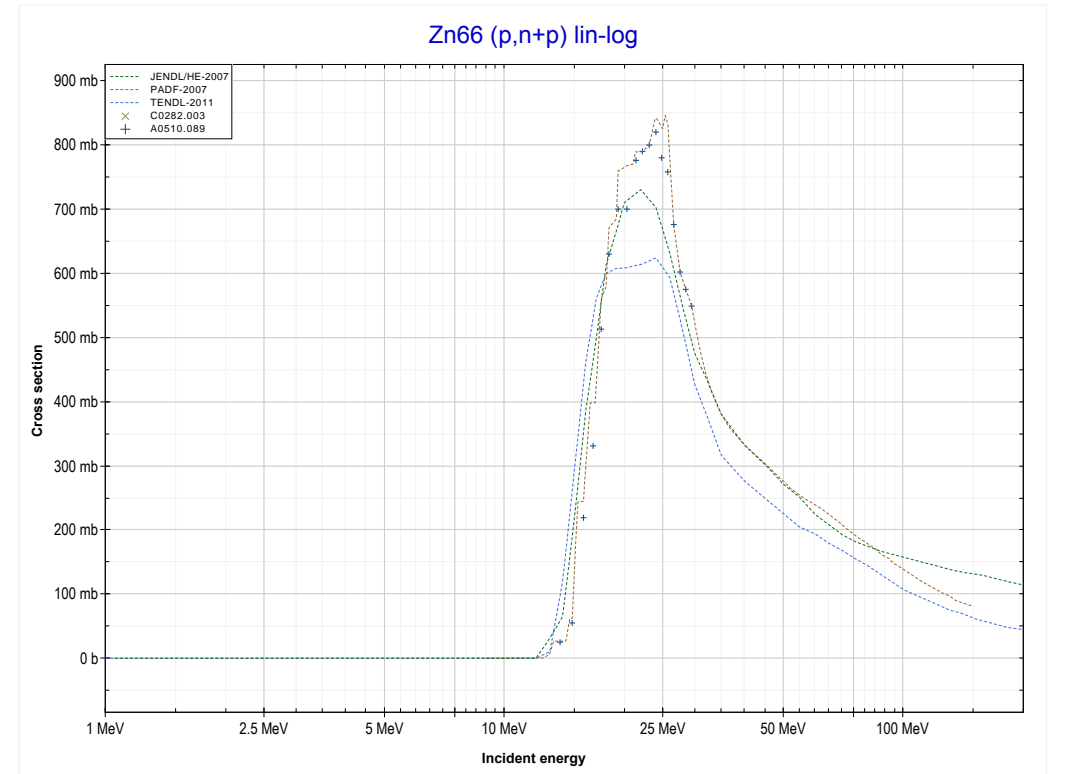
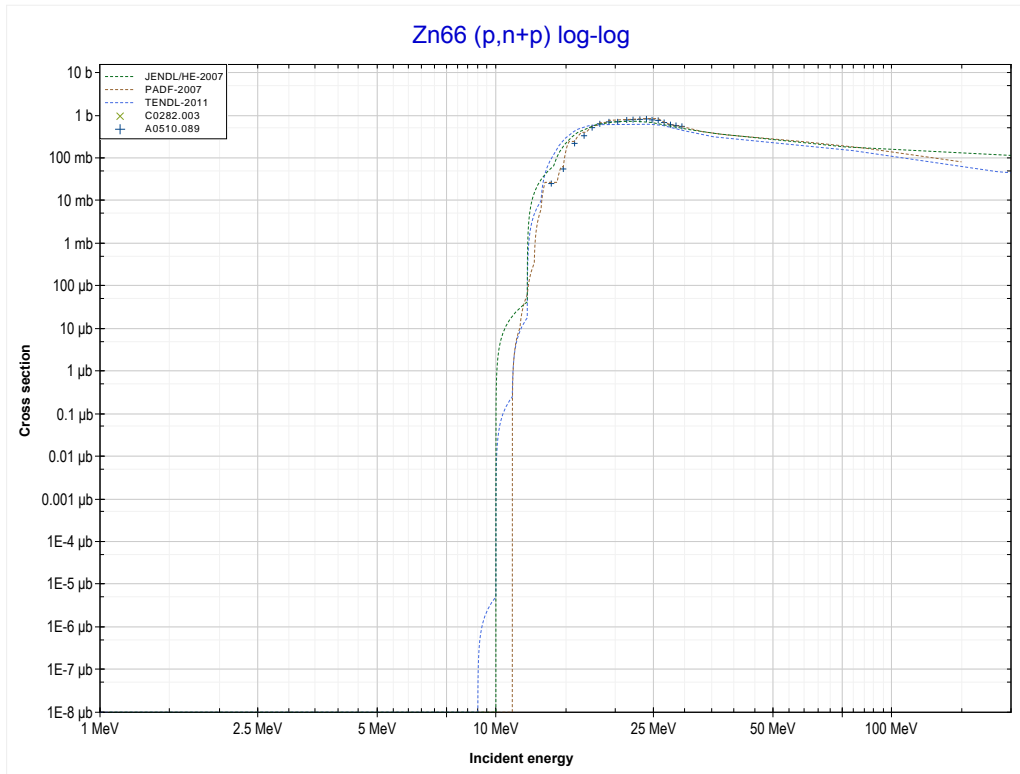
Reaction	Q-Value
Zn66(p,n)Ga66	-5957.75 keV

<< 29-Cu-63	<b>30-Zn-66</b>	30-Zn-67 >>
<< MT4 (p,n)	<b>MT16 (p,2n) or MT5 (Ga65 production)</b>	MT28 (p,n+p) >>



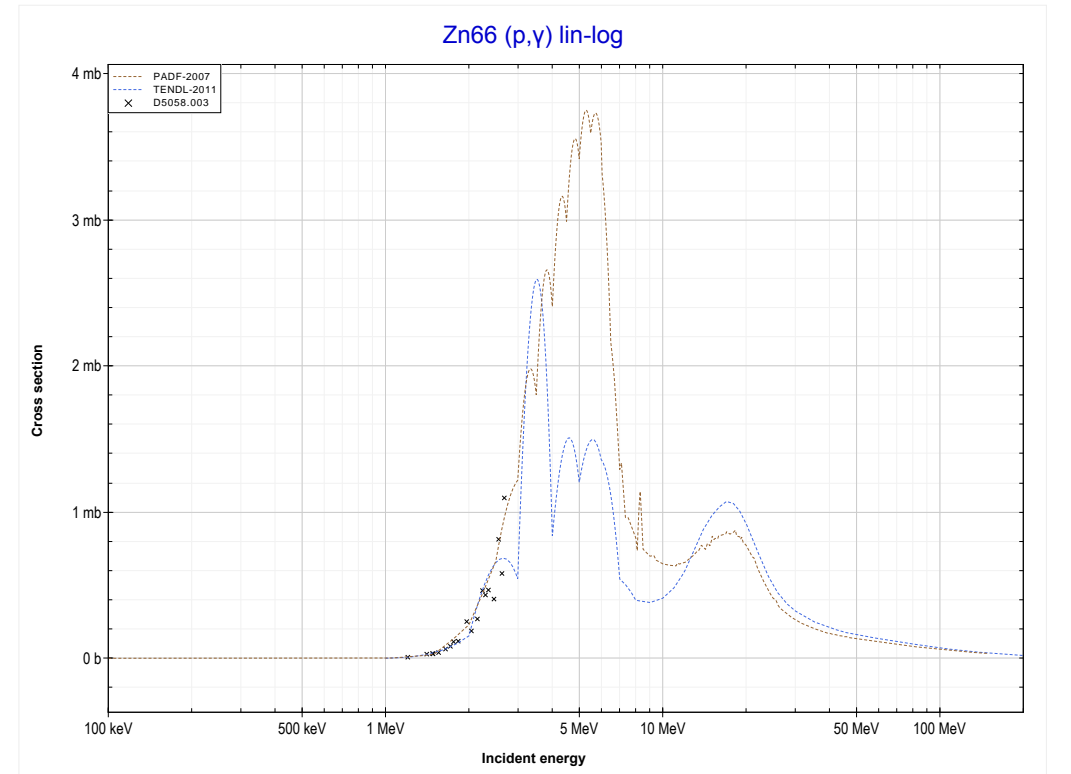
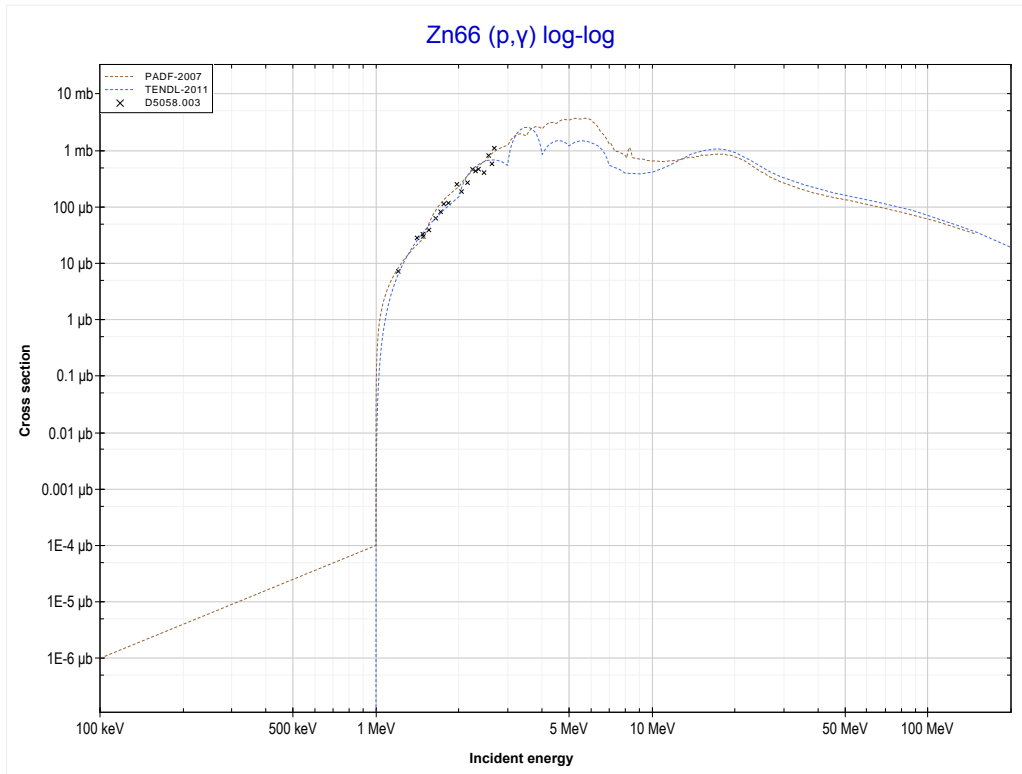
Reaction	Q-Value
Zn66(p,2n)Ga65	-15095.86 keV

<< 30-Zn-64	<b>30-Zn-66</b>	30-Zn-70 >>
<< MT16 (p,2n)	<b>MT28 (p,n+p) or MT5 (Zn65 production)</b>	MT102 (p, $\gamma$ ) >>



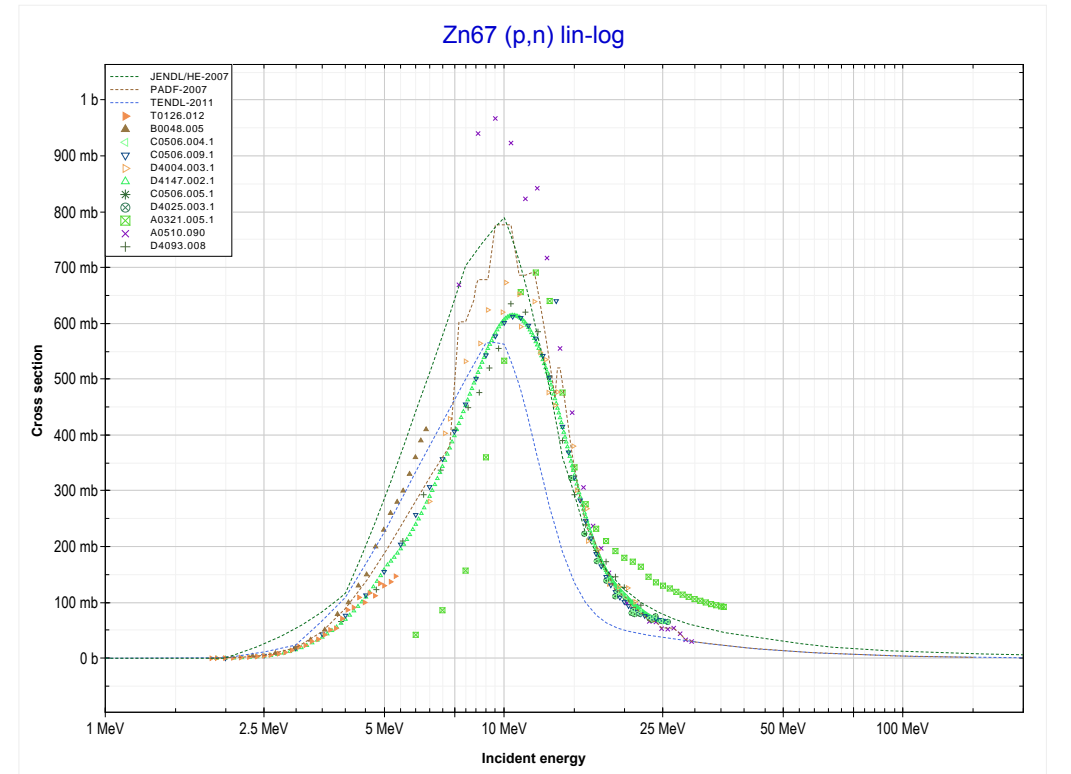
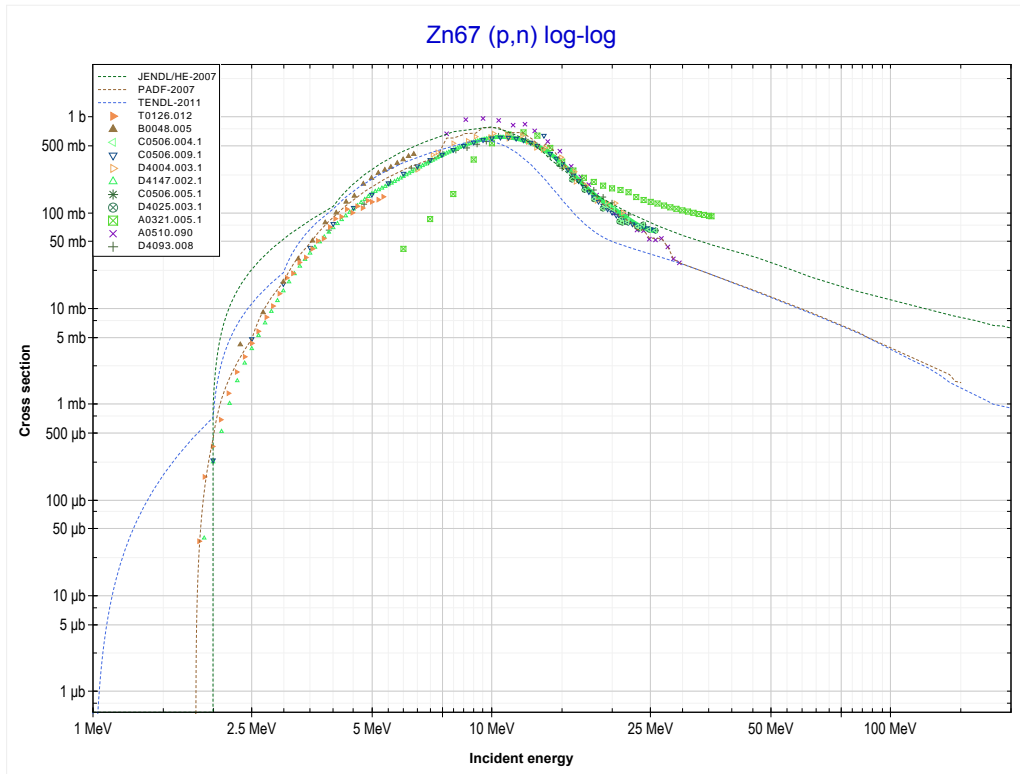
Reaction	Q-Value
Zn66(p,d)Zn65	-8834.55 keV
Zn66(p,n+p)Zn65	-11059.12 keV

<< 30-Zn-64	<b>30-Zn-66</b>	30-Zn-67 >>
<< MT28 (p,n+p)	<b>MT102 (p,<math>\gamma</math>) or MT5 (Ga67 production)</b>	MT4 (p,n) >>



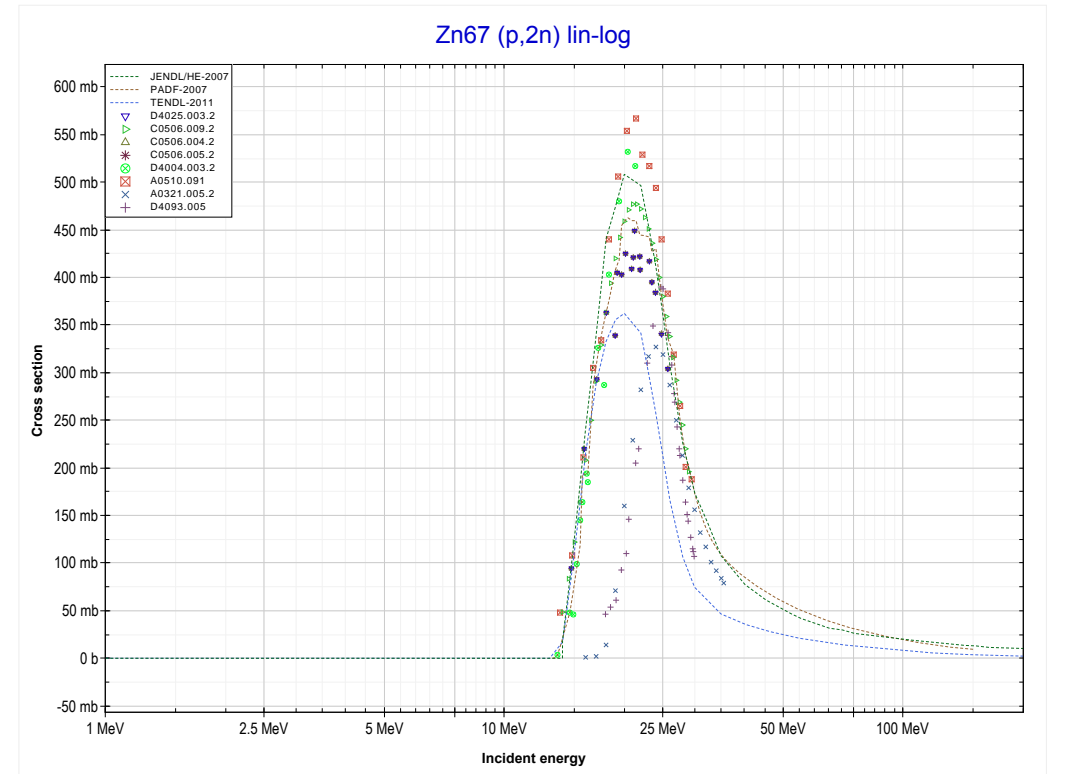
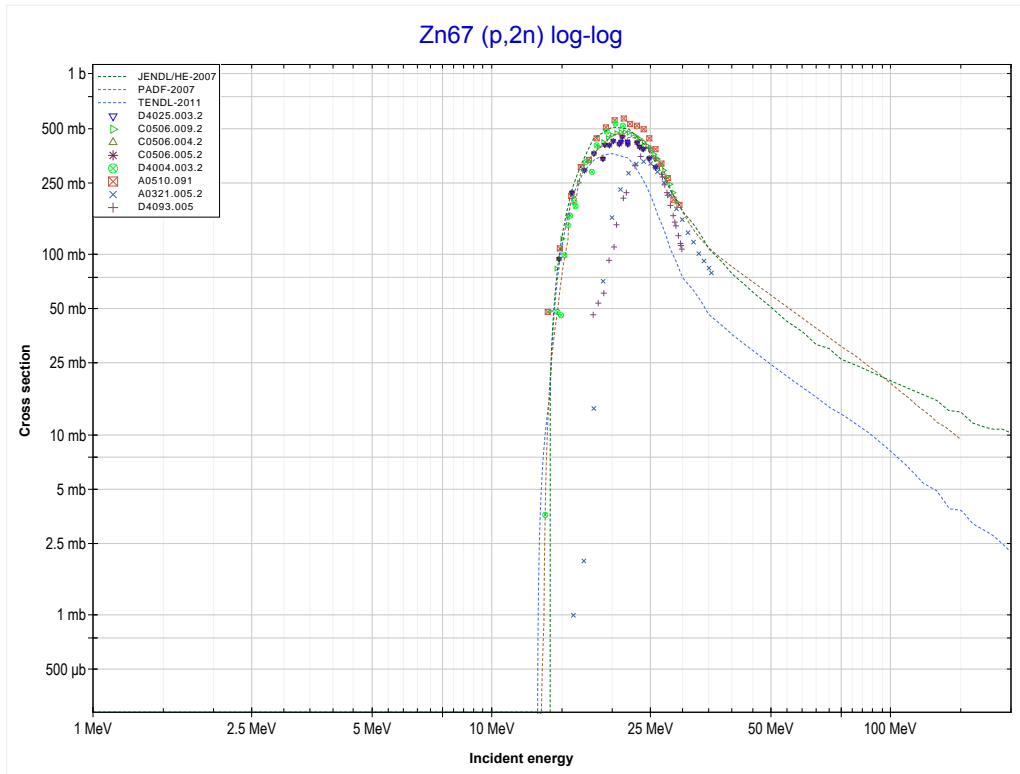
Reaction	Q-Value
Zn66(p, $\gamma$ )Ga67	5269.27 keV

<< 30-Zn-66	<b>30-Zn-67</b>	30-Zn-68 >>
<< MT102 (p, $\gamma$ )	<b>MT4 (p,n) or MT5 (Ga67 production)</b>	MT16 (p,2n) >>



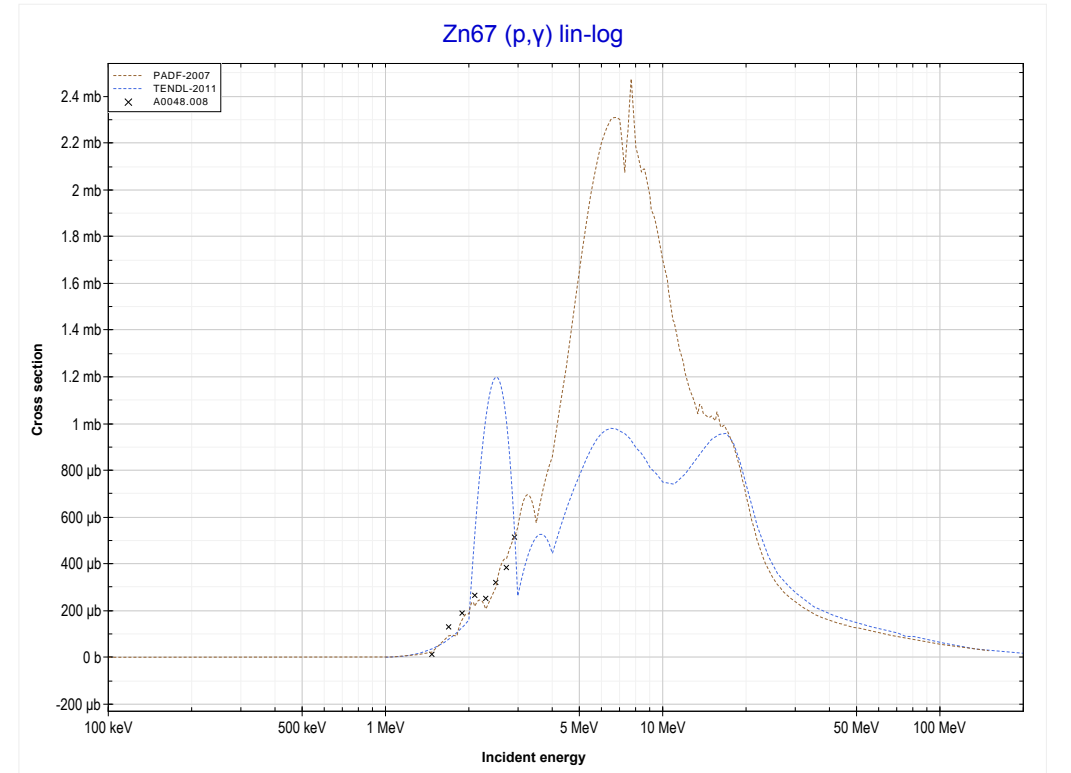
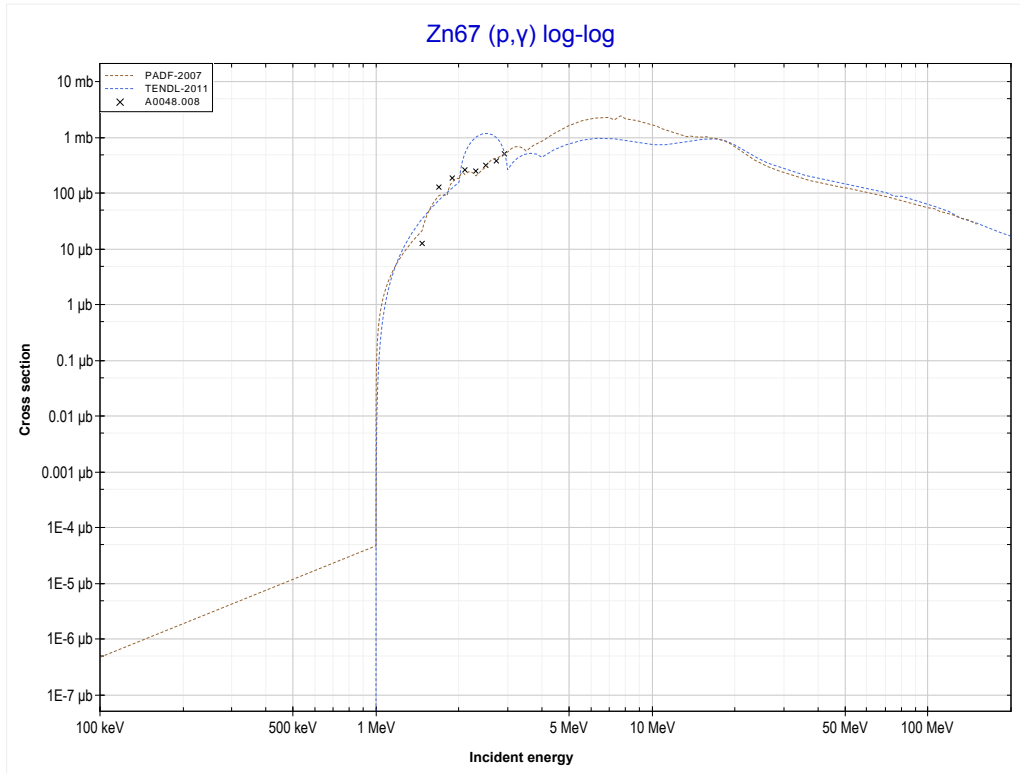
Reaction	Q-Value
Zn67(p,n)Ga67	-1783.05 keV

<< 30-Zn-66	<b>30-Zn-67</b>	30-Zn-68 >>
<< MT4 (p,n)	<b>MT16 (p,2n) or MT5 (Ga66 production)</b>	MT102 (p, $\gamma$ ) >>



Reaction	Q-Value
Zn67(p,2n)Ga66	-13010.06 keV

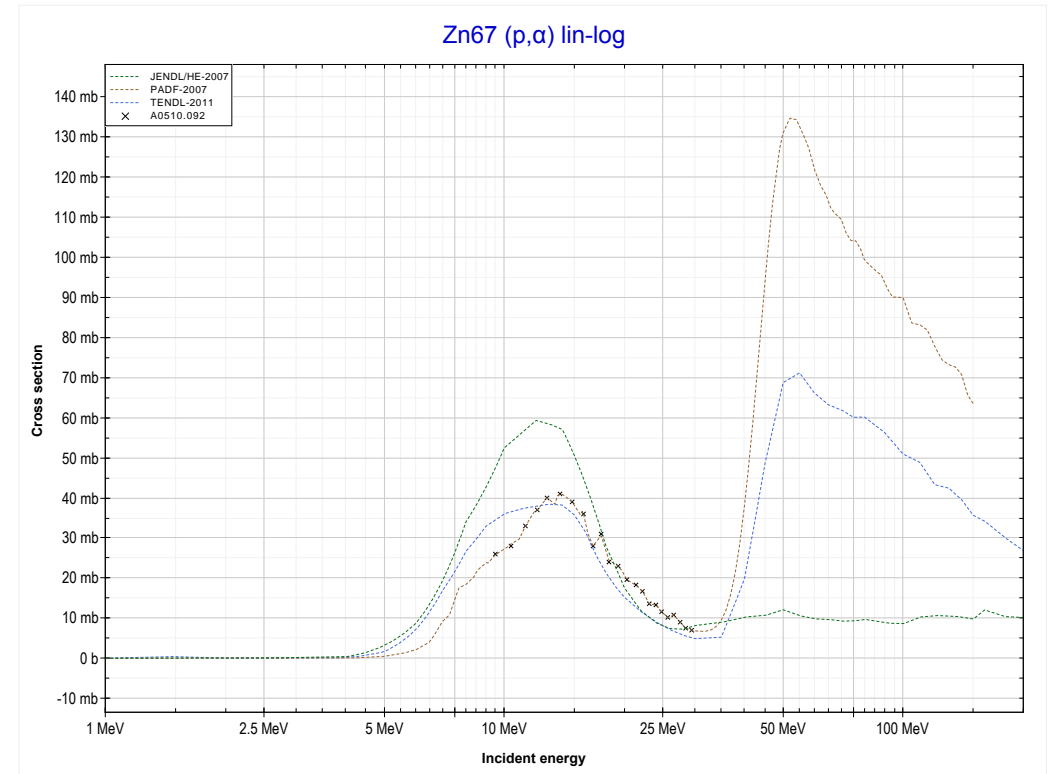
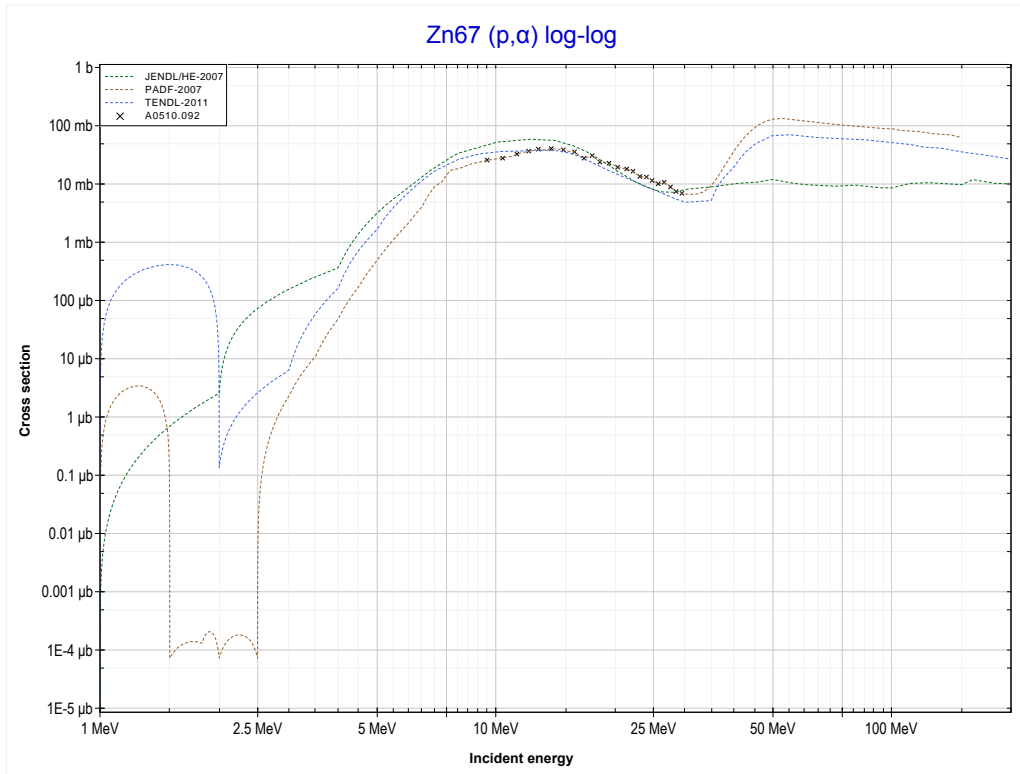
<< 30-Zn-66	<b>30-Zn-67</b>	30-Zn-68 >>
<< MT16 (p,2n)	<b>MT102 (p,<math>\gamma</math>) or MT5 (Ga68 production)</b>	MT107 (p, $\alpha$ ) >>



Reaction	Q-Value
Zn67(p, $\gamma$ )Ga68	6494.67 keV

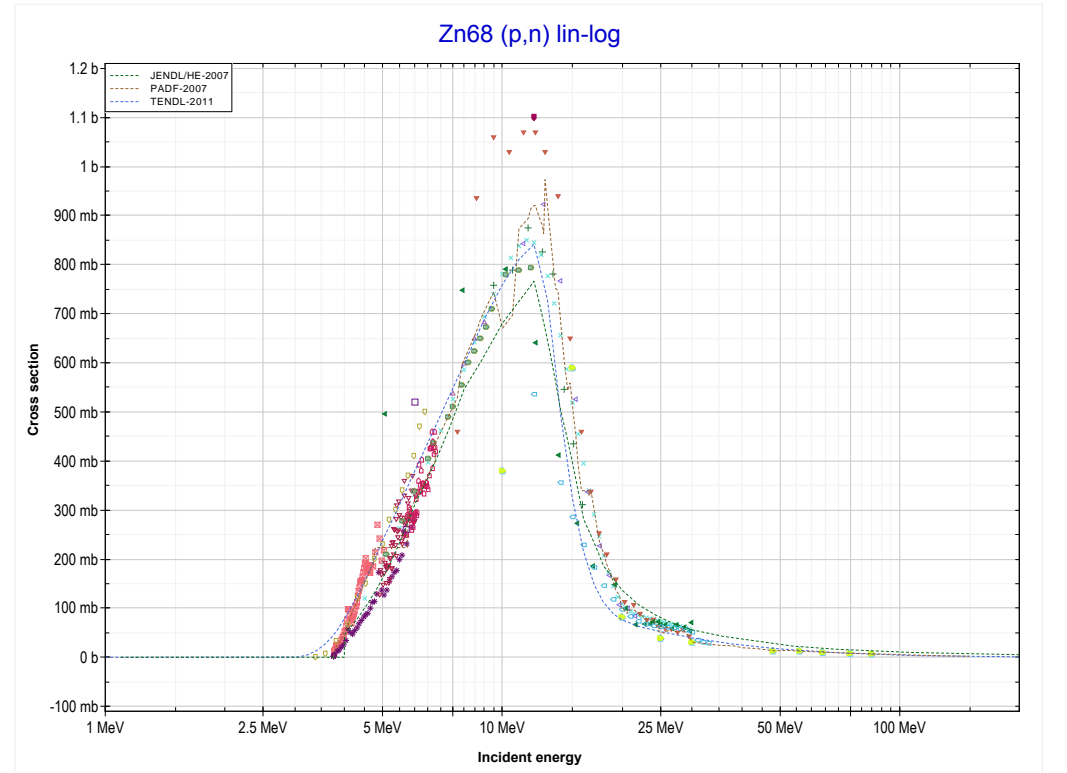
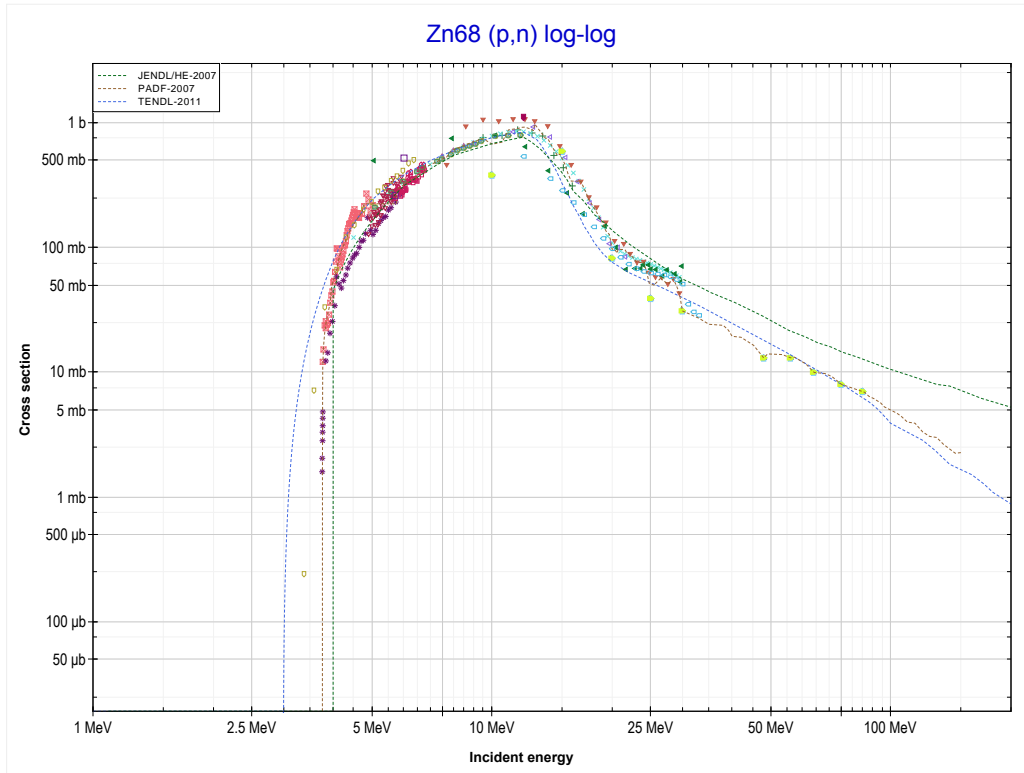


<< 30-Zn-64	<b>30-Zn-67</b>	30-Zn-68 >>
<< MT102 (p, $\gamma$ )	<b>MT107 (p,<math>\alpha</math>) or MT5 (Cu64 production)</b>	MT4 (p,n) >>



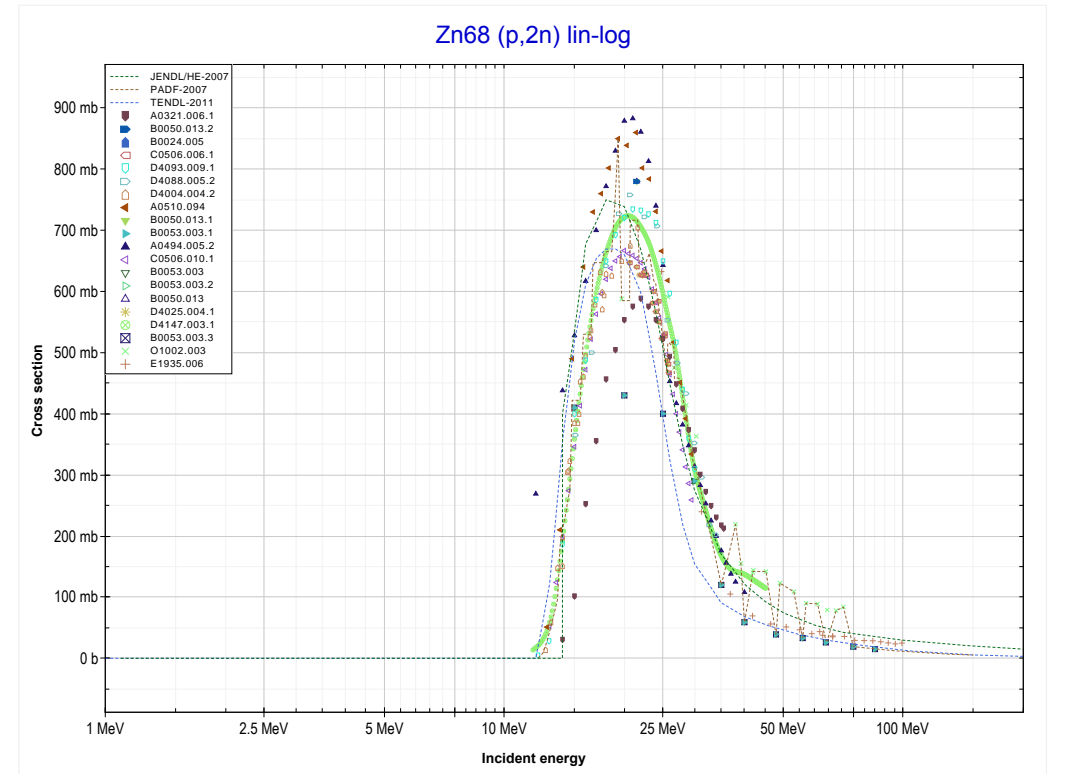
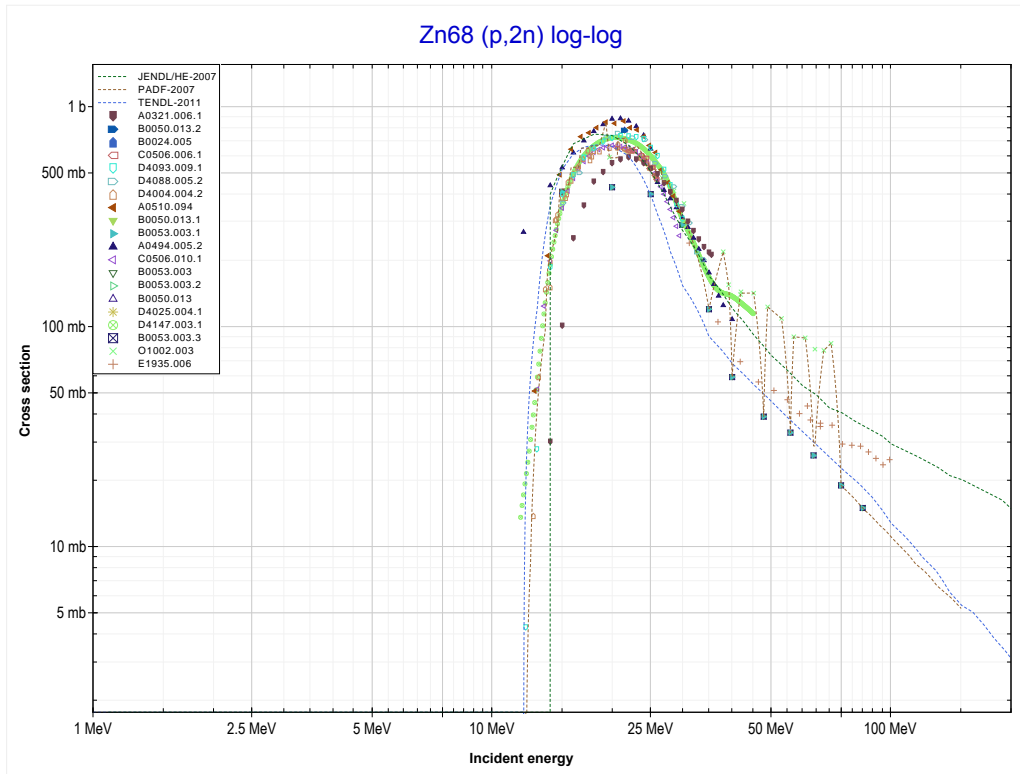
Reaction	Q-Value
Zn67(p, $\alpha$ )Cu64	2407.85 keV
Zn67(p,p+t)Cu64	-17406.01 keV
Zn67(p,n+He3)Cu64	-18169.76 keV
Zn67(p,2d)Cu64	-21438.67 keV
Zn67(p,n+p+d)Cu64	-23663.24 keV
Zn67(p,2n+2p)Cu64	-25887.80 keV

<< 30-Zn-67	<b>30-Zn-68</b>	30-Zn-70 >>
<< MT107 (p, $\alpha$ )	<b>MT4 (p,n) or MT5 (Ga68 production)</b>	MT16 (p,2n) >>



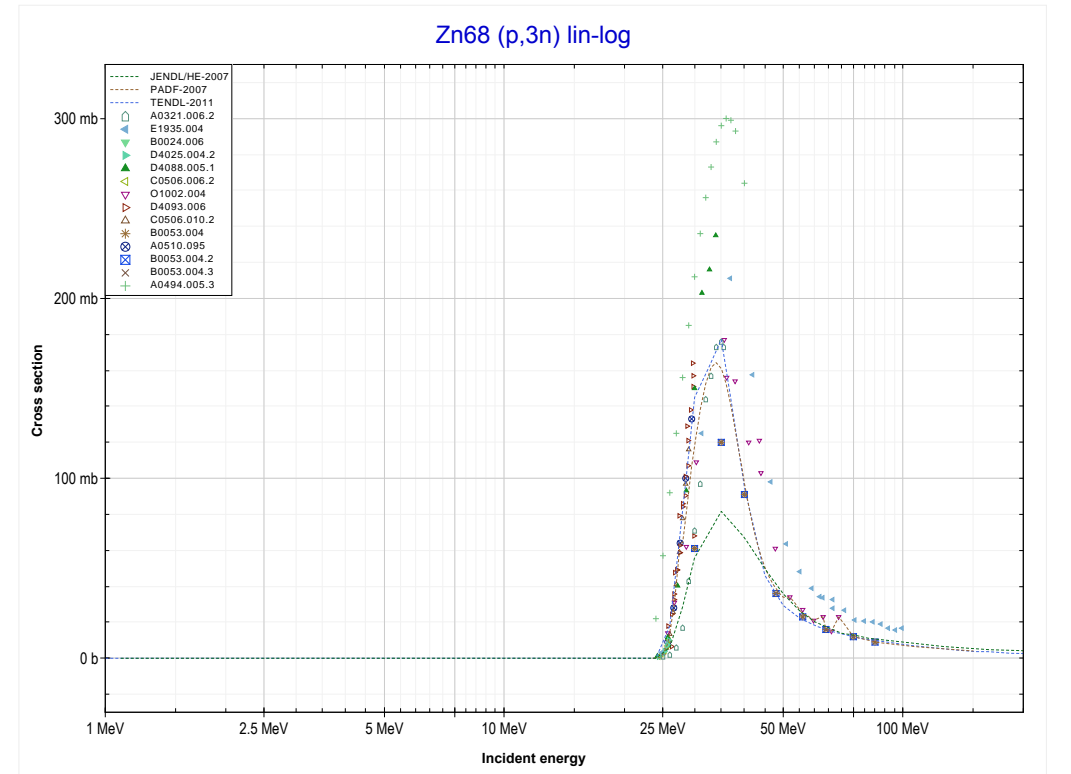
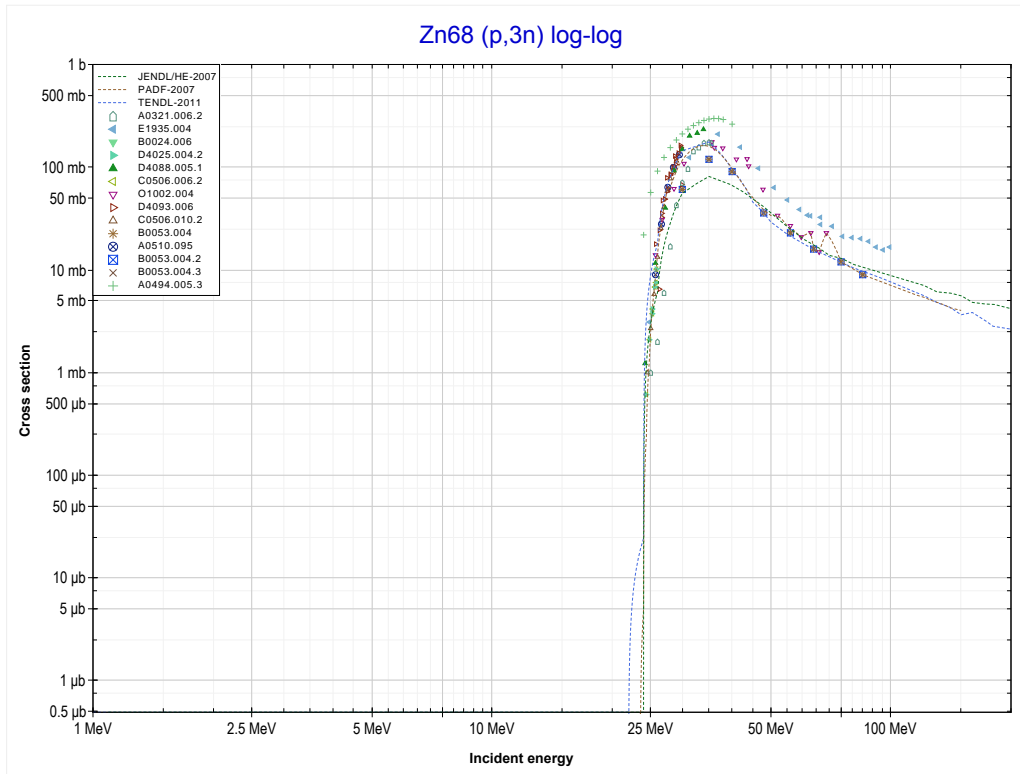
Reaction	Q-Value
Zn68(p,n)Ga68	-3703.45 keV

<< 30-Zn-67	<b>30-Zn-68</b>	31-Ga-69 >>
<< MT4 (p,n)	<b>MT16 (p,2n) or MT5 (Ga67 production)</b>	MT17 (p,3n) >>



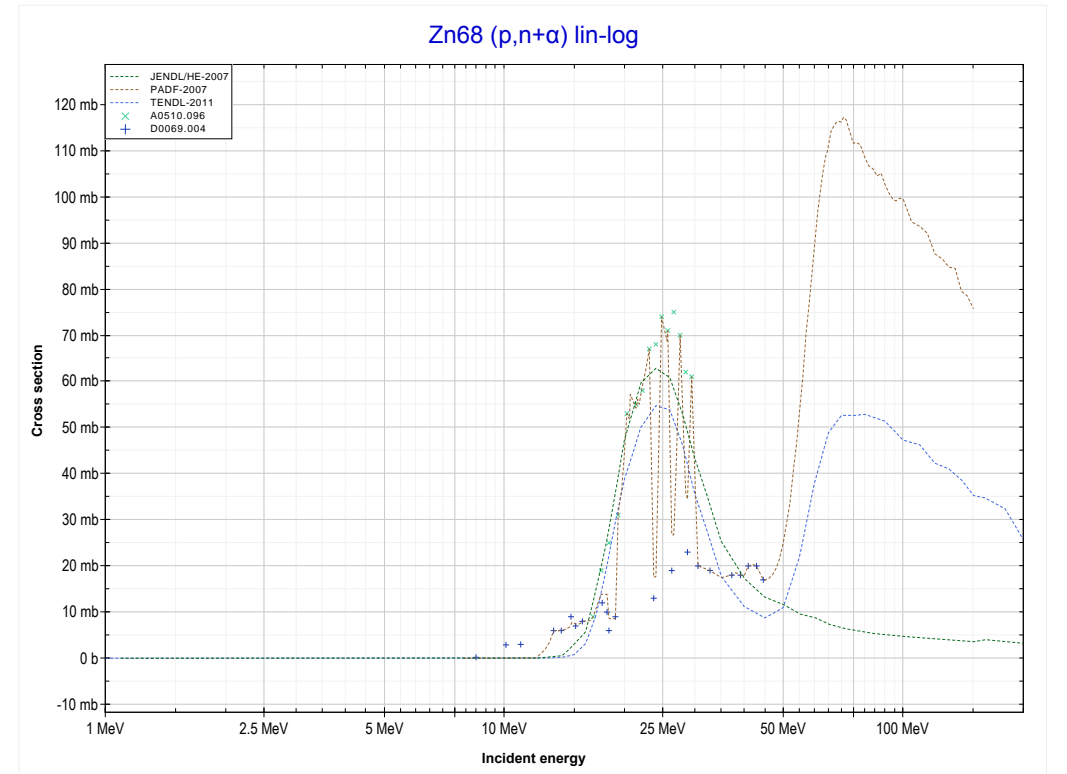
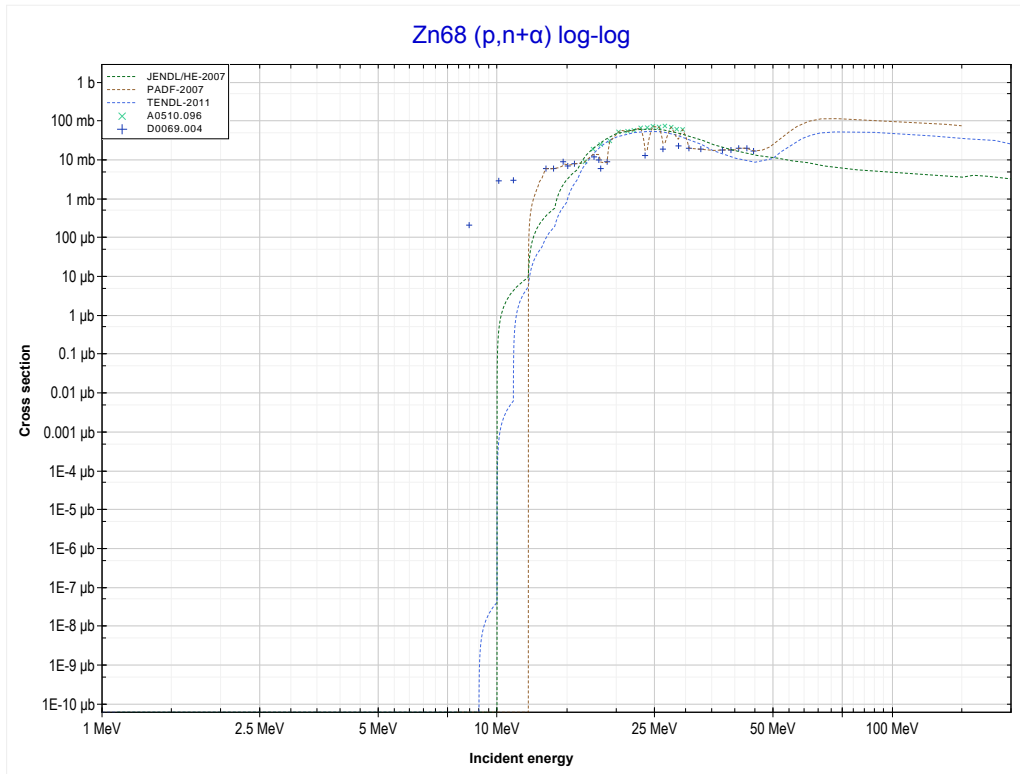
Reaction	Q-Value
Zn68(p,2n)Ga67	-11981.16 keV

<< 29-Cu-65	<b>30-Zn-68</b>	31-Ga-69 >>
<< MT16 (p,2n)	<b>MT17 (p,3n) or MT5 (Ga66 production)</b>	MT22 (p,n+α) >>



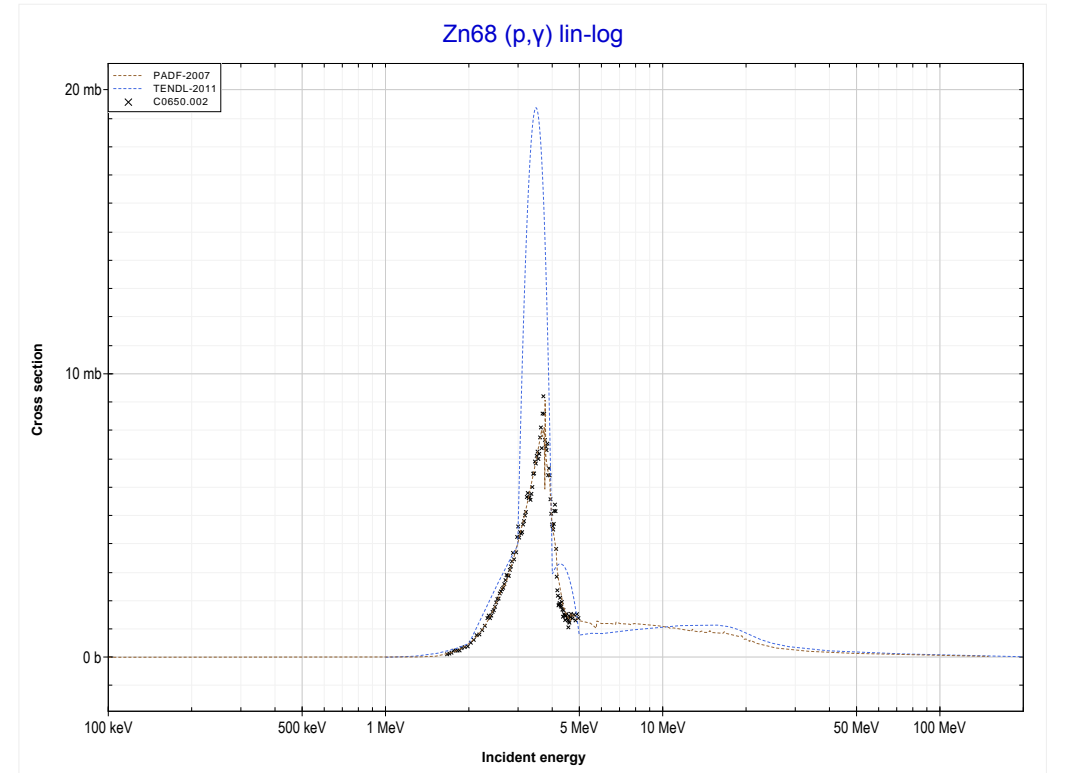
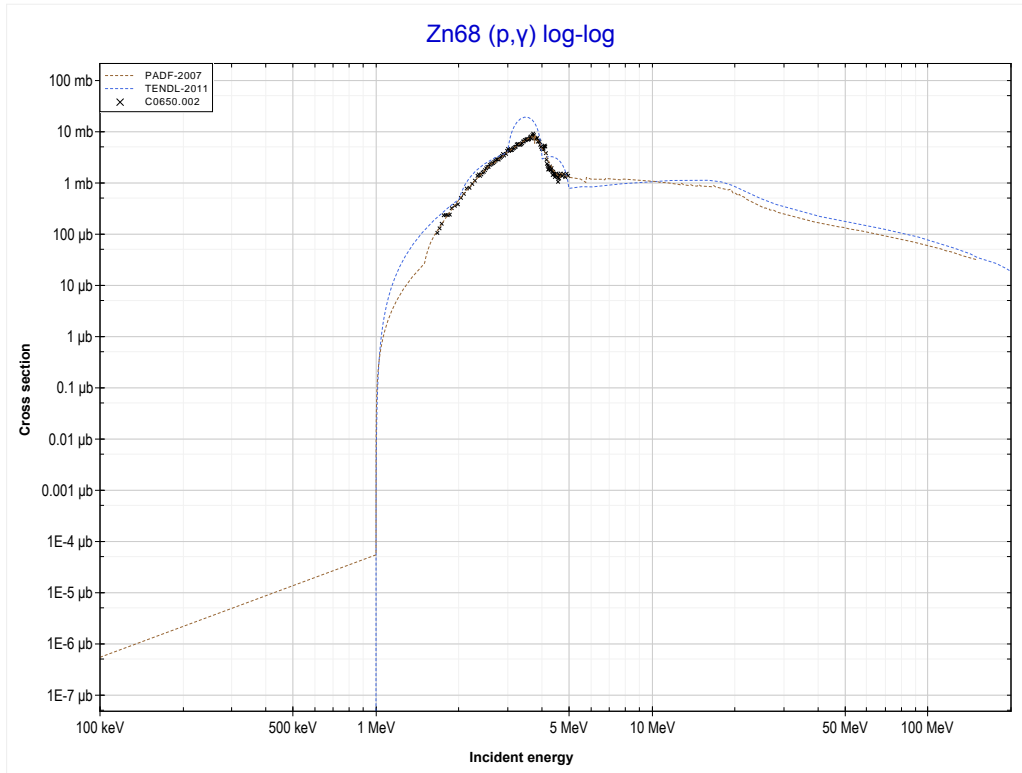
Reaction	Q-Value
Zn68(p,3n)Ga66	-23208.18 keV

<< 30-Zn-64	<b>30-Zn-68</b>	31-Ga-69 >>
<< MT17 (p,3n)	<b>MT22 (p,n+α) or MT5 (Cu64 production)</b>	MT102 (p,γ) >>



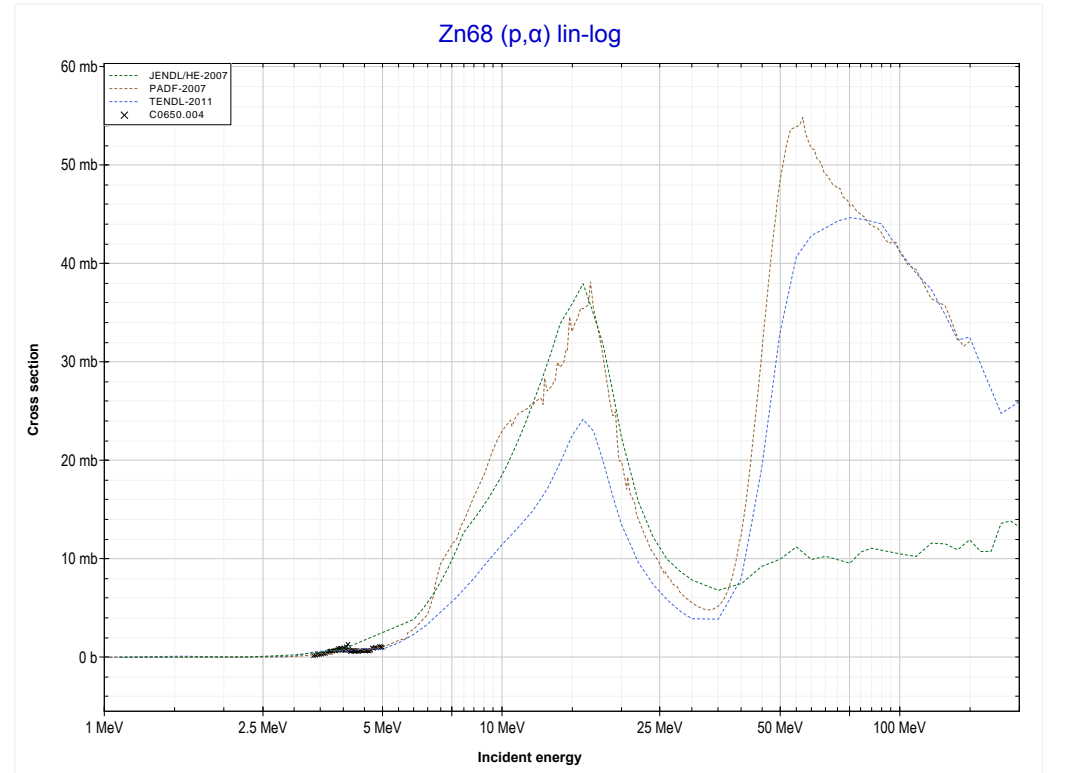
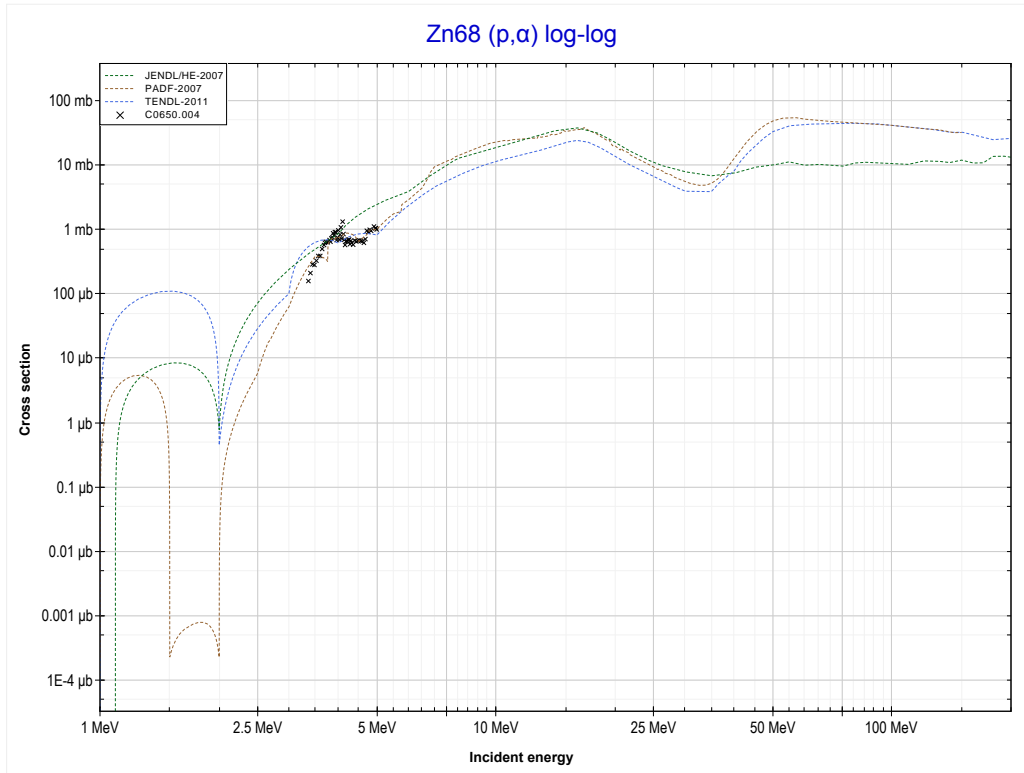
Reaction	Q-Value
Zn68(p,n+α)Cu64	-7790.26 keV
Zn68(p,d+t)Cu64	-25379.56 keV
Zn68(p,n+p+t)Cu64	-27604.12 keV
Zn68(p,2n+He3)Cu64	-28367.88 keV
Zn68(p,n+2d)Cu64	-31636.79 keV
Zn68(p,2n+p+d)Cu64	-33861.36 keV
Zn68(p,3n+2p)Cu64	-36085.92 keV

<< 30-Zn-67	<b>30-Zn-68</b>	34-Se-74 >>
<< MT22 (p,n+α)	<b>MT102 (p,γ) or MT5 (Ga69 production)</b>	MT107 (p,α) >>



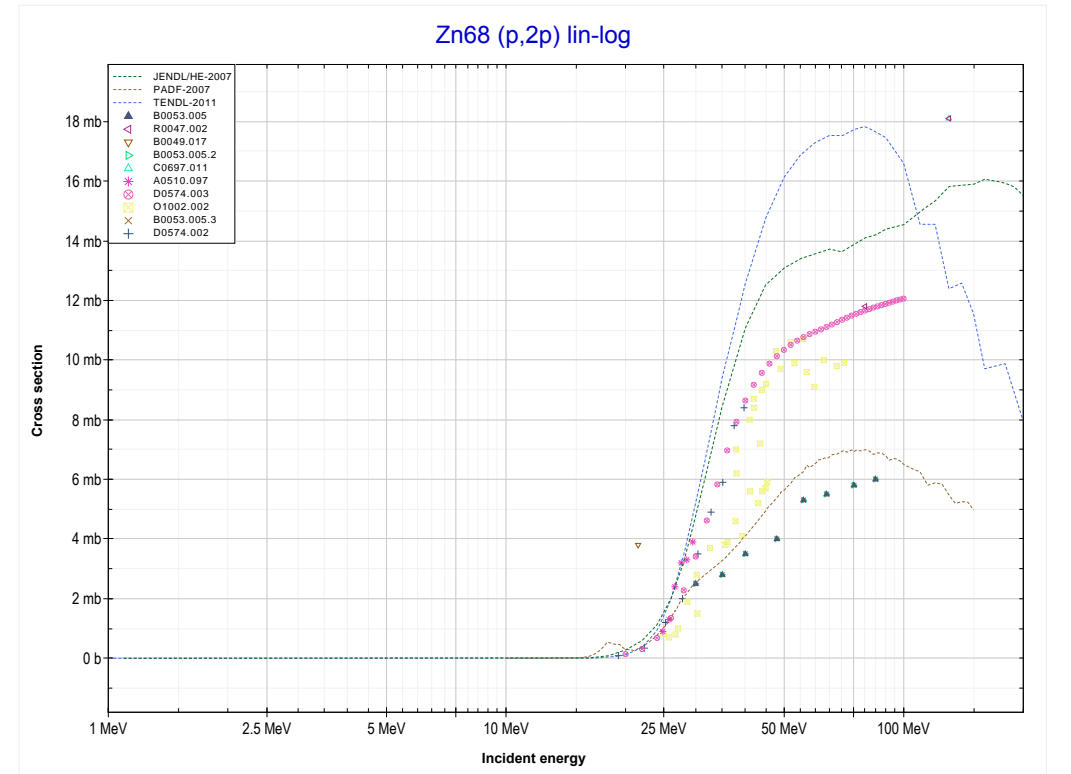
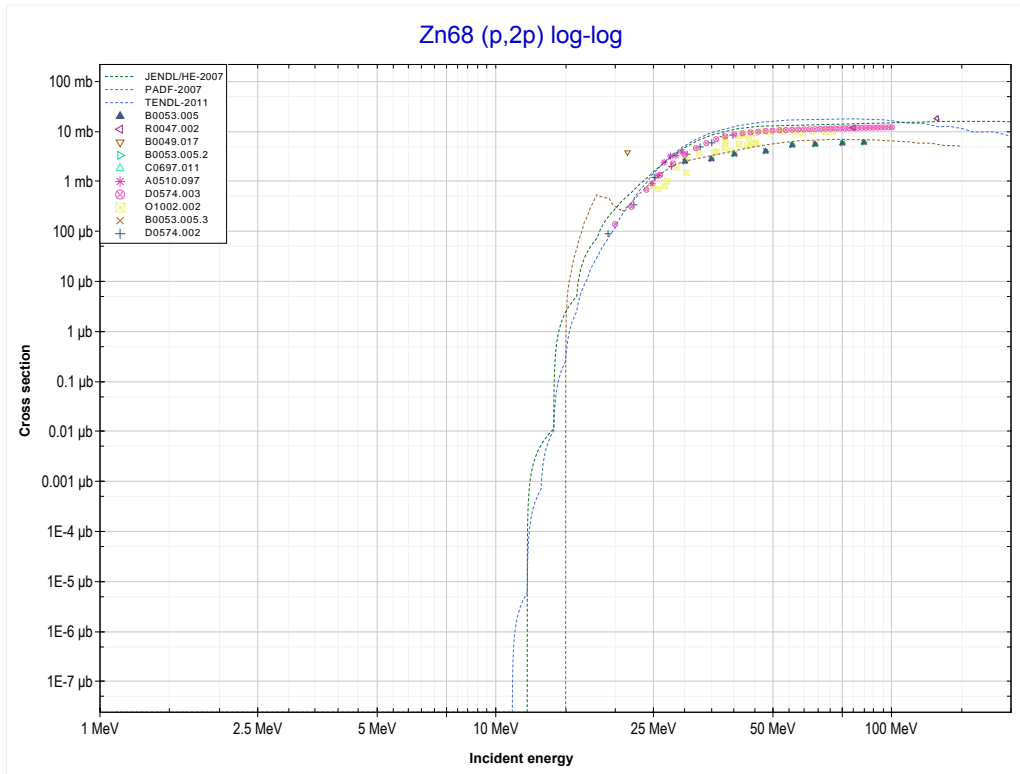
Reaction	Q-Value
Zn68(p,γ)Ga69	6609.57 keV

<< 30-Zn-67	<b>30-Zn-68</b>	30-Zn-70 >>
<< MT102 (p, $\gamma$ )	<b>MT107 (p,<math>\alpha</math>) or MT5 (Cu65 production)</b>	MT111 (p,2p) >>



Reaction	Q-Value
Zn68(p, $\alpha$ )Cu65	2120.55 keV
Zn68(p,p+t)Cu65	-17693.31 keV
Zn68(p,n+He3)Cu65	-18457.06 keV
Zn68(p,2d)Cu65	-21725.97 keV
Zn68(p,n+p+d)Cu65	-23950.54 keV
Zn68(p,2n+2p)Cu65	-26175.10 keV

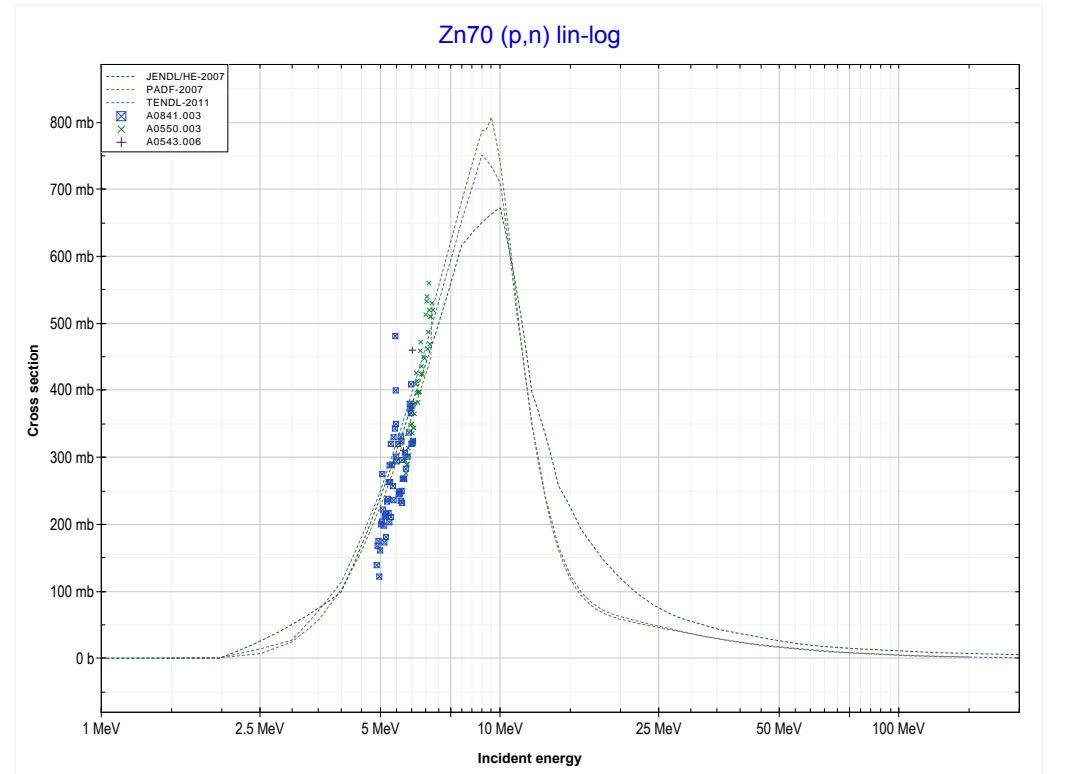
<< 28-Ni-62	<b>30-Zn-68</b>	40-Zr-96 >>
<< MT107 (p, $\alpha$ )	<b>MT111 (p,2p) or MT5 (Cu67 production)</b>	MT4 (p,n) >>



Reaction	Q-Value
Zn68(p,2p)Cu67	-9977.37 keV

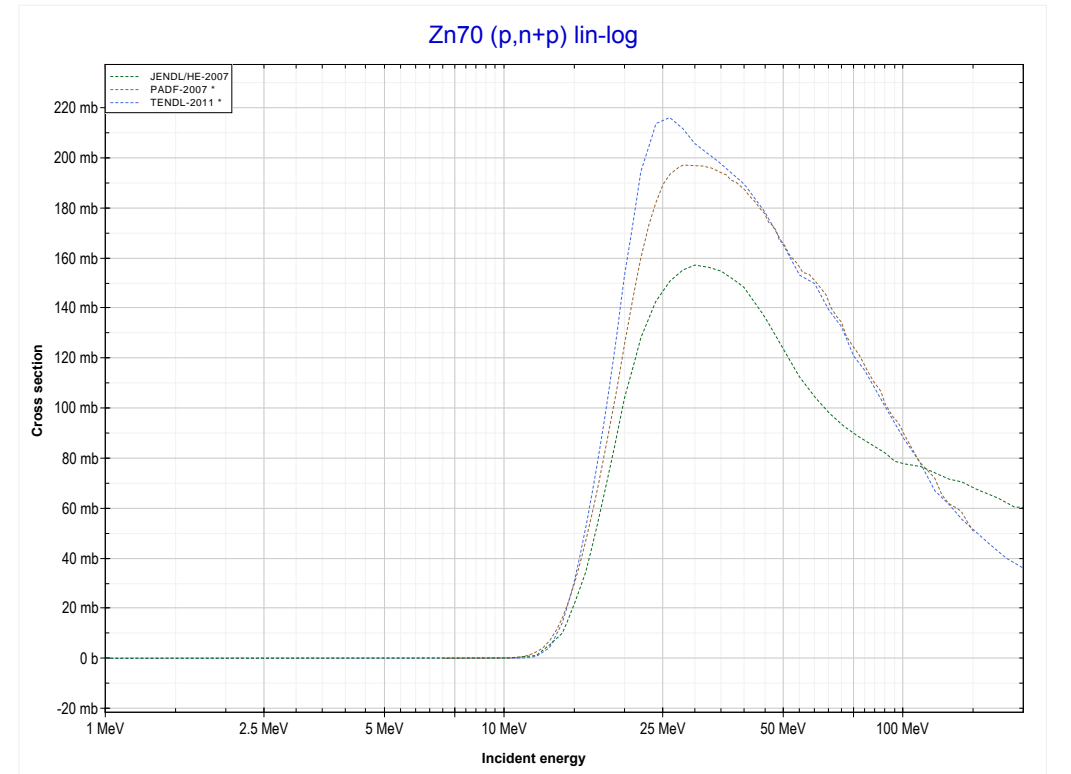
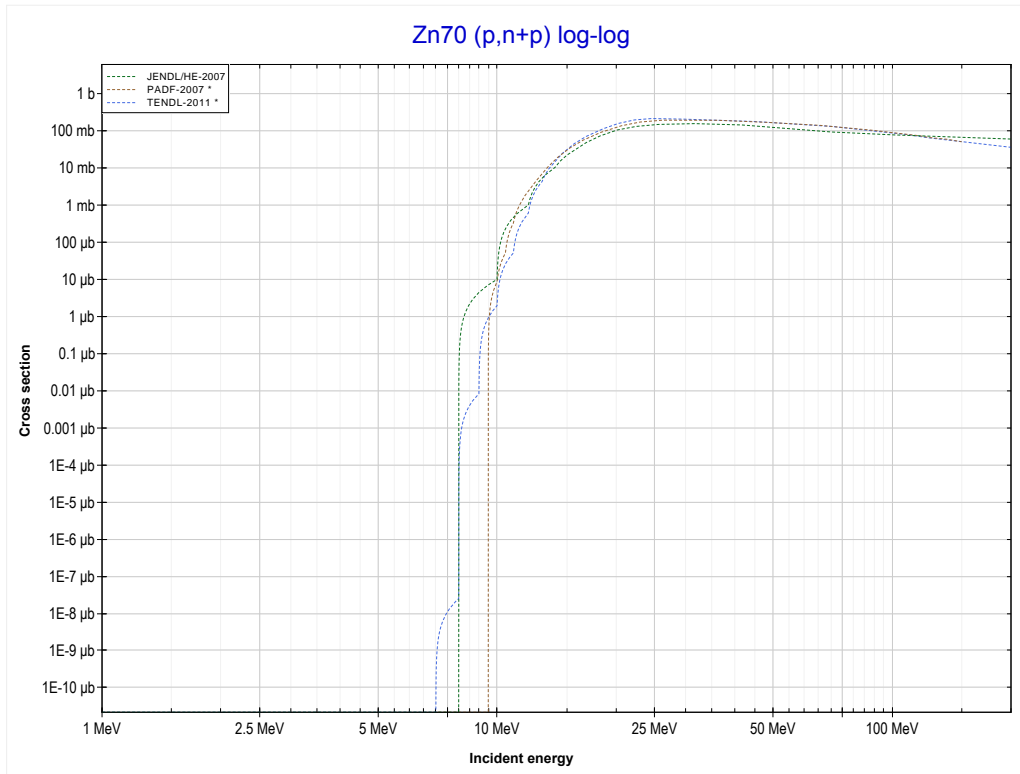


<< 30-Zn-68	<b>30-Zn-70</b>	31-Ga-69 >>
<< MT111 (p,2p)	<b>MT4 (p,n) or MT5 (Ga70 production)</b>	MT28 (p,n+p) >>



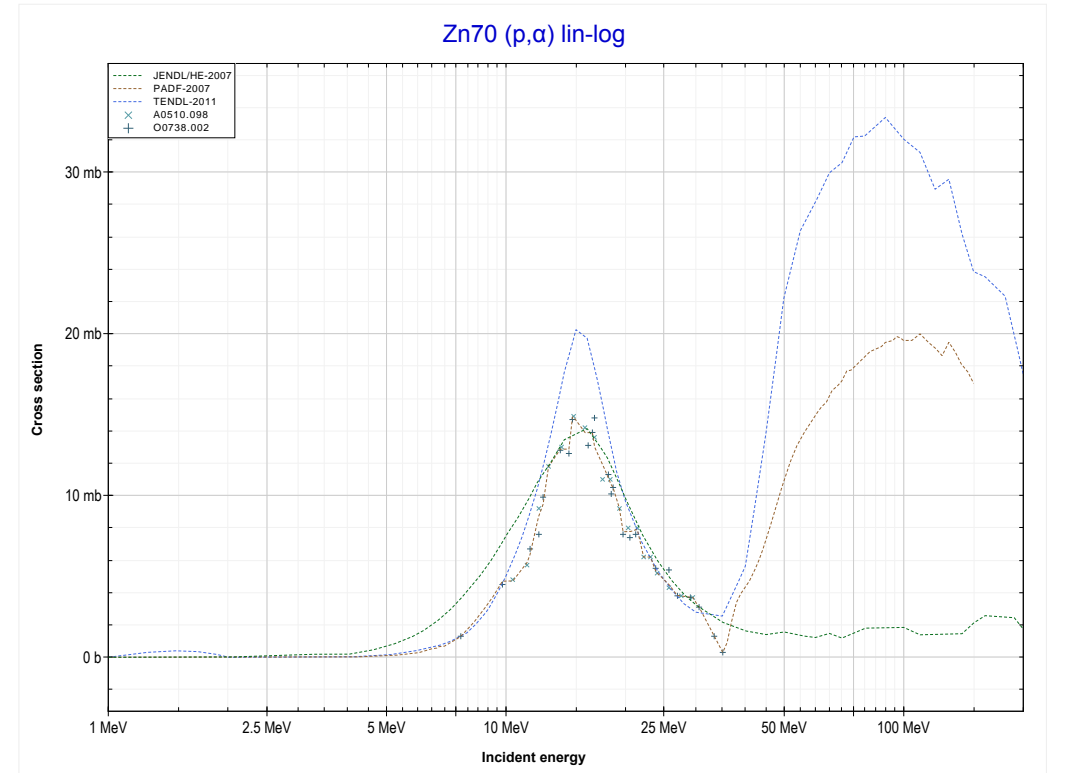
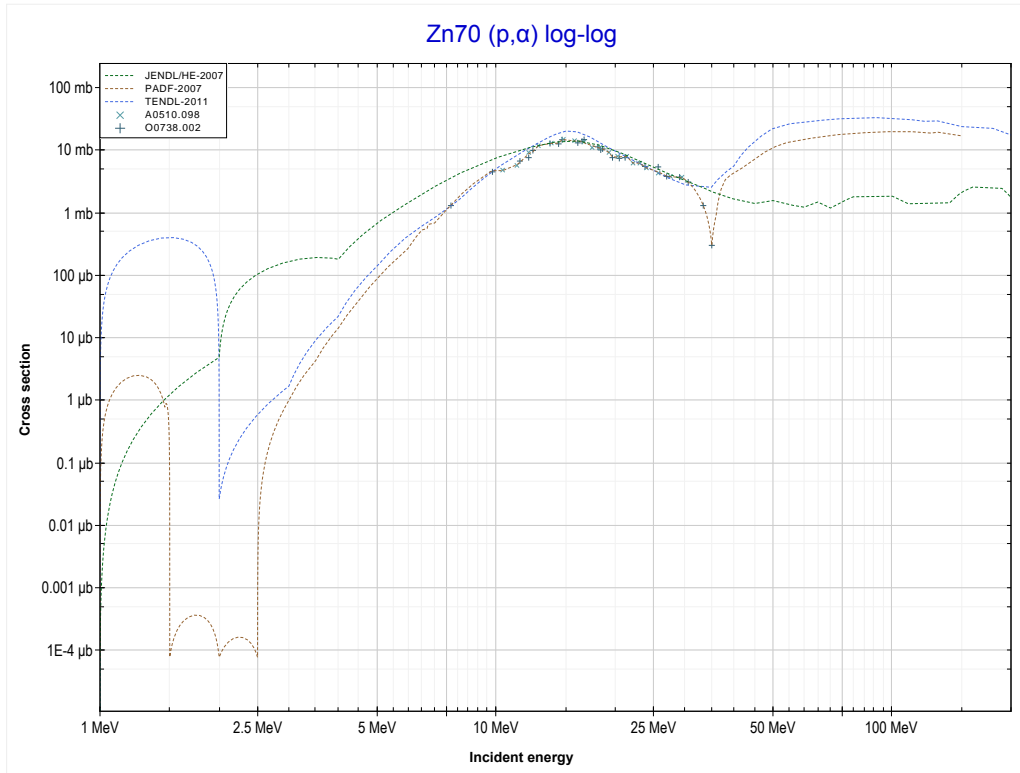
Reaction	Q-Value
Zn70(p,n)Ga70	-1436.85 keV

<< 30-Zn-66	<b>30-Zn-70</b>	31-Ga-69 >>
<< MT4 (p,n)	<b>MT28 (p,n+p) or MT5 (Zn69 production)</b>	MT107 (p, $\alpha$ ) >>



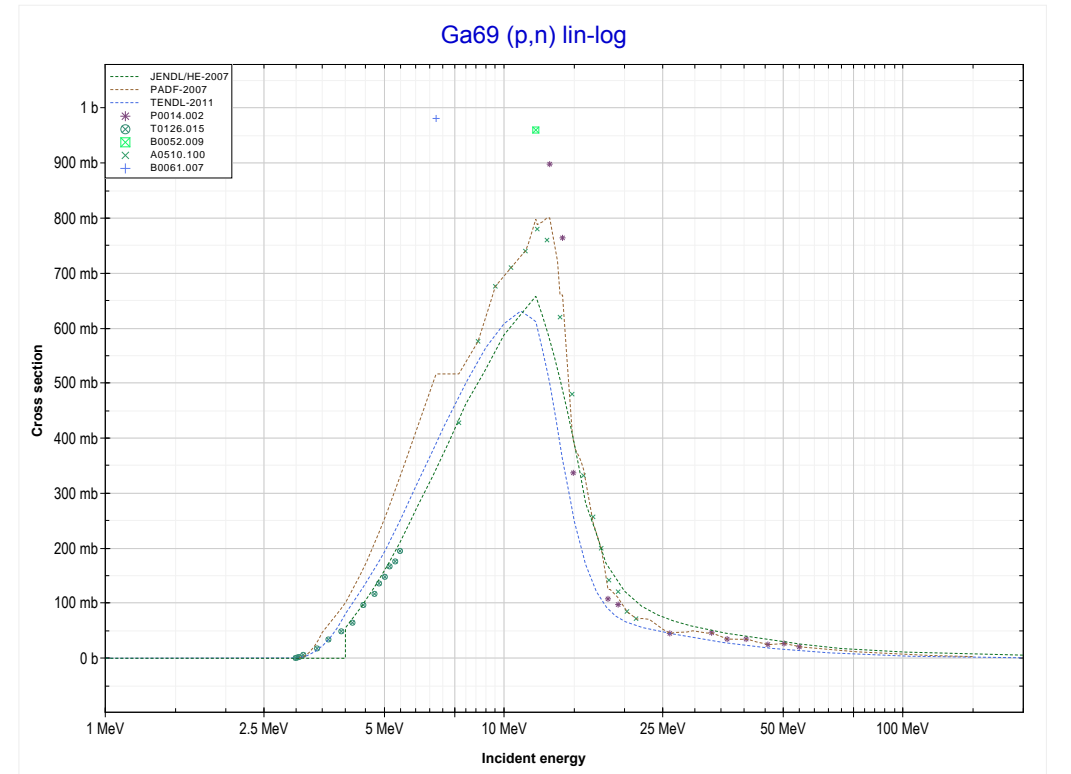
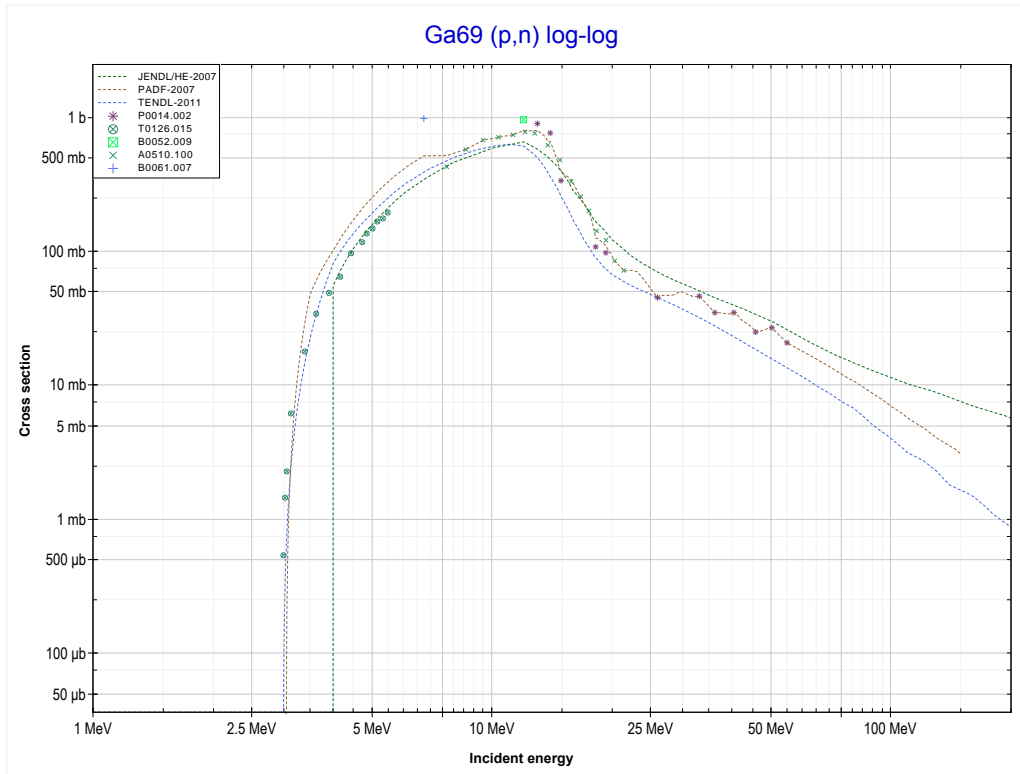
Reaction	Q-Value
Zn70(p,d)Zn69	-6993.35 keV
Zn70(p,n+p)Zn69	-9217.92 keV

<< 30-Zn-68	<b>30-Zn-70</b>	32-Ge-70 >>
<< MT28 (p,n+p)	<b>MT107 (p,<math>\alpha</math>) or MT5 (Cu67 production)</b>	MT4 (p,n) >>



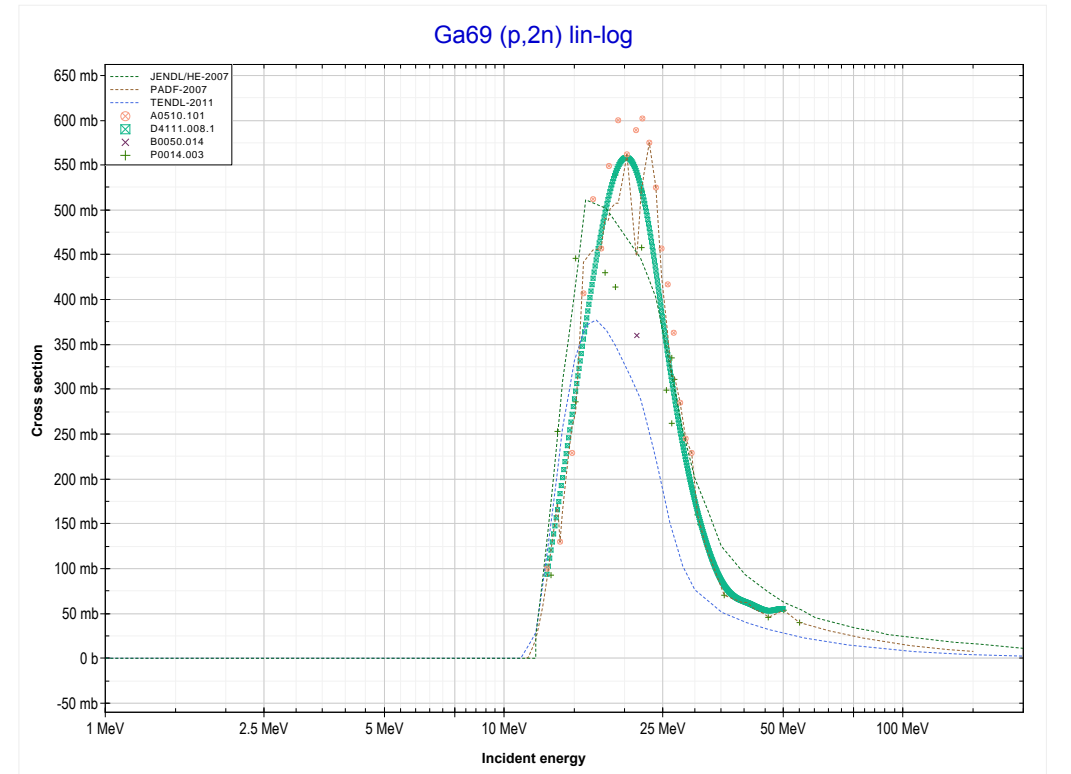
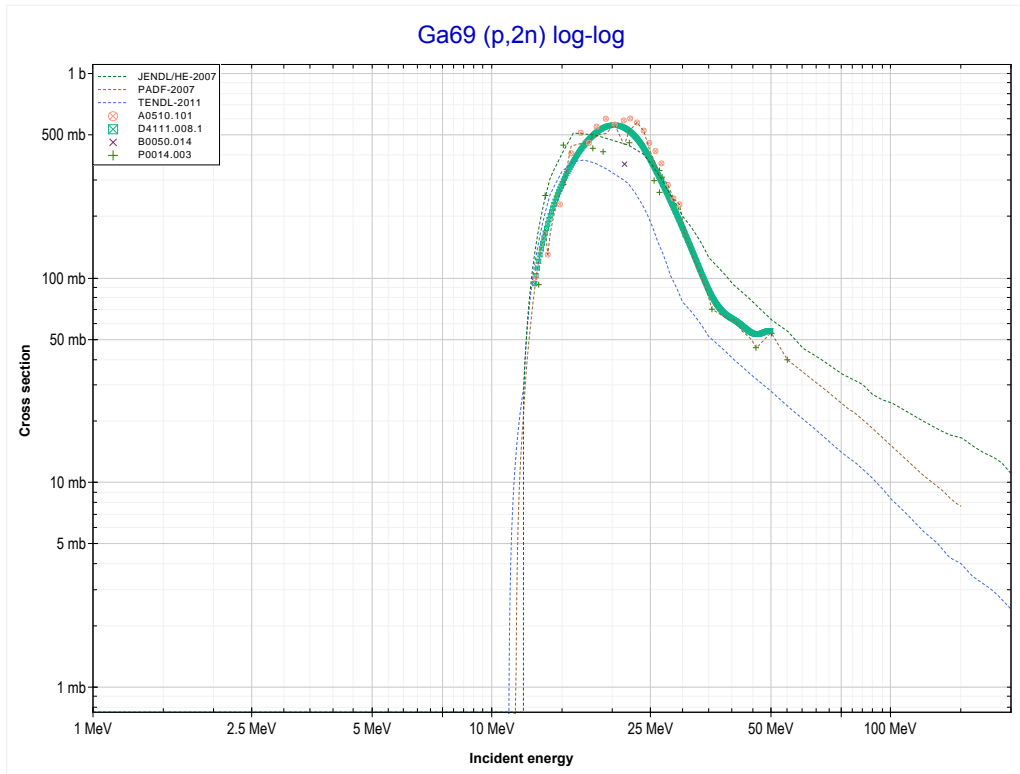
Reaction	Q-Value
Zn70(p, $\alpha$ )Cu67	2618.25 keV
Zn70(p,p+t)Cu67	-17195.61 keV
Zn70(p,n+He3)Cu67	-17959.36 keV
Zn70(p,2d)Cu67	-21228.27 keV
Zn70(p,n+p+d)Cu67	-23452.84 keV
Zn70(p,2n+2p)Cu67	-25677.40 keV

<< 30-Zn-70	<b>31-Ga-69</b>	31-Ga-71 >>
<< MT107 (p, $\alpha$ )	<b>MT4 (p,n) or MT5 (Ge69 production)</b>	MT16 (p,2n) >>



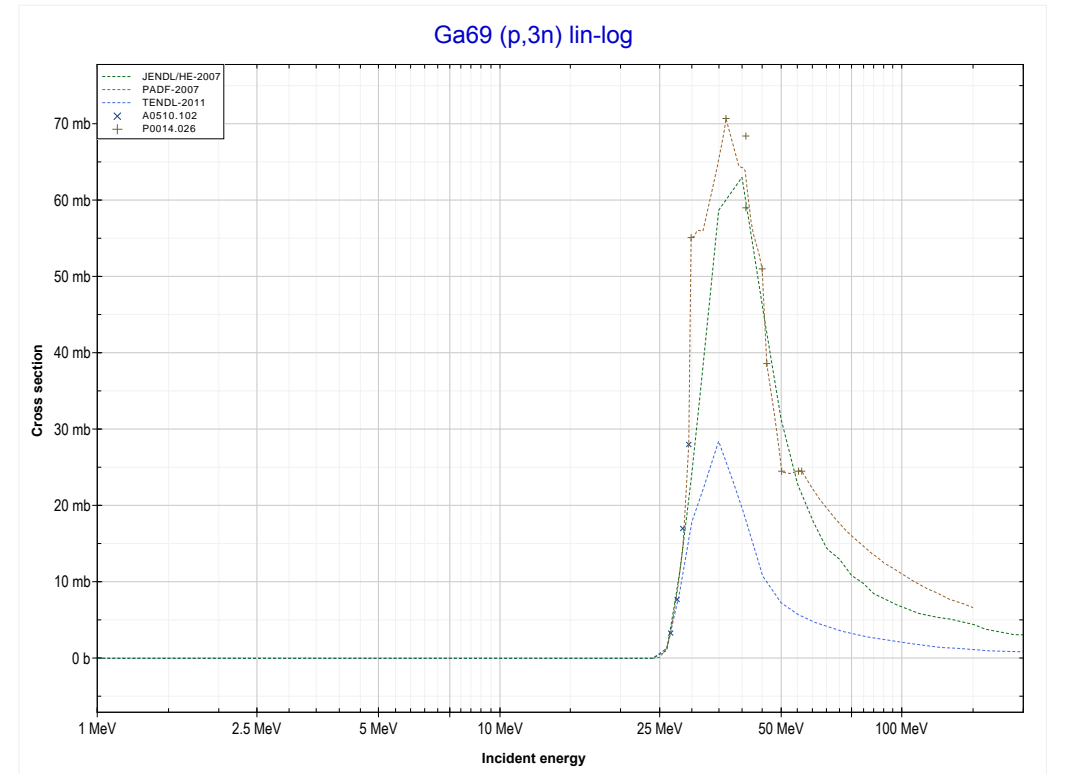
Reaction	Q-Value
Ga69(p,n)Ge69	-3009.55 keV

<< 30-Zn-68	<b>31-Ga-69</b>	32-Ge-70 >>
<< MT4 (p,n)	<b>MT16 (p,2n) or MT5 (Ge68 production)</b>	MT17 (p,3n) >>



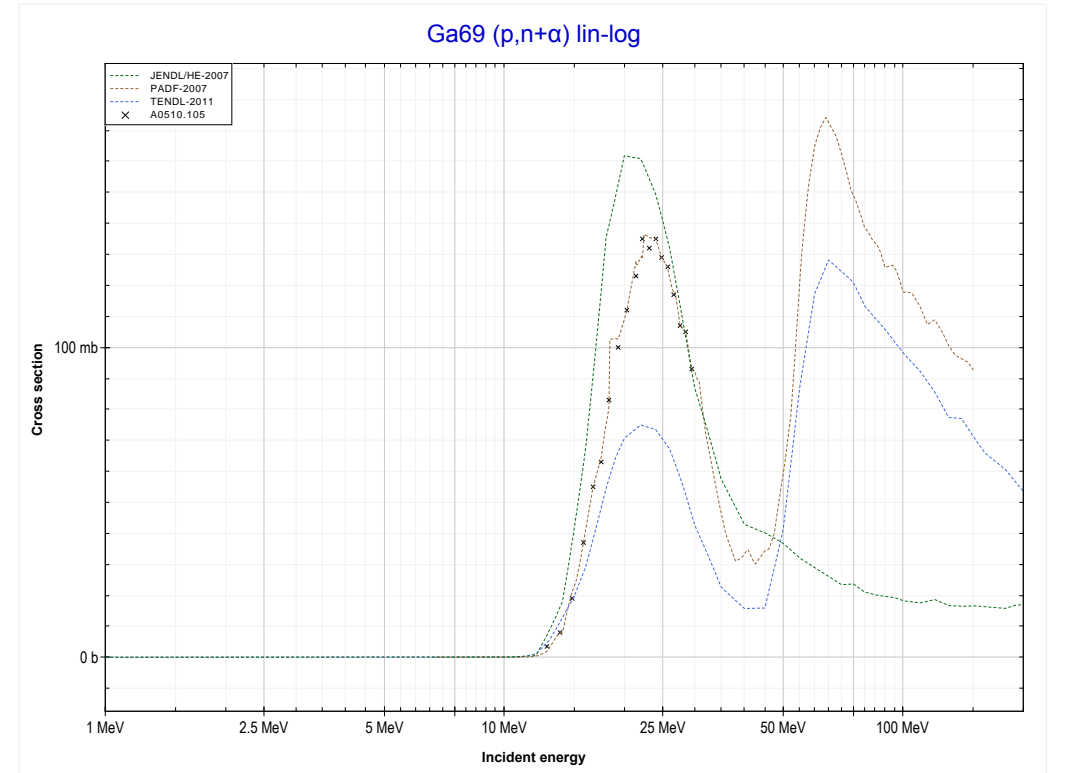
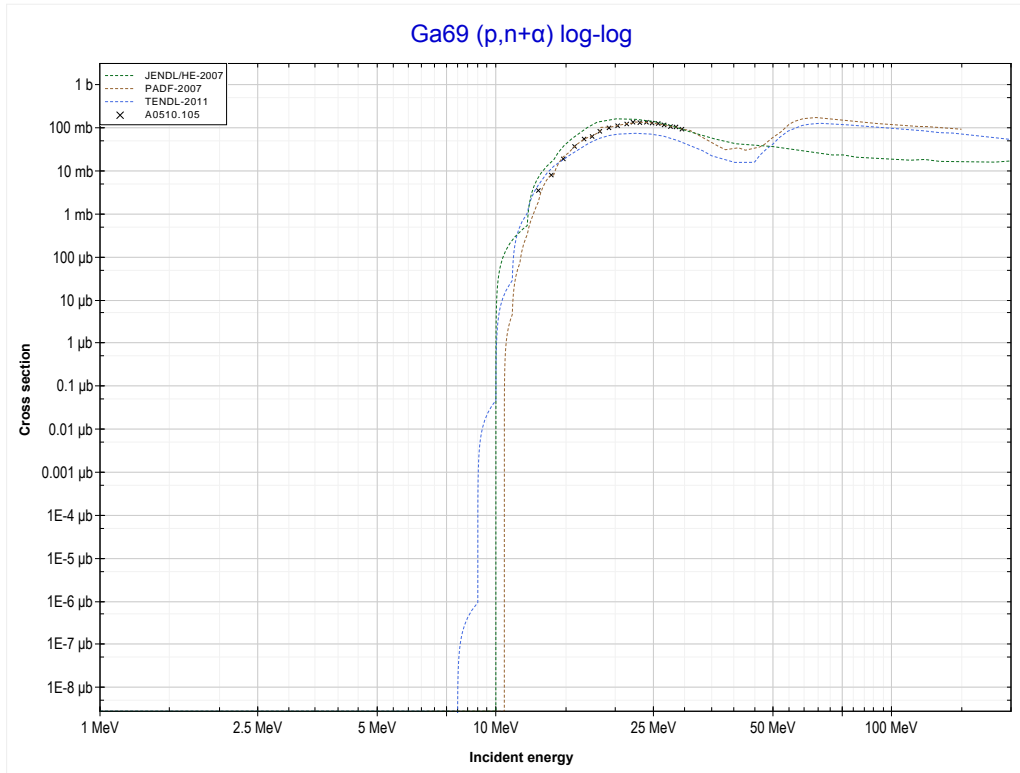
Reaction	Q-Value
Ga69(p,2n)Ge68	-11201.46 keV

<< 30-Zn-68	<b>31-Ga-69</b>	31-Ga-71 >>
<< MT16 (p,2n)	<b>MT17 (p,3n) or MT5 (Ge67 production)</b>	MT22 (p,n+α) >>



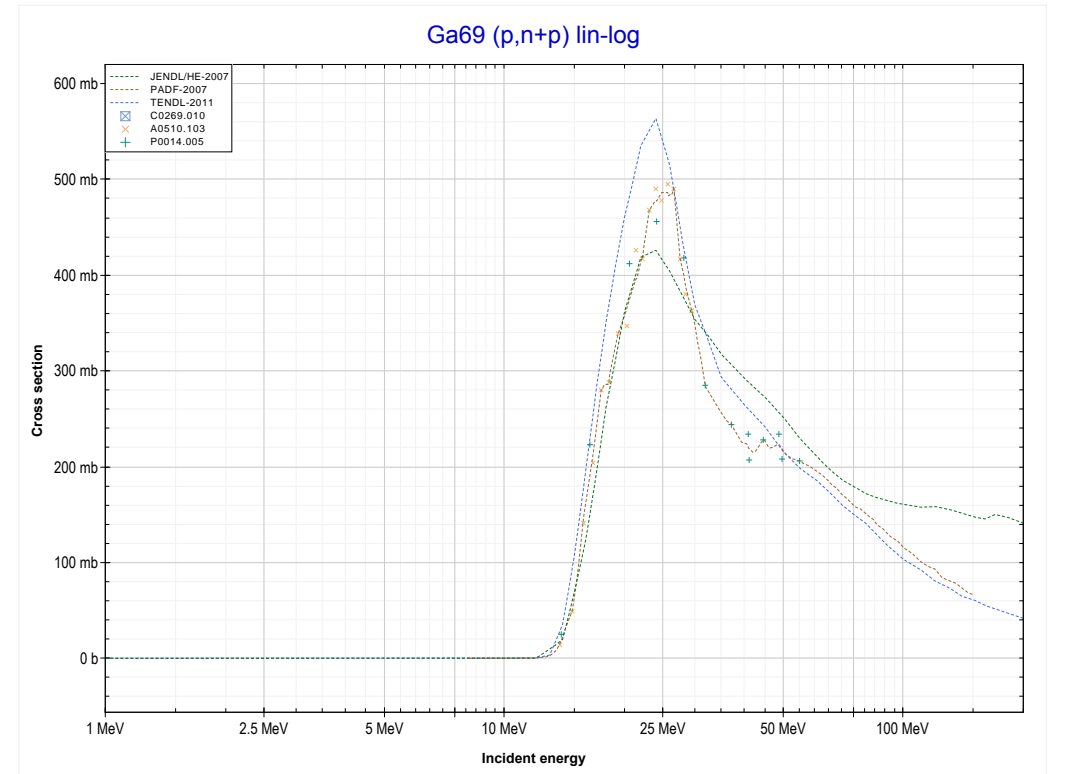
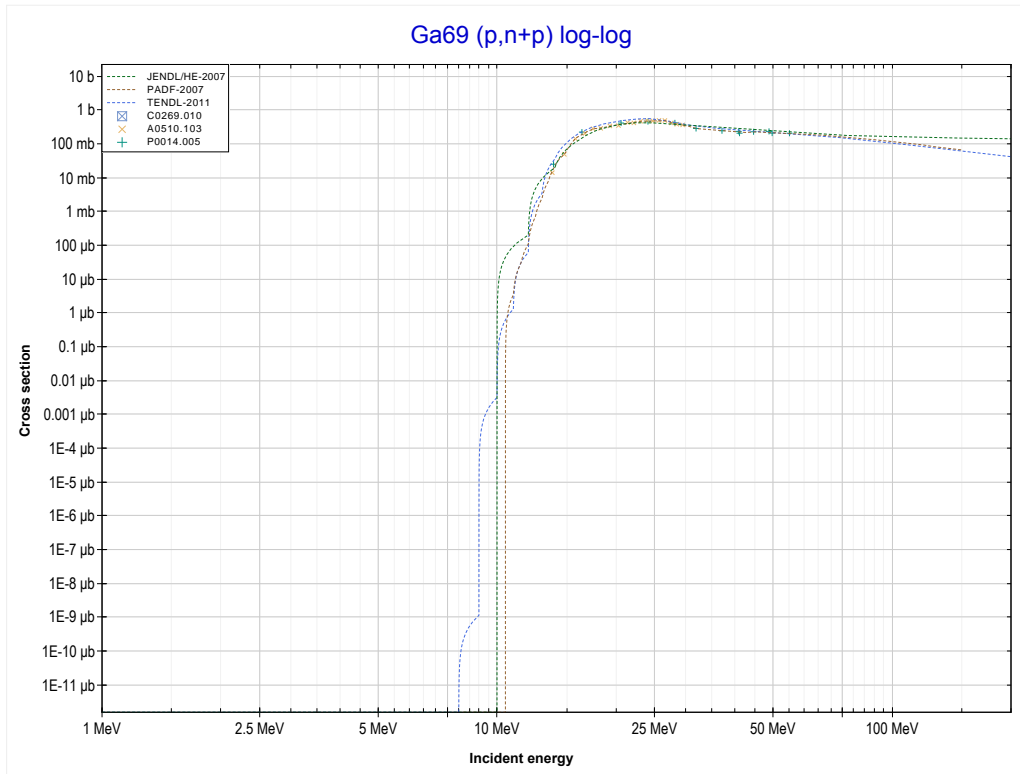
Reaction	Q-Value
Ga69(p,3n)Ge67	-23594.78 keV

<< 30-Zn-68	<b>31-Ga-69</b>	32-Ge-70 >>
<< MT17 (p,3n)	<b>MT22 (p,n+α) or MT5 (Zn65 production)</b>	MT28 (p,n+p) >>



Reaction	Q-Value
Ga69(p,n+α)Zn65	-6623.46 keV
Ga69(p,d+t)Zn65	-24212.76 keV
Ga69(p,n+p+t)Zn65	-26437.32 keV
Ga69(p,2n+He3)Zn65	-27201.08 keV
Ga69(p,n+2d)Zn65	-30469.99 keV
Ga69(p,2n+p+d)Zn65	-32694.56 keV
Ga69(p,3n+2p)Zn65	-34919.12 keV

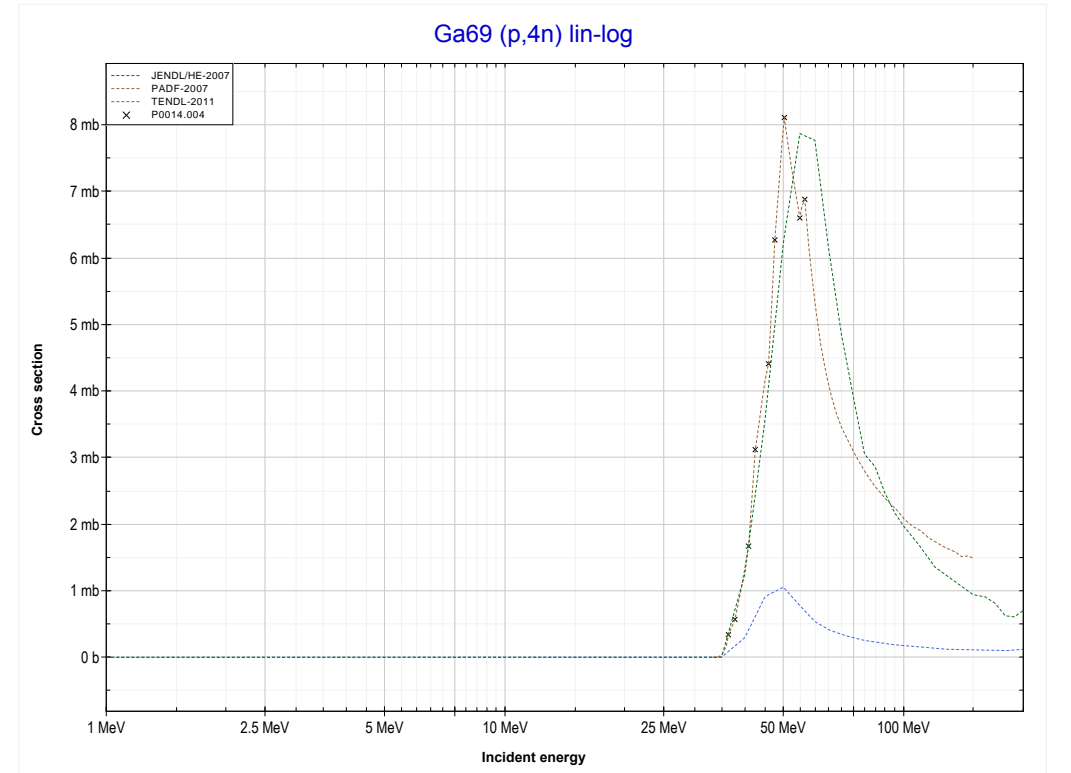
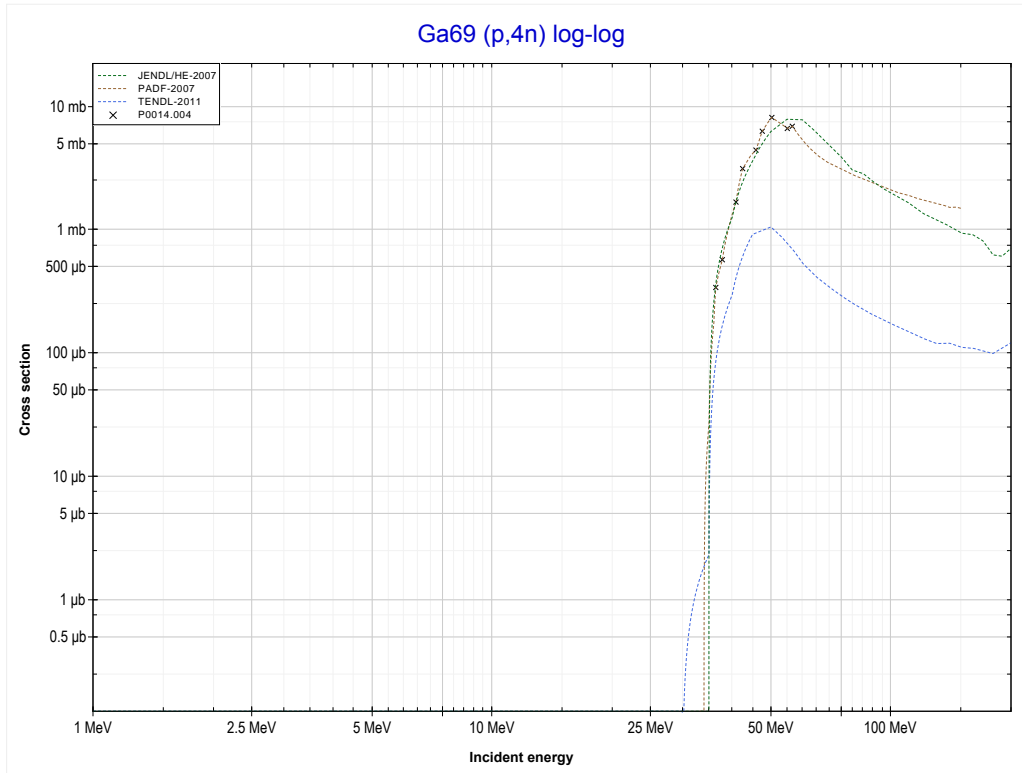
<< 30-Zn-70	<b>31-Ga-69</b>	31-Ga-71 >>
<< MT22 (p,n+α)	<b>MT28 (p,n+p) or MT5 (Ga68 production)</b>	MT37 (p,4n) >>



Reaction	Q-Value
Ga69(p,d)Ga68	-8088.45 keV
Ga69(p,n+p)Ga68	-10313.02 keV

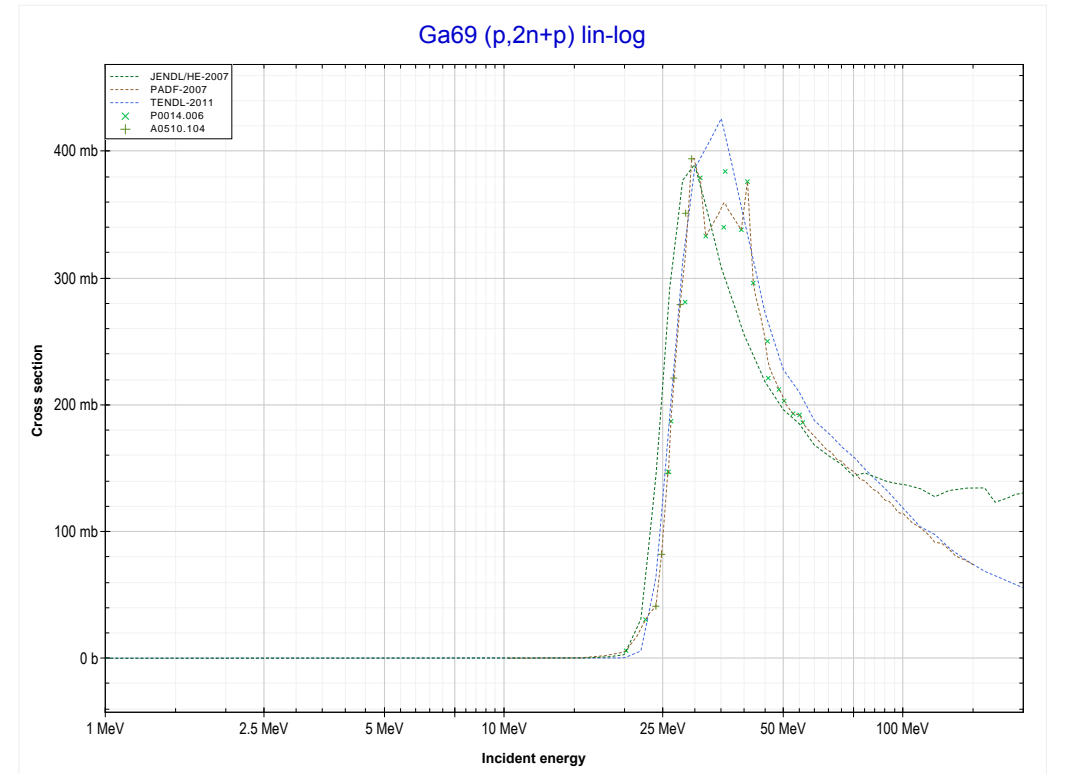
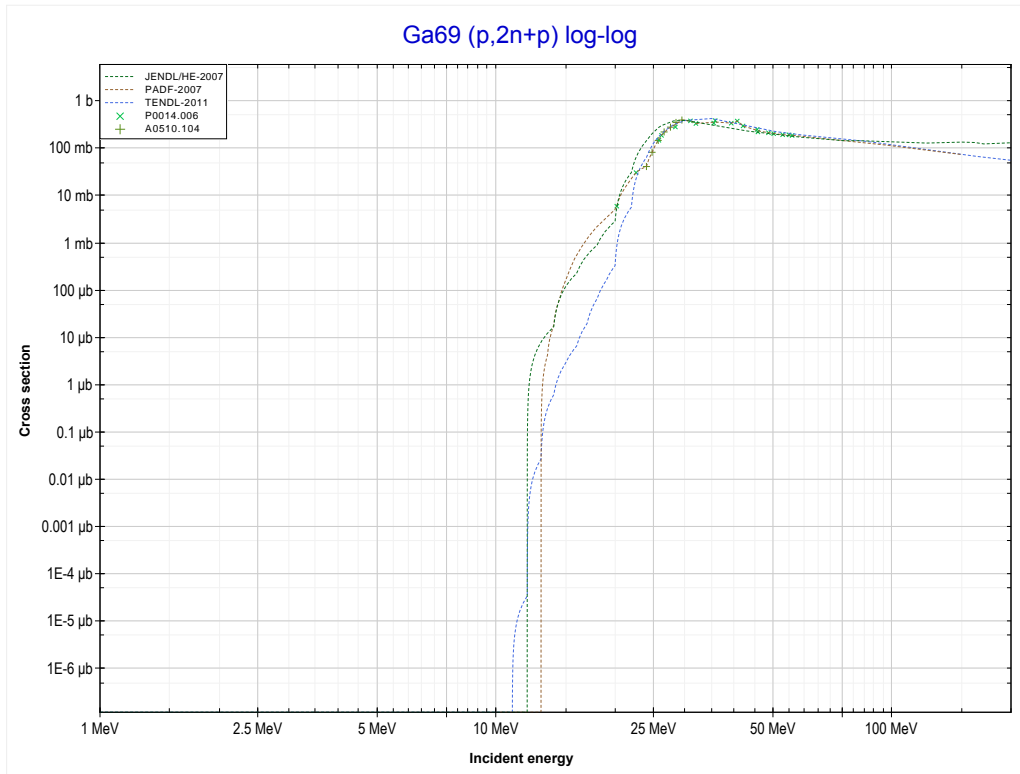


<< 29-Cu-65	<b>31-Ga-69</b>	31-Ga-71 >>
<< MT28 (p,n+p)	<b>MT37 (p,4n) or MT5 (Ge66 production)</b>	MT41 (p,2n+p) >>



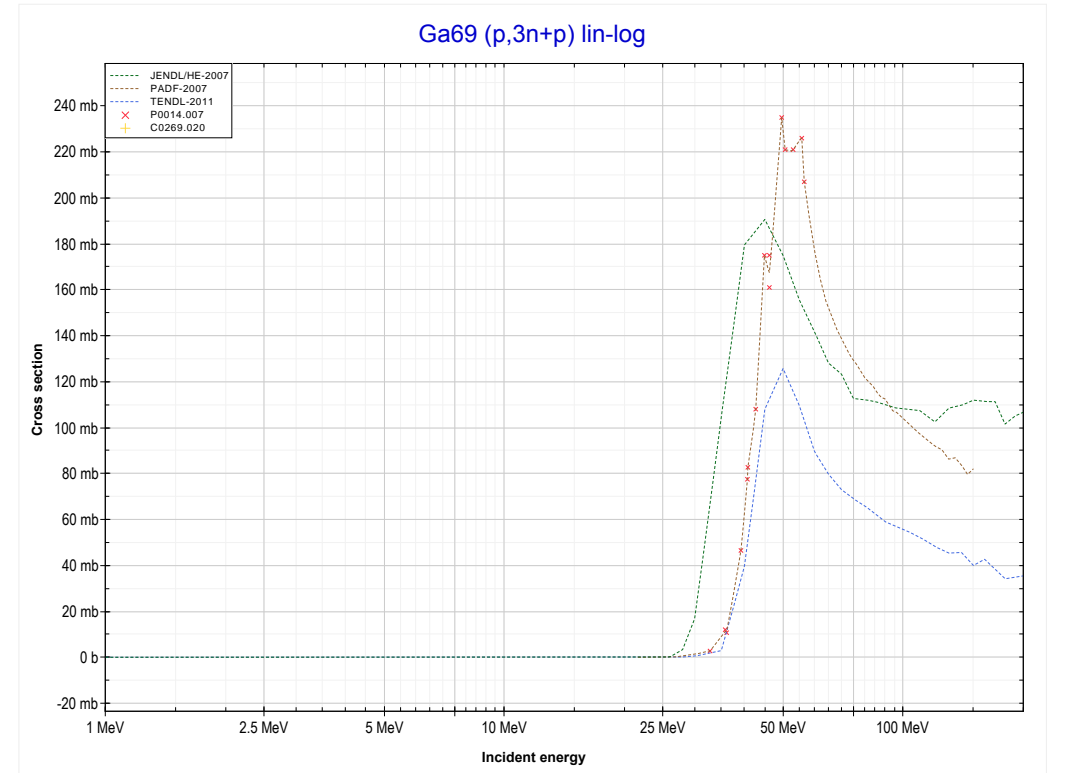
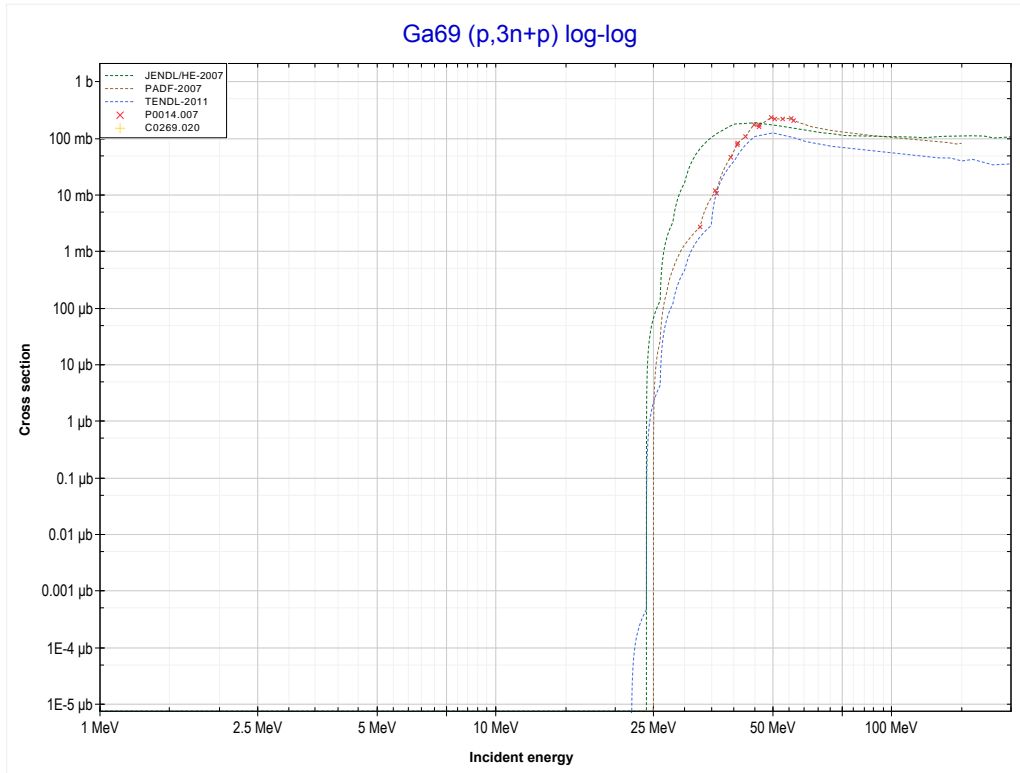
Reaction	Q-Value
Ga69(p,4n)Ge66	-32704.10 keV

<< 30-Zn-64	<b>31-Ga-69</b>	34-Se-74 >>
<< MT37 (p,4n)	<b>MT41 (p,2n+p) or MT5 (Ga67 production)</b>	MT42 (p,3n+p) >>



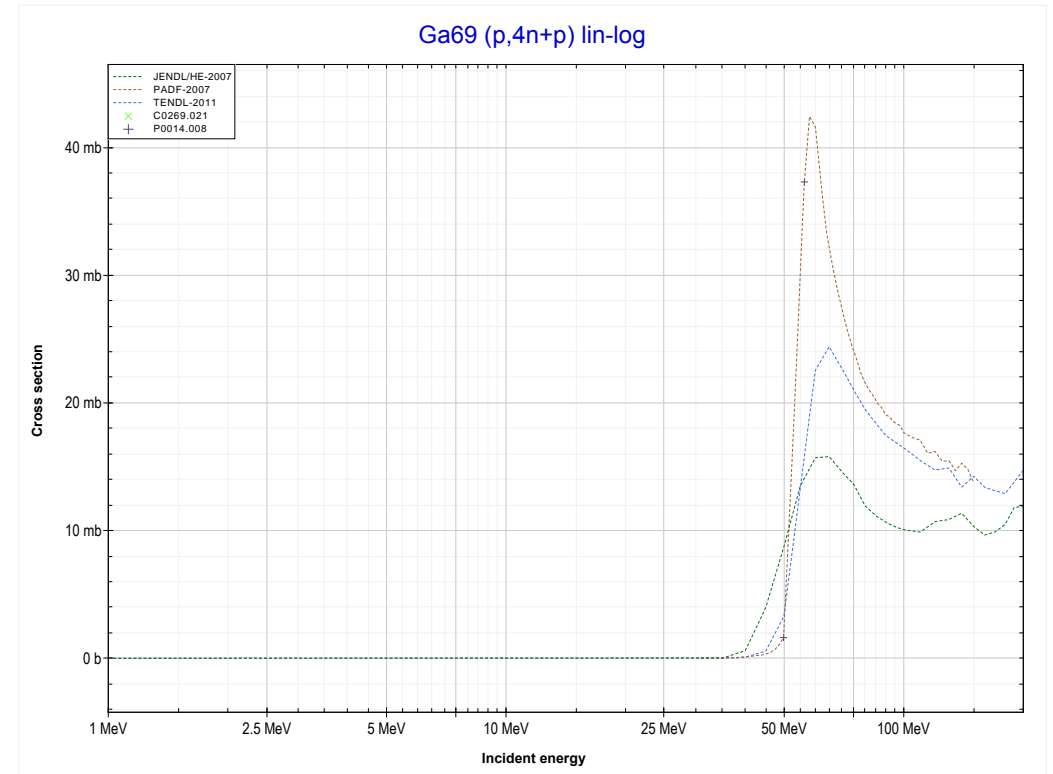
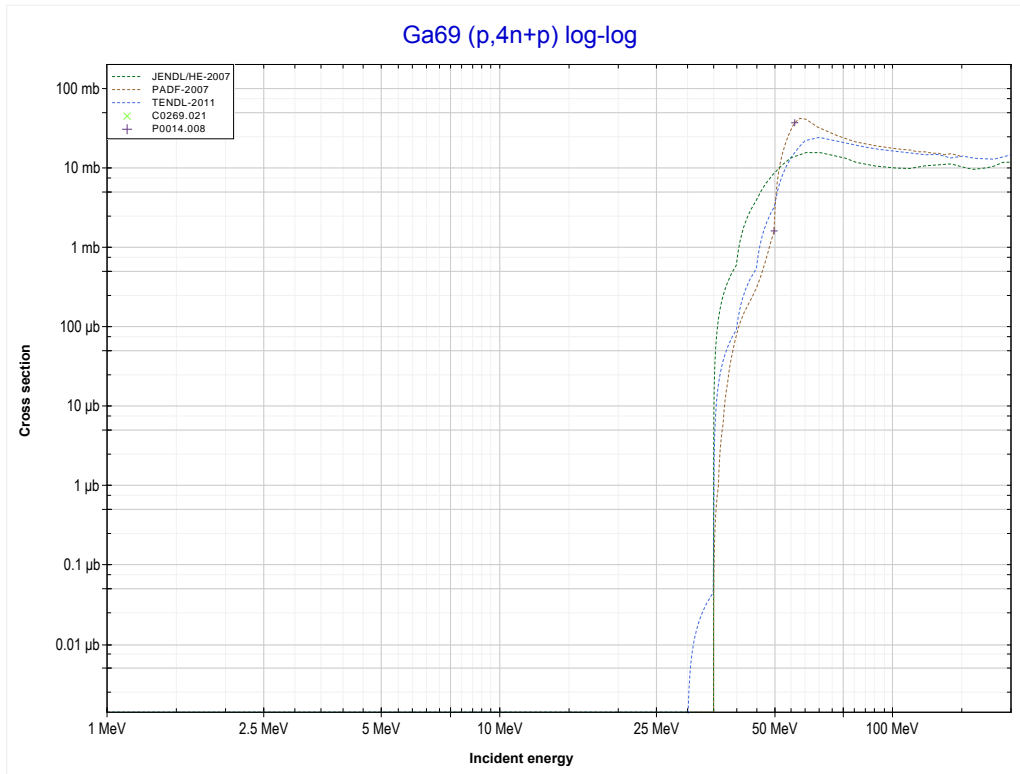
Reaction	Q-Value
Ga69(p,t)Ga67	-10108.94 keV
Ga69(p,n+d)Ga67	-16366.17 keV
Ga69(p,2n+p)Ga67	-18590.73 keV

<< 27-Co-59	<b>31-Ga-69</b>	31-Ga-71 >>
<< MT41 (p,2n+p)	<b>MT42 (p,3n+p) or MT5 (Ga66 production)</b>	MT156 (p,4n+p) >>



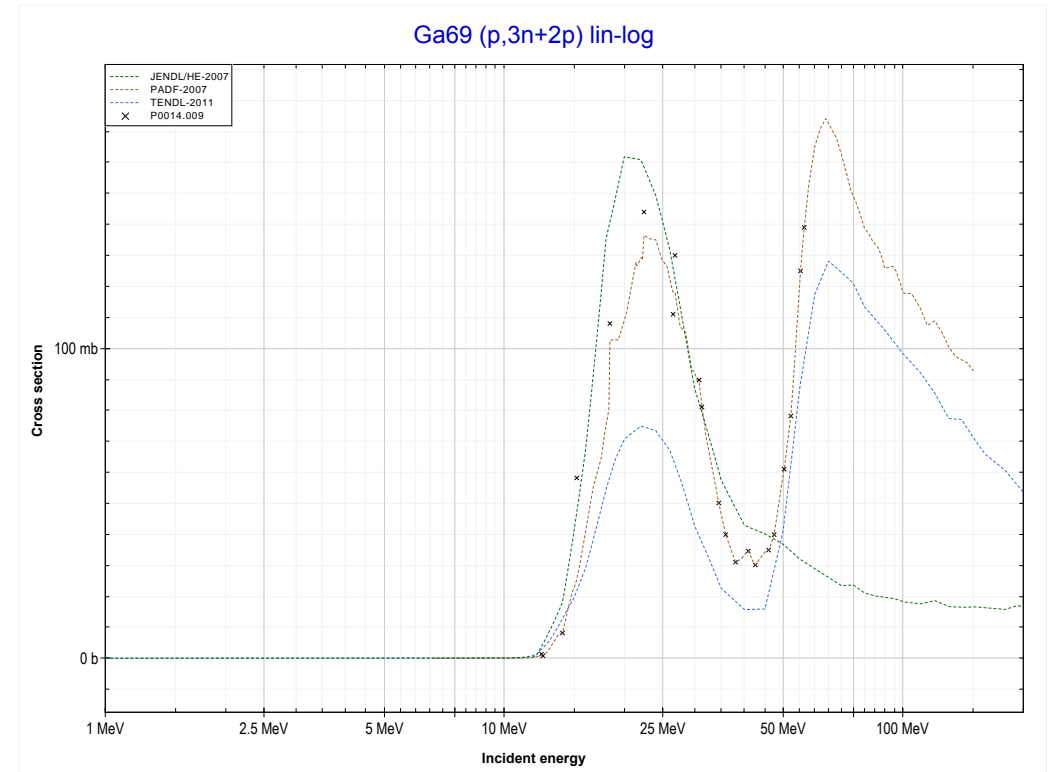
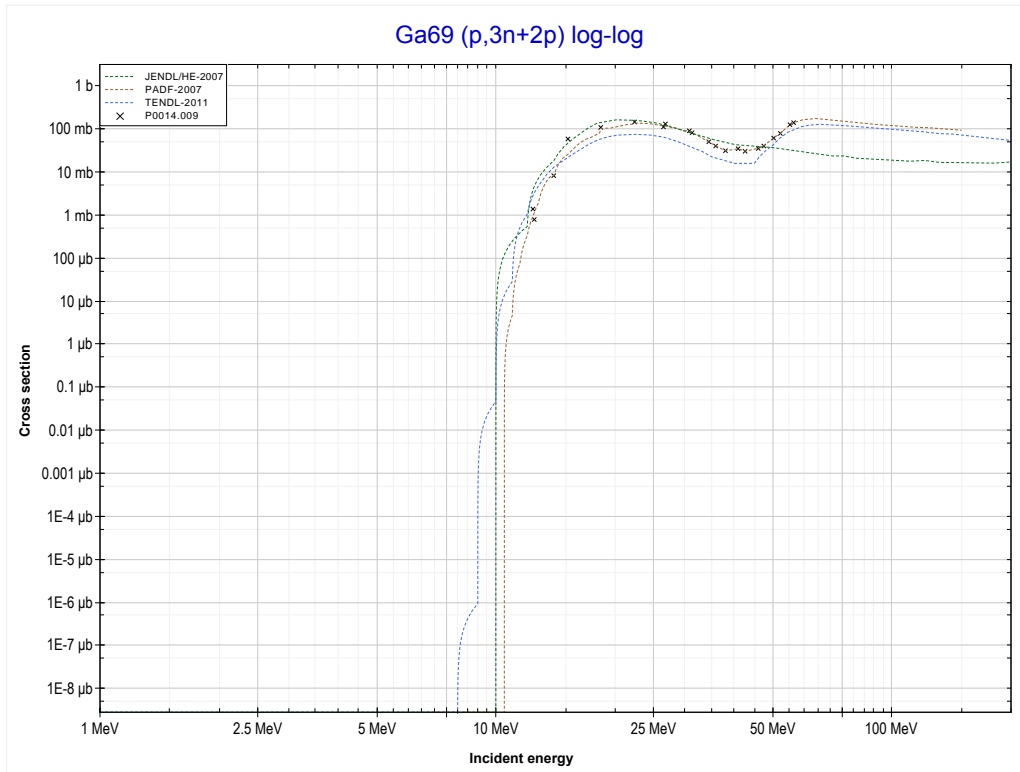
Reaction	Q-Value
Ga69(p,n+t)Ga66	-21335.95 keV
Ga69(p,2n+d)Ga66	-27593.19 keV
Ga69(p,3n+p)Ga66	-29817.75 keV

<< 27-Co-59	<b>31-Ga-69</b>	31-Ga-71 >>
<< MT42 (p,3n+p)	<b>MT156 (p,4n+p) or MT5 (Ga65 production)</b>	MT179 (p,3n+2p) >>



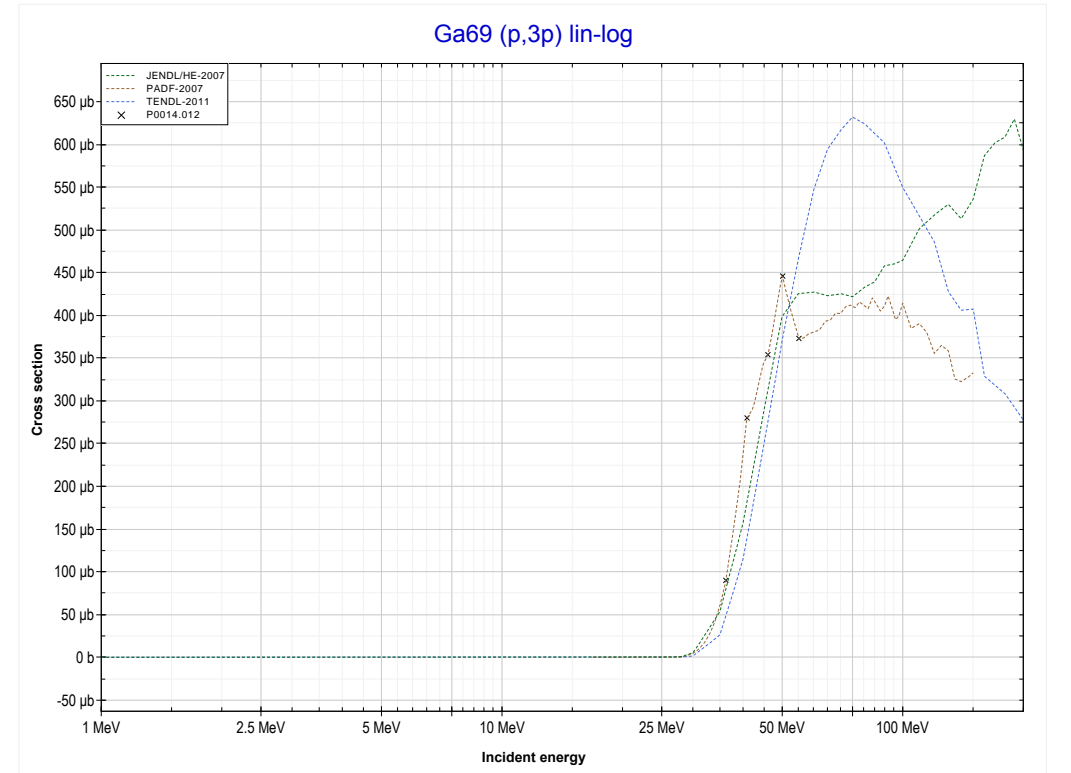
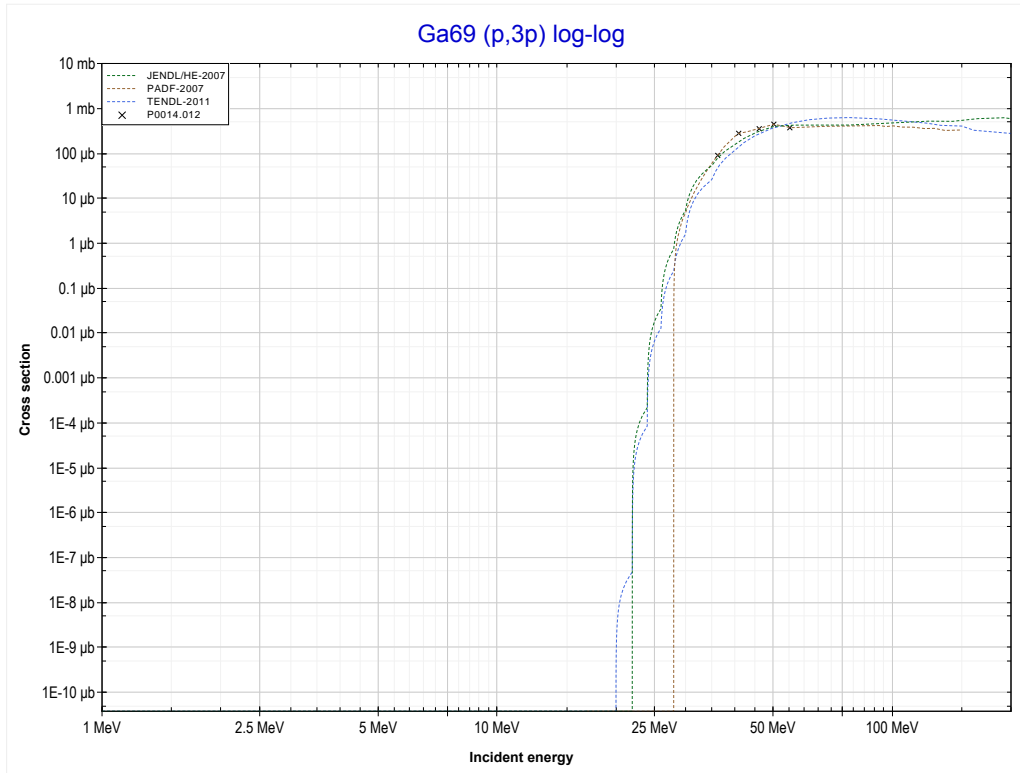
Reaction	Q-Value
Ga69(p,2n+t)Ga65	-30474.07 keV
Ga69(p,3n+d)Ga65	-36731.30 keV
Ga69(p,4n+p)Ga65	-38955.87 keV

<< 30-Zn-64	<b>31-Ga-69</b>	90-Th-232 >>
<< MT156 (p,4n+p)	<b>MT179 (p,3n+2p) or MT5 (Zn65 production)</b>	MT197 (p,3p) >>



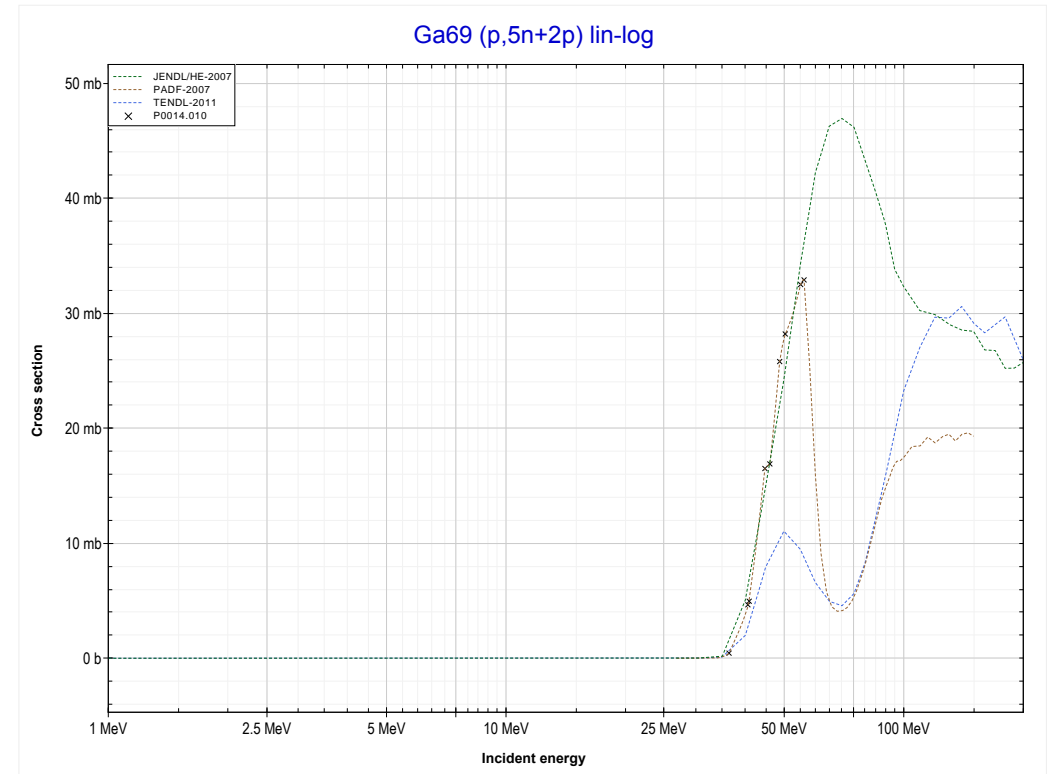
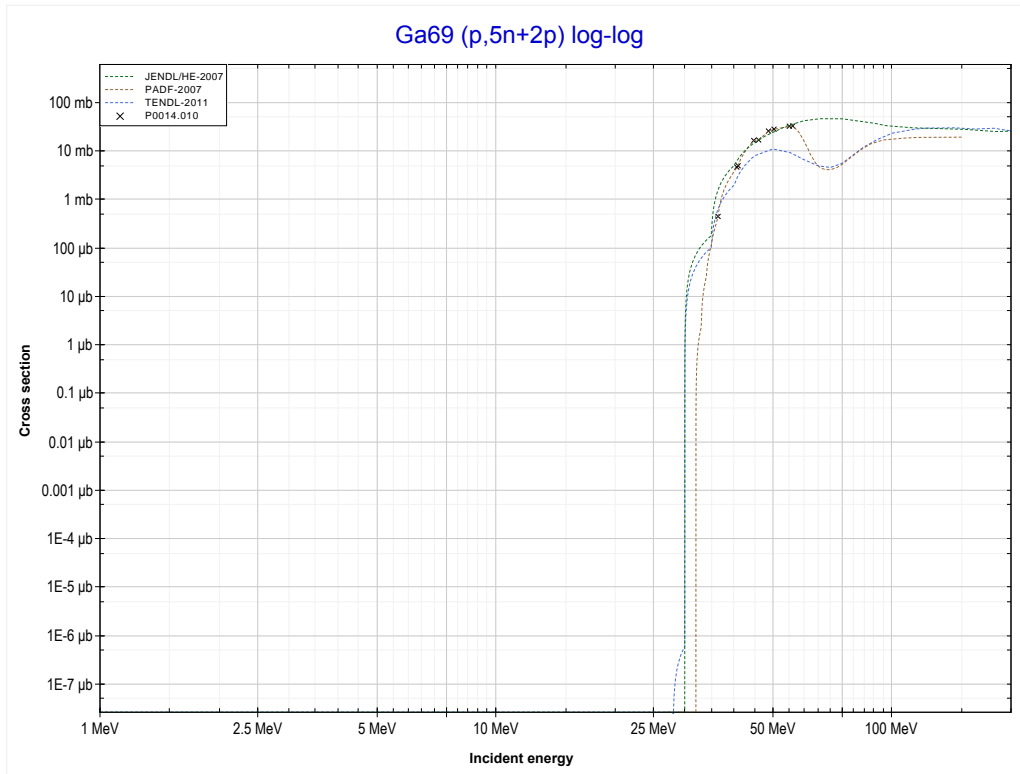
Reaction	Q-Value
Ga69(p,n+α)Zn65	-6623.46 keV
Ga69(p,d+t)Zn65	-24212.76 keV
Ga69(p,n+p+t)Zn65	-26437.32 keV
Ga69(p,2n+He3)Zn65	-27201.08 keV
Ga69(p,n+2d)Zn65	-30469.99 keV
Ga69(p,2n+p+d)Zn65	-32694.56 keV
Ga69(p,3n+2p)Zn65	-34919.12 keV

<< 23-V-51	<b>31-Ga-69</b>	33-As-75 >>
<< MT179 (p,3n+2p)	<b>MT197 (p,3p) or MT5 (Cu67 production)</b>	MT200 (p,5n+2p) >>



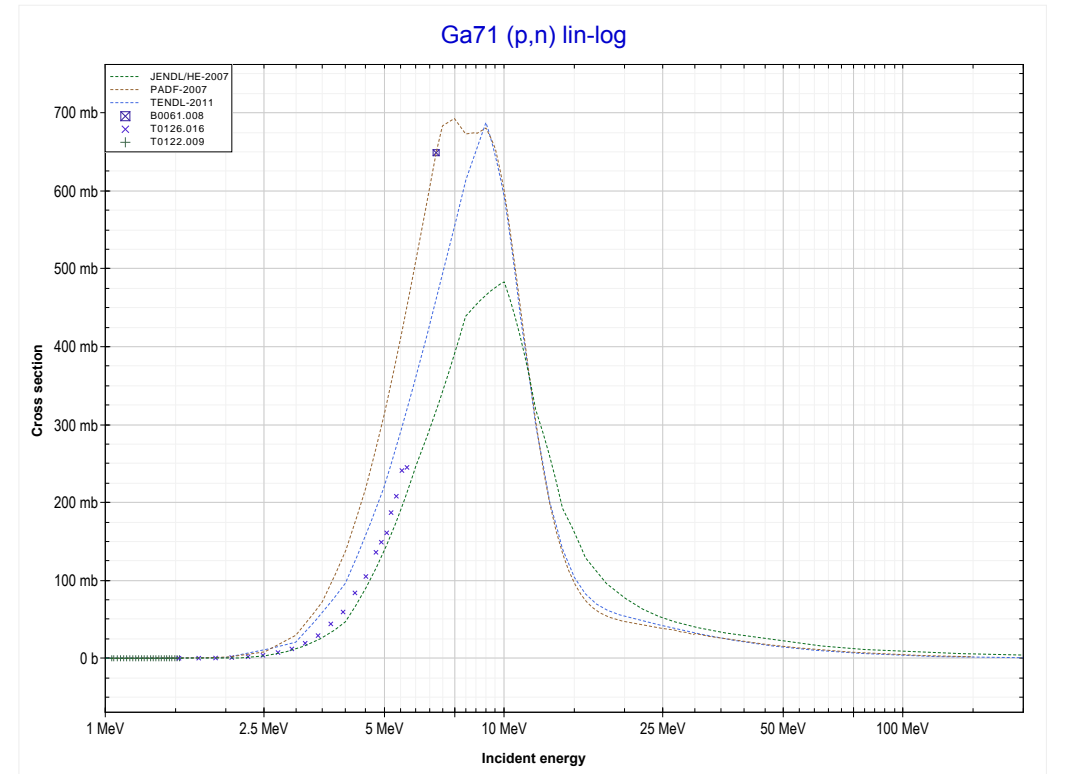
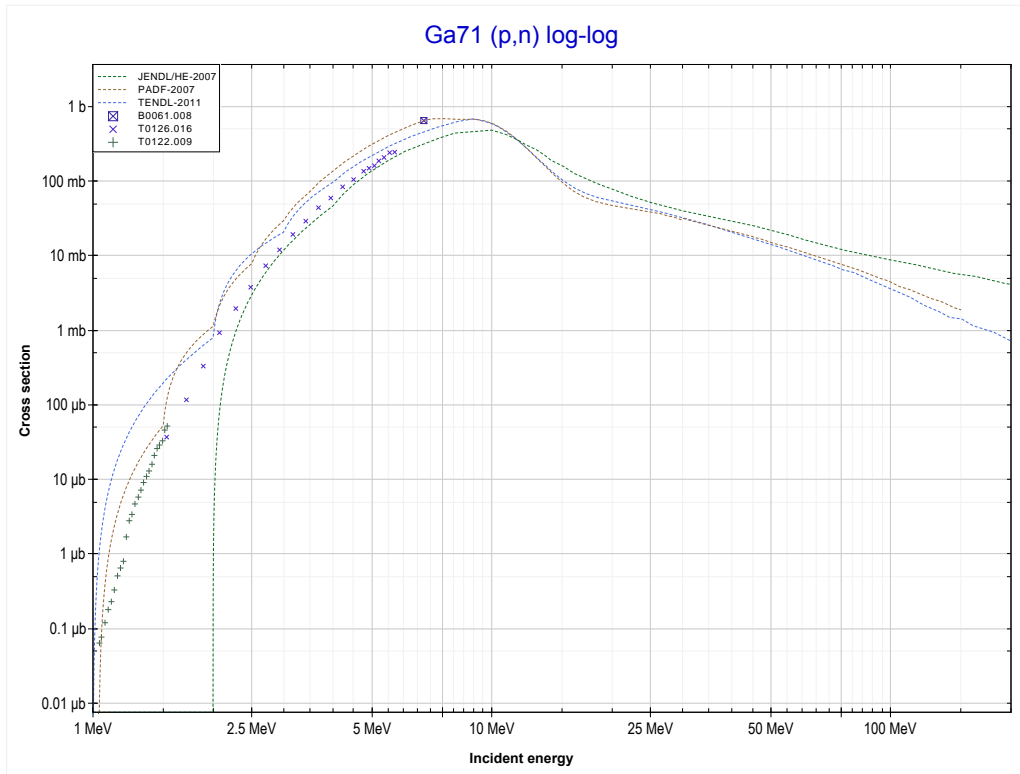
Reaction	Q-Value
Ga69(p,3p)Cu67	-16586.94 keV

	<b>31-Ga-69</b>	<a href="#">31-Ga-71 &gt;&gt;</a>
<a href="#">&lt;&lt; MT197 (p,3p)</a>	<b>MT200 (p,5n+2p) or MT5 (Zn63 production)</b>	<a href="#">MT4 (p,n) &gt;&gt;</a>



Reaction	Q-Value
Ga69(p,3n+α)Zn63	-26464.70 keV
Ga69(p,n+2t)Zn63	-37796.76 keV
Ga69(p,2n+d+t)Zn63	-44053.99 keV
Ga69(p,3n+p+t)Zn63	-46278.56 keV
Ga69(p,4n+He3)Zn63	-47042.31 keV
Ga69(p,3n+2d)Zn63	-50311.22 keV
Ga69(p,4n+p+d)Zn63	-52535.79 keV
Ga69(p,5n+2p)Zn63	-54760.36 keV

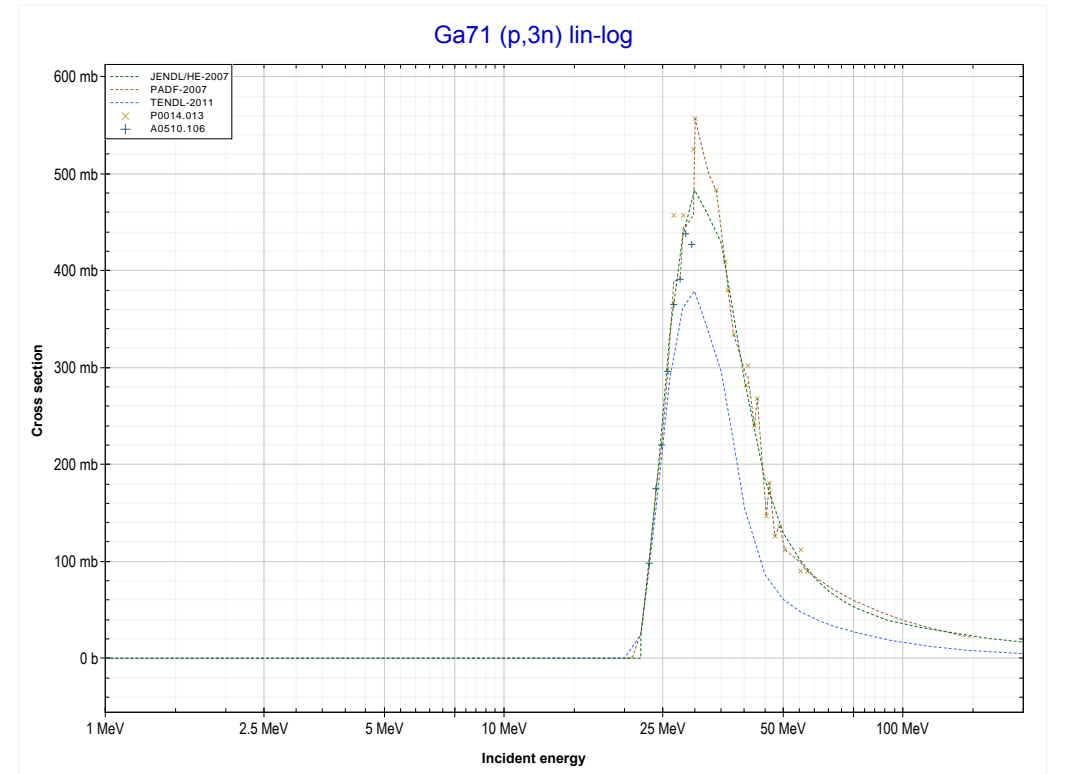
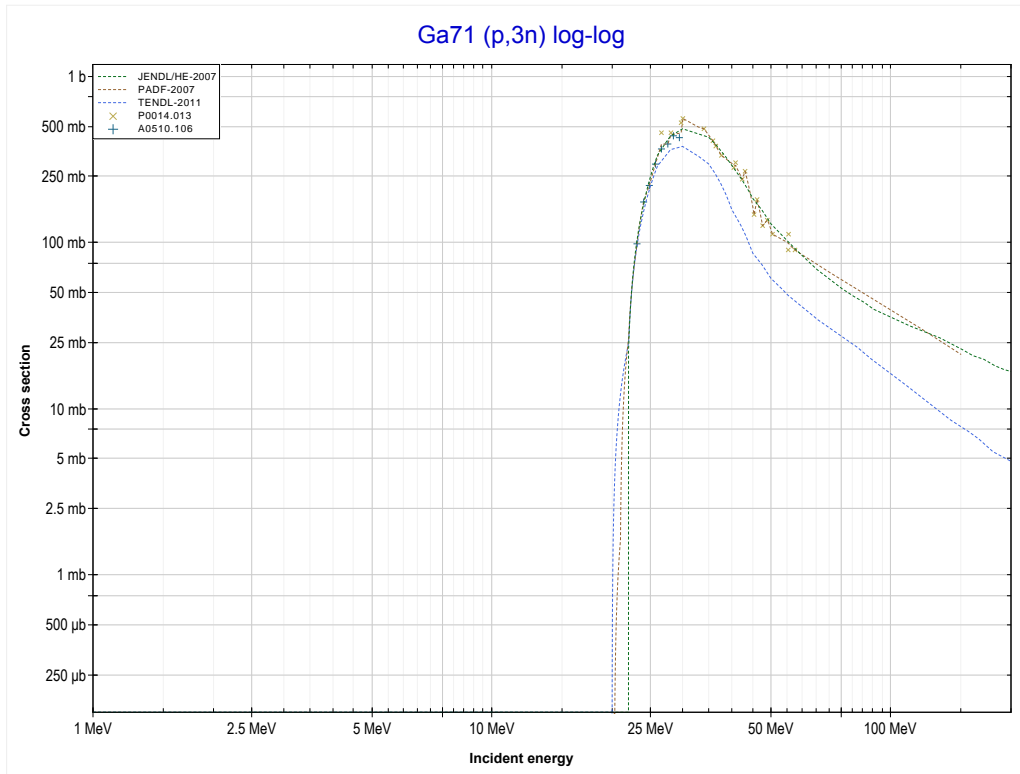
<< 31-Ga-69	<b>31-Ga-71</b>	32-Ge-70 >>
<< MT200 (p,5n+2p)	<b>MT4 (p,n) or MT5 (Ge71 production)</b>	MT17 (p,3n) >>



Reaction	Q-Value
Ga71(p,n)Ge71	-1014.85 keV

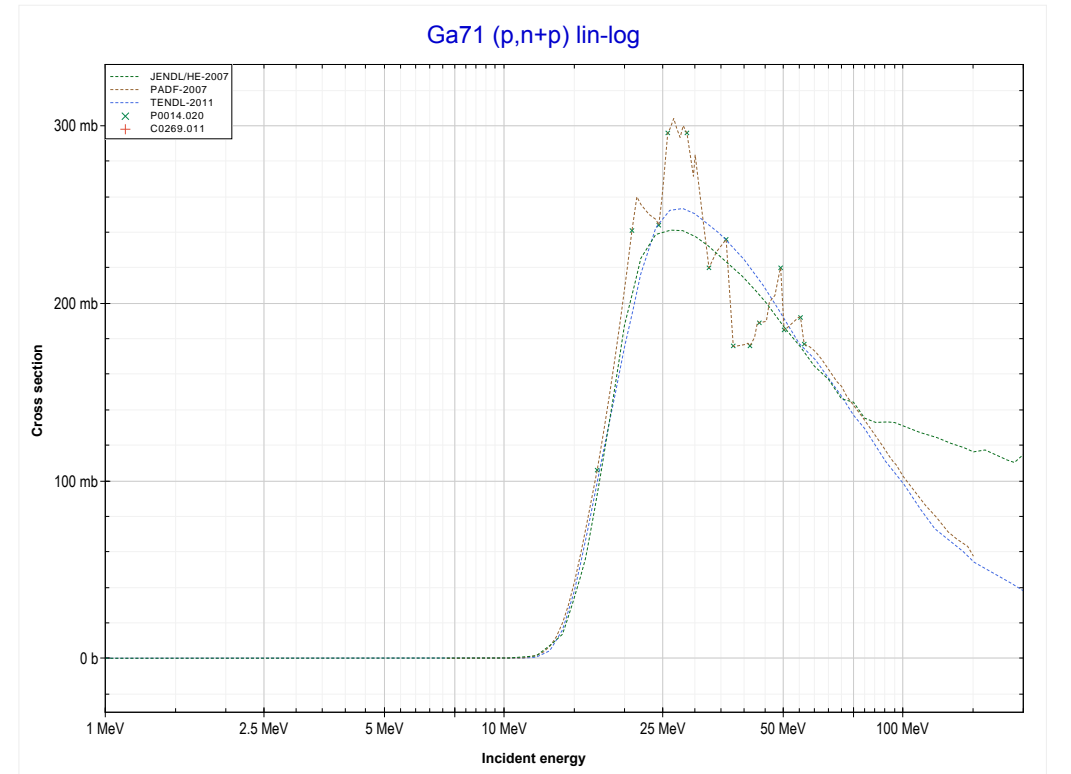
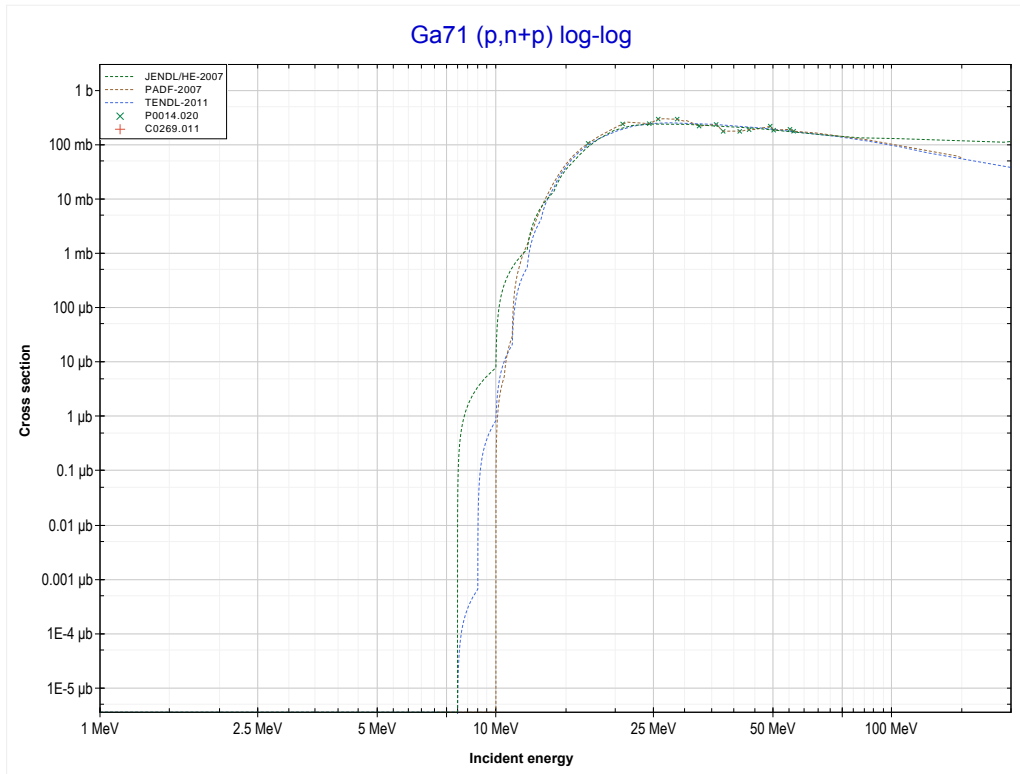


<< 31-Ga-69	<b>31-Ga-71</b>	32-Ge-72 >>
<< MT4 (p,n)	<b>MT17 (p,3n) or MT5 (Ge69 production)</b>	MT28 (p,n+p) >>



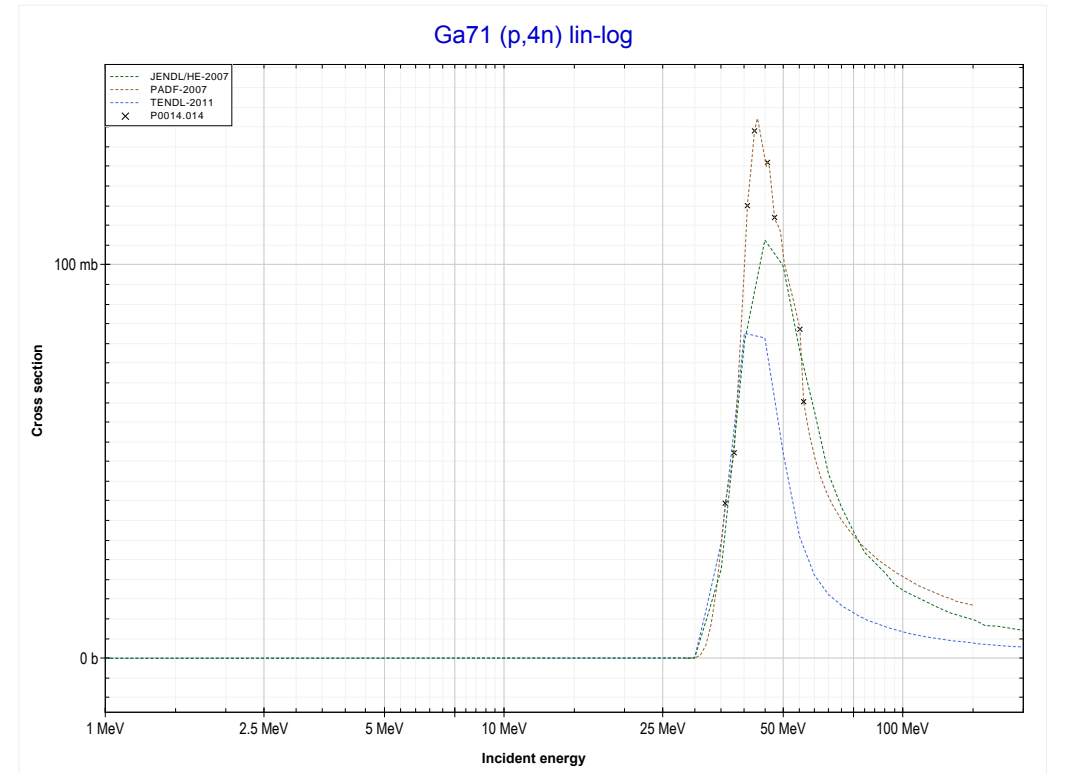
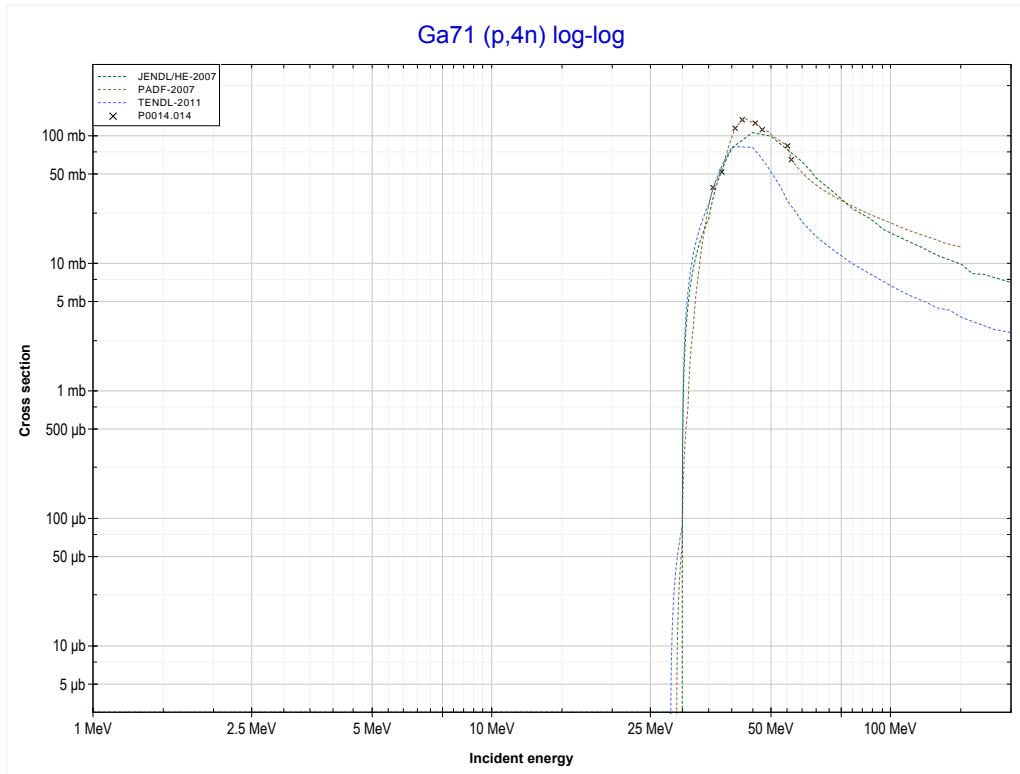
Reaction	Q-Value
Ga71(p,3n)Ge69	-19964.58 keV

<< 31-Ga-69	<b>31-Ga-71</b>	32-Ge-70 >>
<< MT17 (p,3n)	<b>MT28 (p,n+p) or MT5 (Ga70 production)</b>	MT37 (p,4n) >>



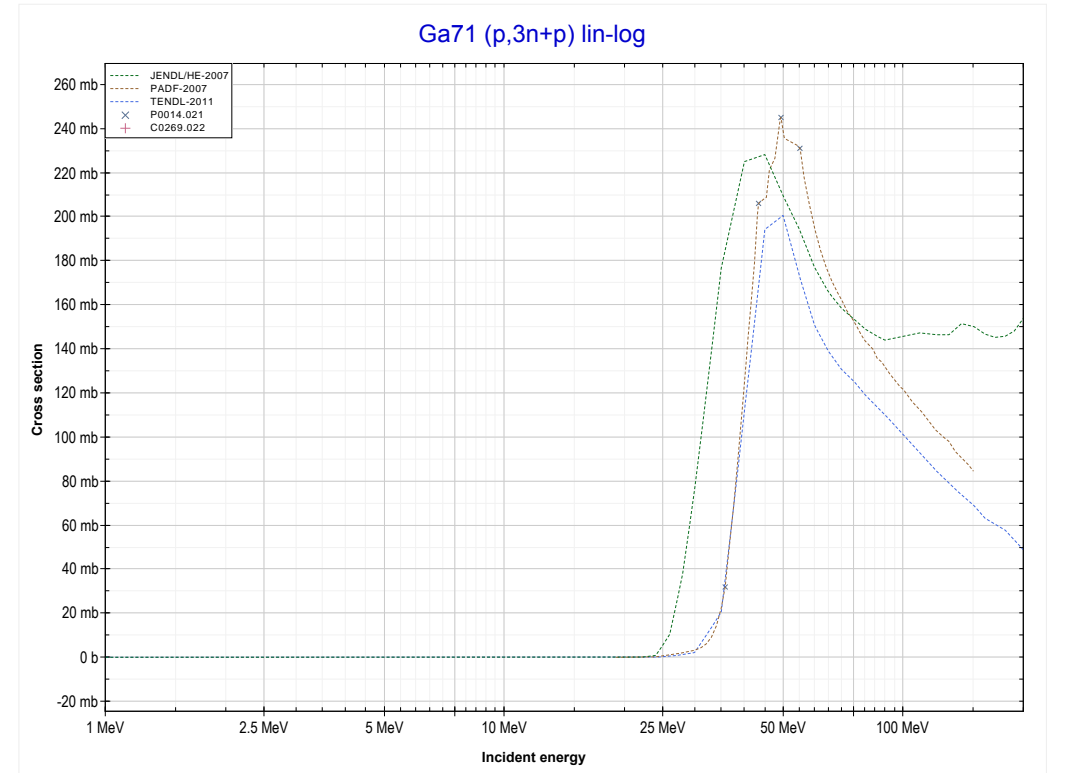
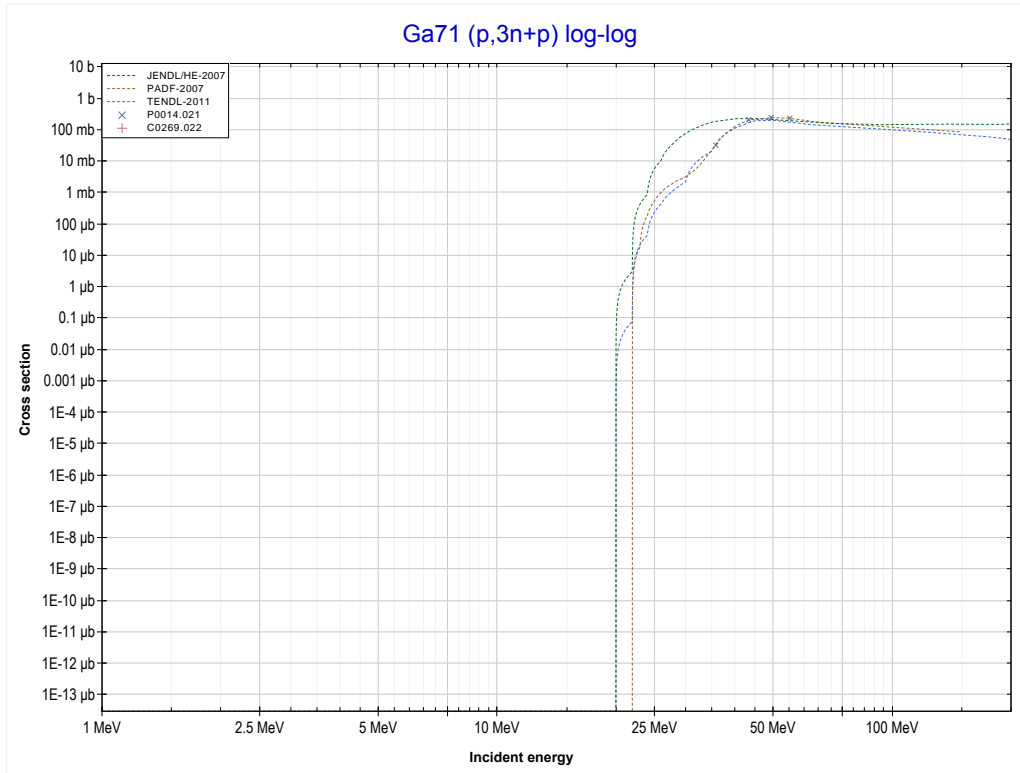
Reaction	Q-Value
Ga71(p,d)Ga70	-7076.85 keV
Ga71(p,n+p)Ga70	-9301.42 keV

<< 31-Ga-69	<b>31-Ga-71</b>	33-As-75 >>
<< MT28 (p,n+p)	<b>MT37 (p,4n) or MT5 (Ge68 production)</b>	MT42 (p,3n+p) >>



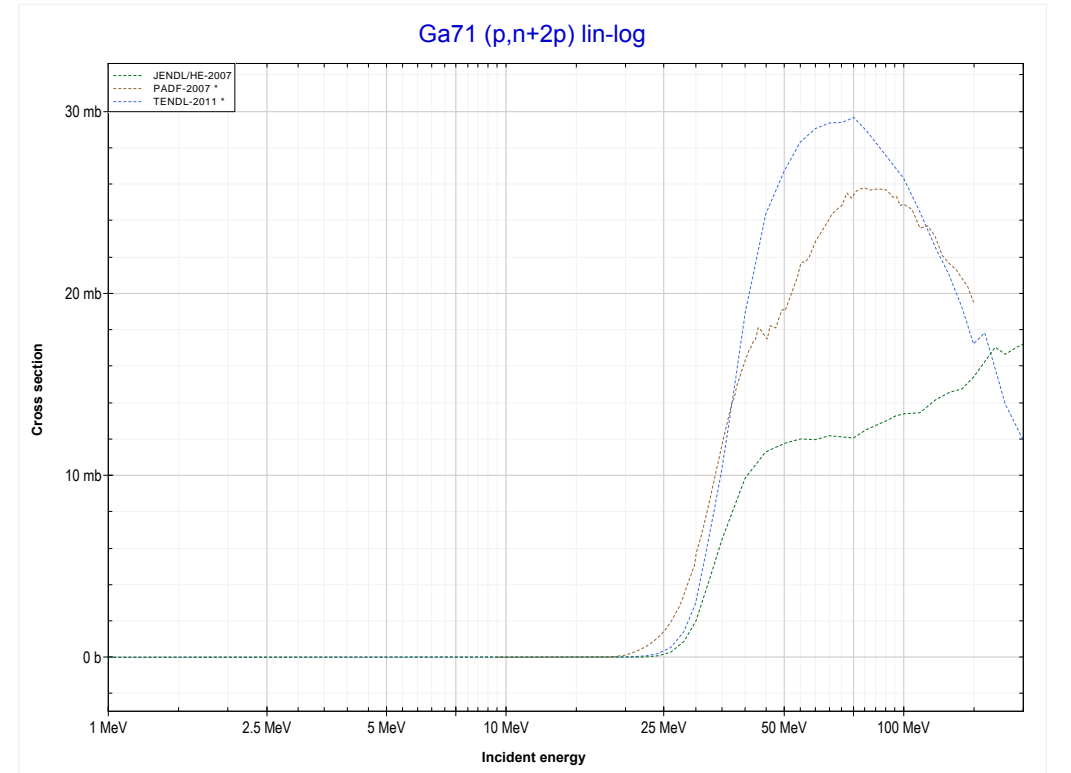
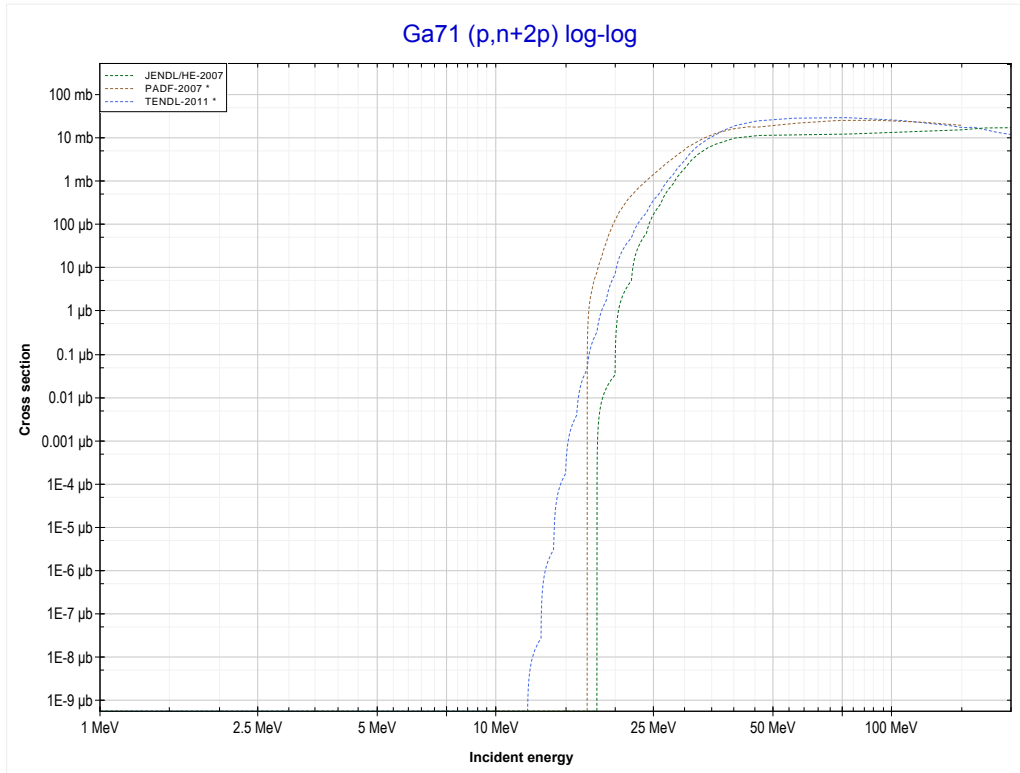
Reaction	Q-Value
Ga71(p,4n)Ge68	-28156.50 keV

<< 31-Ga-69	<b>31-Ga-71</b>	39-Y-89 >>
<< MT37 (p,4n)	<b>MT42 (p,3n+p) or MT5 (Ga68 production)</b>	MT44 (p,n+2p) >>



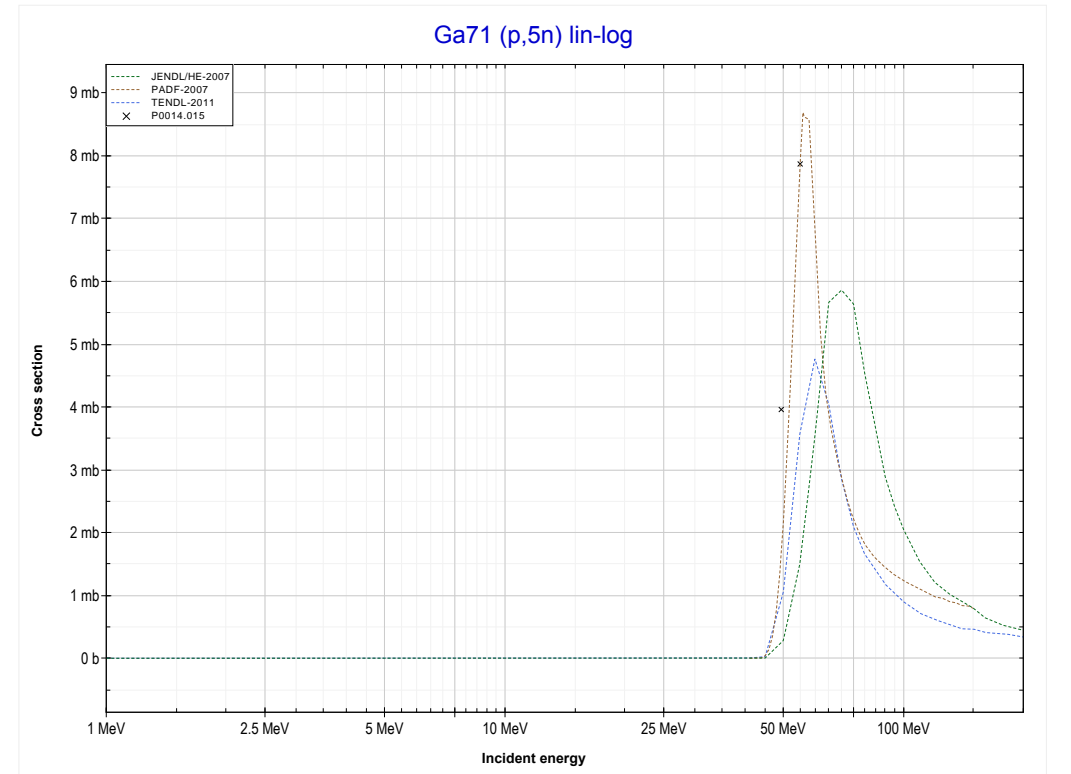
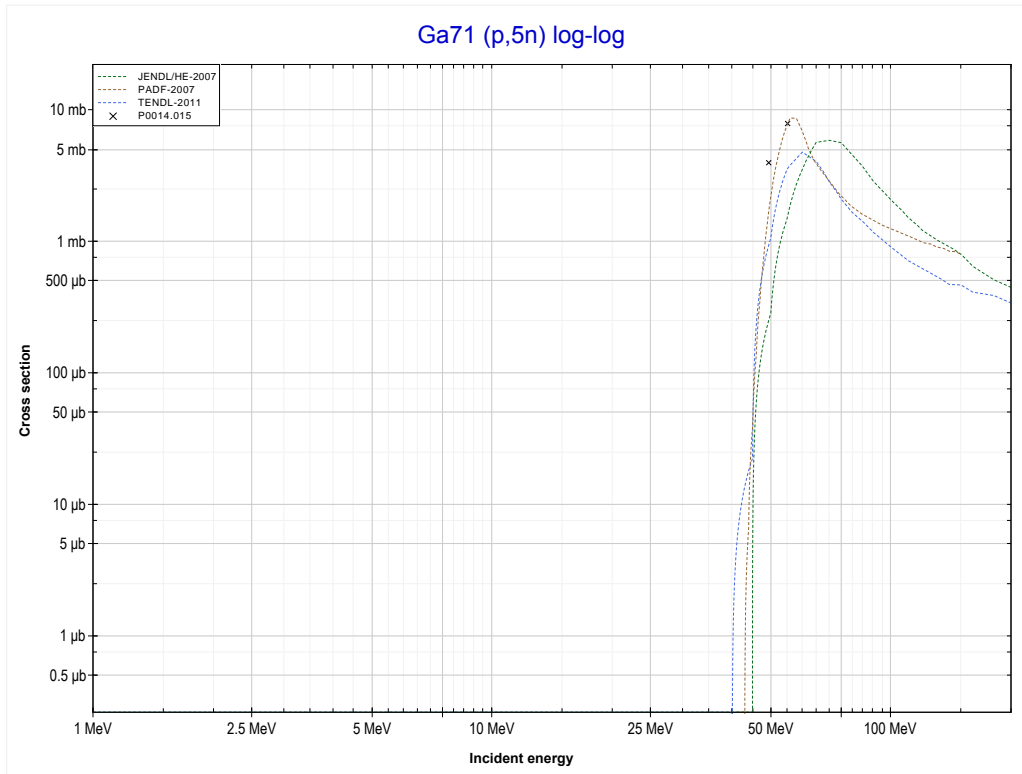
Reaction	Q-Value
Ga71(p,n+t)Ga68	-18786.25 keV
Ga71(p,2n+d)Ga68	-25043.49 keV
Ga71(p,3n+p)Ga68	-27268.05 keV

<< 30-Zn-64	<b>31-Ga-71</b>	34-Se-74 >>
<< MT42 (p,3n+p)	<b>MT44 (p,n+2p) or MT5 (Zn69 production)</b>	MT152 (p,5n) >>



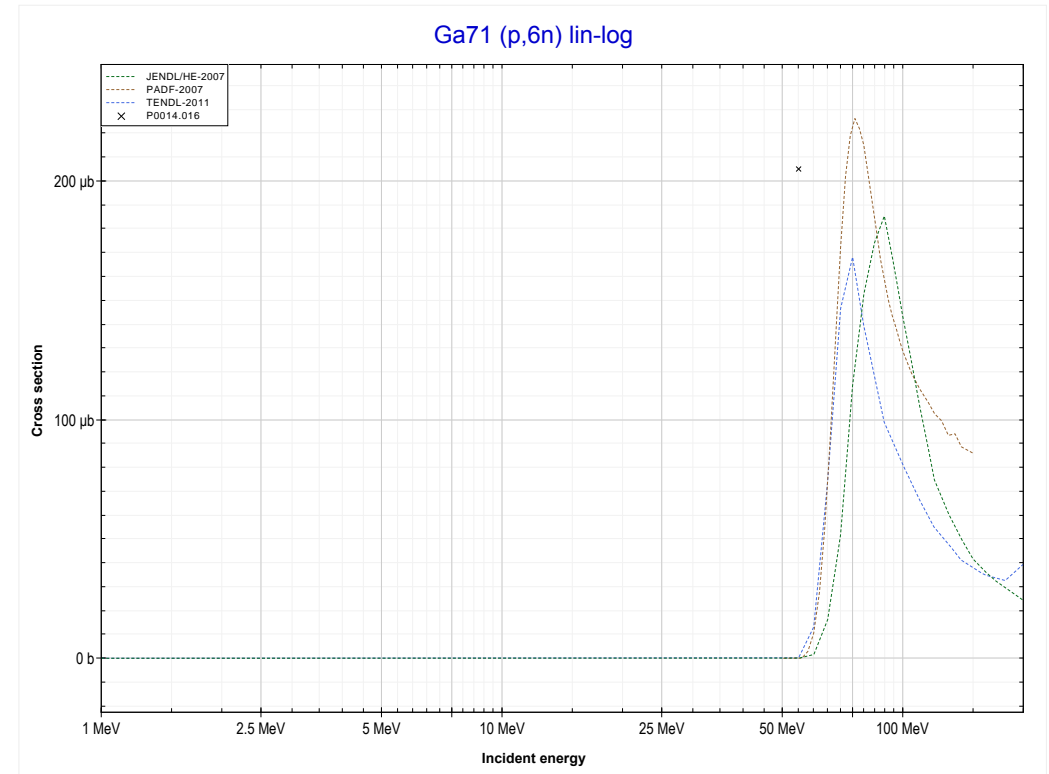
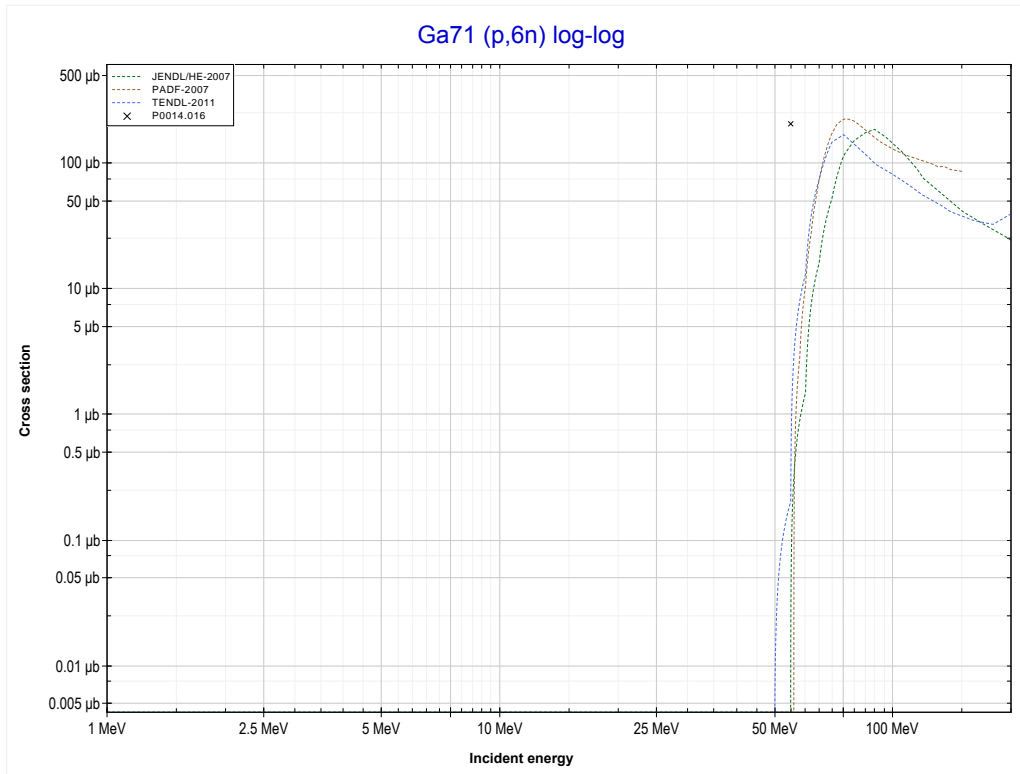
Reaction	Q-Value
Ga71(p,He3)Zn69	-9364.44 keV
Ga71(p,p+d)Zn69	-14857.92 keV
Ga71(p,n+2p)Zn69	-17082.49 keV

	<b>31-Ga-71</b>	<a href="#">34-Se-80 &gt;&gt;</a>
<a href="#">&lt;&lt; MT44 (p,n+2p)</a>	<b>MT152 (p,5n) or MT5 (Ge67 production)</b>	<a href="#">MT153 (p,6n) &gt;&gt;</a>



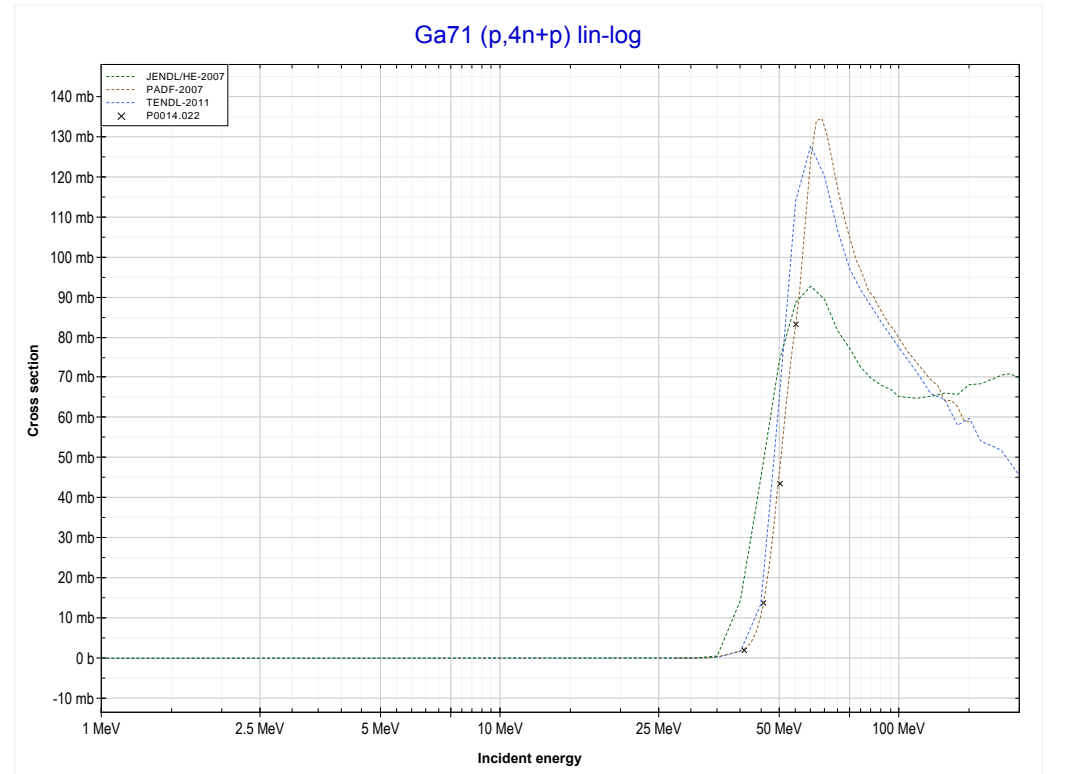
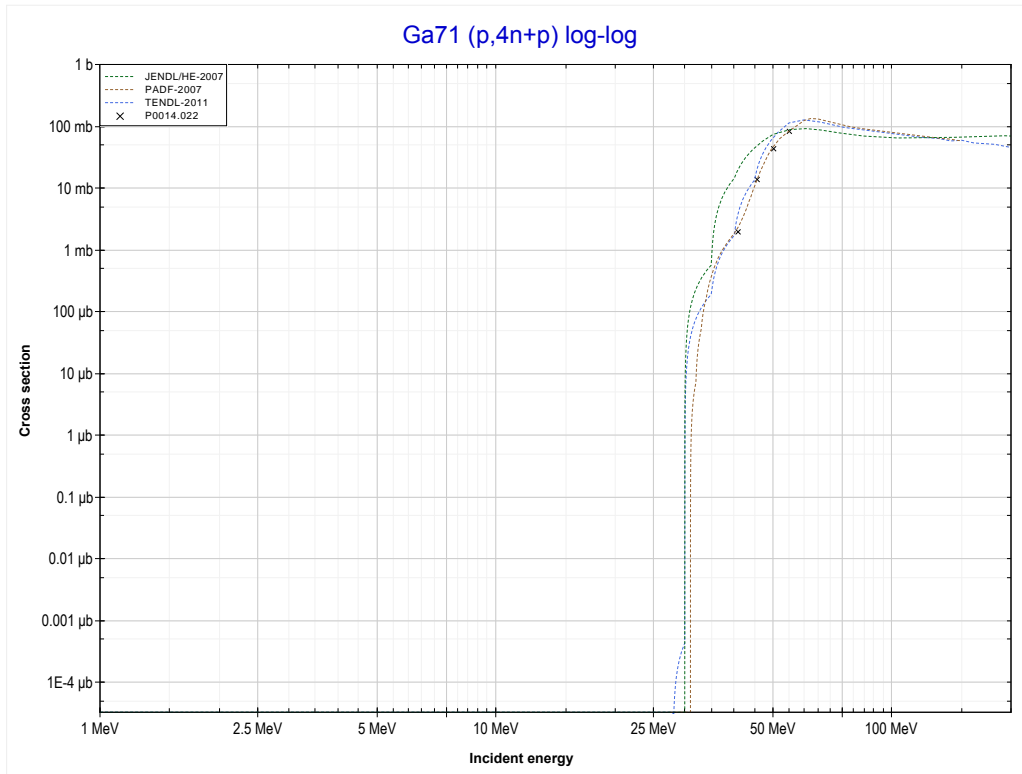
Reaction	Q-Value
Ga71(p,5n)Ge67	-40549.81 keV

	<b>31-Ga-71</b>	<b>35-Br-81 &gt;&gt;</b>
<< MT152 (p,5n)	<b>MT153 (p,6n) or MT5 (Ge66 production)</b>	<b>MT156 (p,4n+p) &gt;&gt;</b>



Reaction	Q-Value
Ga71(p,6n)Ge66	-49659.13 keV

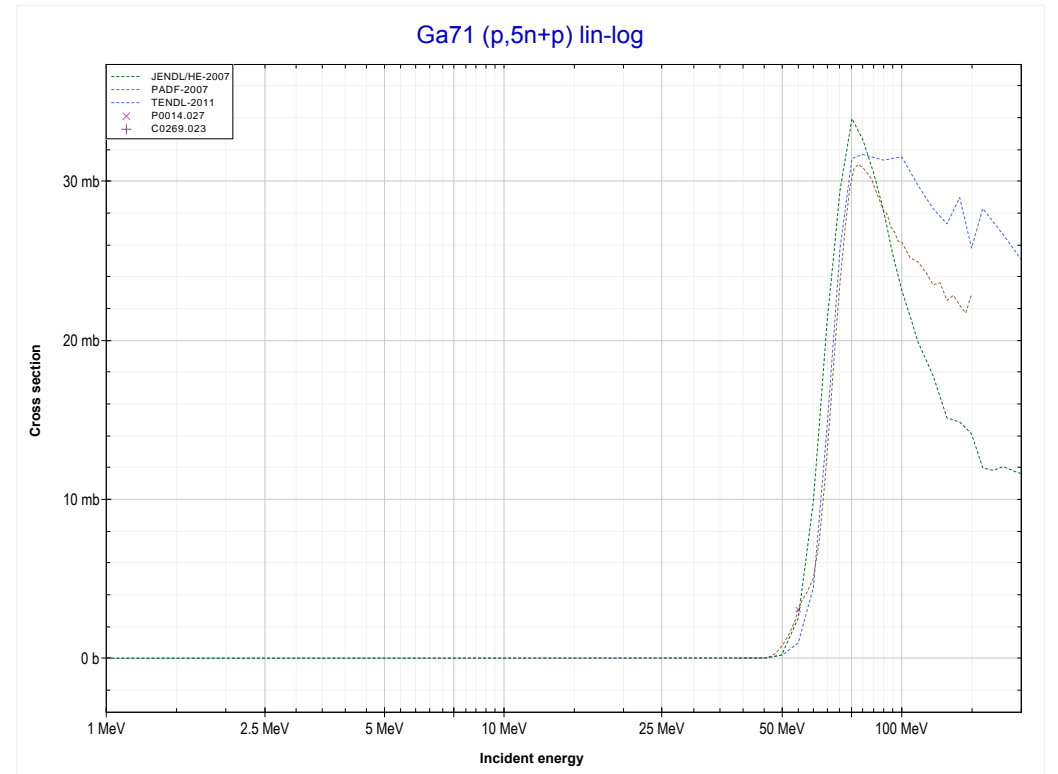
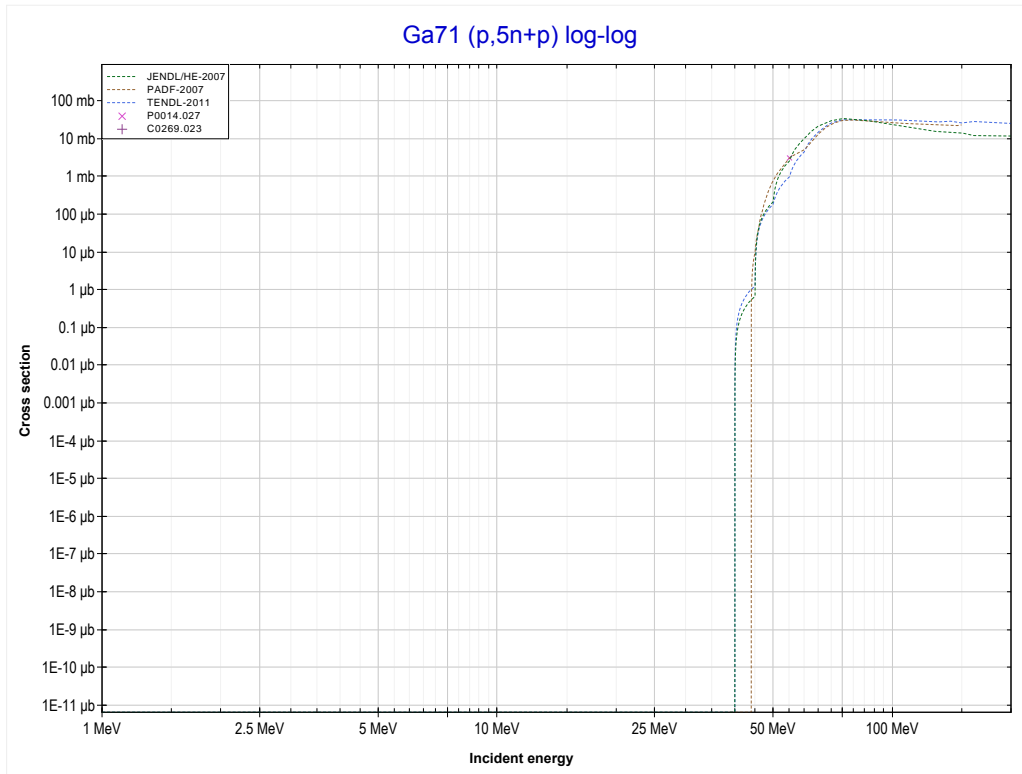
<< 31-Ga-69	<b>31-Ga-71</b>	90-Th-232 >>
<< MT153 (p,6n)	<b>MT156 (p,4n+p) or MT5 (Ga67 production)</b>	MT162 (p,5n+p) >>



Reaction	Q-Value
Ga71(p,2n+t)Ga67	-27063.97 keV
Ga71(p,3n+d)Ga67	-33321.20 keV
Ga71(p,4n+p)Ga67	-35545.77 keV

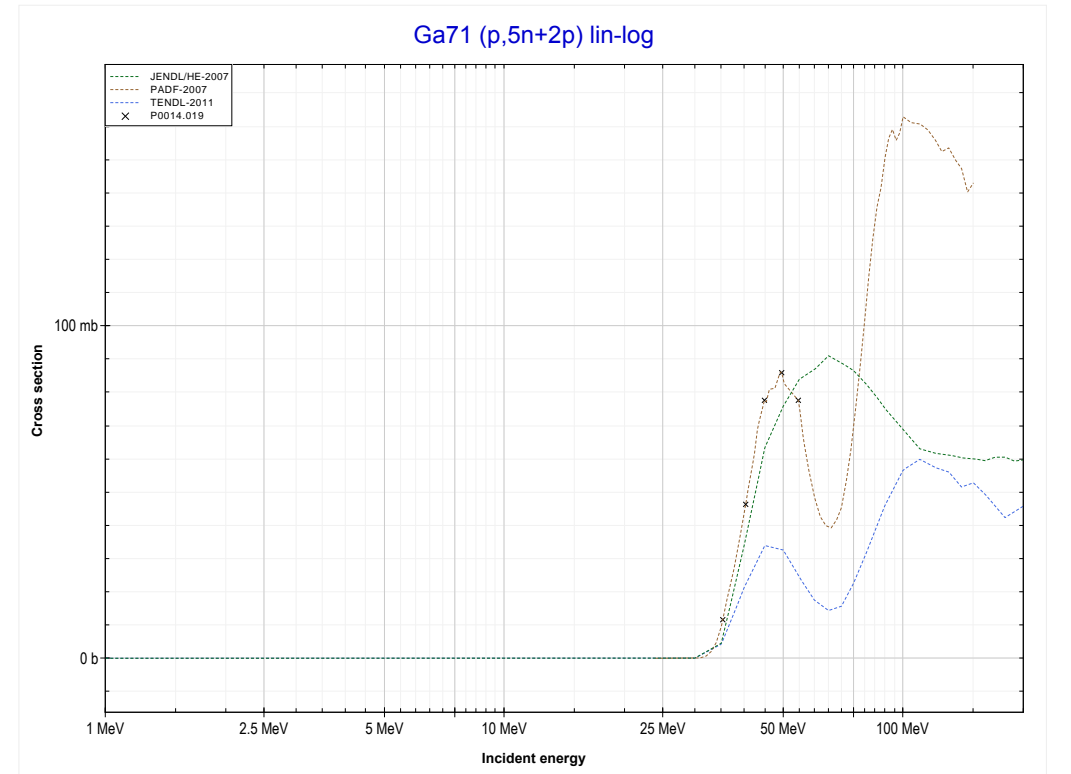
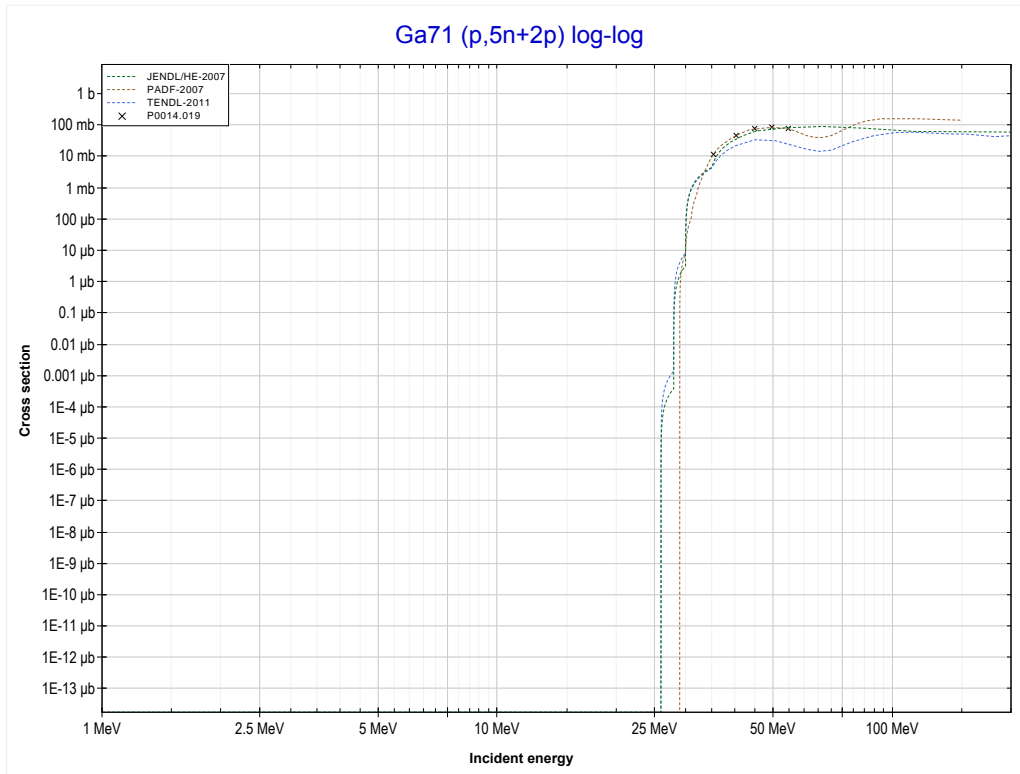


	<b>31-Ga-71</b>	39-Y-89 >>
<< MT156 (p,4n+p)	<b>MT162 (p,5n+p) or MT5 (Ga66 production)</b>	MT200 (p,5n+2p) >>



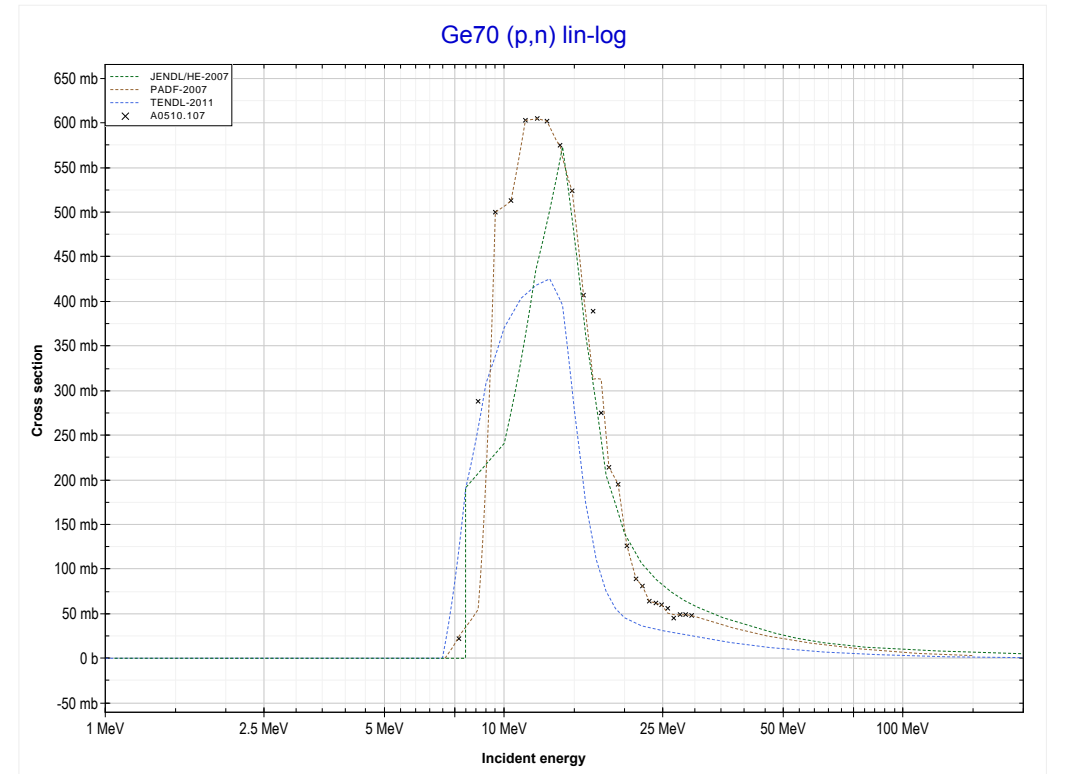
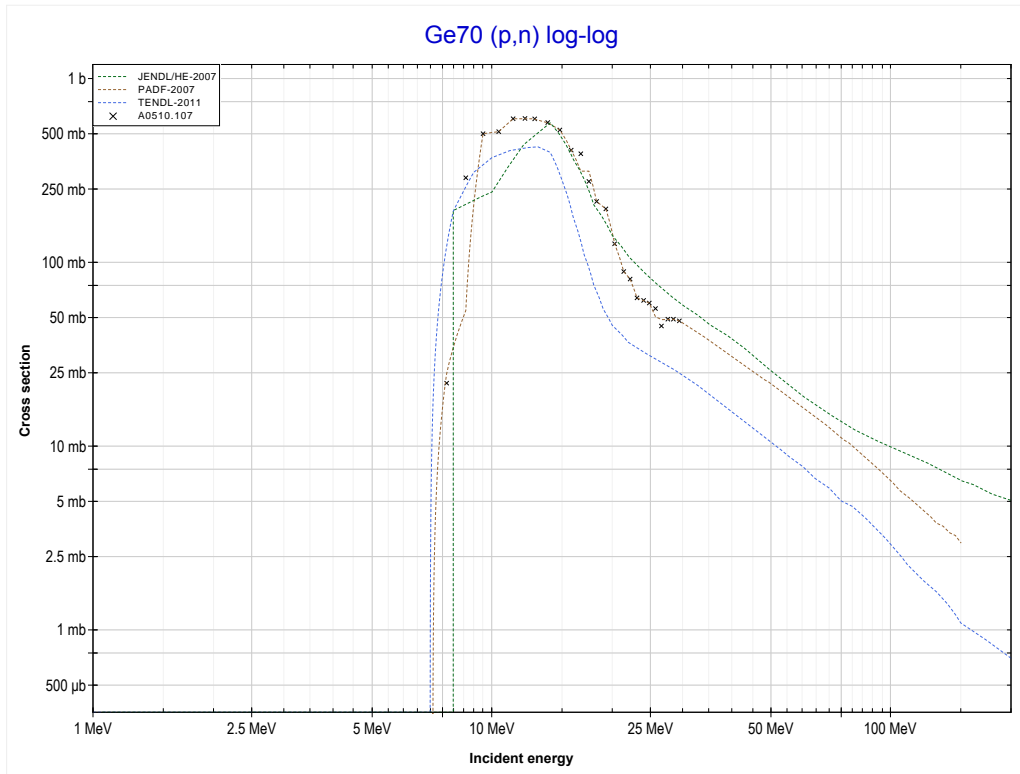
Reaction	Q-Value
Ga71(p,3n+t)Ga66	-38290.99 keV
Ga71(p,4n+d)Ga66	-44548.22 keV
Ga71(p,5n+p)Ga66	-46772.79 keV

<< 31-Ga-69	<b>31-Ga-71</b>	90-Th-232 >>
<< MT162 (p,5n+p)	<b>MT200 (p,5n+2p) or MT5 (Zn65 production)</b>	MT4 (p,n) >>



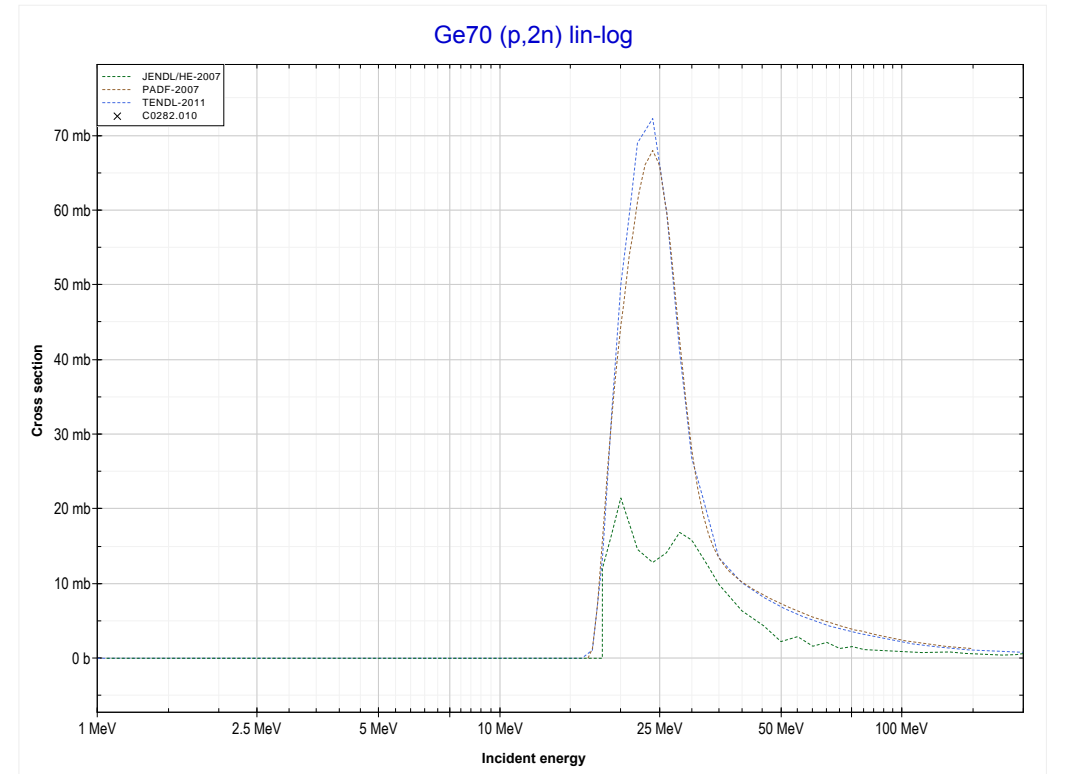
Reaction	Q-Value
Ga71(p,3n+α)Zn65	-23578.50 keV
Ga71(p,n+2t)Zn65	-34910.56 keV
Ga71(p,2n+d+t)Zn65	-41167.79 keV
Ga71(p,3n+p+t)Zn65	-43392.36 keV
Ga71(p,4n+He3)Zn65	-44156.11 keV
Ga71(p,3n+2d)Zn65	-47425.02 keV
Ga71(p,4n+p+d)Zn65	-49649.59 keV
Ga71(p,5n+2p)Zn65	-51874.16 keV

<< 31-Ga-71	<b>32-Ge-70</b>	32-Ge-72 >>
<< MT200 (p,5n+2p)	<b>MT4 (p,n) or MT5 (As70 production)</b>	MT16 (p,2n) >>



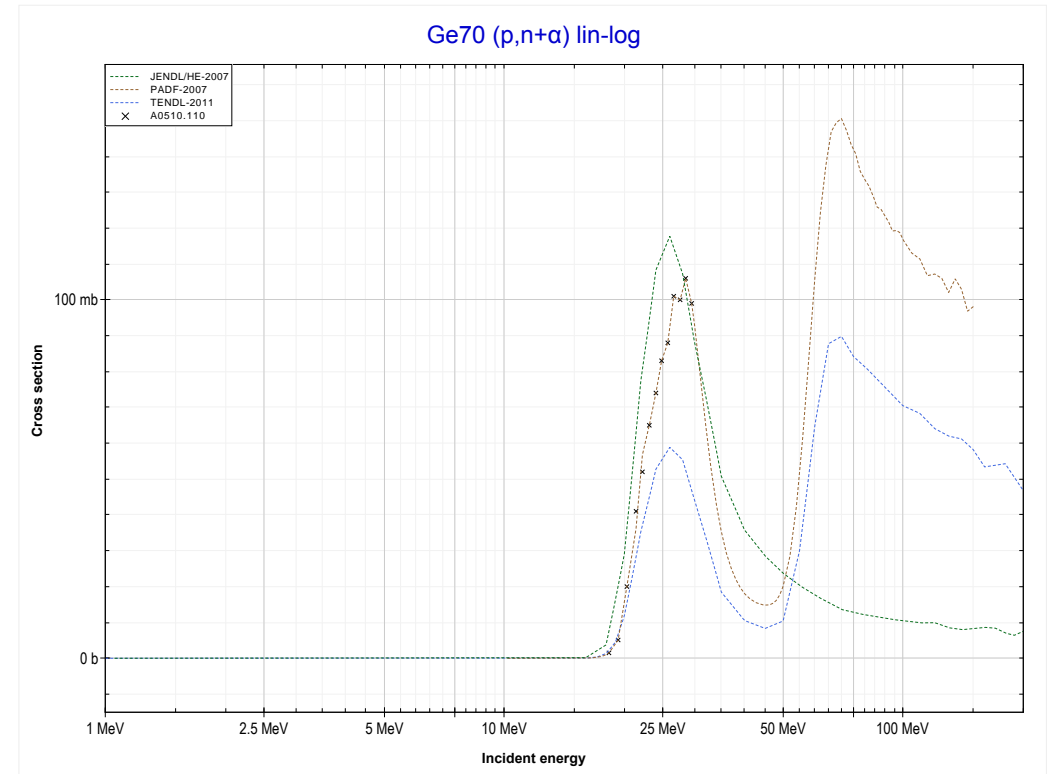
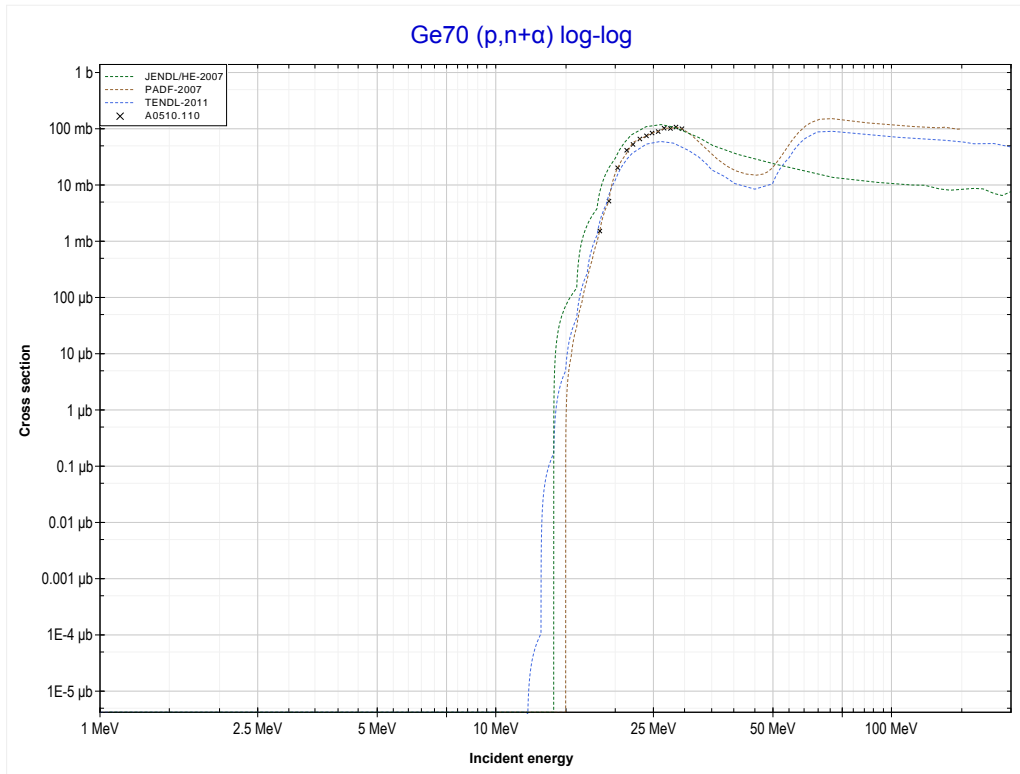
Reaction	Q-Value
Ge70(p,n)As70	-7005.45 keV

<< 31-Ga-69	<b>32-Ge-70</b>	32-Ge-72 >>
<< MT4 (p,n)	<b>MT16 (p,2n) or MT5 (As69 production)</b>	MT22 (p,n+α) >>



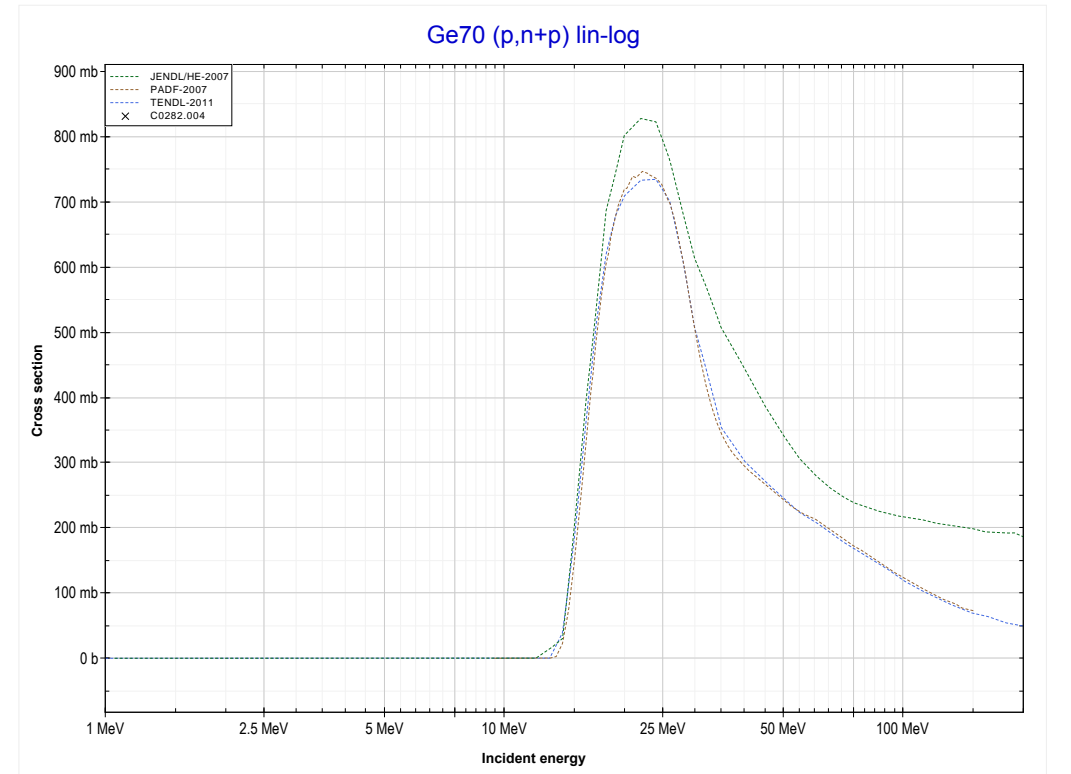
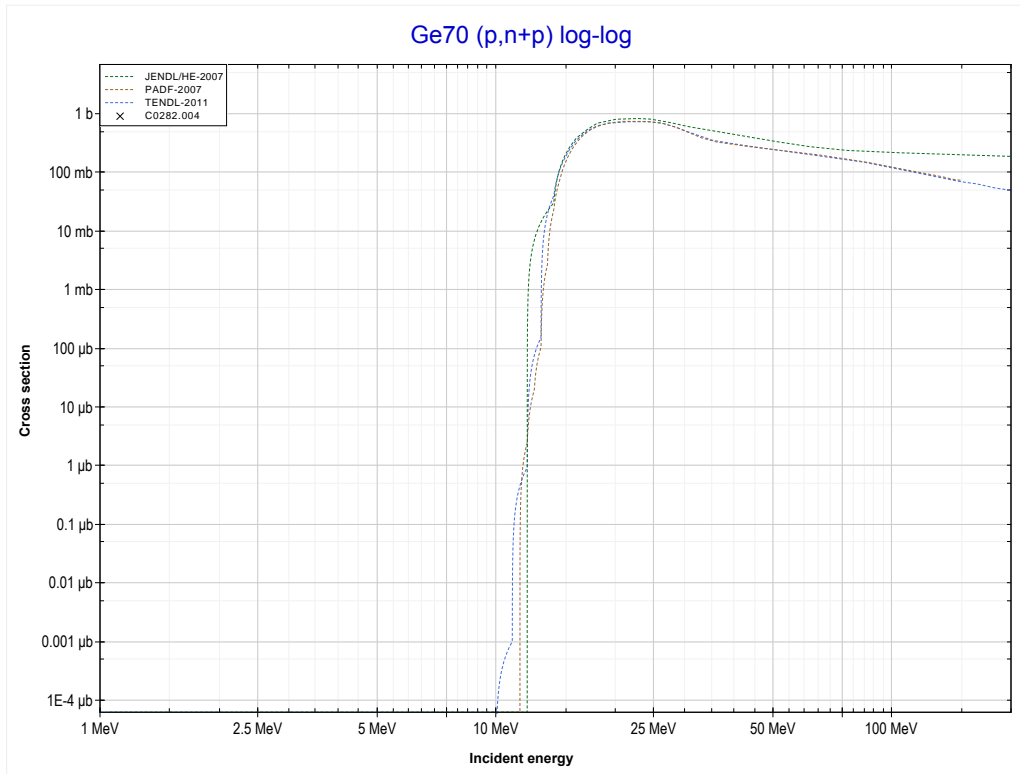
Reaction	Q-Value
Ge70(p,2n)As69	-16326.76 keV

<< 31-Ga-69	<b>32-Ge-70</b>	32-Ge-72 >>
<< MT16 (p,2n)	<b>MT22 (p,n+α) or MT5 (Ga66 production)</b>	MT28 (p,n+p) >>



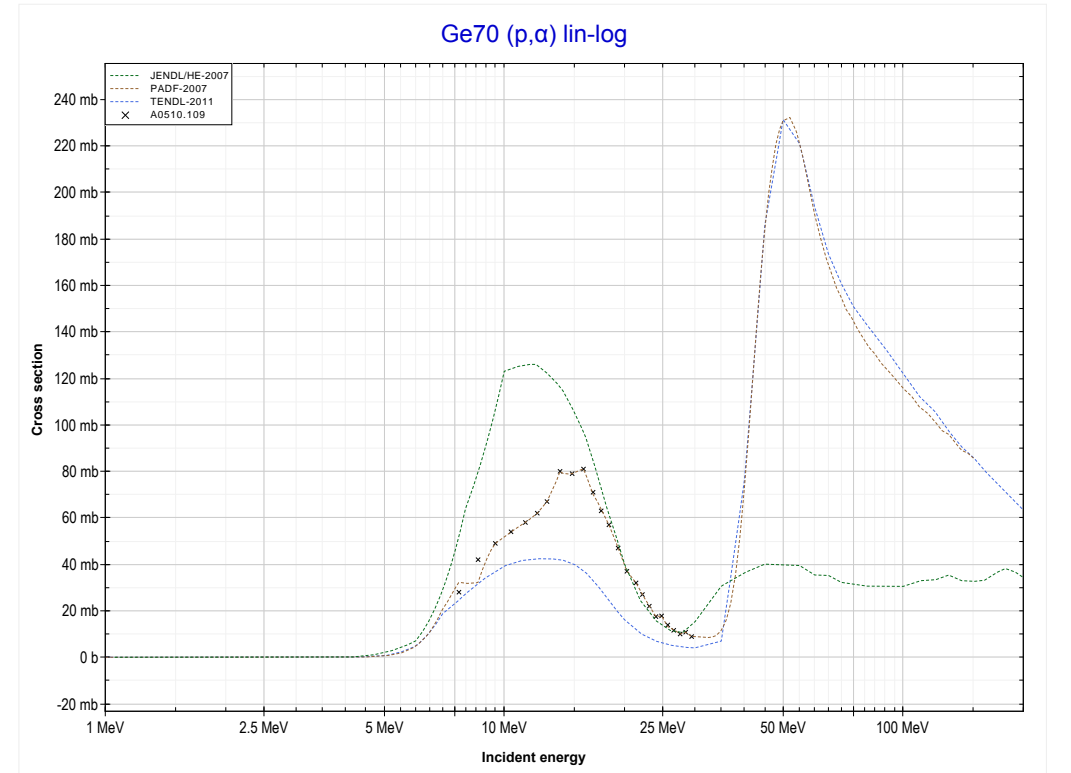
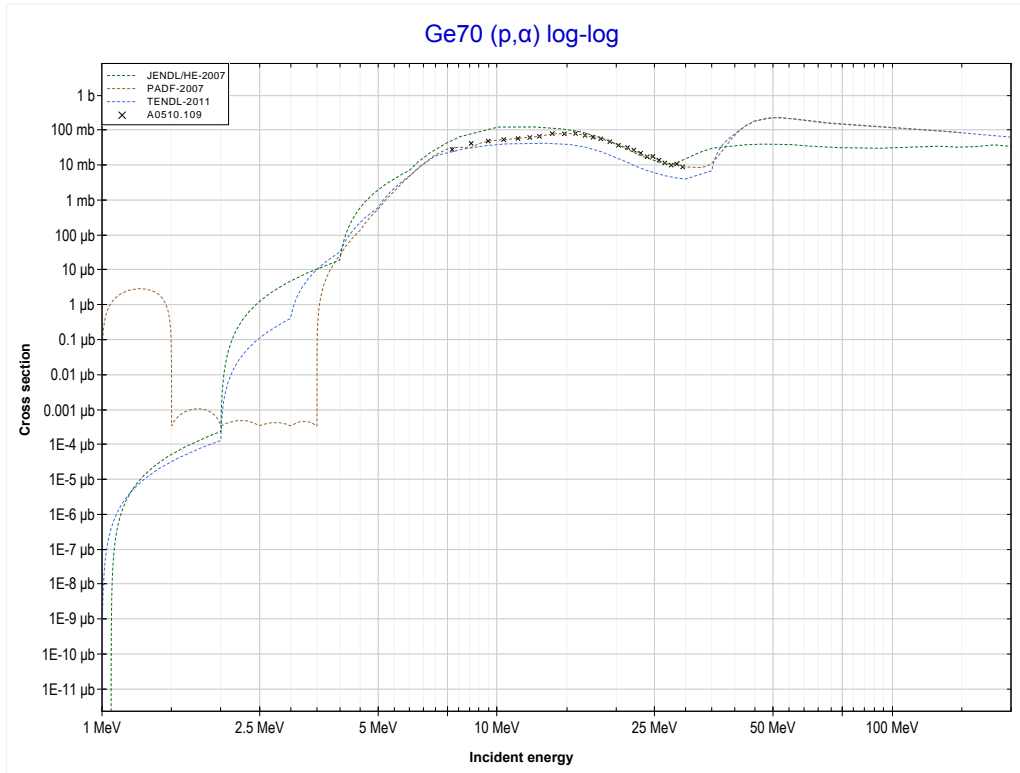
Reaction	Q-Value
Ge70(p,n+α)Ga66	-10046.36 keV
Ge70(p,d+t)Ga66	-27635.66 keV
Ge70(p,n+p+t)Ga66	-29860.22 keV
Ge70(p,2n+He3)Ga66	-30623.98 keV
Ge70(p,n+2d)Ga66	-33892.89 keV
Ge70(p,2n+p+d)Ga66	-36117.46 keV
Ge70(p,3n+2p)Ga66	-38342.02 keV

<< 31-Ga-71	<b>32-Ge-70</b>	32-Ge-72 >>
<< MT22 (p,n+α)	<b>MT28 (p,n+p) or MT5 (Ge69 production)</b>	MT107 (p,α) >>



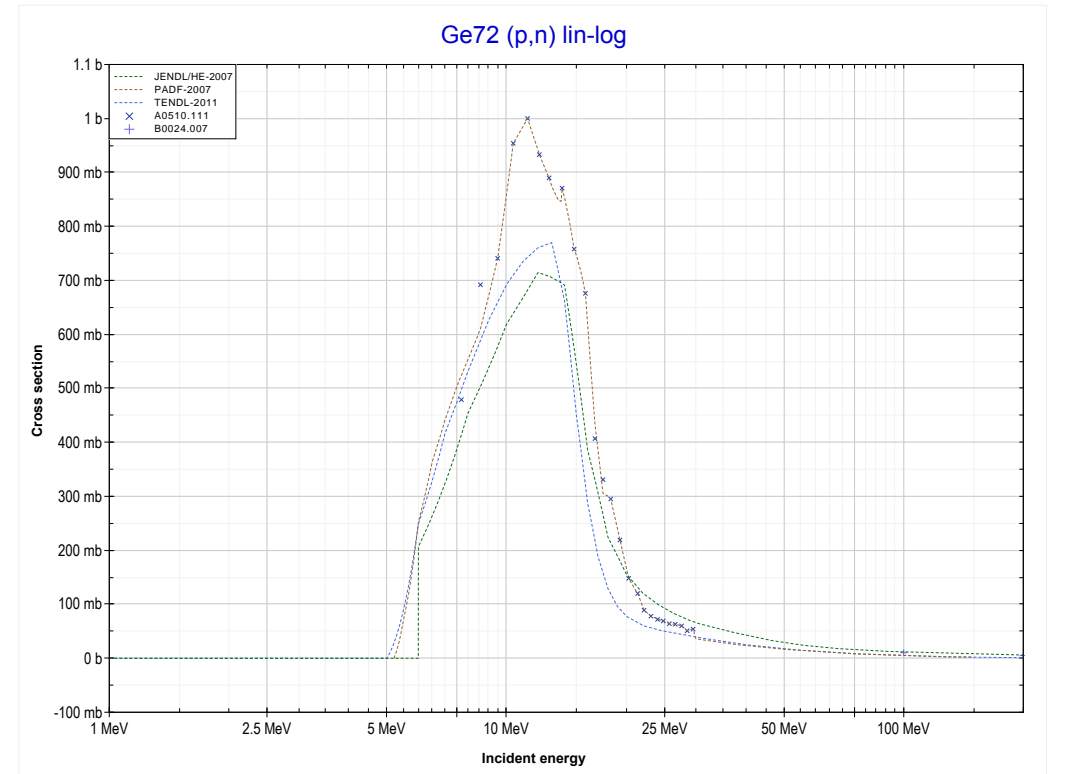
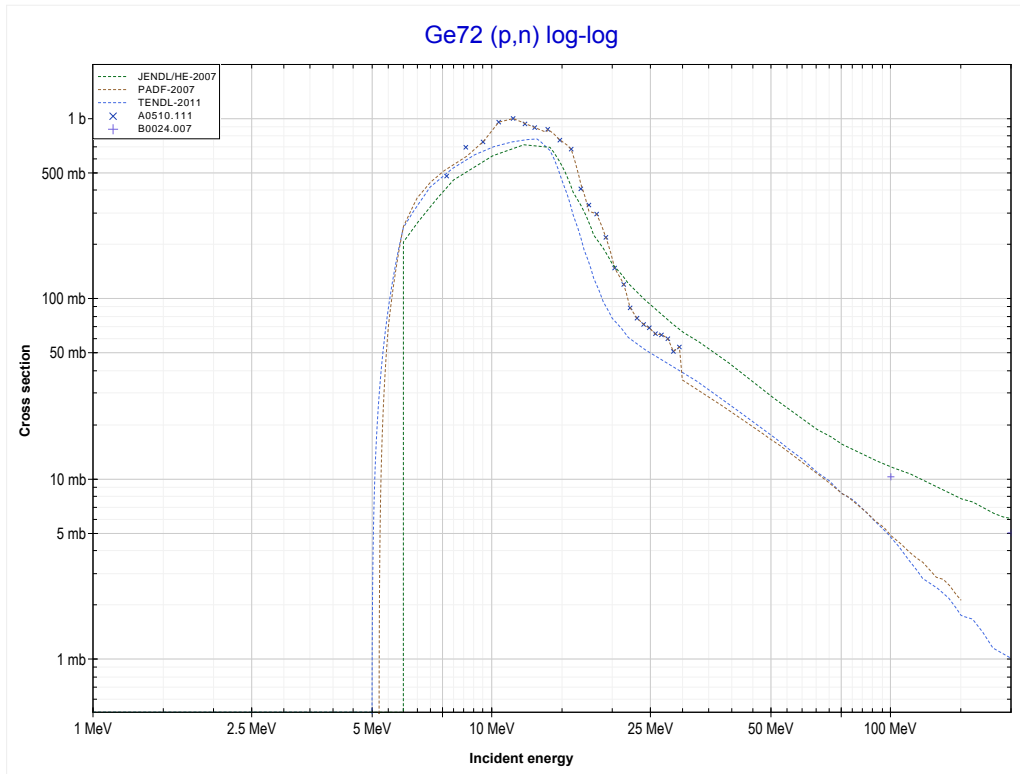
Reaction	Q-Value
Ge70(p,d)Ge69	-9309.25 keV
Ge70(p,n+p)Ge69	-11533.82 keV

<< 30-Zn-70	<b>32-Ge-70</b>	32-Ge-76 >>
<< MT28 (p,n+p)	<b>MT107 (p,<math>\alpha</math>) or MT5 (Ga67 production)</b>	MT4 (p,n) >>



Reaction	Q-Value
Ge70(p, $\alpha$ )Ga67	1180.65 keV
Ge70(p,p+t)Ga67	-18633.21 keV
Ge70(p,n+He3)Ga67	-19396.96 keV
Ge70(p,2d)Ga67	-22665.87 keV
Ge70(p,n+p+d)Ga67	-24890.44 keV
Ge70(p,2n+2p)Ga67	-27115.00 keV

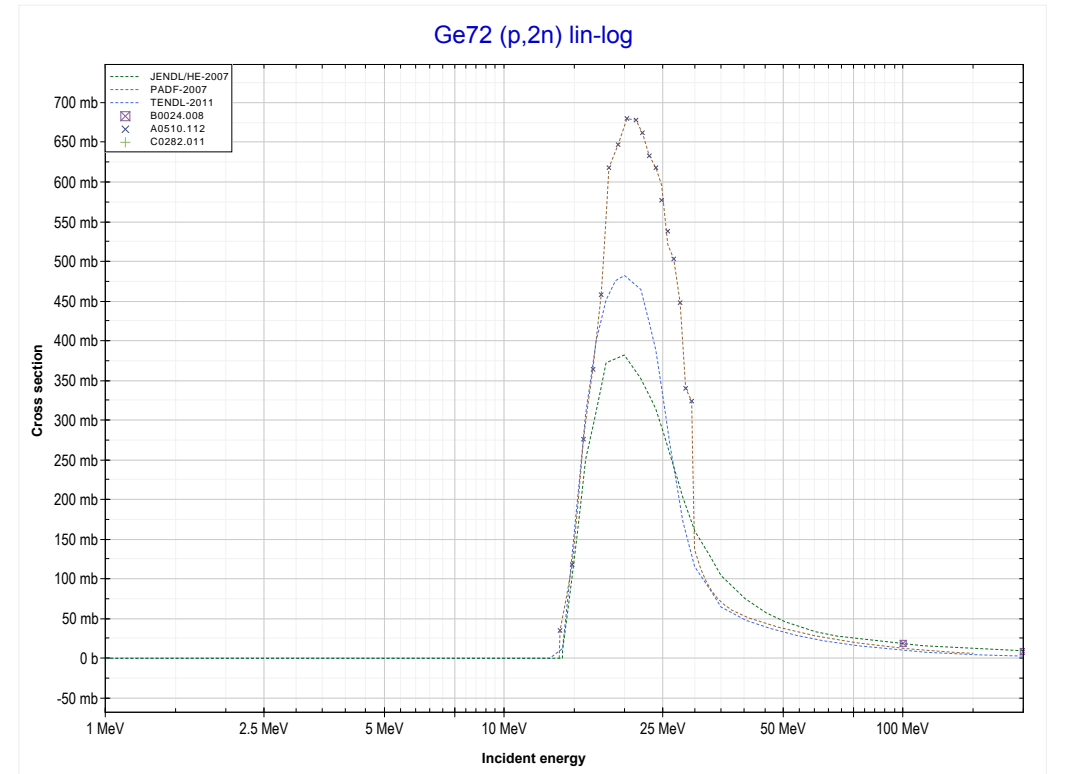
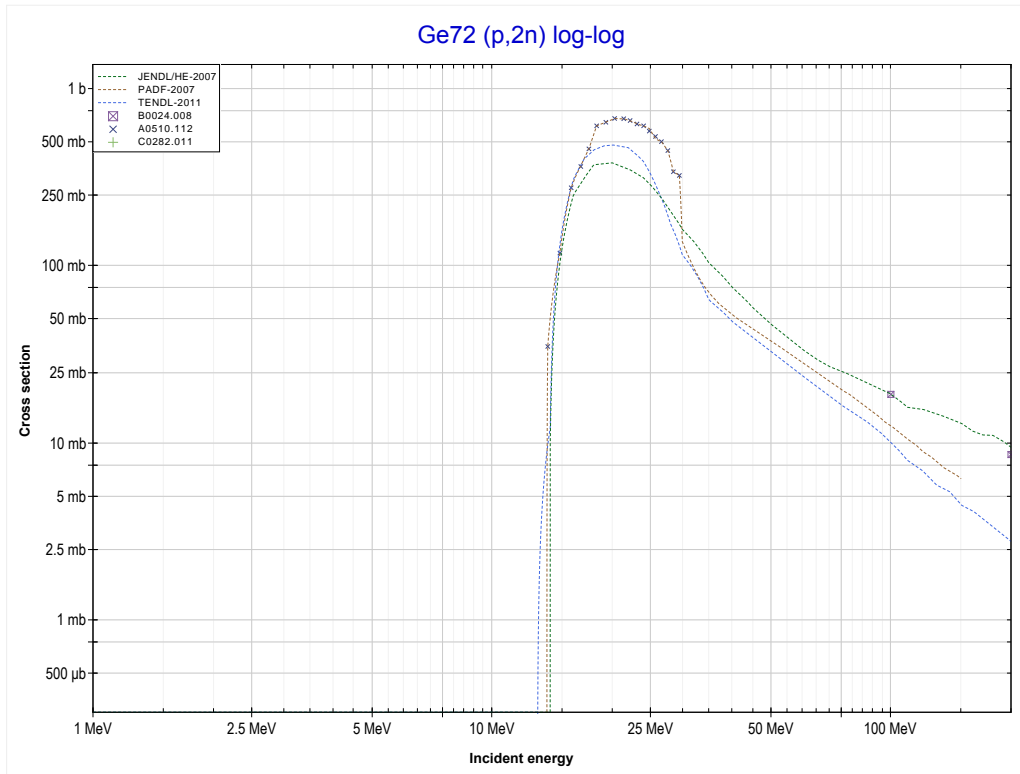
<< 32-Ge-70	<b>32-Ge-72</b>	32-Ge-74 >>
<< MT107 (p, $\alpha$ )	<b>MT4 (p,n) or MT5 (As72 production)</b>	MT16 (p,2n) >>



Reaction	Q-Value
Ge72(p,n)As72	-5138.25 keV

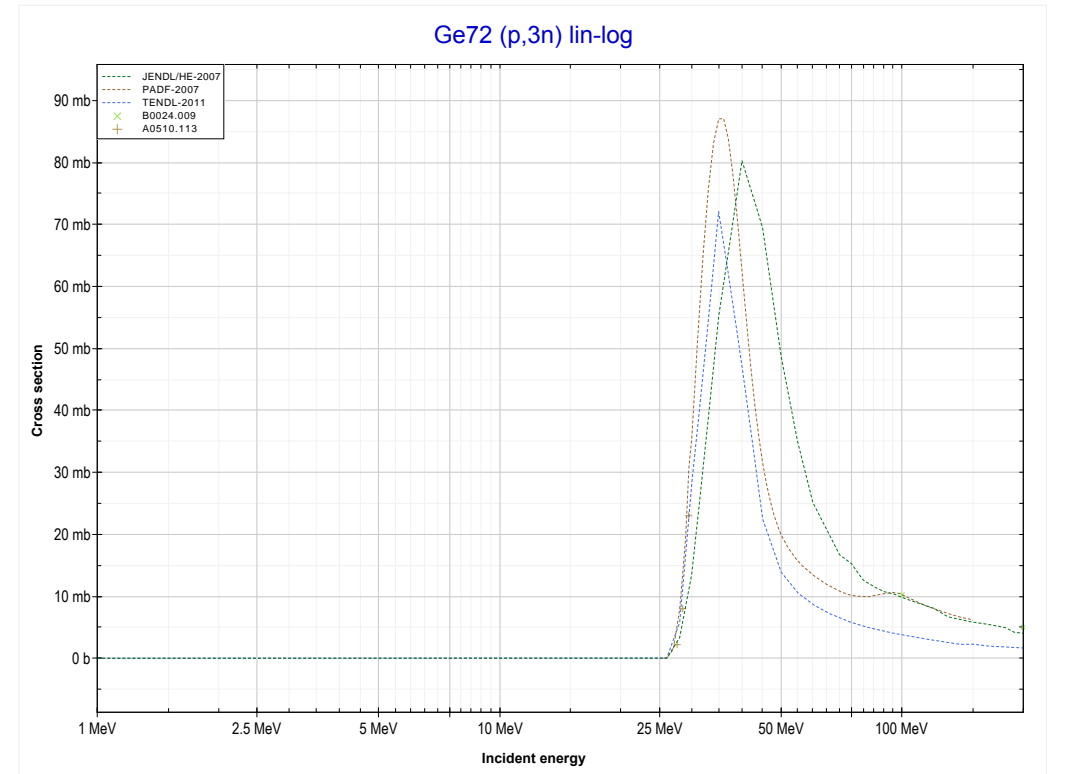
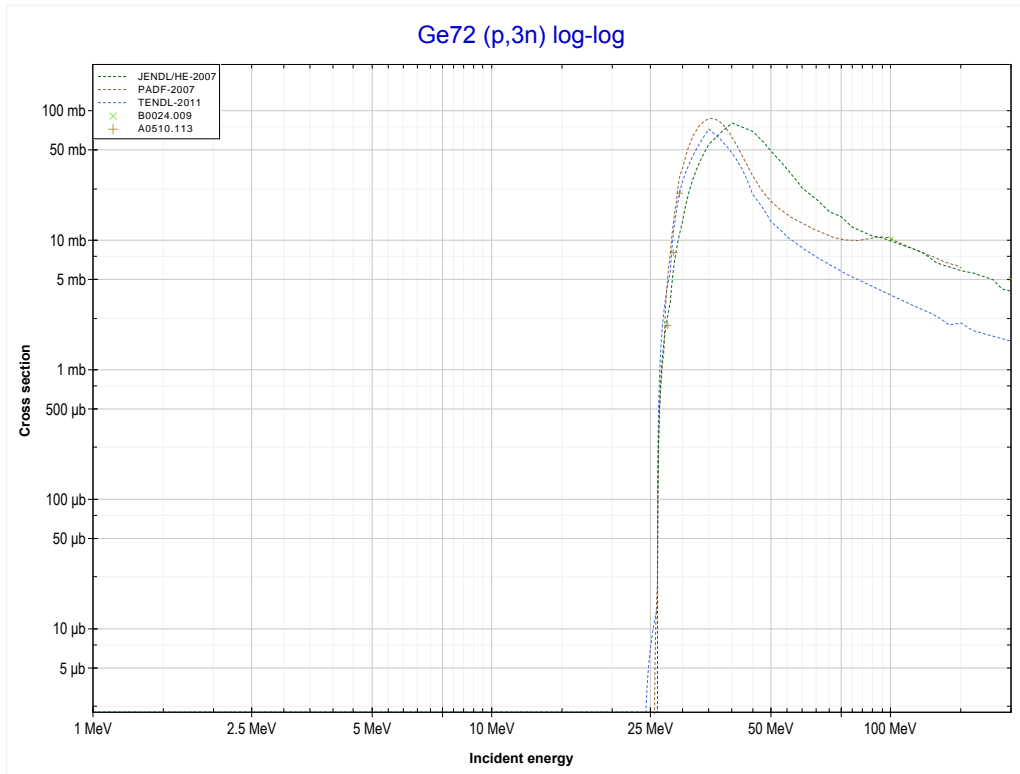


<< 32-Ge-70	<b>32-Ge-72</b>	32-Ge-73 >>
<< MT4 (p,n)	<b>MT16 (p,2n) or MT5 (As71 production)</b>	MT17 (p,3n) >>



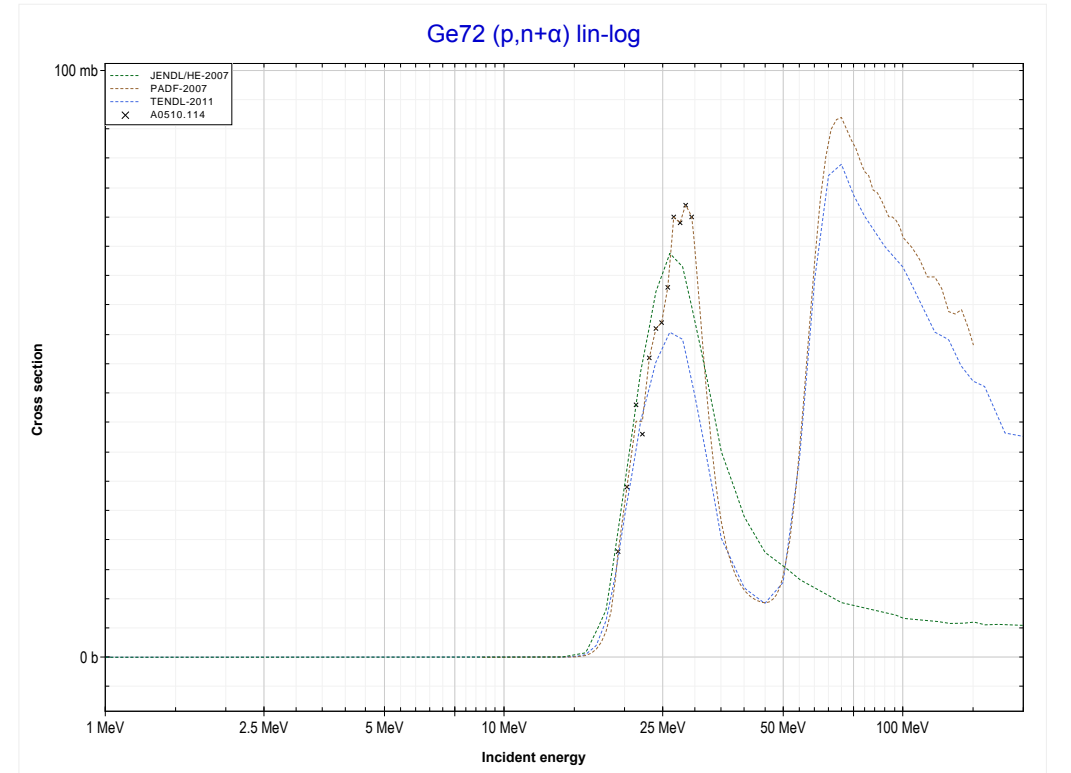
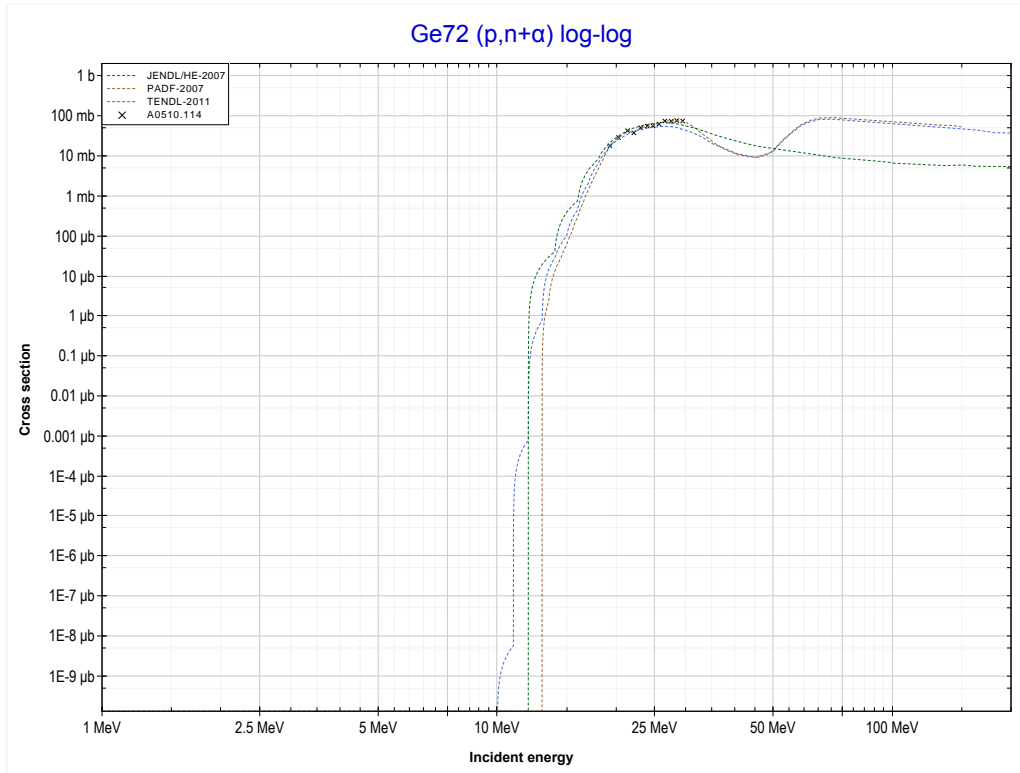
Reaction	Q-Value
Ge72(p,2n)As71	-13545.56 keV

<< 31-Ga-71	<b>32-Ge-72</b>	32-Ge-73 >>
<< MT16 (p,2n)	<b>MT17 (p,3n) or MT5 (As70 production)</b>	MT22 (p,n+α) >>



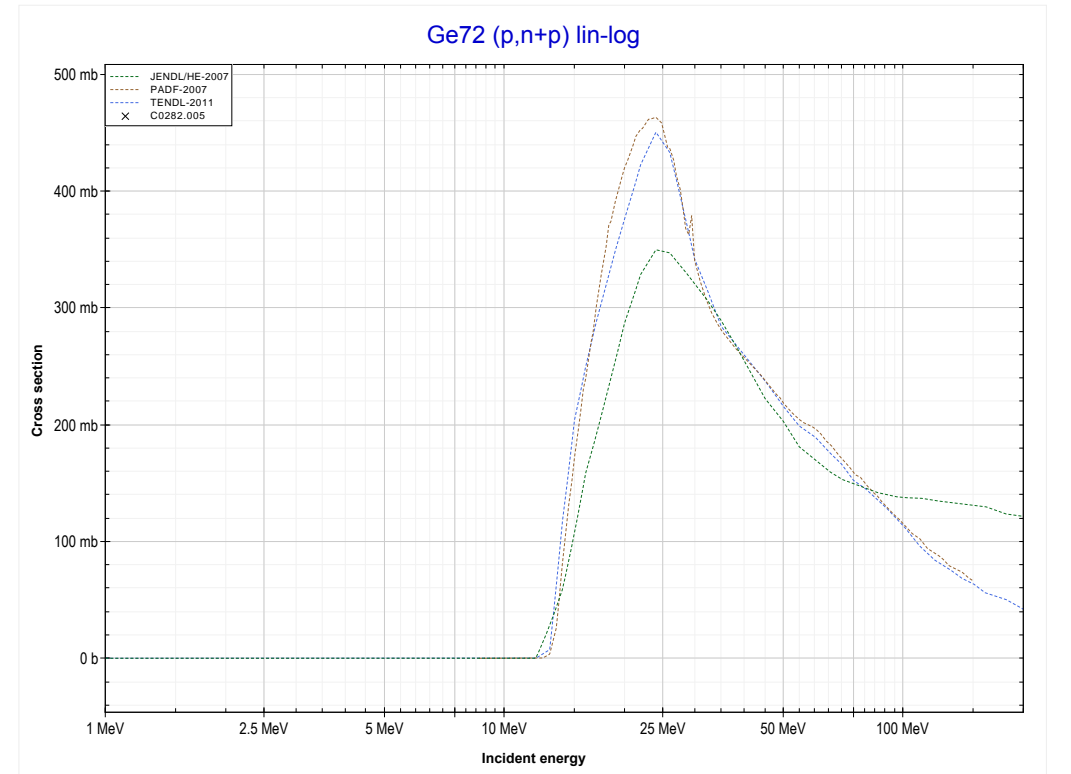
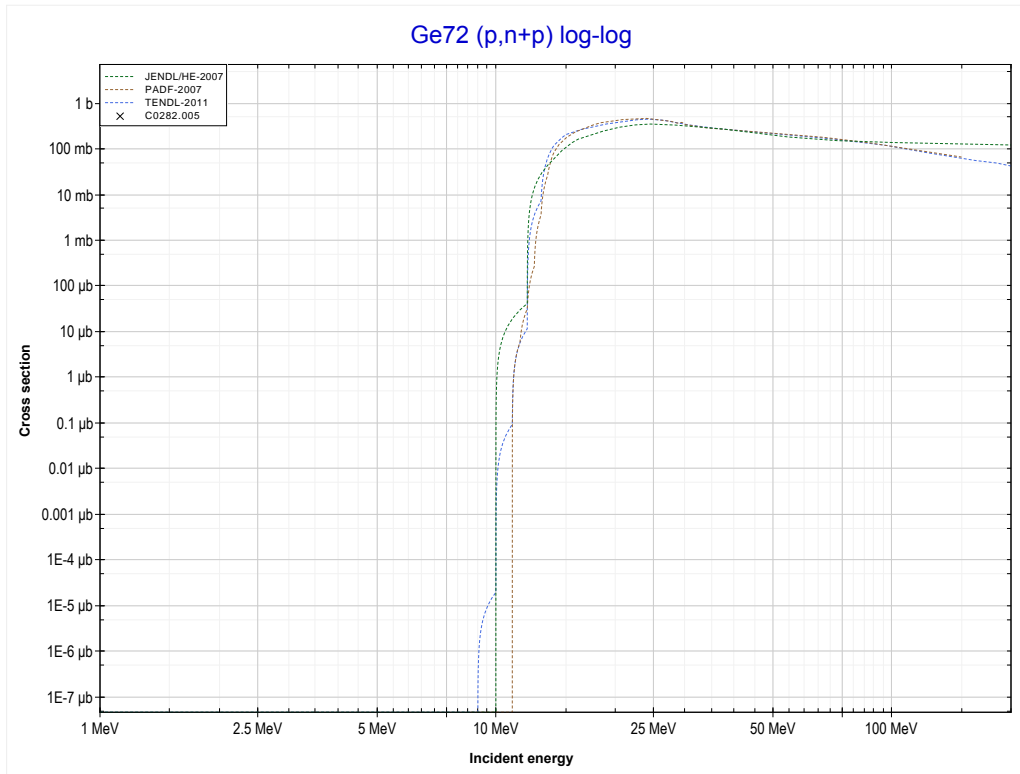
Reaction	Q-Value
Ge72(p,3n)As70	-25170.88 keV

<< 32-Ge-70	<b>32-Ge-72</b>	32-Ge-76 >>
<< MT17 (p,3n)	<b>MT22 (p,n+α) or MT5 (Ga68 production)</b>	MT28 (p,n+p) >>



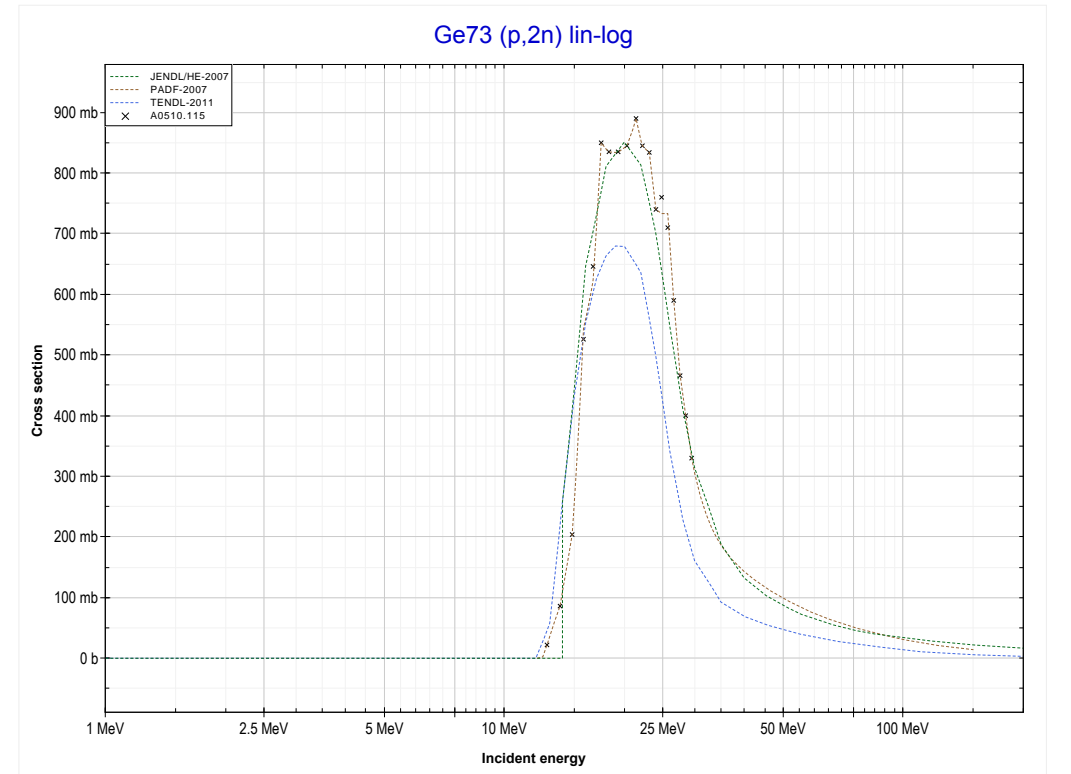
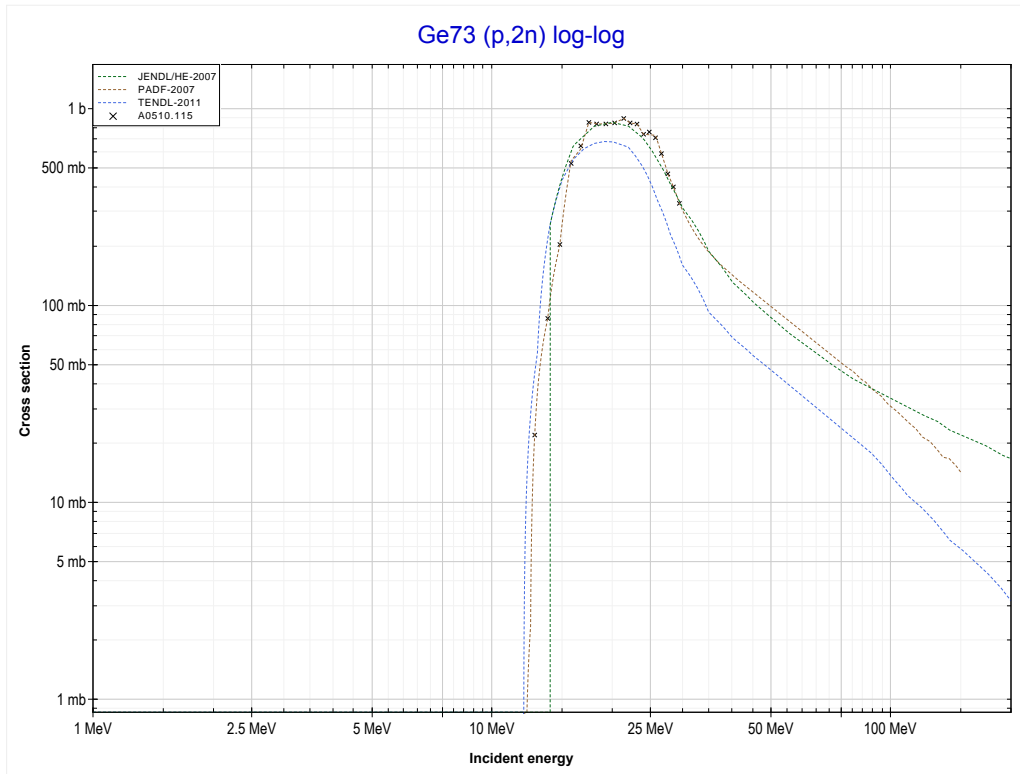
Reaction	Q-Value
Ge72(p,n+α)Ga68	-8707.06 keV
Ge72(p,d+t)Ga68	-26296.36 keV
Ge72(p,n+p+t)Ga68	-28520.92 keV
Ge72(p,2n+He3)Ga68	-29284.68 keV
Ge72(p,n+2d)Ga68	-32553.59 keV
Ge72(p,2n+p+d)Ga68	-34778.16 keV
Ge72(p,3n+2p)Ga68	-37002.72 keV

<< 32-Ge-70	<b>32-Ge-72</b>	32-Ge-76 >>
<< MT22 (p,n+α)	<b>MT28 (p,n+p) or MT5 (Ge71 production)</b>	MT16 (p,2n) >>



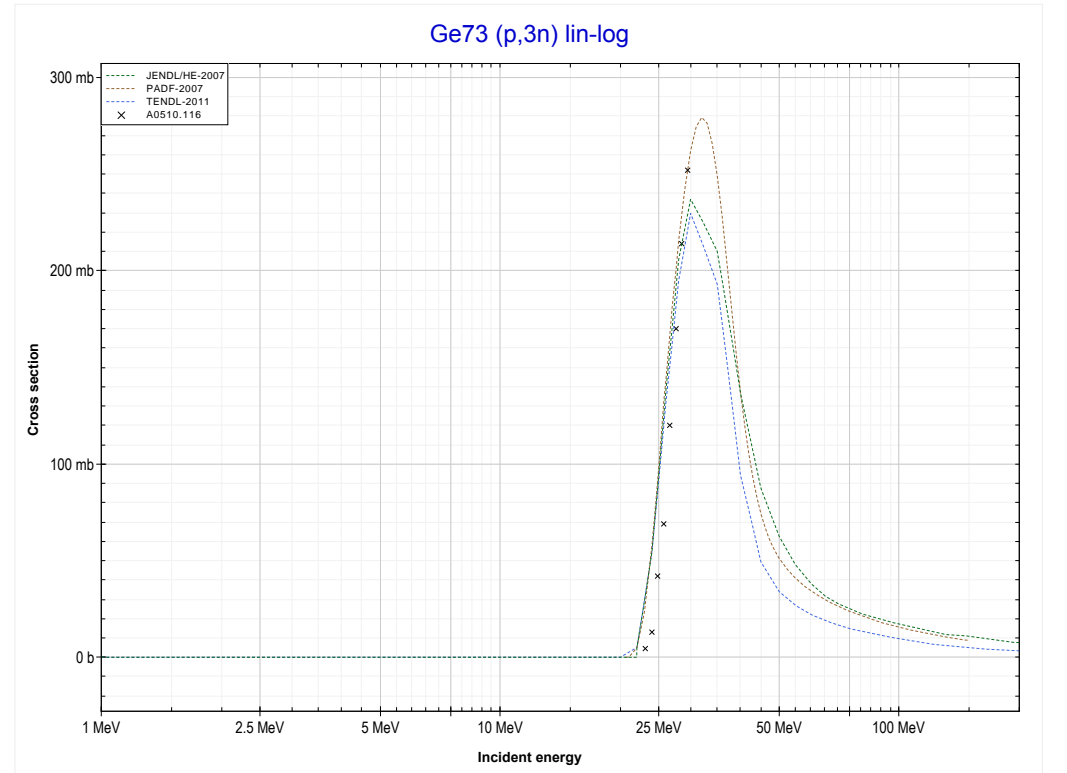
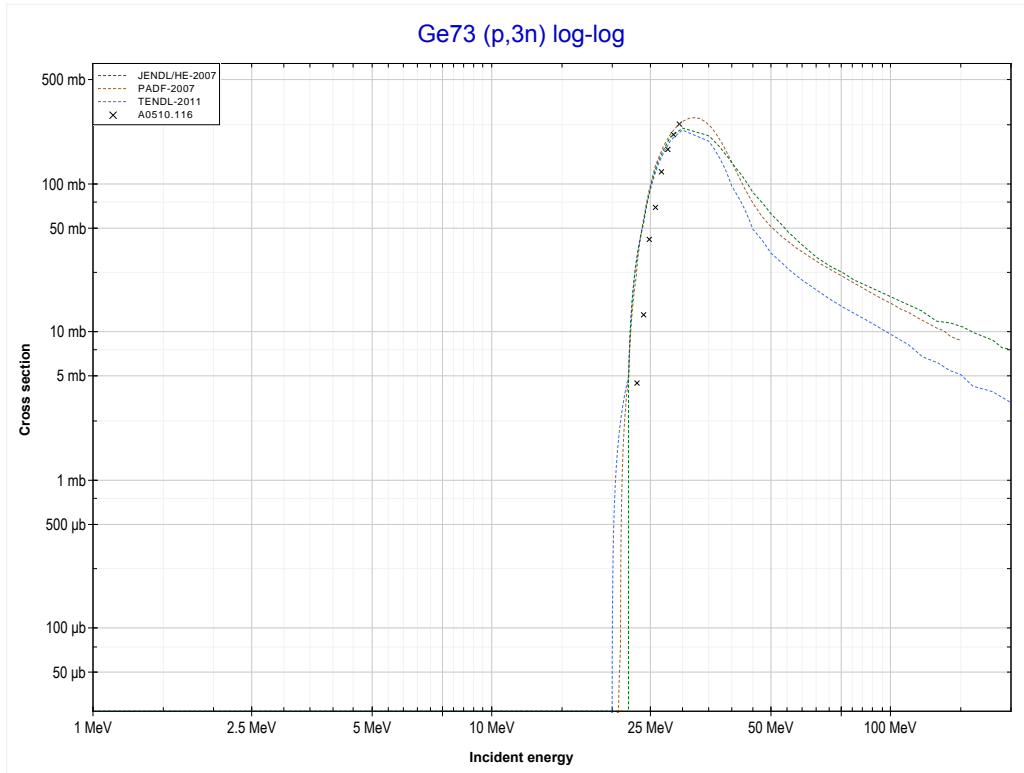
Reaction	Q-Value
Ge72(p,d)Ge71	-8524.95 keV
Ge72(p,n+p)Ge71	-10749.52 keV

<< 32-Ge-72	<b>32-Ge-73</b>	32-Ge-76 >>
<< MT28 (p,n+p)	<b>MT16 (p,2n) or MT5 (As72 production)</b>	MT17 (p,3n) >>



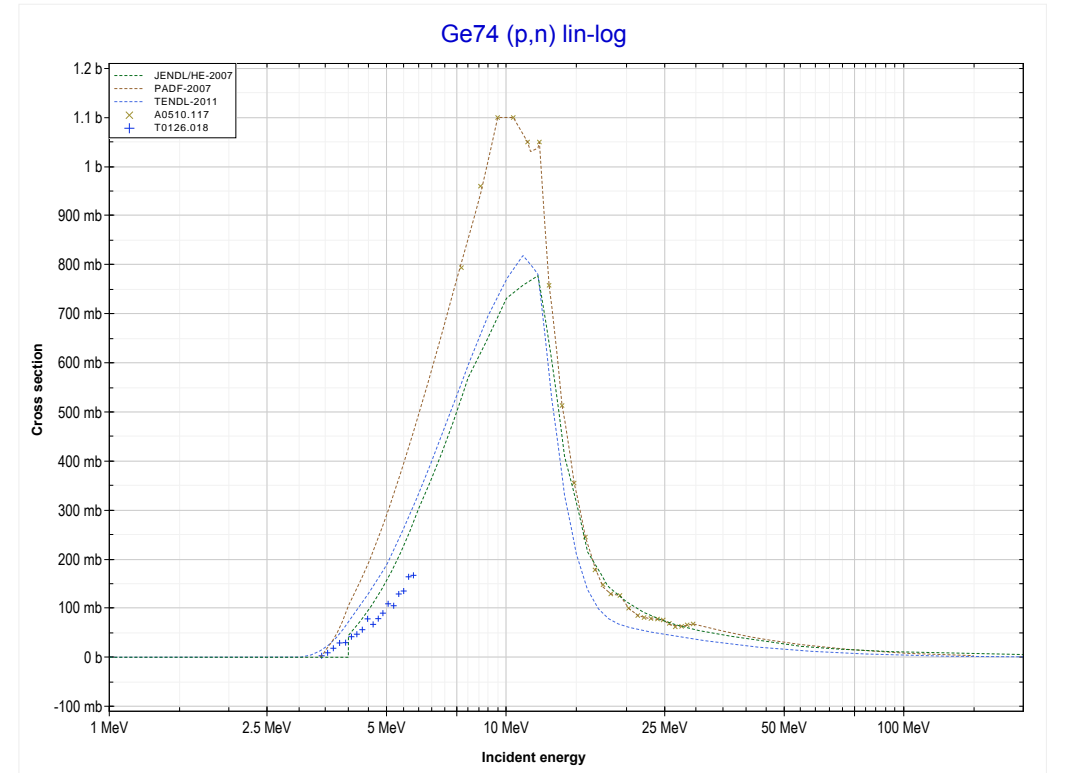
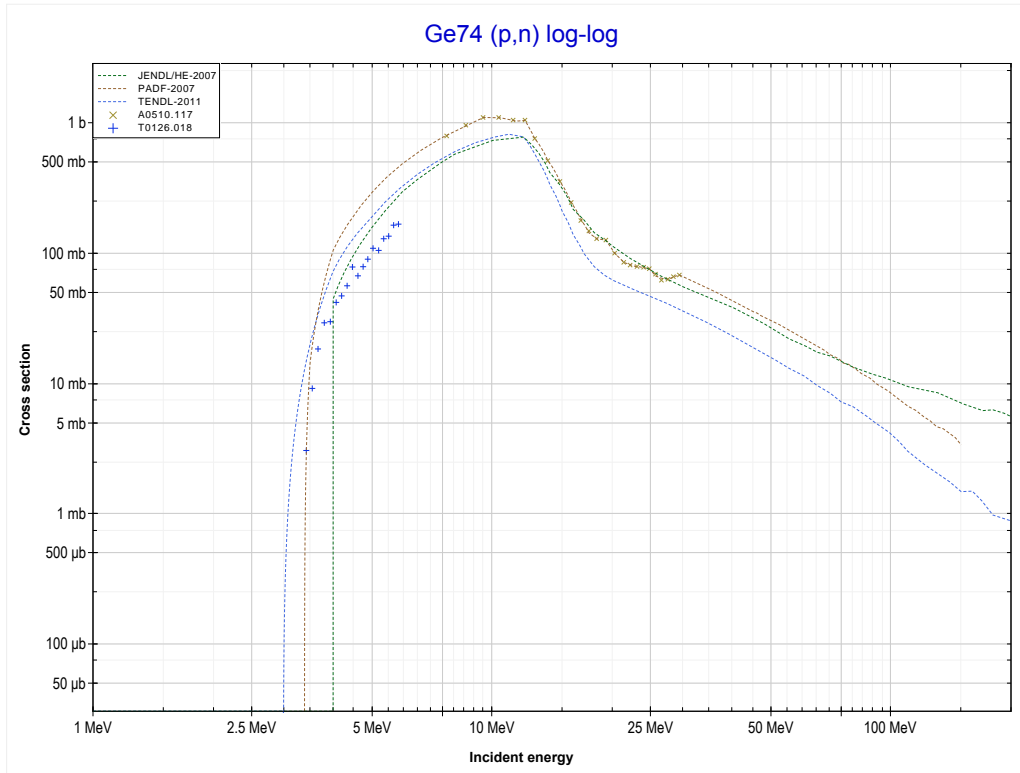
Reaction	Q-Value
Ge73(p,2n)As72	-11921.16 keV

<< 32-Ge-72	<b>32-Ge-73</b>	32-Ge-74 >>
<< MT16 (p,2n)	<b>MT17 (p,3n) or MT5 (As71 production)</b>	MT4 (p,n) >>



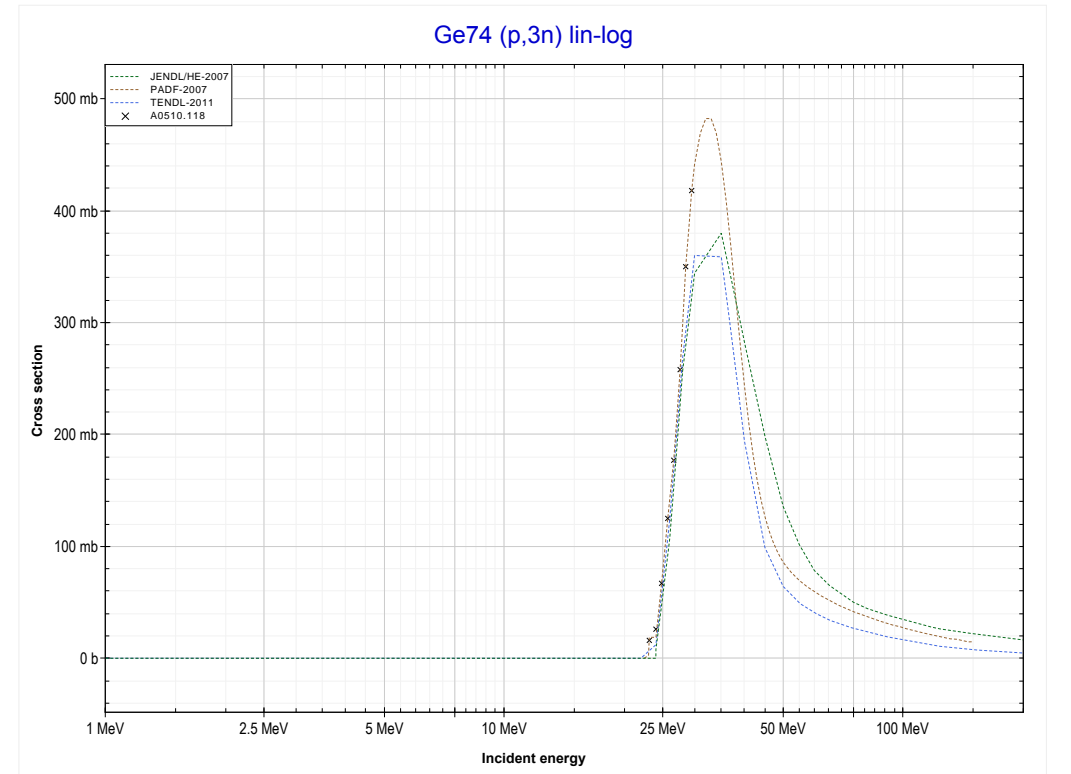
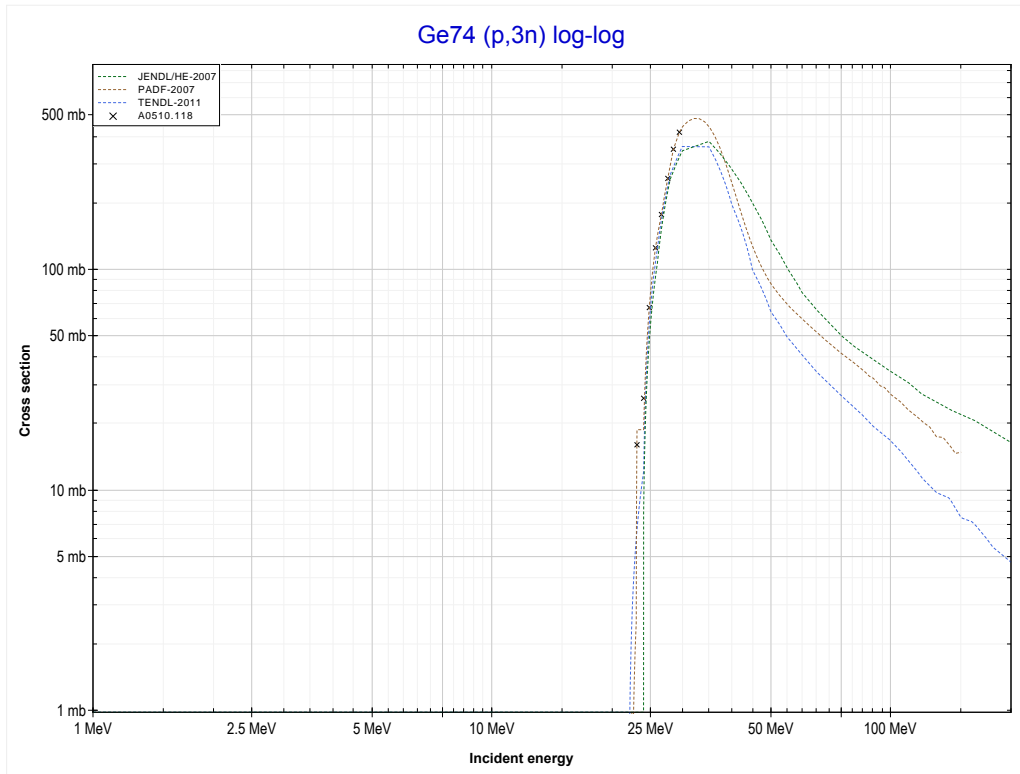
Reaction	Q-Value
Ge73(p,3n)As71	-20328.48 keV

<< 32-Ge-72	<b>32-Ge-74</b>	32-Ge-76 >>
<< MT17 (p,3n)	<b>MT4 (p,n) or MT5 (As74 production)</b>	MT17 (p,3n) >>



Reaction	Q-Value
Ge74(p,n)As74	-3344.75 keV

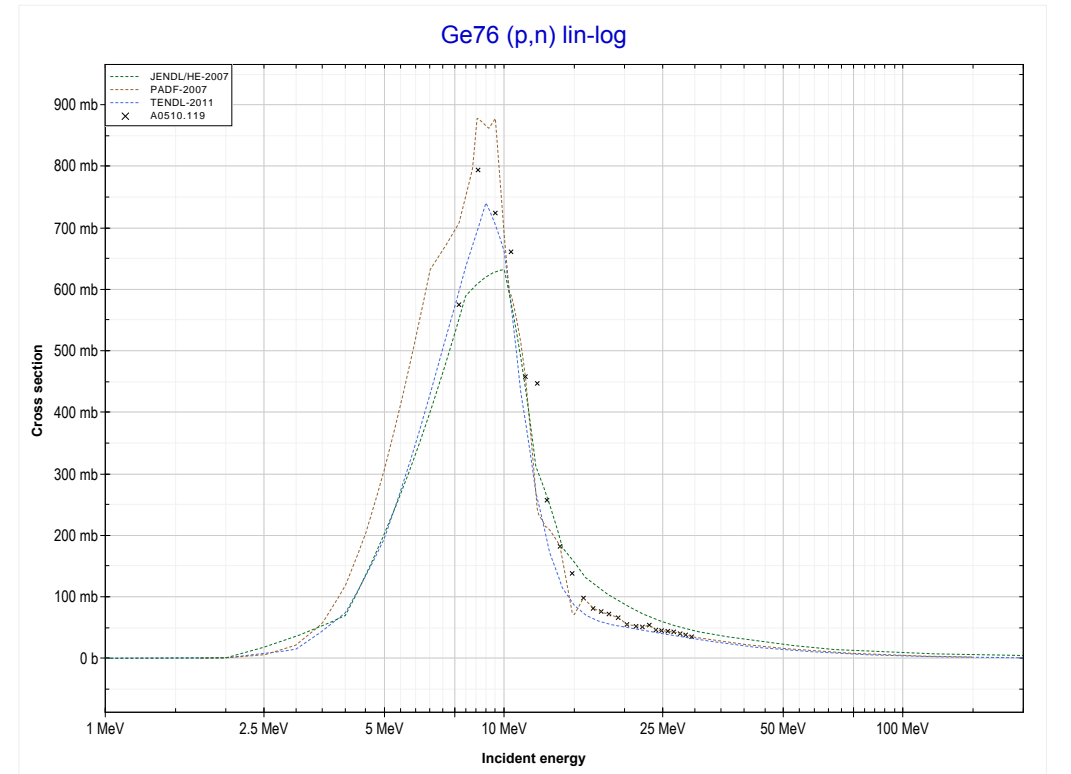
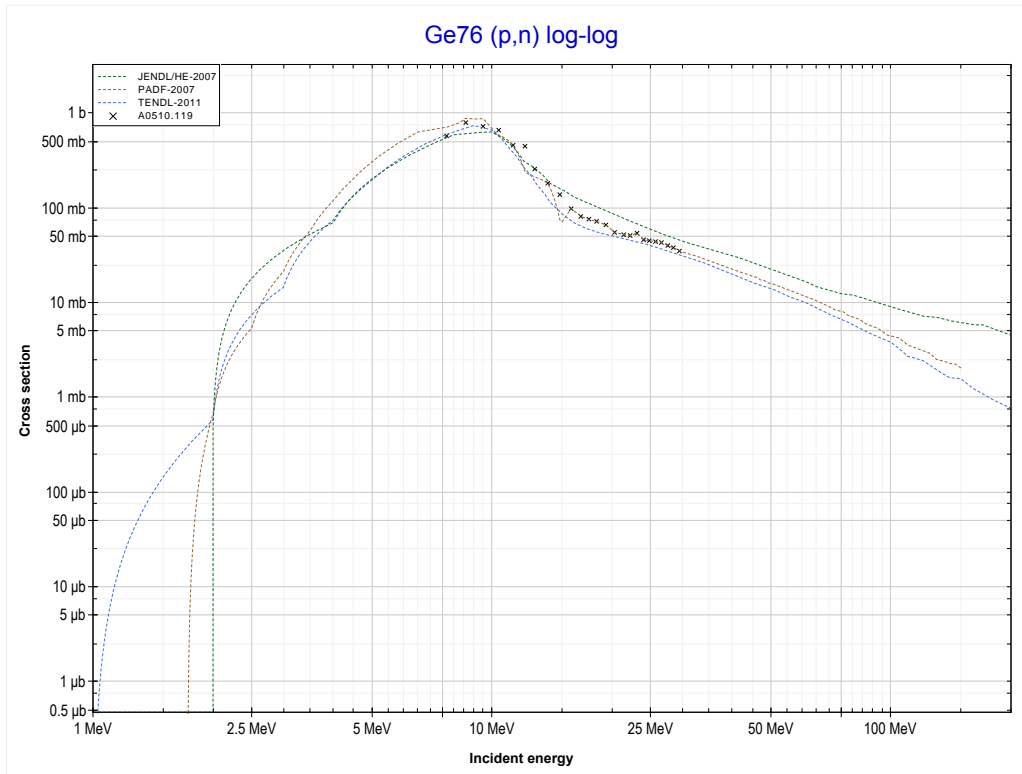
<< 32-Ge-73	<b>32-Ge-74</b>	32-Ge-76 >>
<< MT4 (p,n)	<b>MT17 (p,3n) or MT5 (As72 production)</b>	MT4 (p,n) >>



Reaction	Q-Value
Ge74(p,3n)As72	-22117.38 keV

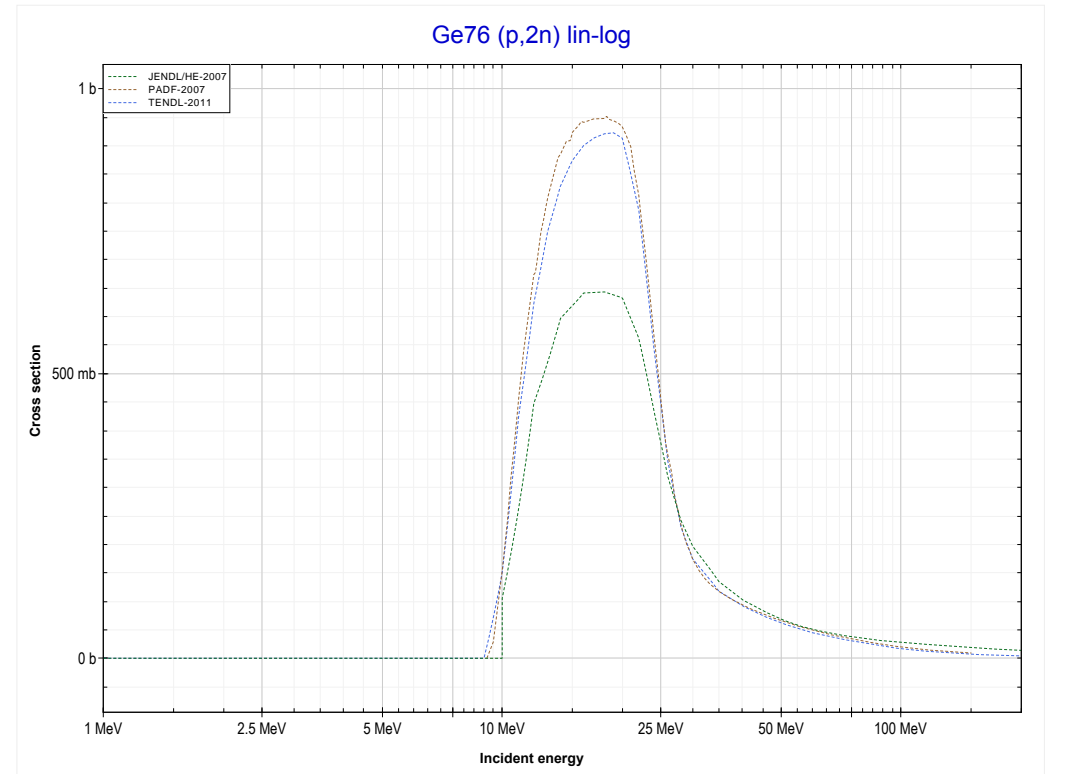
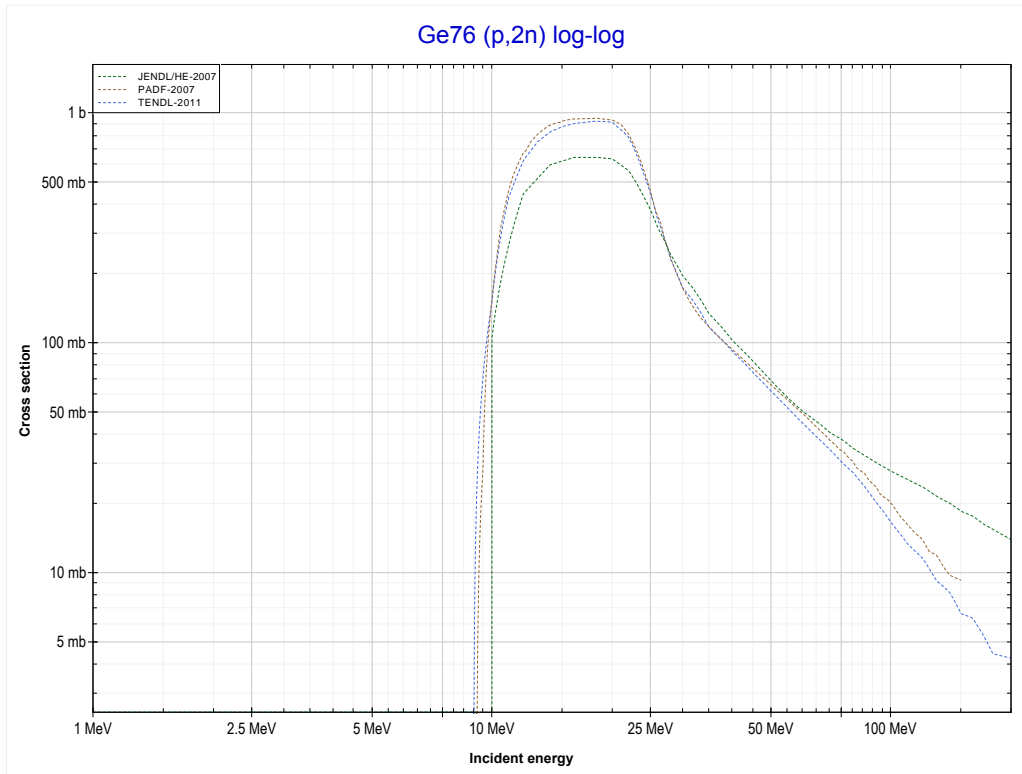


<< 32-Ge-74	<b>32-Ge-76</b>	33-As-75 >>
<< MT17 (p,3n)	<b>MT4 (p,n) or MT5 (As76 production)</b>	MT16 (p,2n) >>



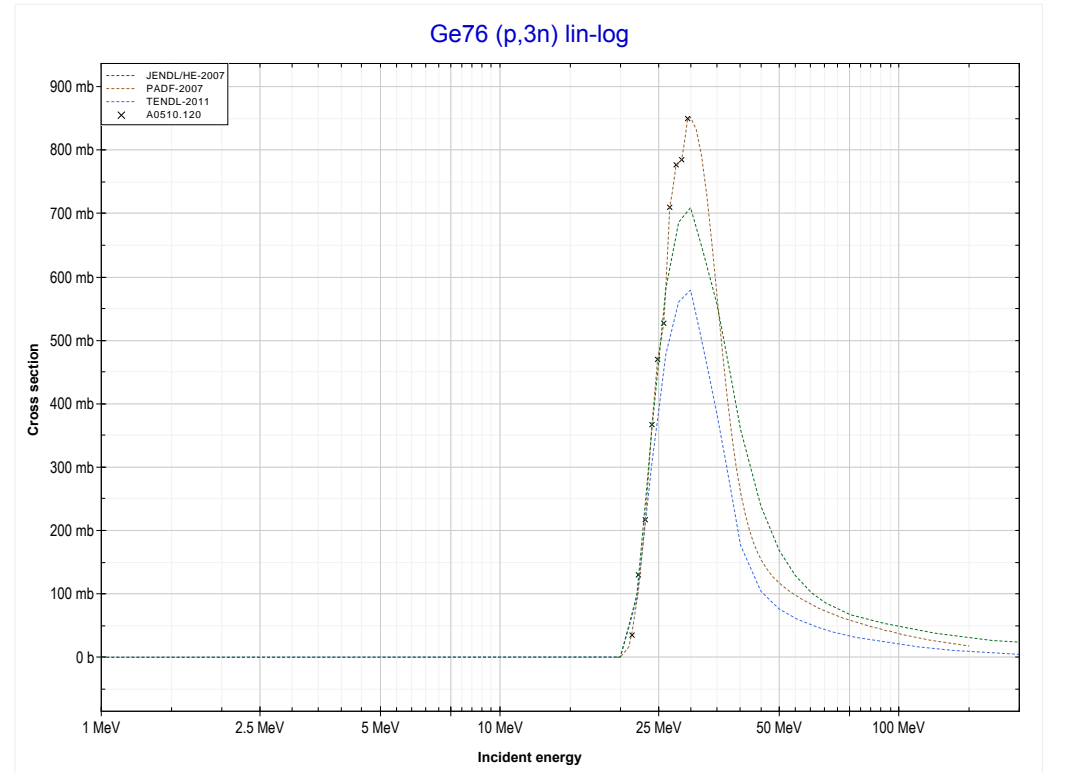
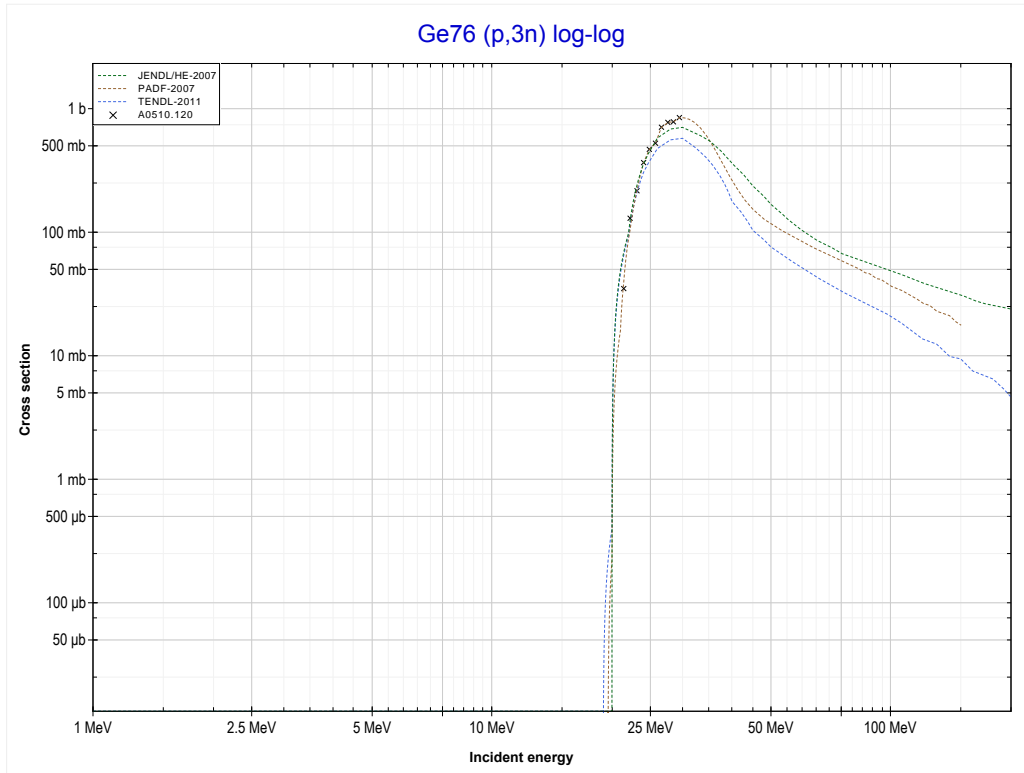
Reaction	Q-Value
Ge76(p,n)As76	-1705.85 keV

<< 32-Ge-73	<b>32-Ge-76</b>	34-Se-76 >>
<< MT4 (p,n)	<b>MT16 (p,2n) or MT5 (As75 production)</b>	MT17 (p,3n) >>



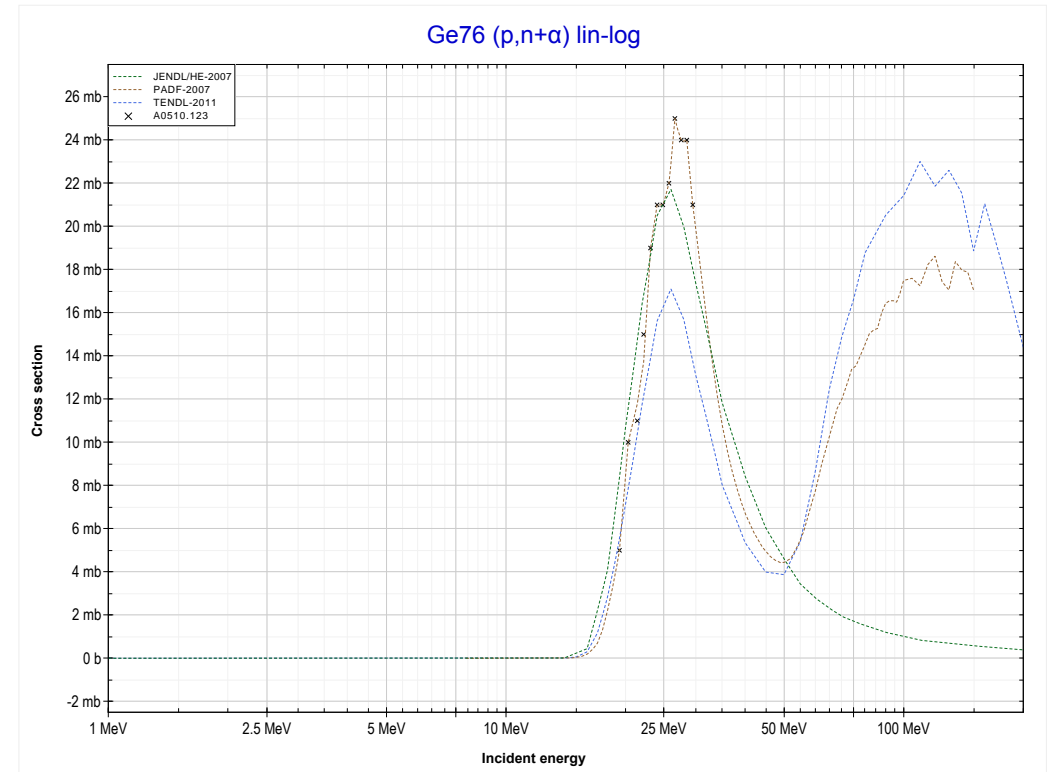
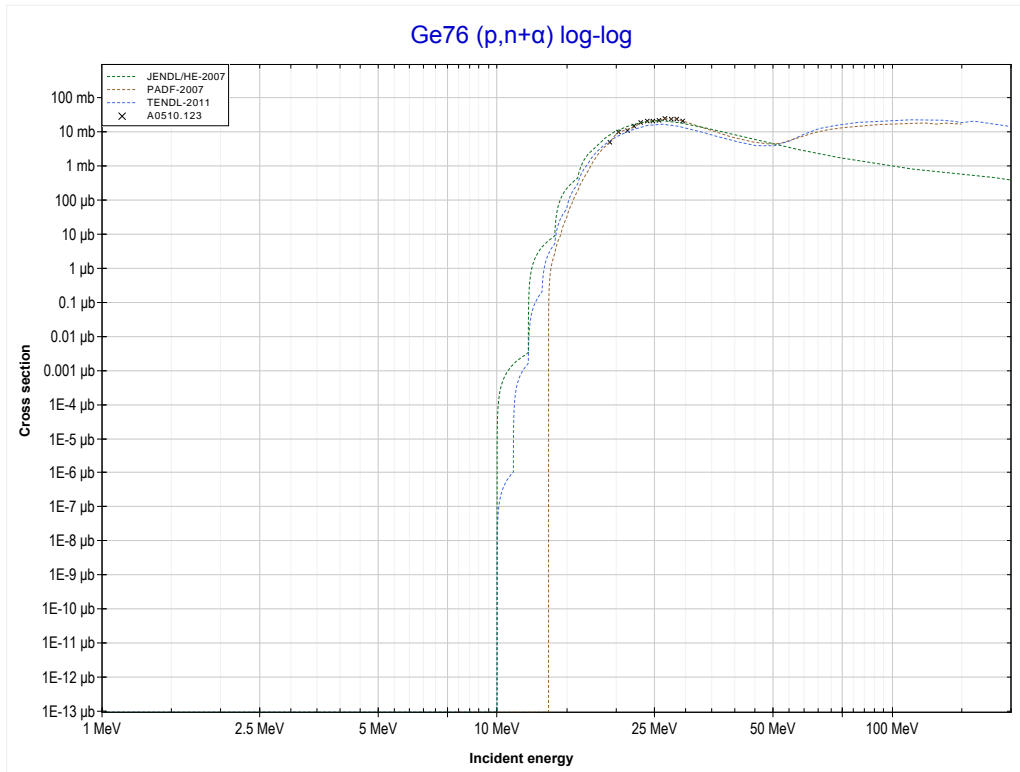
<b>Reaction</b>	<b>Q-Value</b>
Ge76(p,2n)As75	-9034.26 keV

<< 32-Ge-74	<b>32-Ge-76</b>	33-As-75 >>
<< MT16 (p,2n)	<b>MT17 (p,3n) or MT5 (As74 production)</b>	MT22 (p,n+α) >>



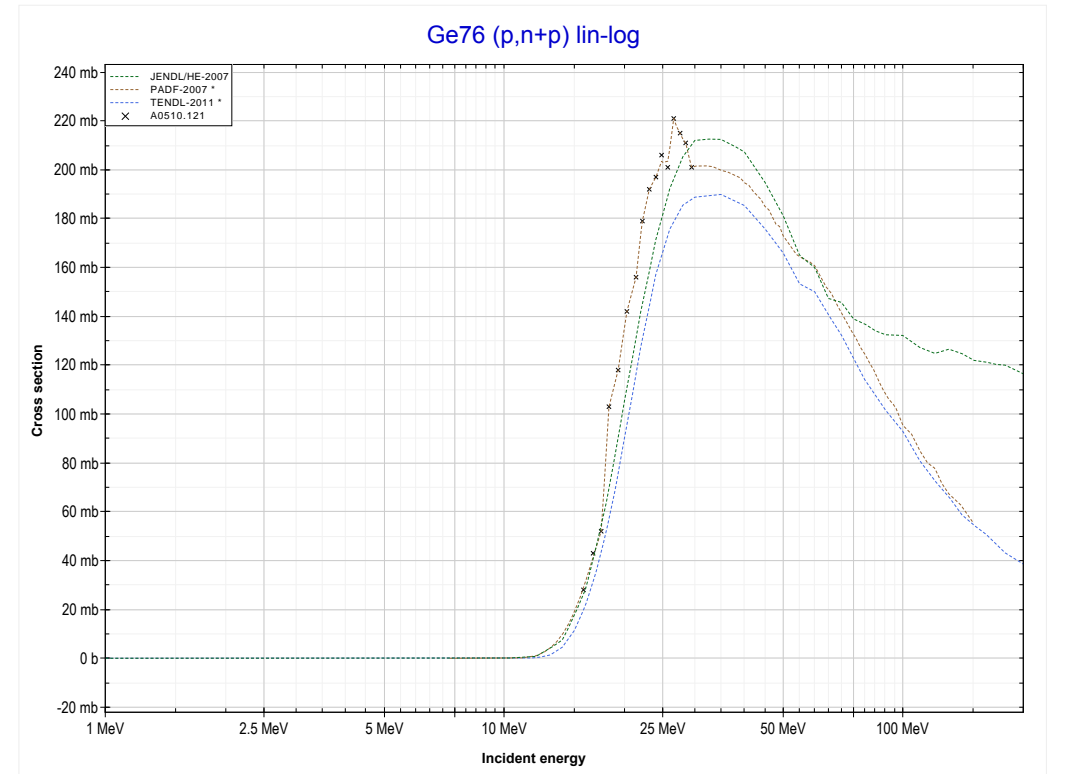
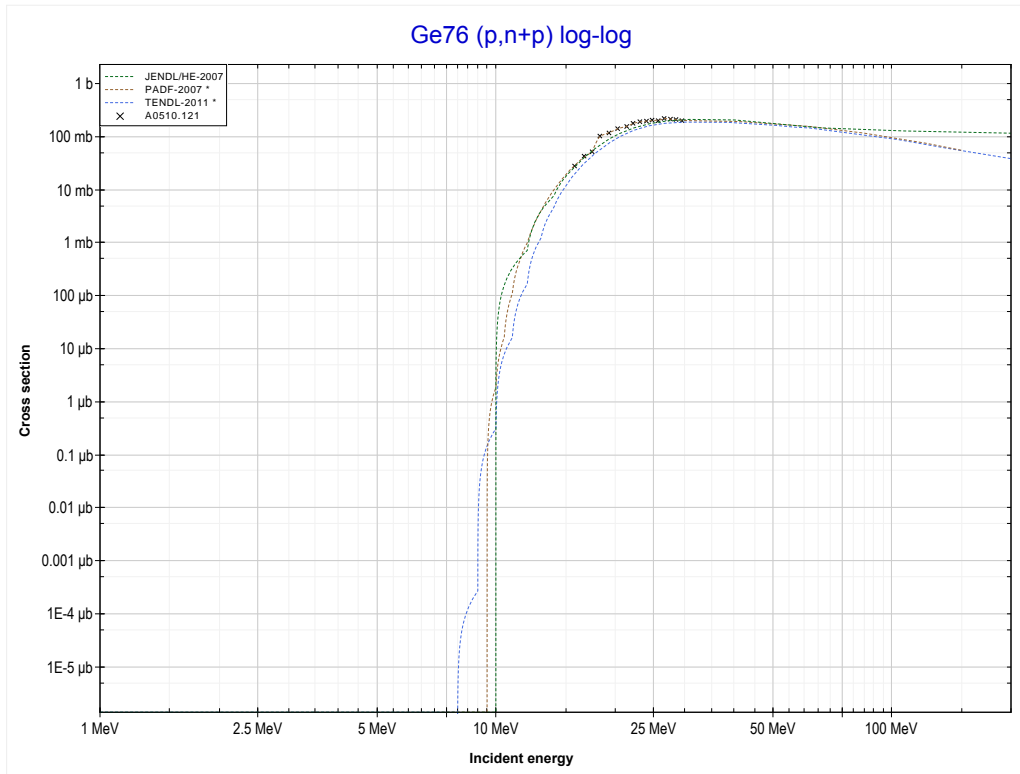
Reaction	Q-Value
Ge76(p,3n)As74	-19277.98 keV

<< 32-Ge-72	<b>32-Ge-76</b>	34-Se-74 >>
<< MT17 (p,3n)	<b>MT22 (p,n+α) or MT5 (Ga72 production)</b>	MT28 (p,n+p) >>



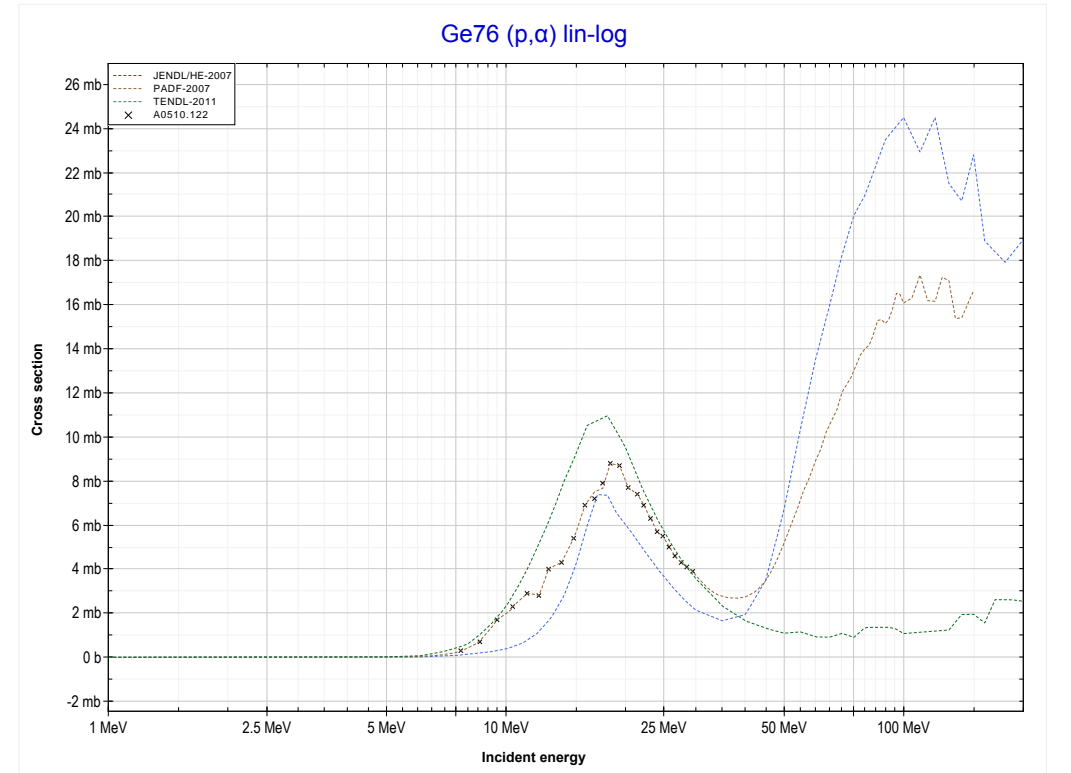
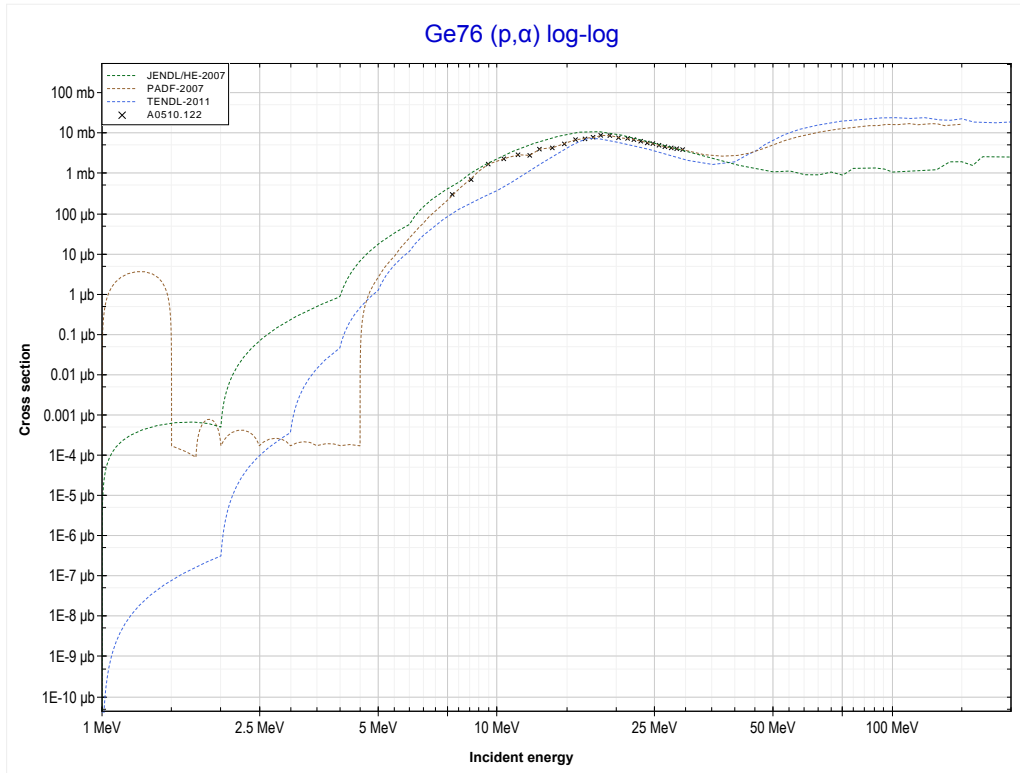
Reaction	Q-Value
Ge76(p,n+α)Ga72	-7830.86 keV
Ge76(p,d+t)Ga72	-25420.16 keV
Ge76(p,n+p+t)Ga72	-27644.72 keV
Ge76(p,2n+He3)Ga72	-28408.48 keV
Ge76(p,n+2d)Ga72	-31677.39 keV
Ge76(p,2n+p+d)Ga72	-33901.96 keV
Ge76(p,3n+2p)Ga72	-36126.52 keV

<< 32-Ge-72	<b>32-Ge-76</b>	33-As-75 >>
<< MT22 (p,n+α)	<b>MT28 (p,n+p) or MT5 (Ge75 production)</b>	MT107 (p,α) >>



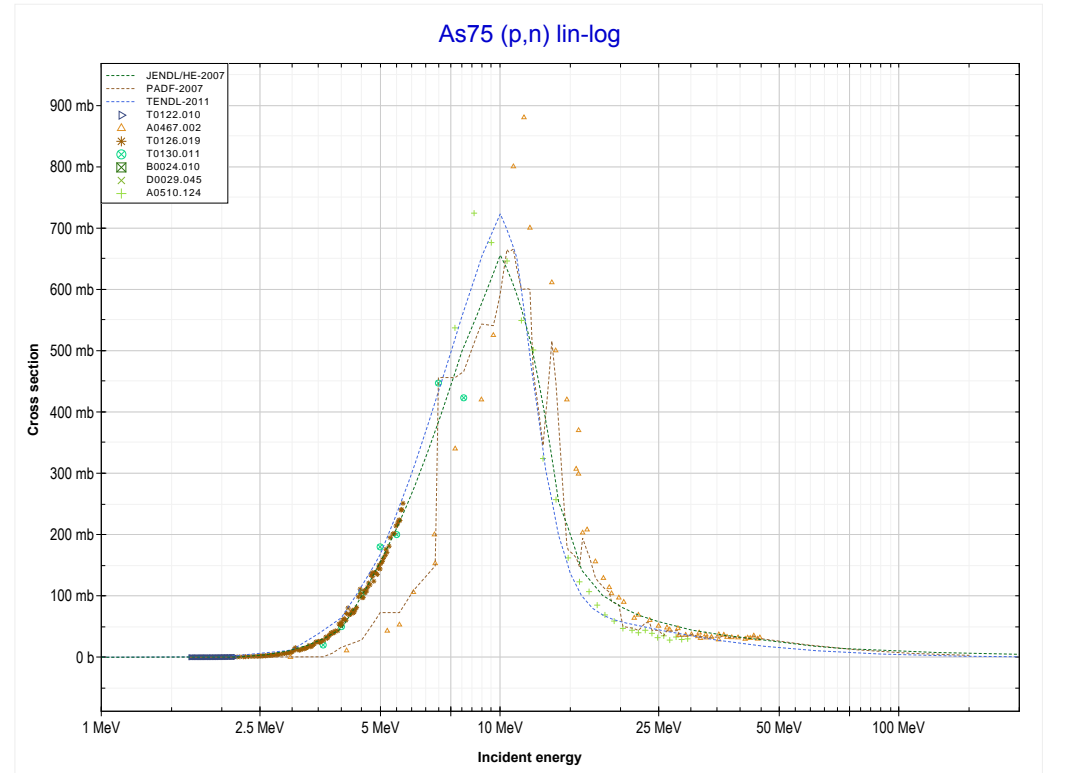
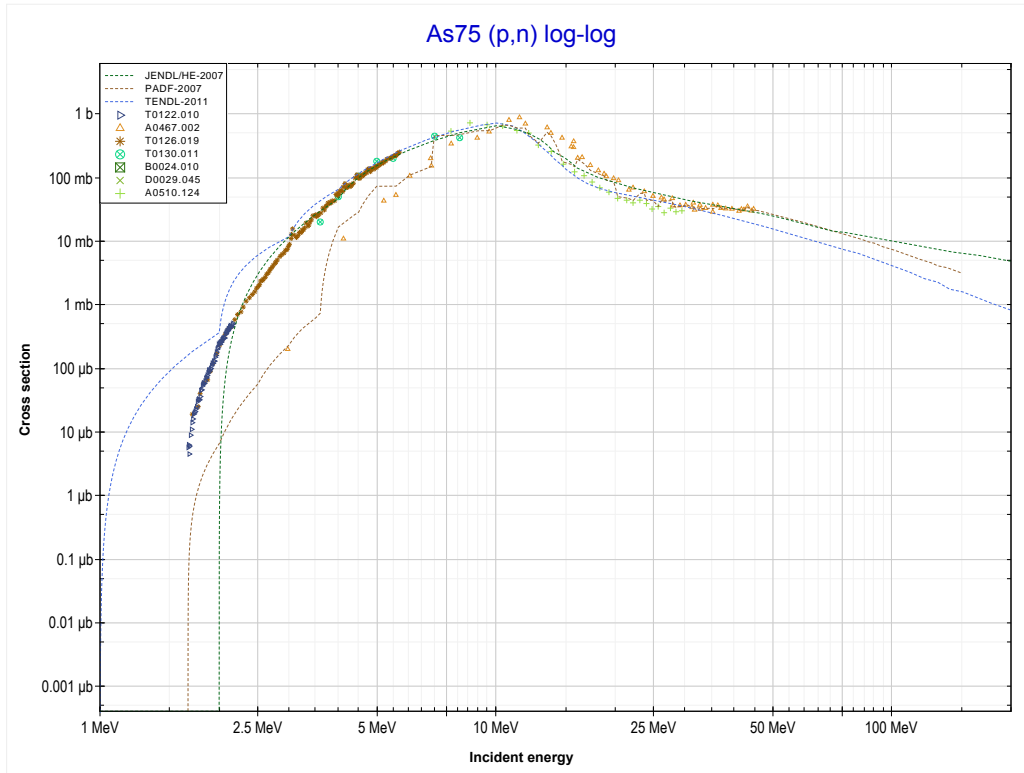
Reaction	Q-Value
Ge76(p,d)Ge75	-7203.35 keV
Ge76(p,n+p)Ge75	-9427.92 keV

<< 32-Ge-70	<b>32-Ge-76</b>	34-Se-74 >>
<< MT28 (p,n+p)	<b>MT107 (p,<math>\alpha</math>) or MT5 (Ga73 production)</b>	MT4 (p,n) >>



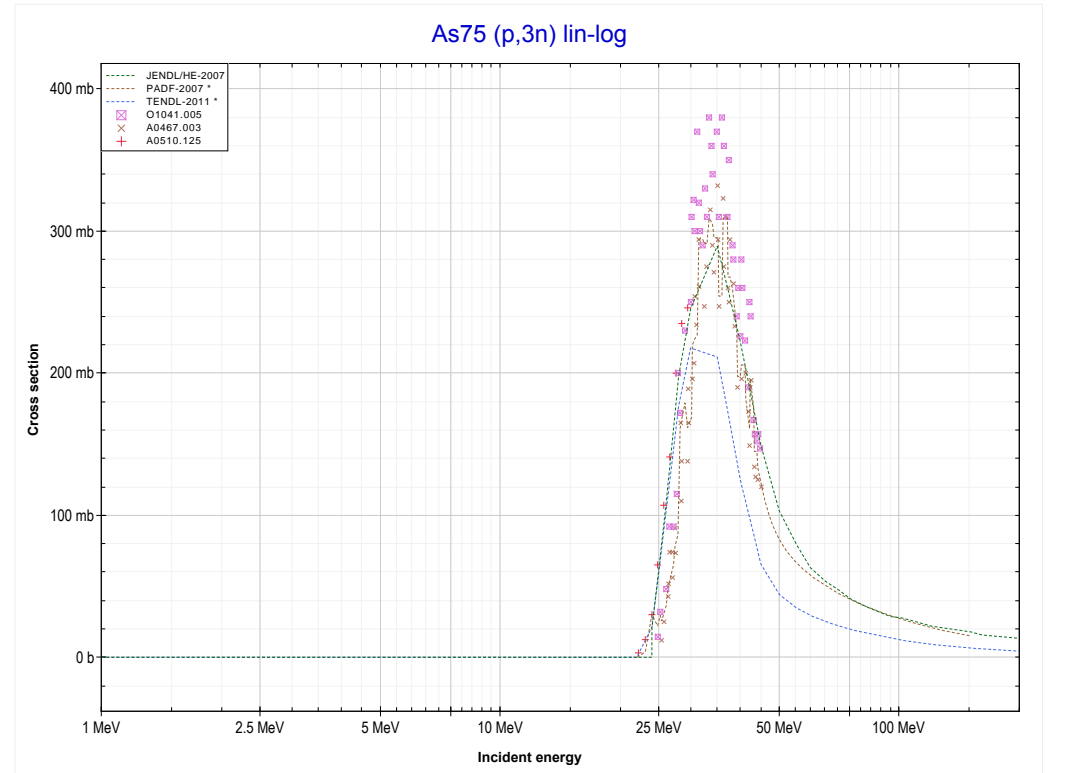
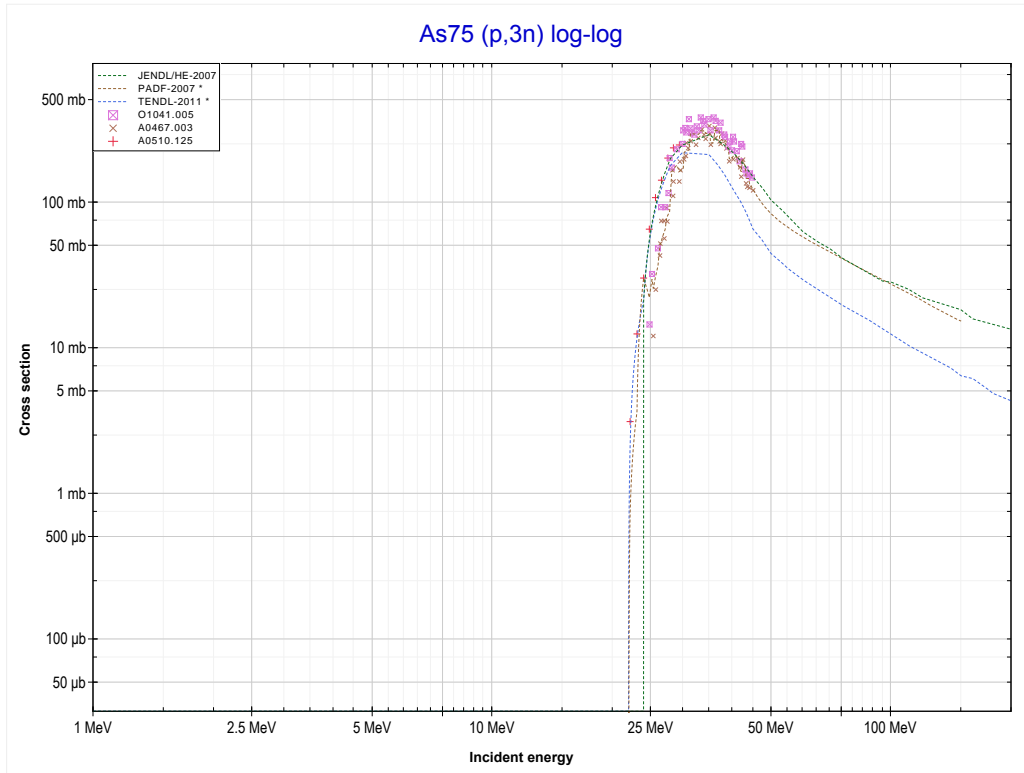
Reaction	Q-Value
Ge76(p, $\alpha$ )Ga73	1350.35 keV
Ge76(p,p+t)Ga73	-18463.51 keV
Ge76(p,n+He3)Ga73	-19227.26 keV
Ge76(p,2d)Ga73	-22496.17 keV
Ge76(p,n+p+d)Ga73	-24720.74 keV
Ge76(p,2n+2p)Ga73	-26945.30 keV

<< 32-Ge-76	<b>33-As-75</b>	34-Se-76 >>
<< MT107 (p, $\alpha$ )	<b>MT4 (p,n) or MT5 (Se75 production)</b>	MT17 (p,3n) >>



Reaction	Q-Value
As75(p,n)Se75	-1645.75 keV

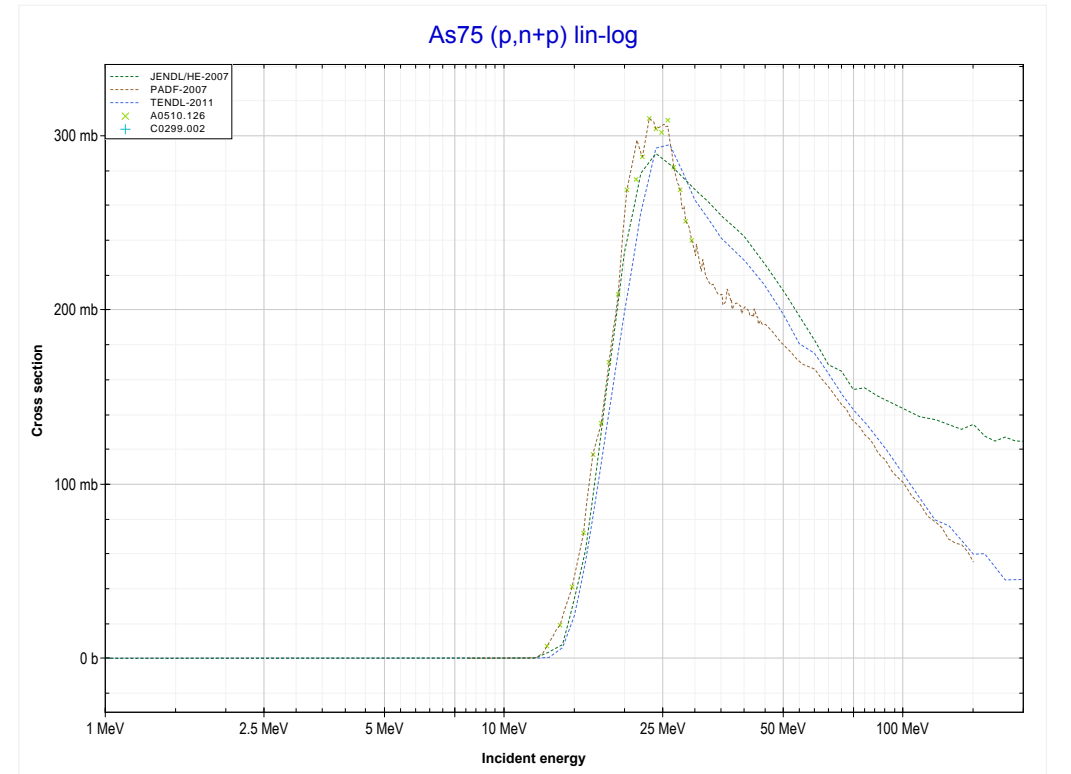
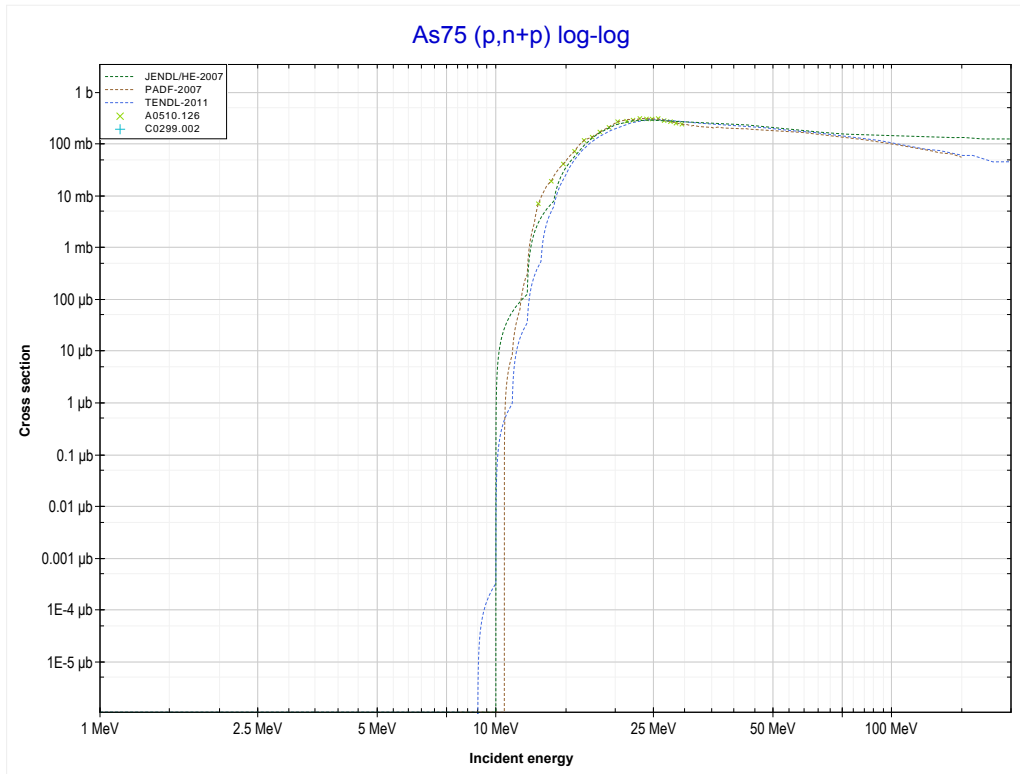
<< 32-Ge-76	<b>33-As-75</b>	34-Se-76 >>
<< MT4 (p,n)	<b>MT17 (p,3n) or MT5 (Se73 production)</b>	MT28 (p,n+p) >>



Reaction	Q-Value
As75(p,3n)Se73	-21739.38 keV

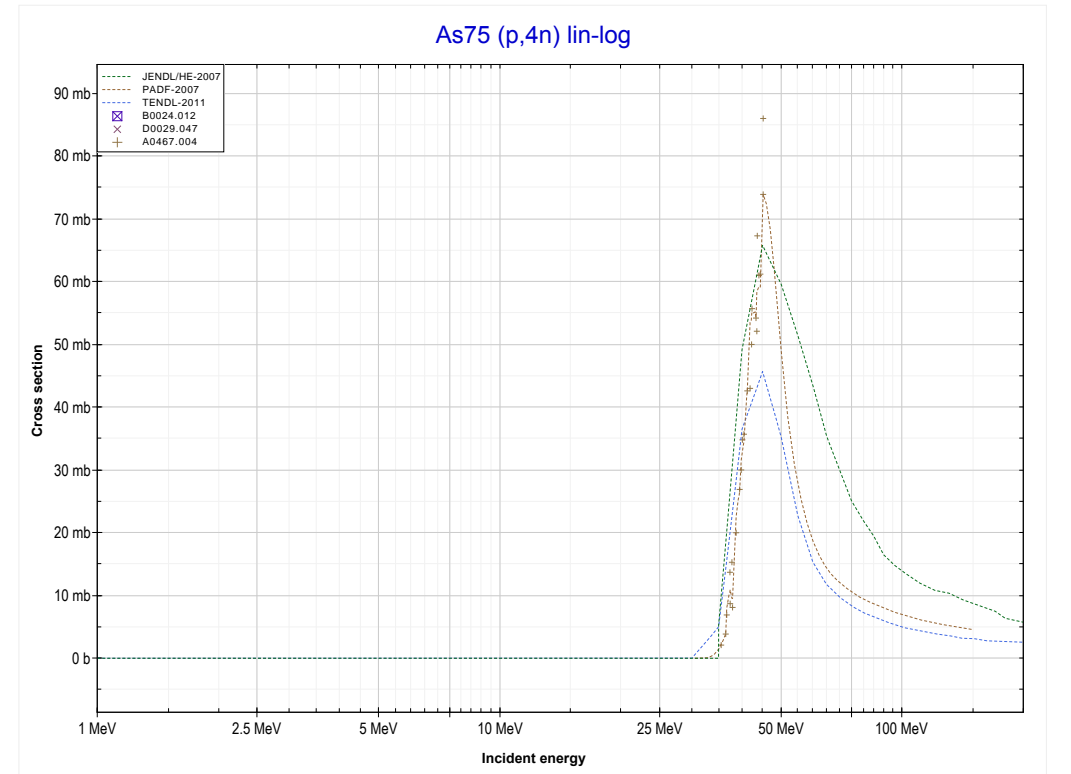
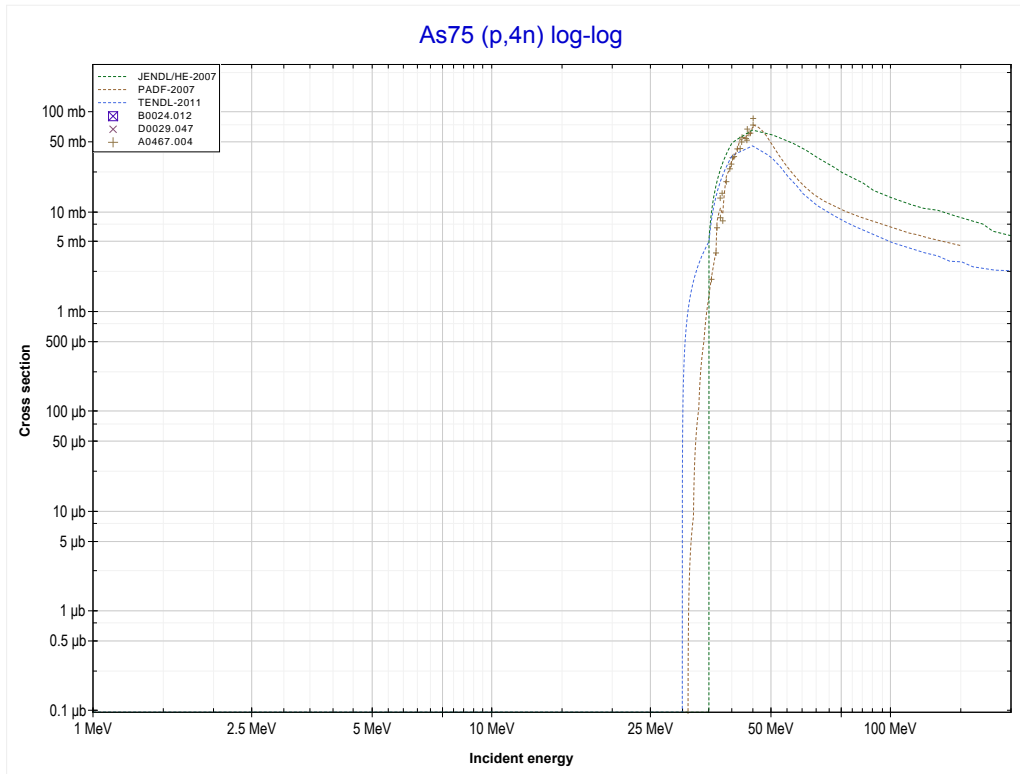


<< 32-Ge-76	<b>33-As-75</b>	34-Se-74 >>
<< MT17 (p,3n)	<b>MT28 (p,n+p) or MT5 (As74 production)</b>	MT37 (p,4n) >>



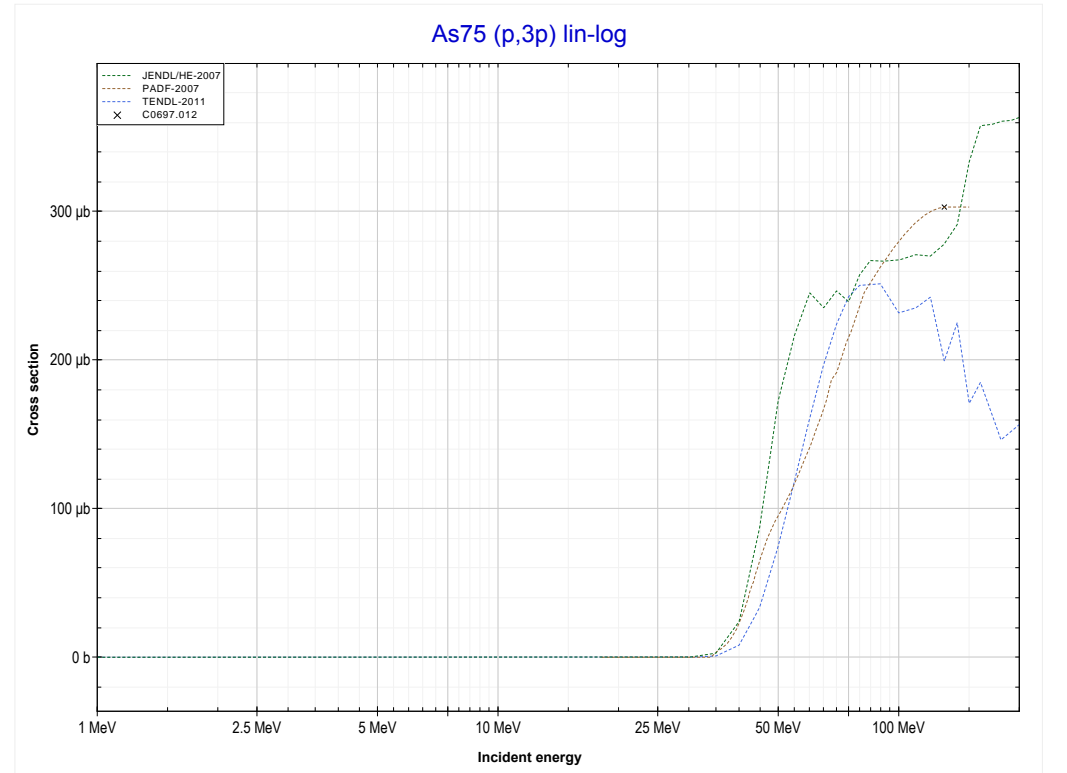
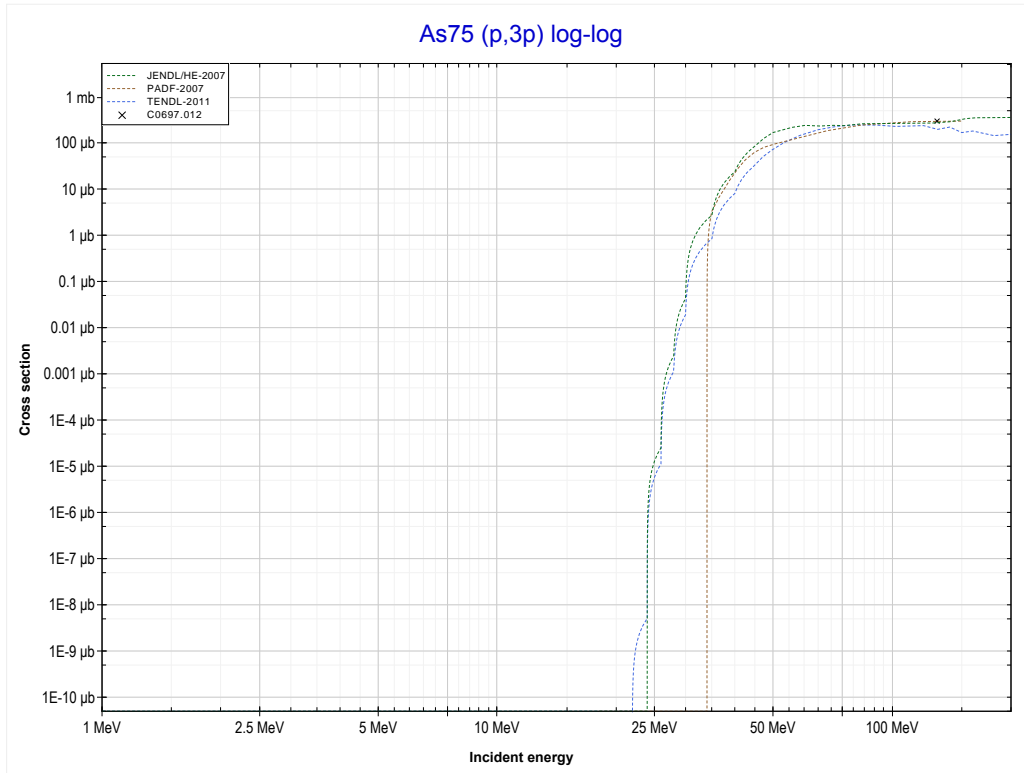
Reaction	Q-Value
As75(p,d)As74	-8019.15 keV
As75(p,n+p)As74	-10243.72 keV

<< 31-Ga-71	<b>33-As-75</b>	34-Se-78 >>
<< MT28 (p,n+p)	<b>MT37 (p,4n) or MT5 (Se72 production)</b>	MT197 (p,3p) >>



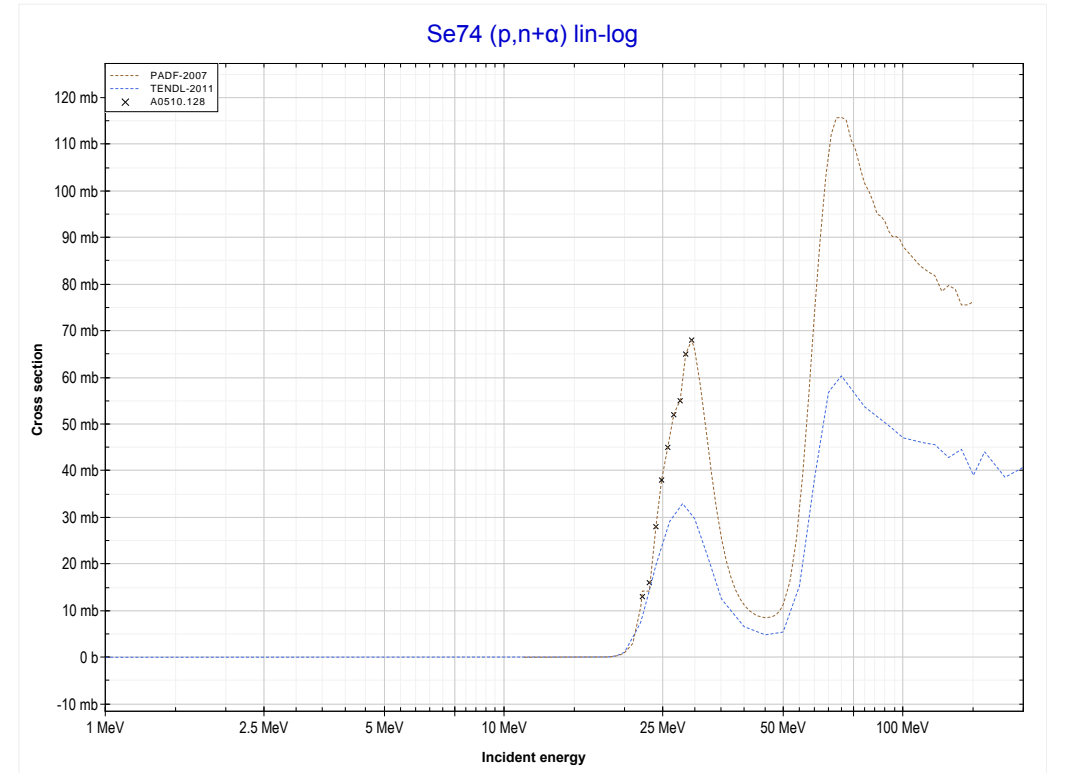
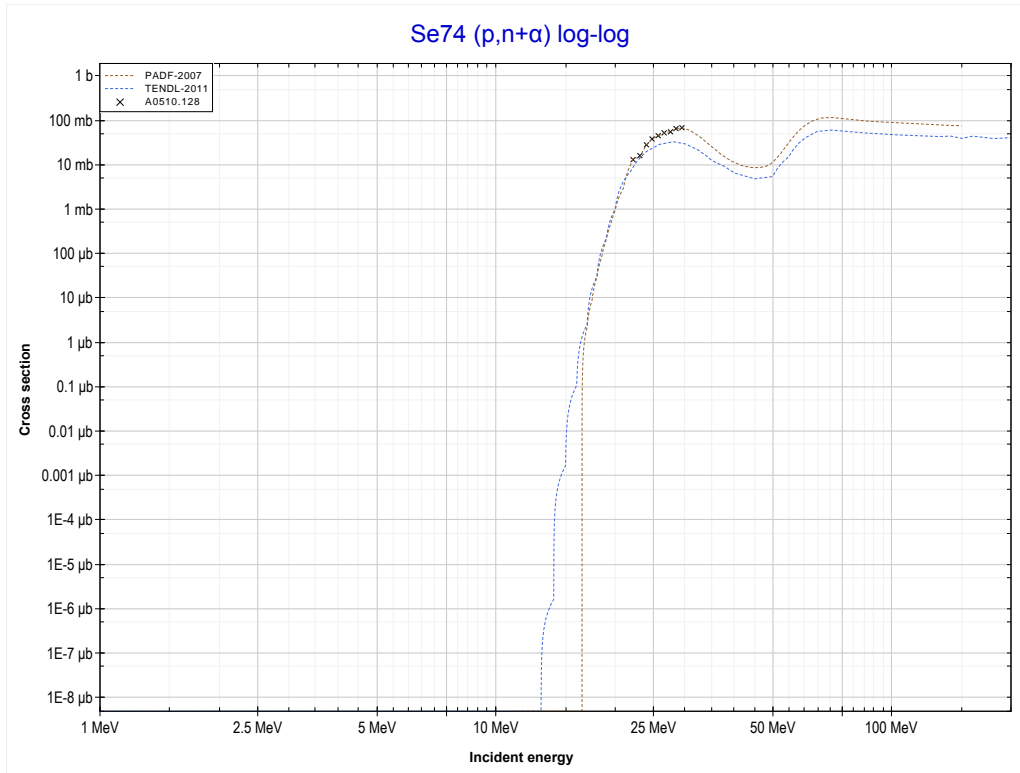
Reaction	Q-Value
As75(p,4n)Se72	-30134.70 keV

<< 31-Ga-69	<b>33-As-75</b>	74-W-186 >>
<< MT37 (p,4n)	<b>MT197 (p,3p) or MT5 (Ga73 production)</b>	MT22 (p,n+α) >>



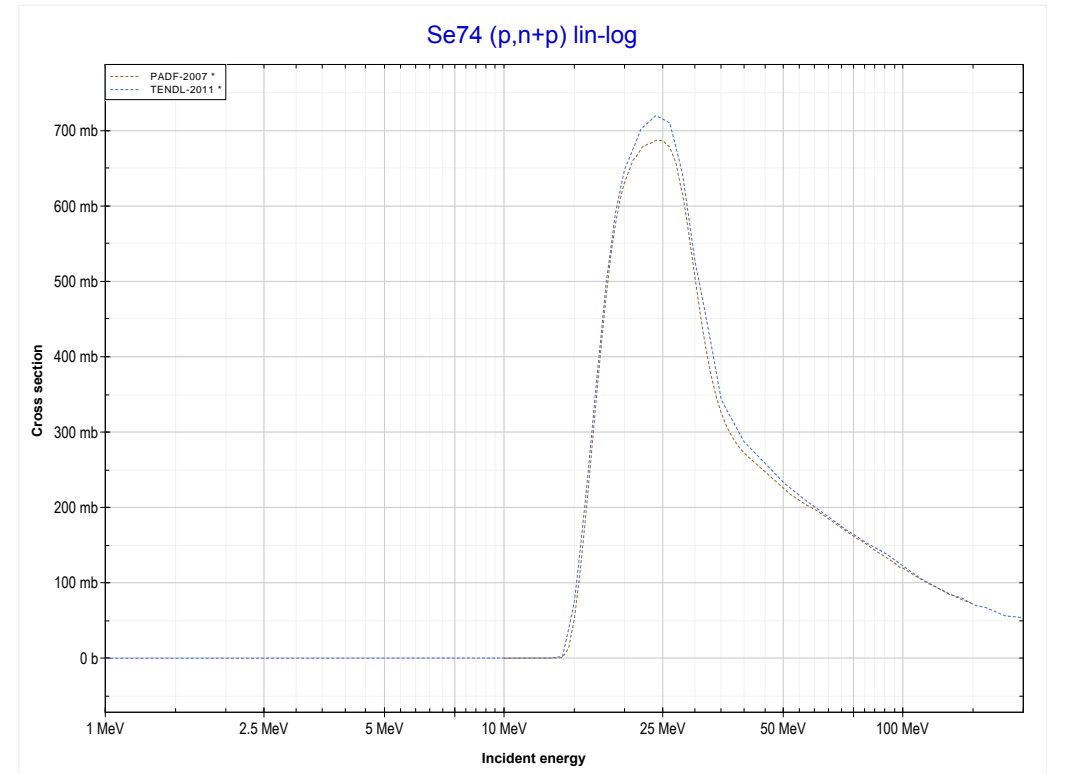
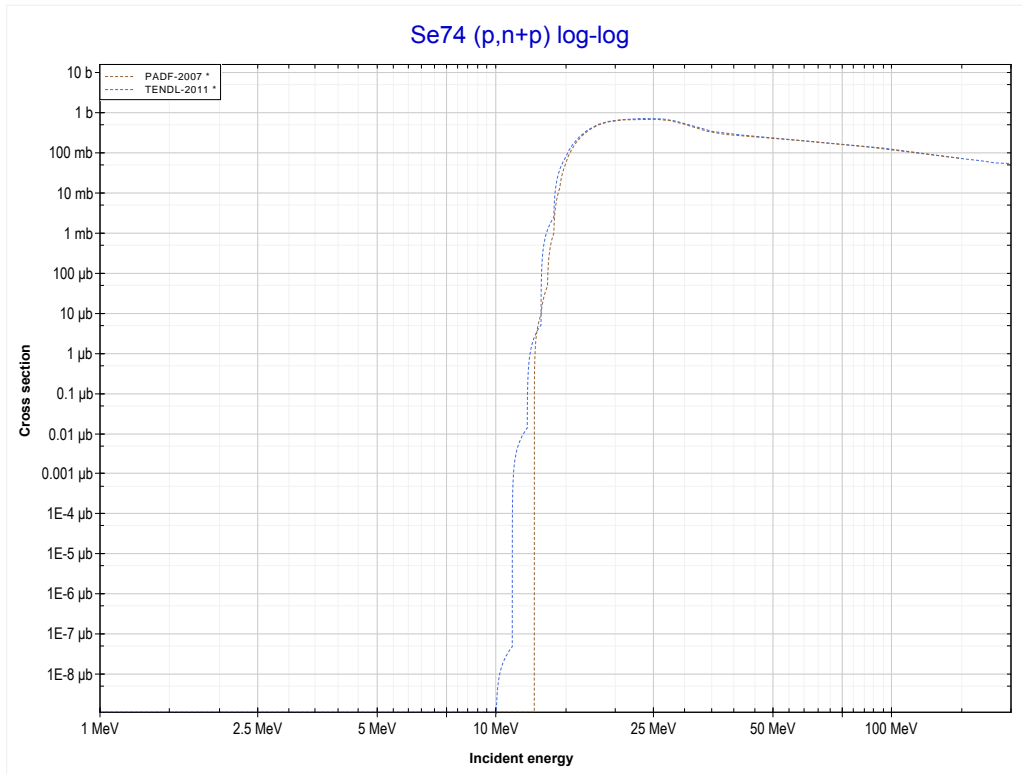
Reaction	Q-Value
As75(p,3p)Ga73	-17911.04 keV

<< 32-Ge-76	<b>34-Se-74</b>	34-Se-76 >>
<< MT197 (p,3p)	<b>MT22 (p,n+α) or MT5 (As70 production)</b>	MT28 (p,n+p) >>



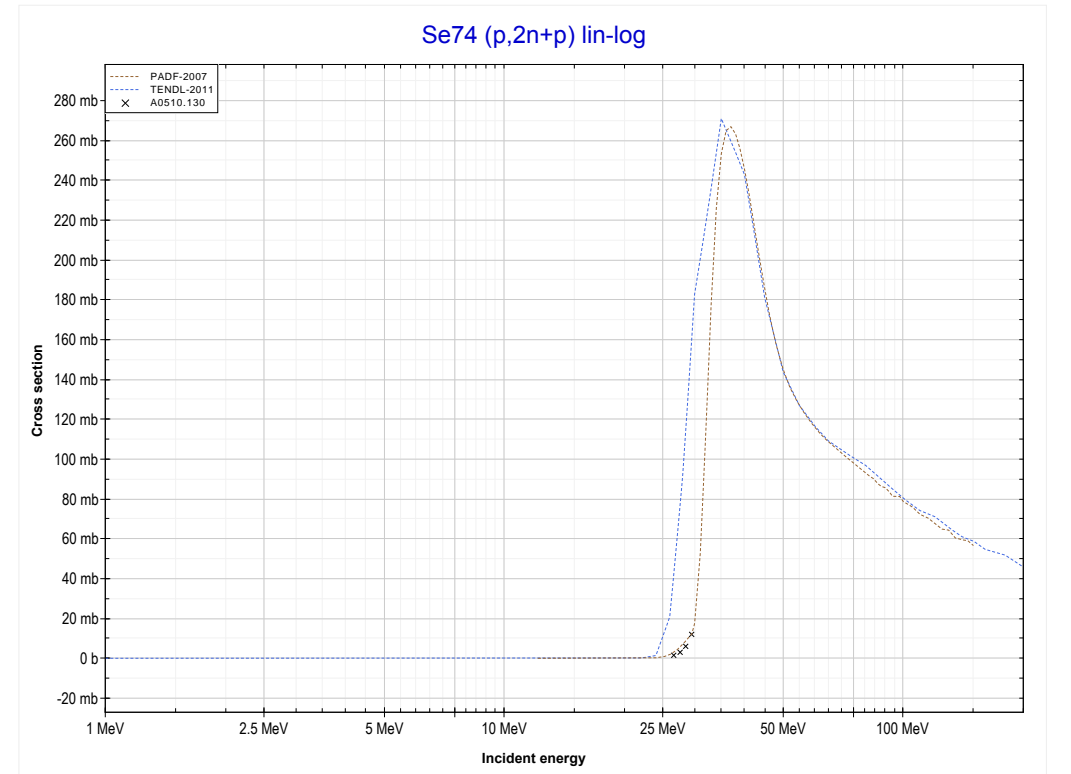
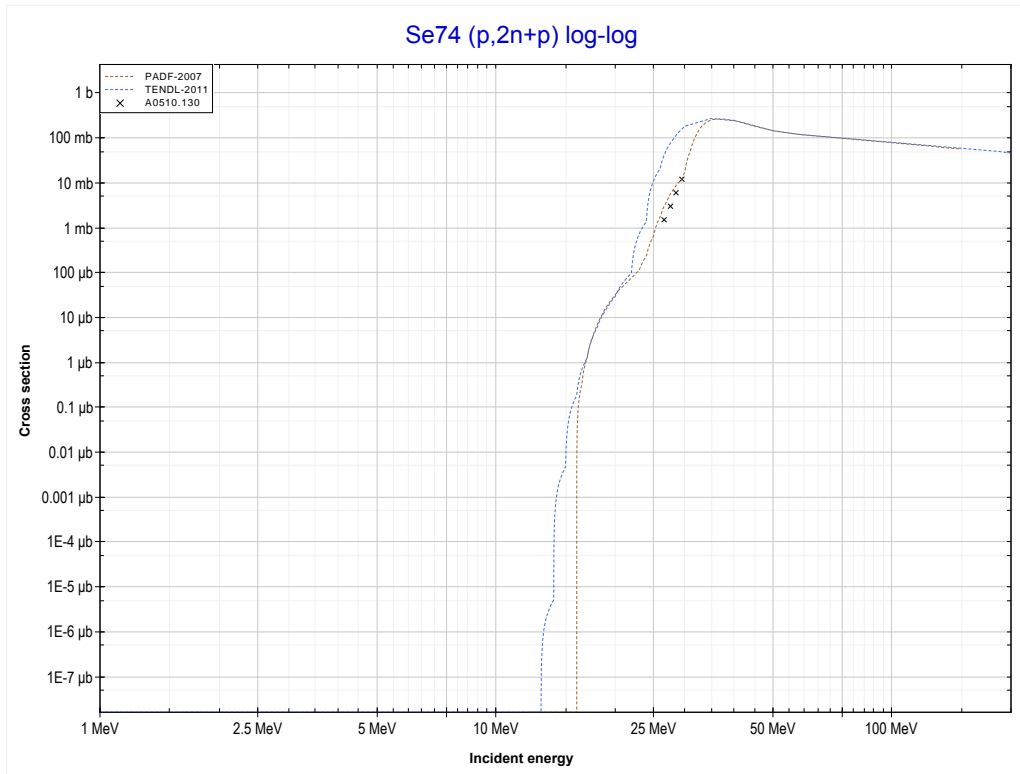
Reaction	Q-Value
Se74(p,n+α)As70	-11079.96 keV
Se74(p,d+t)As70	-28669.26 keV
Se74(p,n+p+t)As70	-30893.82 keV
Se74(p,2n+He3)As70	-31657.58 keV
Se74(p,n+2d)As70	-34926.49 keV
Se74(p,2n+p+d)As70	-37151.06 keV
Se74(p,3n+2p)As70	-39375.62 keV

<< 33-As-75	<b>34-Se-74</b>	34-Se-76 >>
<< MT22 (p,n+α)	<b>MT28 (p,n+p) or MT5 (Se73 production)</b>	MT41 (p,2n+p) >>



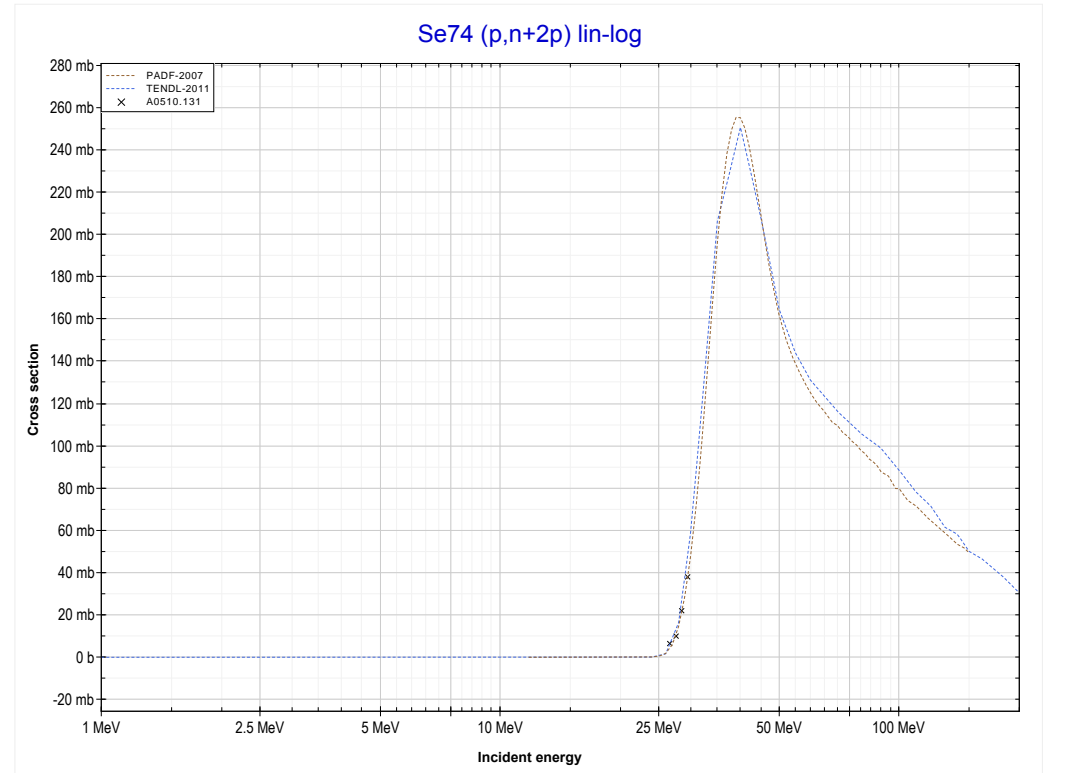
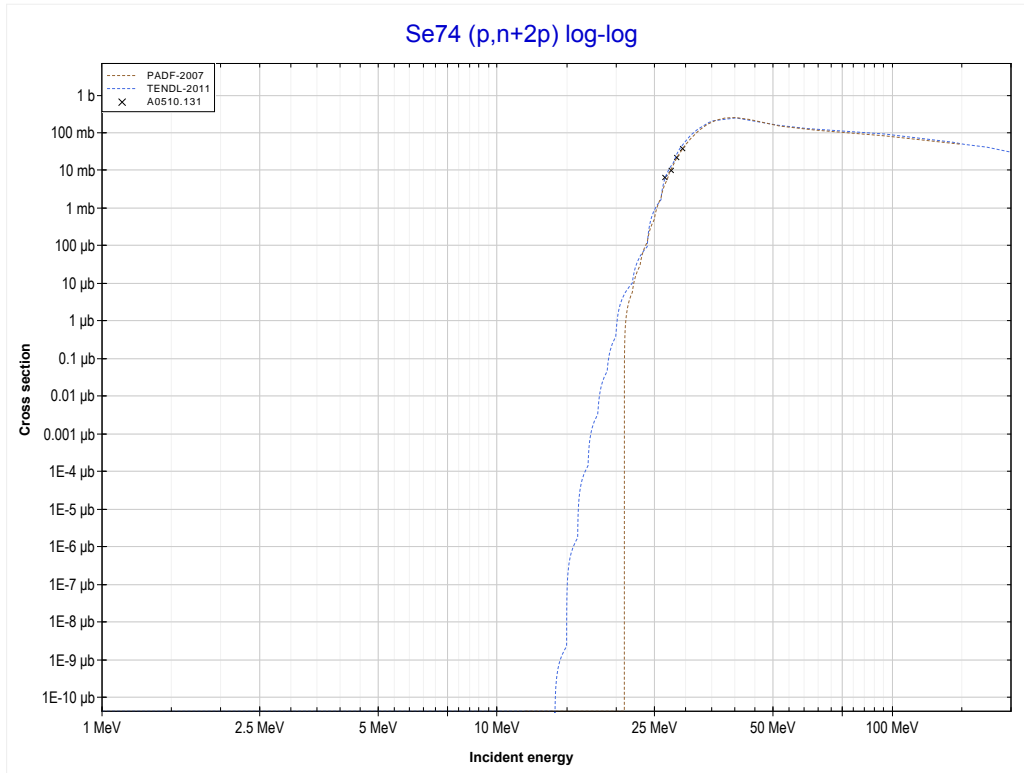
Reaction	Q-Value
Se74(p,d)Se73	-9841.45 keV
Se74(p,n+p)Se73	-12066.02 keV

<< 31-Ga-69	<b>34-Se-74</b>	34-Se-77 >>
<< MT28 (p,n+p)	<b>MT41 (p,2n+p) or MT5 (Se72 production)</b>	MT44 (p,n+2p) >>



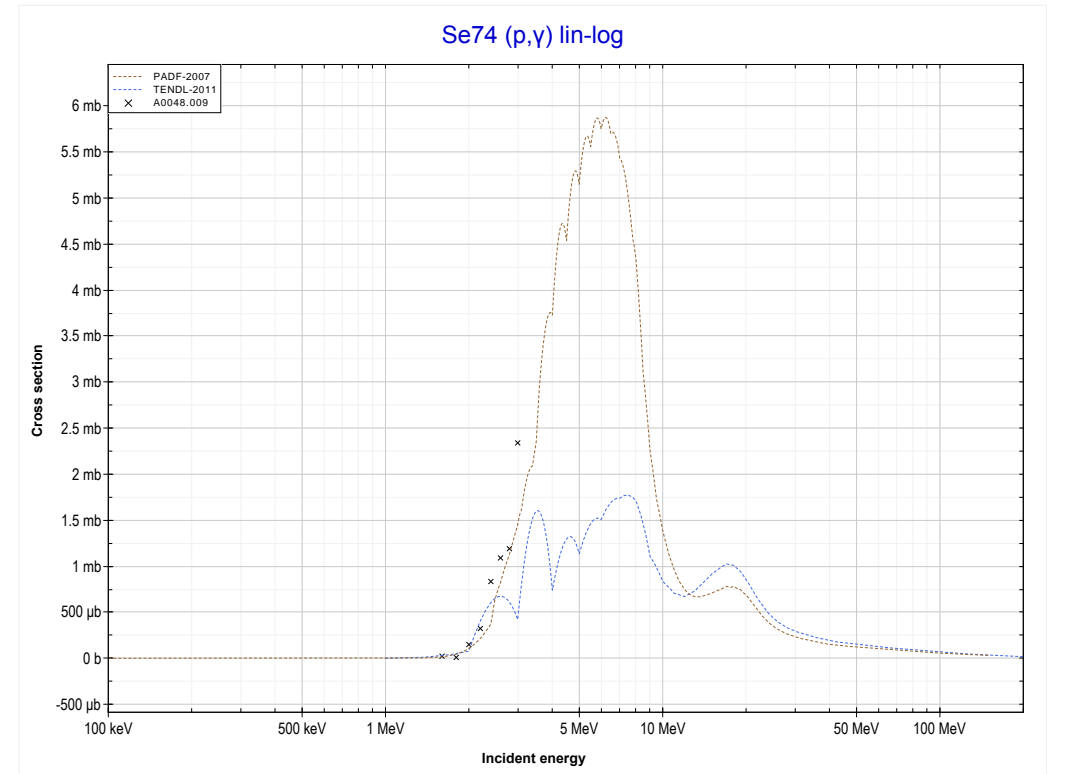
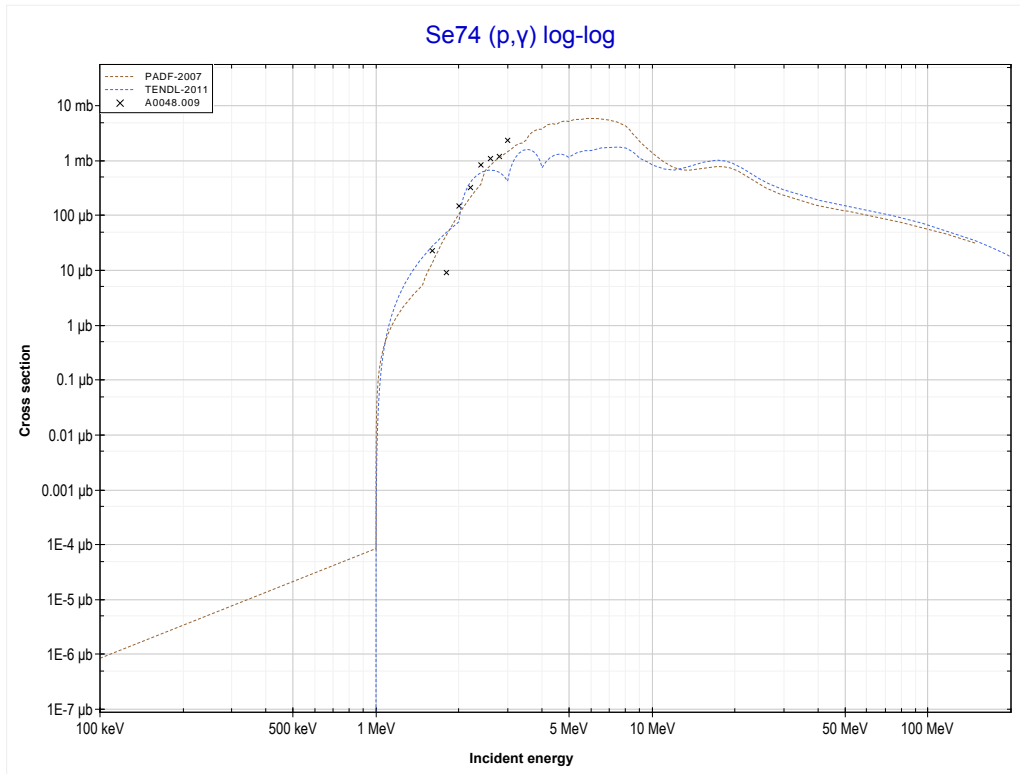
Reaction	Q-Value
Se74(p,t)Se72	-11979.54 keV
Se74(p,n+d)Se72	-18236.77 keV
Se74(p,2n+p)Se72	-20461.33 keV

<< 31-Ga-71	<b>34-Se-74</b>	42-Mo-92 >>
<< MT41 (p,2n+p)	<b>MT44 (p,n+2p) or MT5 (As72 production)</b>	MT102 (p, $\gamma$ ) >>



Reaction	Q-Value
Se74(p,He3)As72	-11624.94 keV
Se74(p,p+d)As72	-17118.42 keV
Se74(p,n+2p)As72	-19342.99 keV

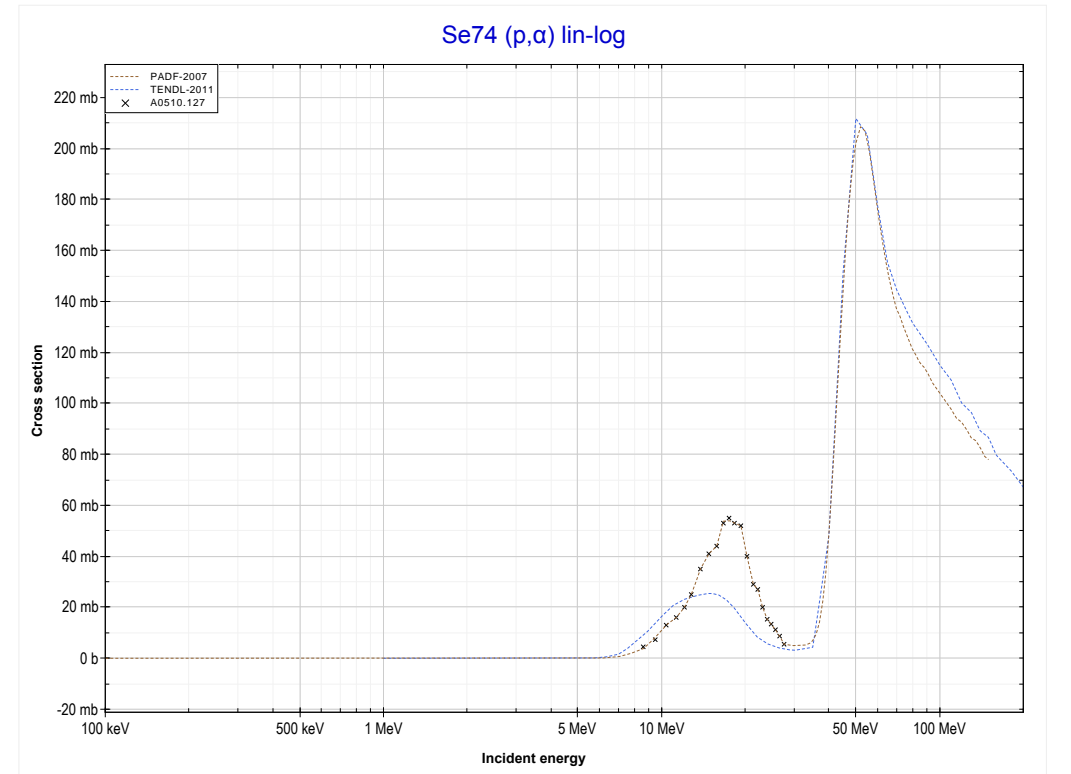
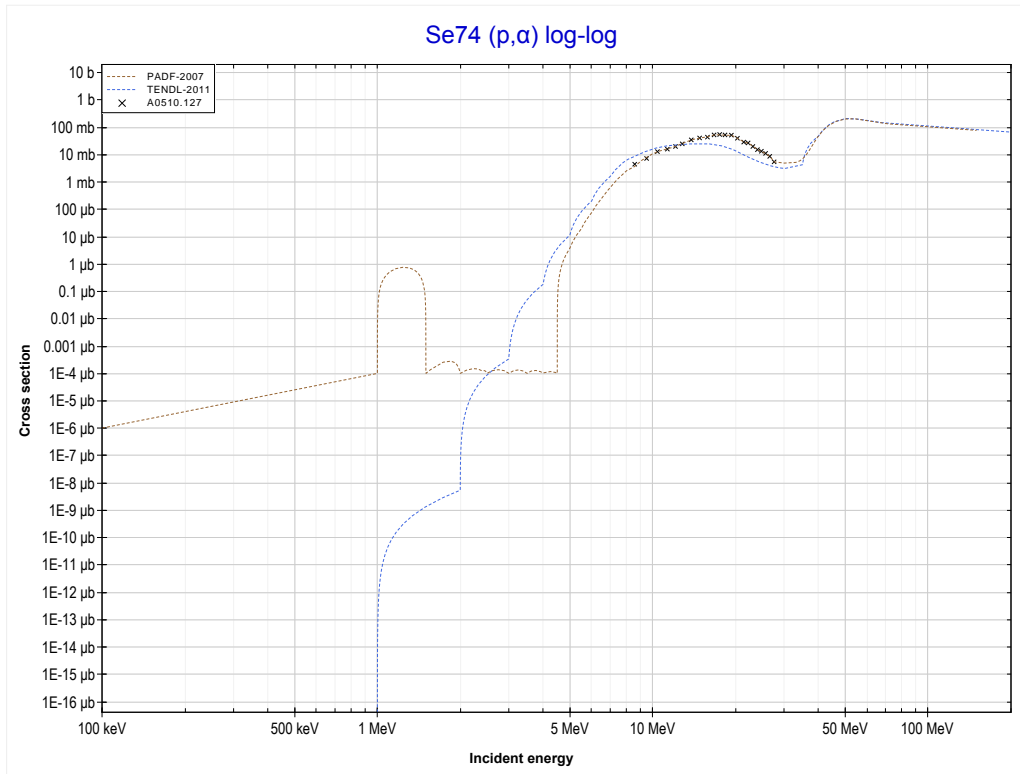
<< 30-Zn-68	<b>34-Se-74</b>	34-Se-77 >>
<< MT44 (p,n+2p)	<b>MT102 (p,<math>\gamma</math>) or MT5 (Br75 production)</b>	MT107 (p, $\alpha$ ) >>



Reaction	Q-Value
Se74(p, $\gamma$ )Br75	4215.27 keV

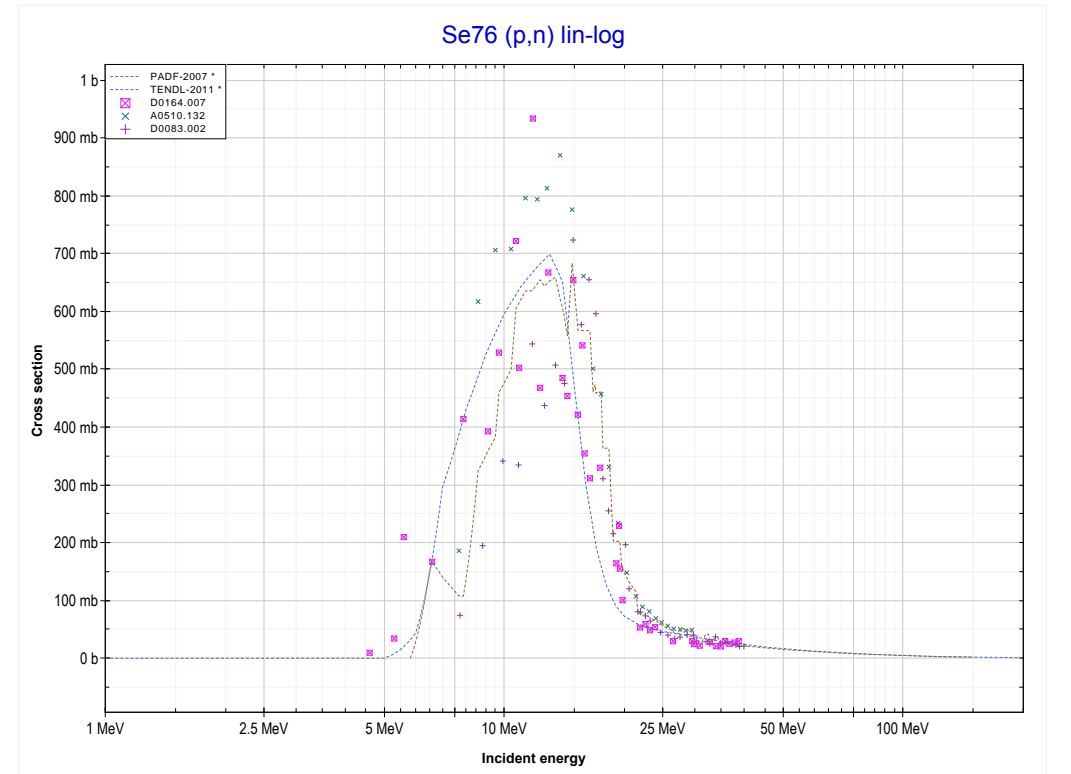
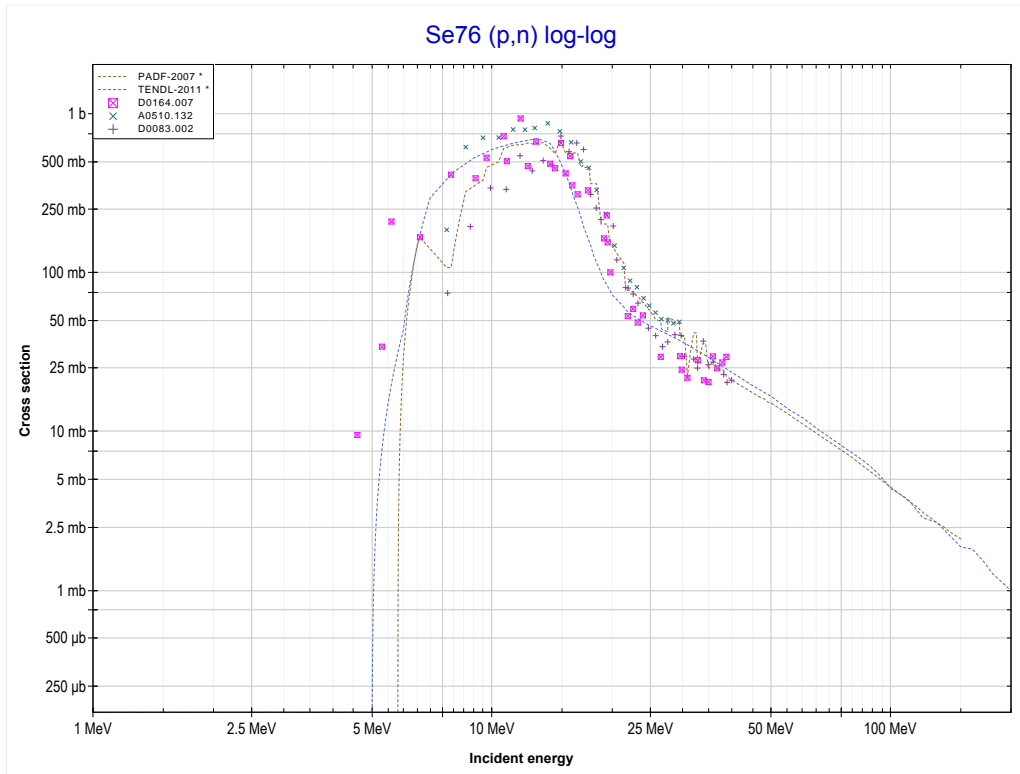


<< 32-Ge-76	<b>34-Se-74</b>	34-Se-76 >>
<< MT102 (p, $\gamma$ )	<b>MT107 (p,<math>\alpha</math>) or MT5 (As71 production)</b>	MT4 (p,n) >>



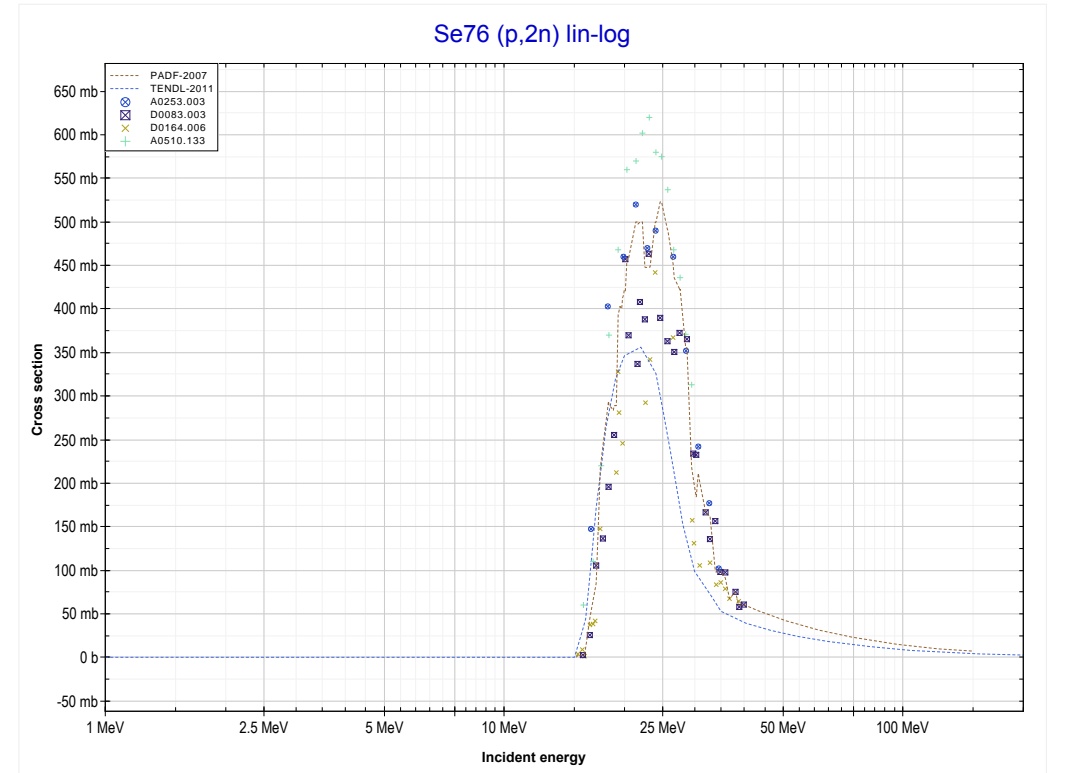
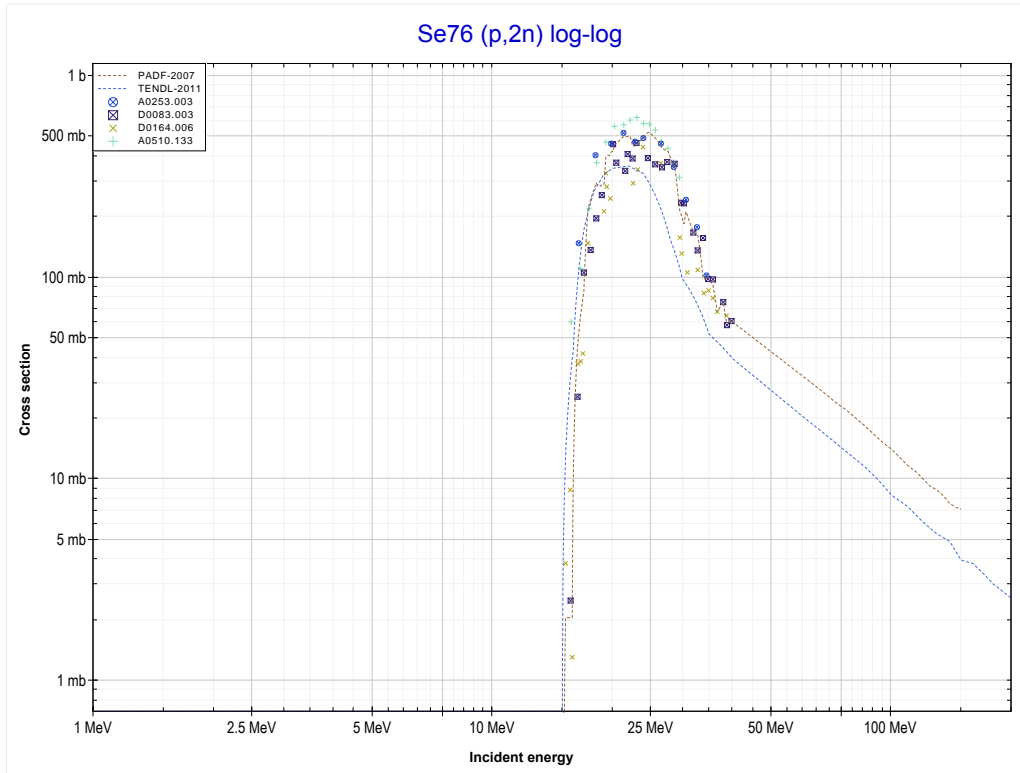
Reaction	Q-Value
Se74(p, $\alpha$ )As71	5345.35 keV
Se74(p,p+t)As71	-19268.51 keV
Se74(p,n+He3)As71	-20032.26 keV
Se74(p,2d)As71	-23301.17 keV
Se74(p,n+p+d)As71	-25525.74 keV
Se74(p,2n+2p)As71	-27750.30 keV

<< 33-As-75	<b>34-Se-76</b>	34-Se-77 >>
<< MT107 (p, $\alpha$ )	<b>MT4 (p,n) or MT5 (Br76 production)</b>	MT16 (p,2n) >>



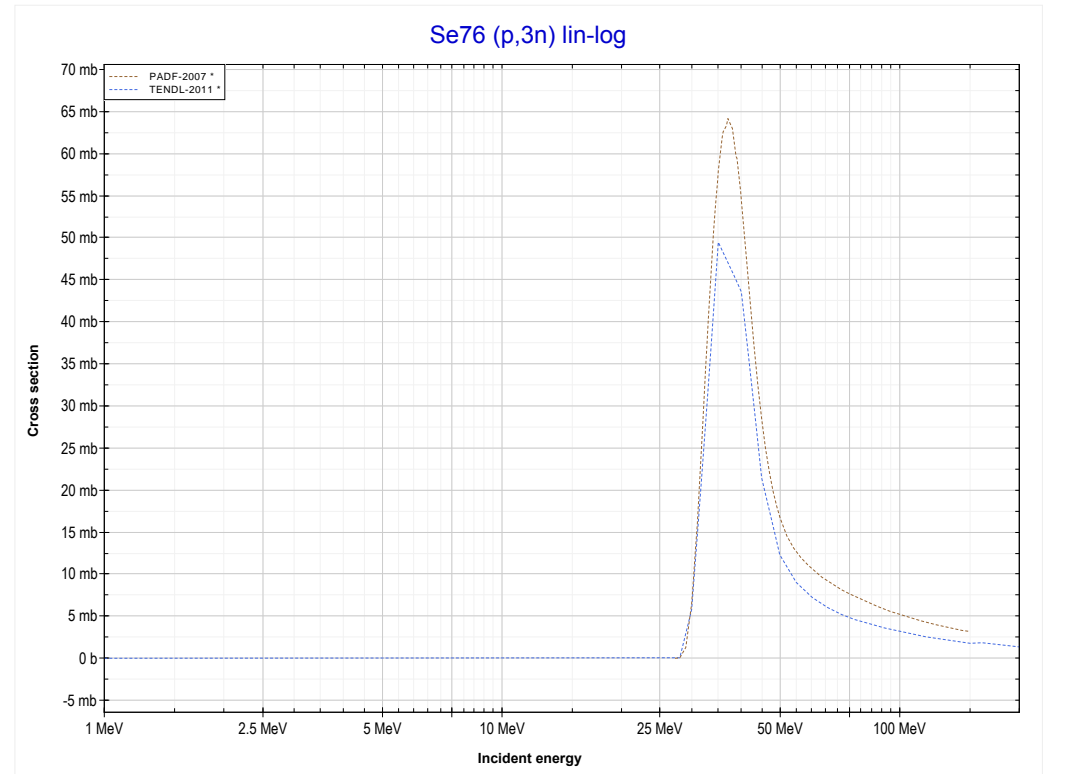
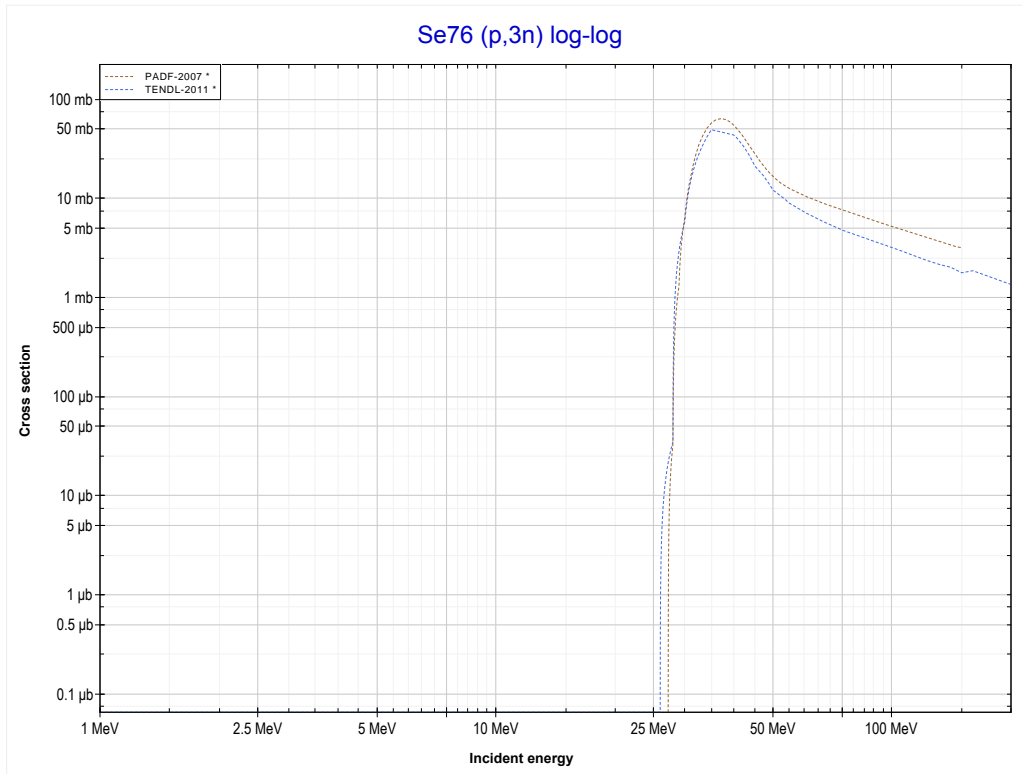
Reaction	Q-Value
Se76(p,n)Br76	-5745.45 keV

<< 32-Ge-76	<b>34-Se-76</b>	34-Se-77 >>
<< MT4 (p,n)	<b>MT16 (p,2n) or MT5 (Br75 production)</b>	MT17 (p,3n) >>



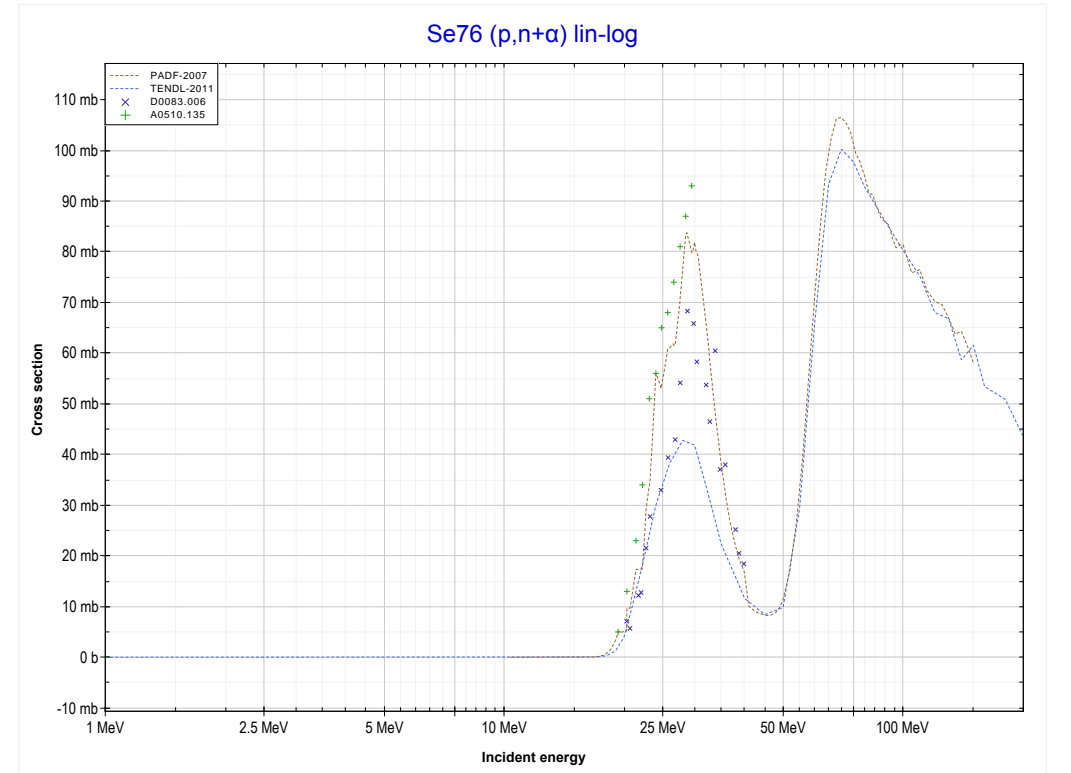
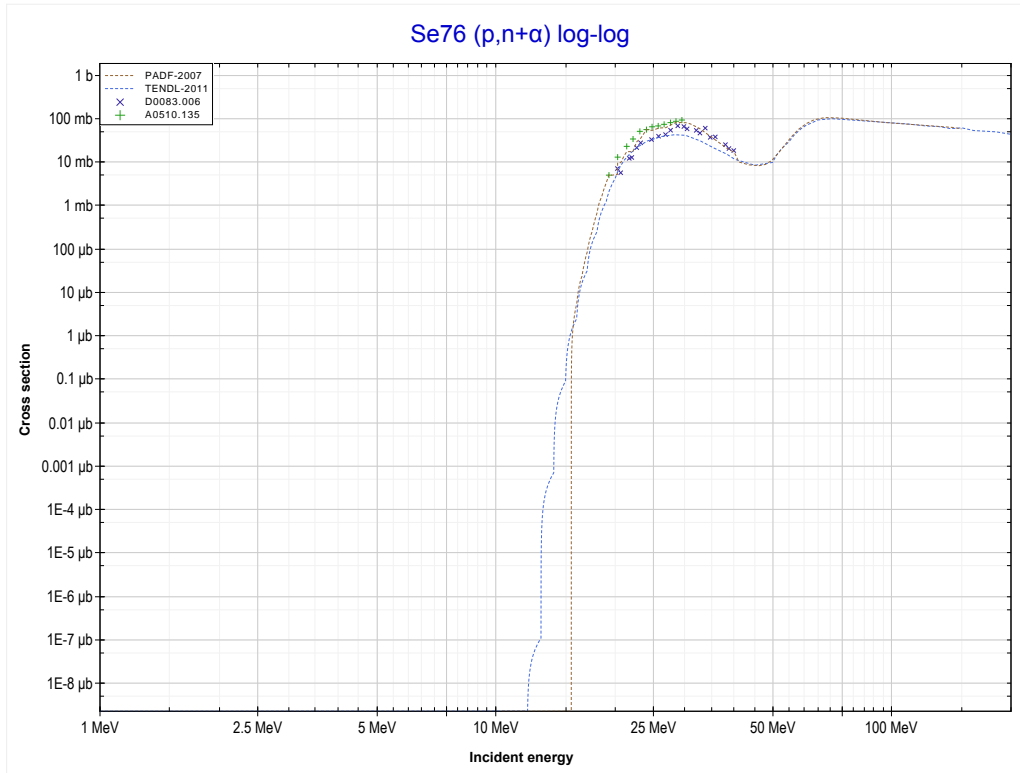
Reaction	Q-Value
Se76(p,2n)Br75	-14966.76 keV

<< 33-As-75	<b>34-Se-76</b>	34-Se-77 >>
<< MT16 (p,2n)	<b>MT17 (p,3n) or MT5 (Br74 production)</b>	MT22 (p,n+α) >>



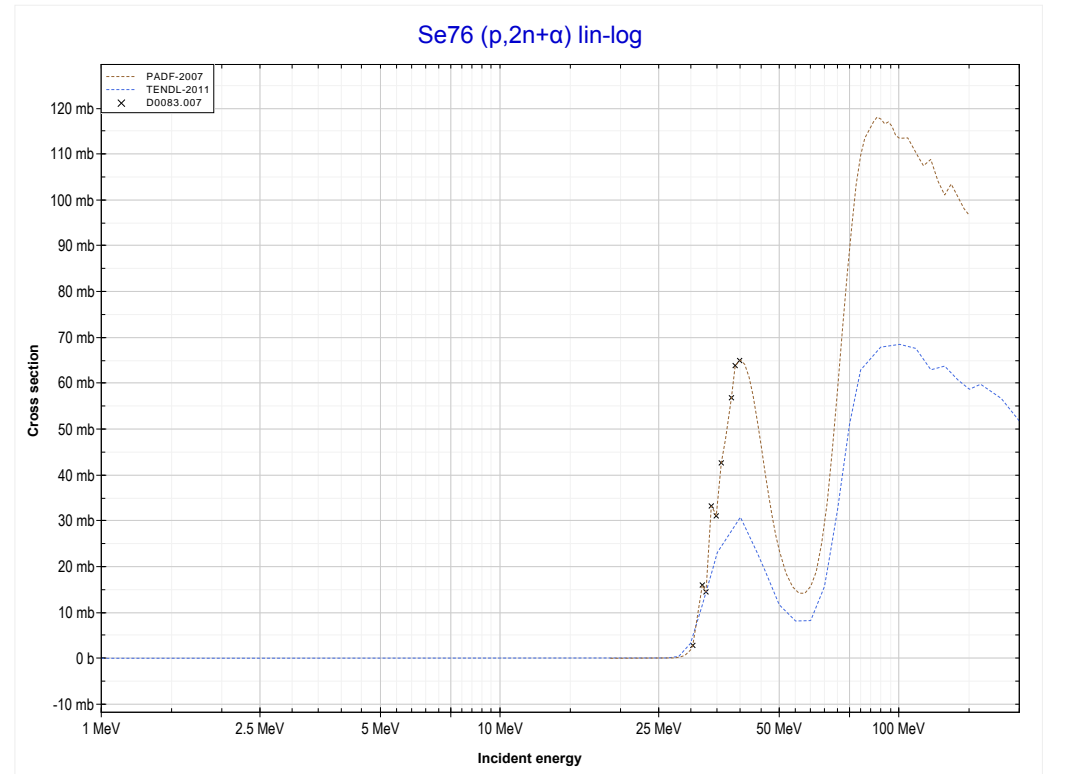
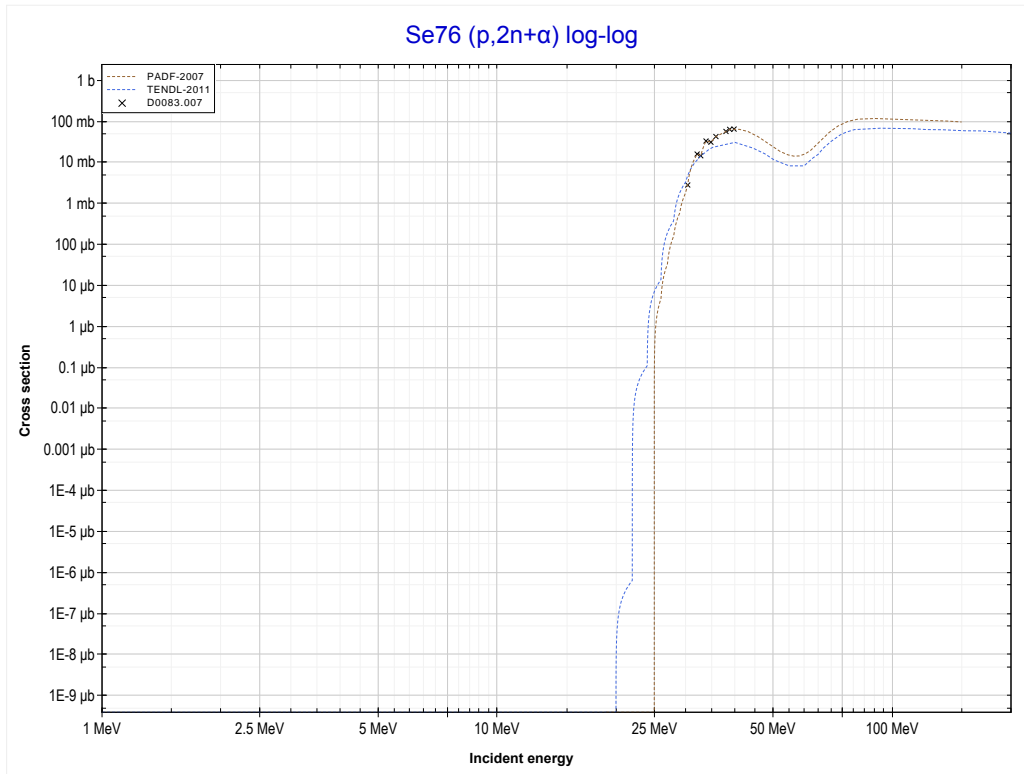
Reaction	Q-Value
Se76(p,3n)Br74	-26871.08 keV

<< 34-Se-74	<b>34-Se-76</b>	34-Se-78 >>
<< MT17 (p,3n)	<b>MT22 (p,n+α) or MT5 (As72 production)</b>	MT24 (p,2n+α) >>



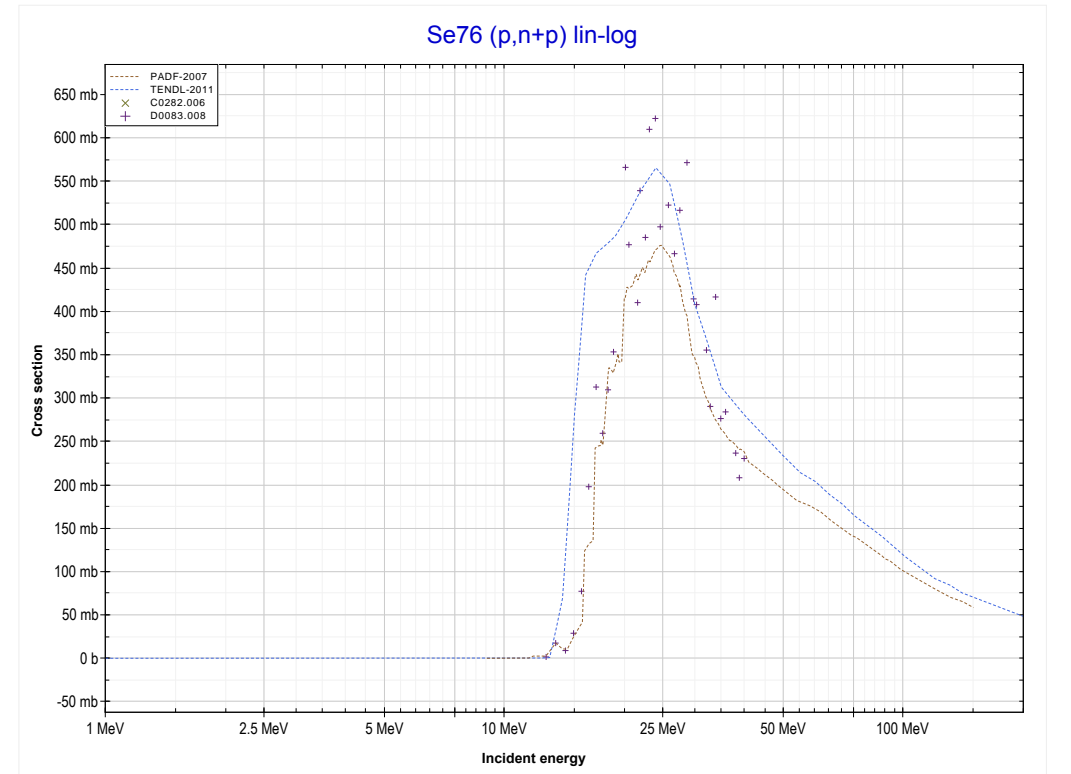
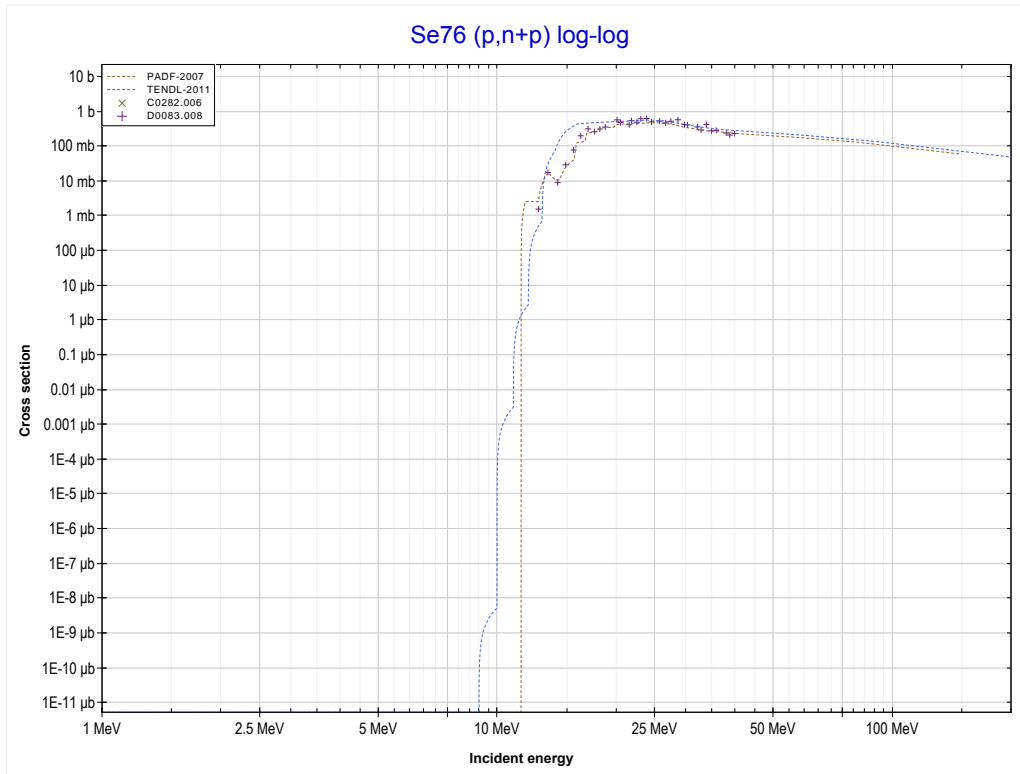
Reaction	Q-Value
Se76(p,n+α)As72	-10229.36 keV
Se76(p,d+t)As72	-27818.66 keV
Se76(p,n+p+t)As72	-30043.22 keV
Se76(p,2n+He3)As72	-30806.98 keV
Se76(p,n+2d)As72	-34075.89 keV
Se76(p,2n+p+d)As72	-36300.46 keV
Se76(p,3n+2p)As72	-38525.02 keV

<< 28-Ni-62	<b>34-Se-76</b>	42-Mo-97 >>
<< MT22 (p,n+α)	<b>MT24 (p,2n+α) or MT5 (As71 production)</b>	MT28 (p,n+p) >>



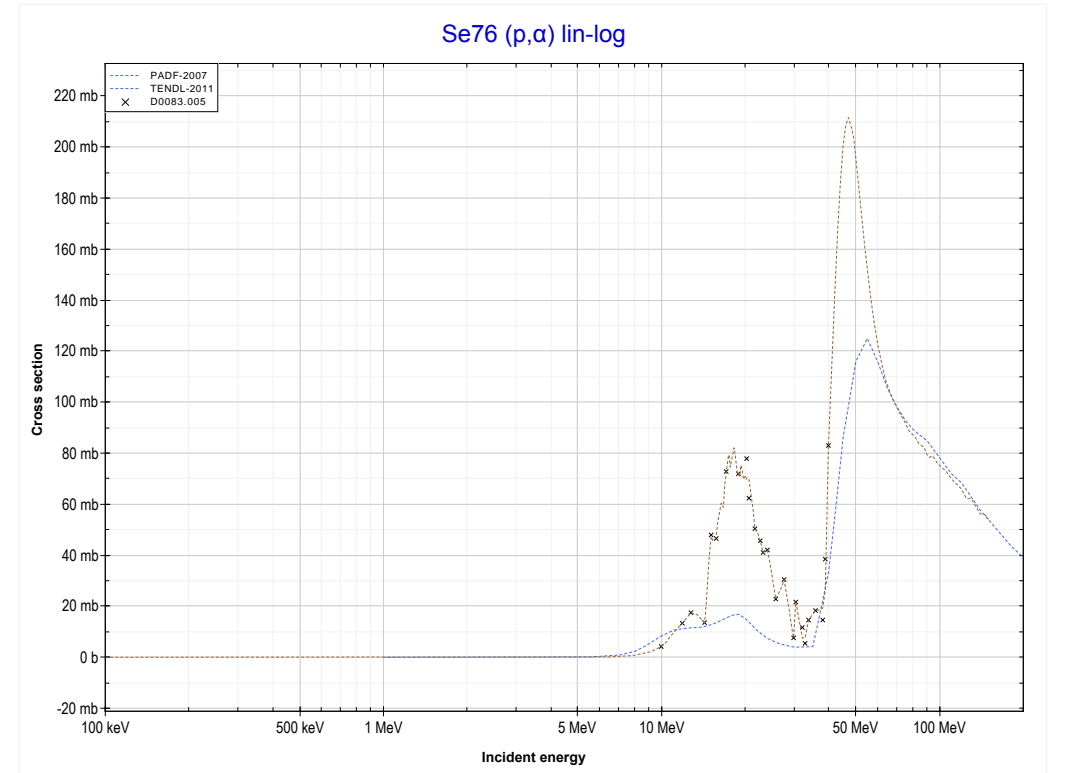
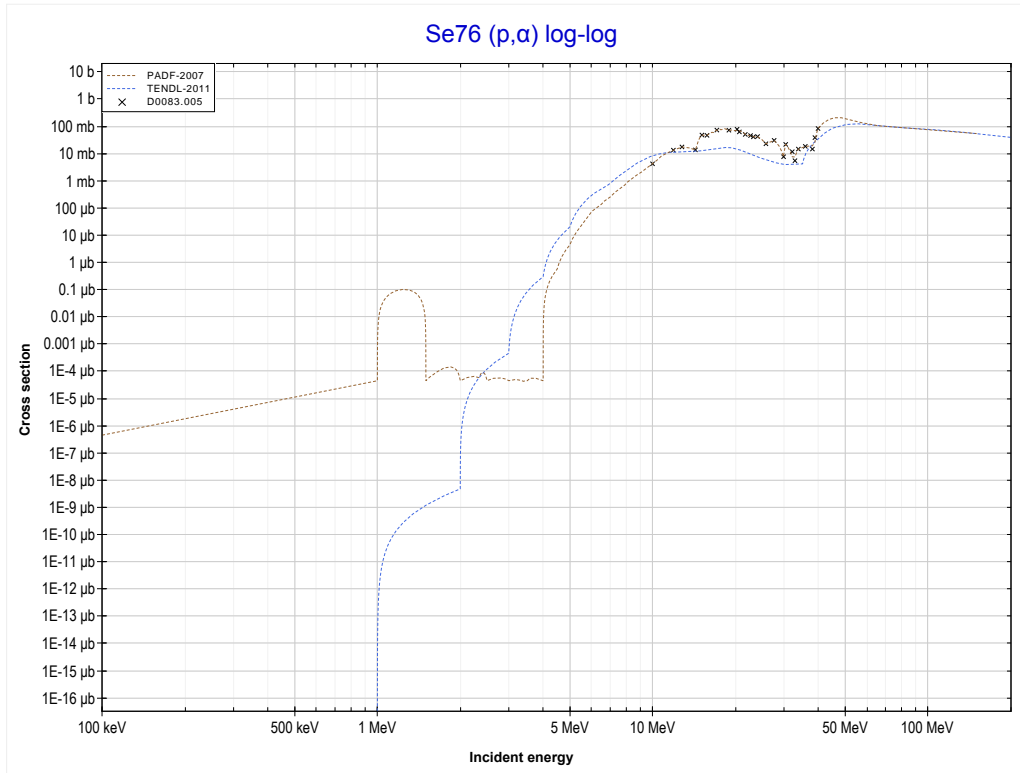
Reaction	Q-Value
Se76(p,2n+α)As71	-18636.68 keV
Se76(p,2t)As71	-29968.74 keV
Se76(p,n+d+t)As71	-36225.97 keV
Se76(p,2n+p+t)As71	-38450.54 keV
Se76(p,3n+He3)As71	-39214.30 keV
Se76(p,2n+2d)As71	-42483.21 keV
Se76(p,3n+p+d)As71	-44707.77 keV
Se76(p,4n+2p)As71	-46932.34 keV

<< 34-Se-74	<b>34-Se-76</b>	34-Se-82 >>
<< MT24 (p,2n+α)	<b>MT28 (p,n+p) or MT5 (Se75 production)</b>	MT107 (p,α) >>



Reaction	Q-Value
Se76(p,d)Se75	-8929.85 keV
Se76(p,n+p)Se75	-11154.42 keV

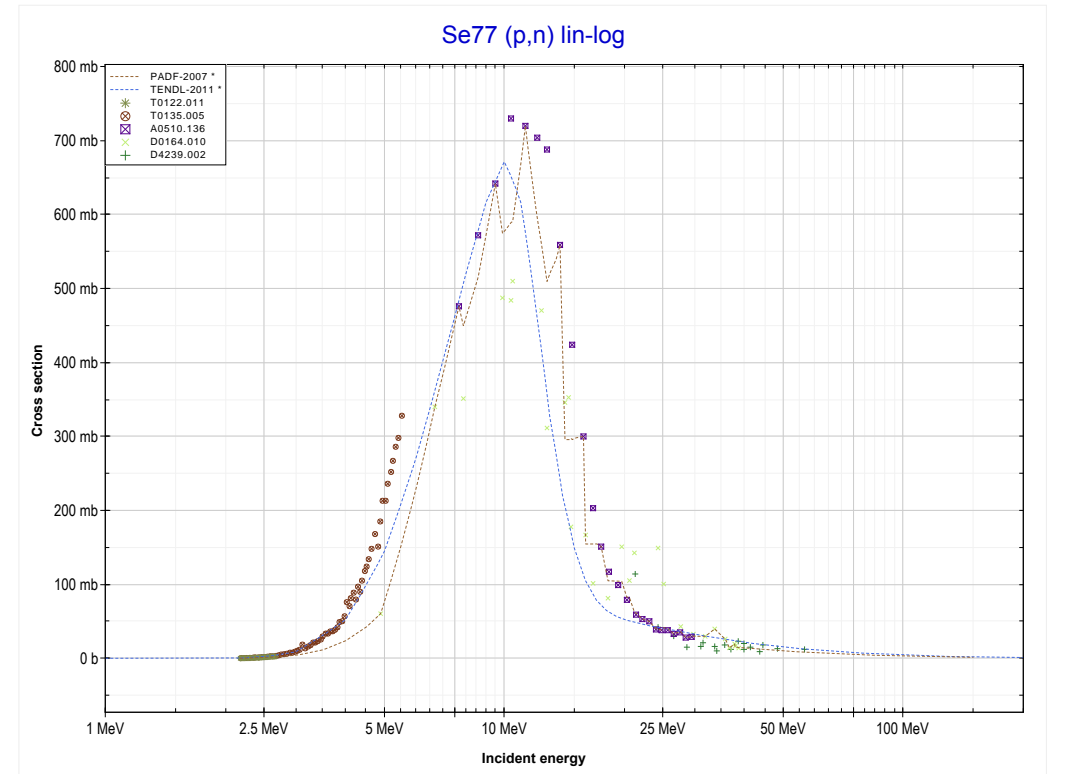
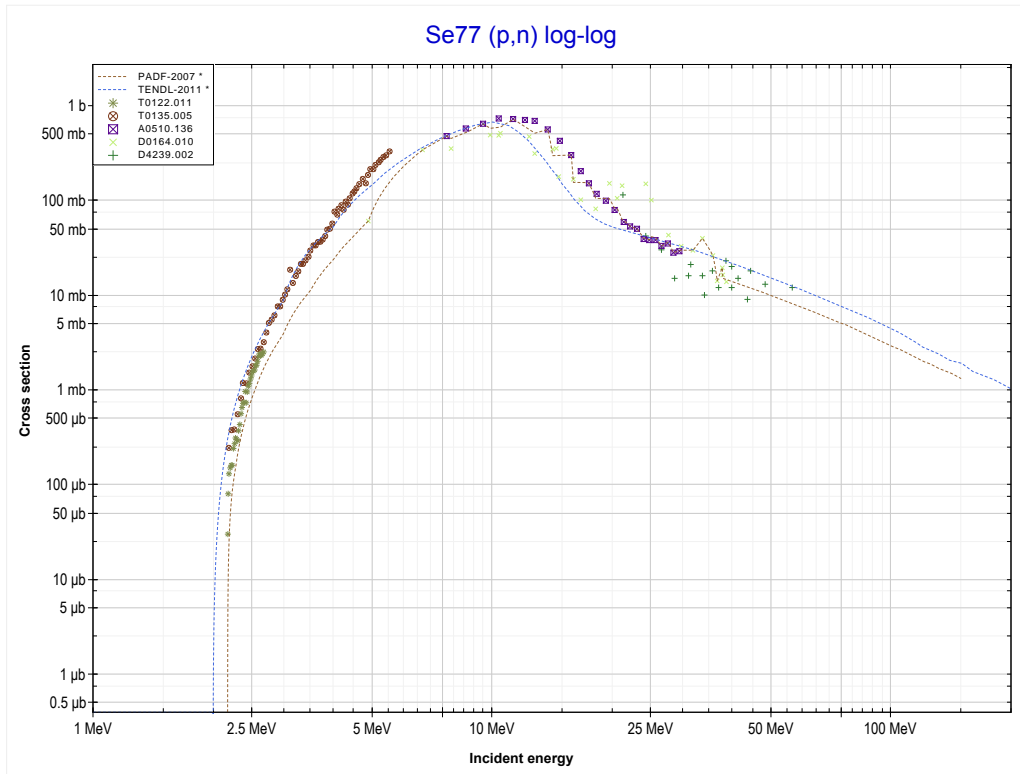
<< 34-Se-74	<b>34-Se-76</b>	34-Se-77 >>
<< MT28 (p,n+p)	<b>MT107 (p,<math>\alpha</math>) or MT5 (As73 production)</b>	MT4 (p,n) >>



Reaction	Q-Value
Se76(p, $\alpha$ )As73	568.95 keV
Se76(p,p+t)As73	-19244.91 keV
Se76(p,n+He3)As73	-20008.66 keV
Se76(p,2d)As73	-23277.57 keV
Se76(p,n+p+d)As73	-25502.14 keV
Se76(p,2n+2p)As73	-27726.70 keV

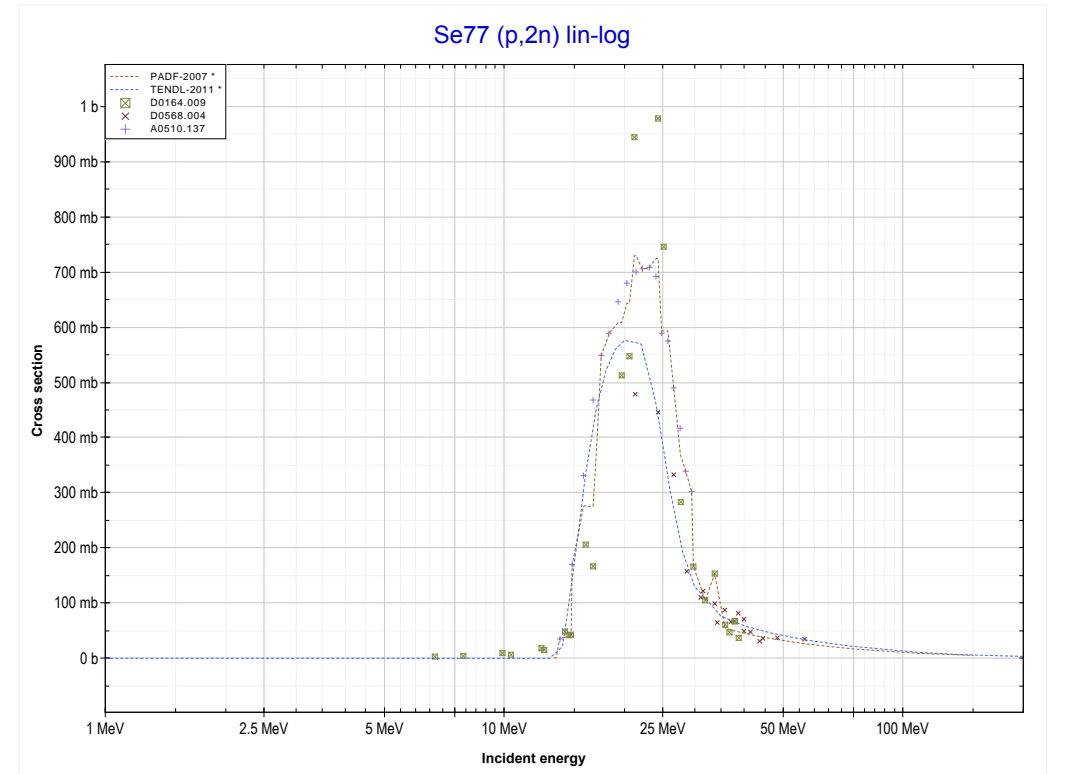
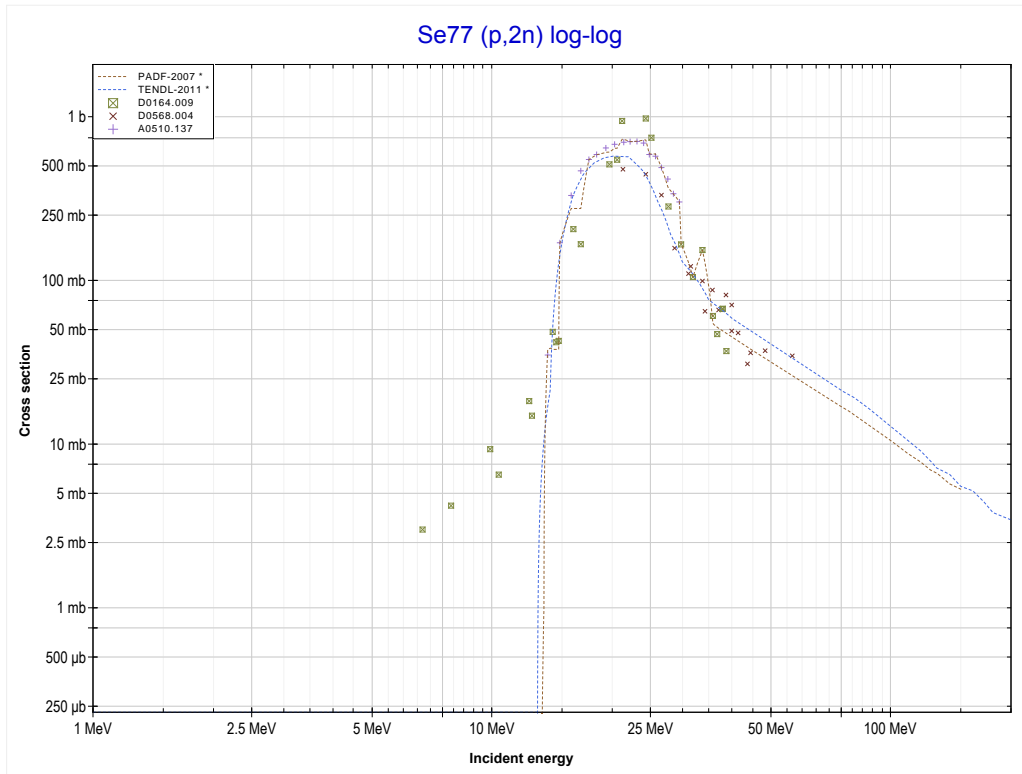


<< 34-Se-76	<b>34-Se-77</b>	34-Se-78 >>
<< MT107 (p, $\alpha$ )	<b>MT4 (p,n) or MT5 (Br77 production)</b>	MT16 (p,2n) >>



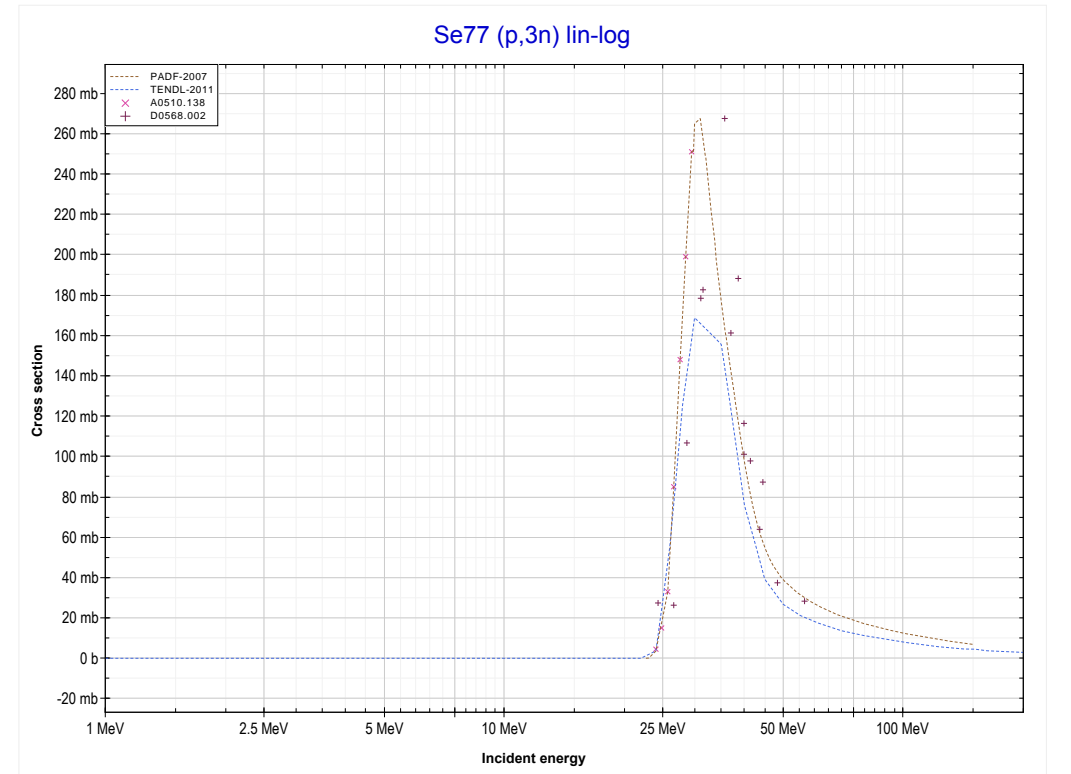
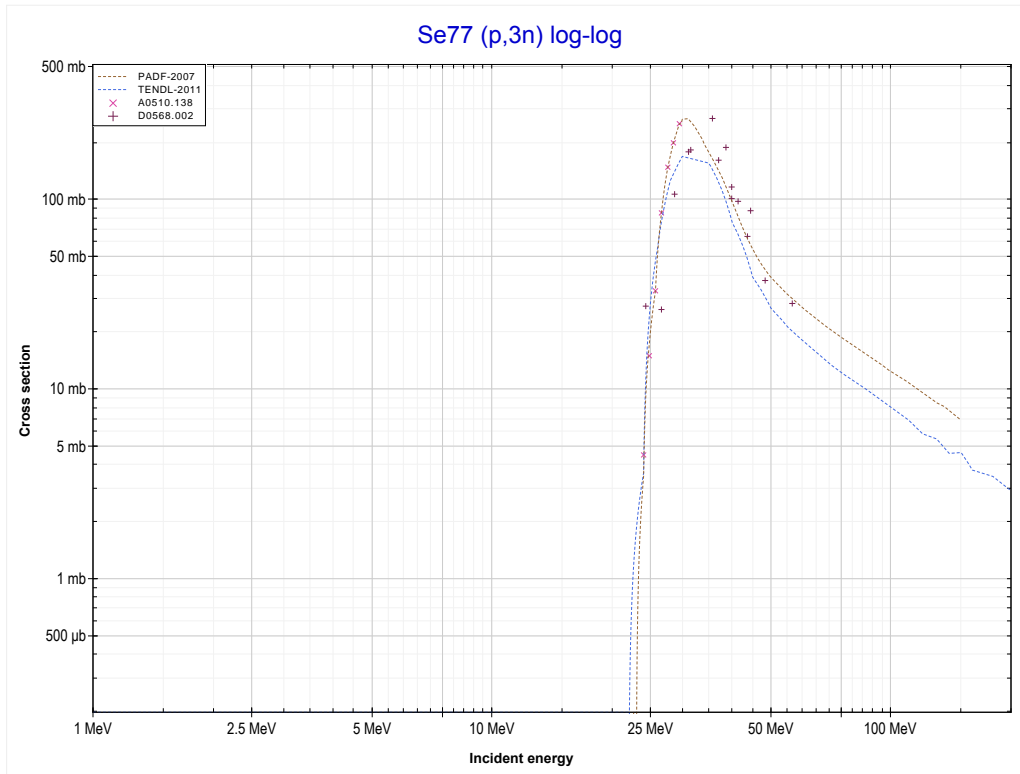
Reaction	Q-Value
Se77(p,n)Br77	-2146.95 keV

<< 34-Se-76	<b>34-Se-77</b>	34-Se-78 >>
<< MT4 (p,n)	<b>MT16 (p,2n) or MT5 (Br76 production)</b>	MT17 (p,3n) >>



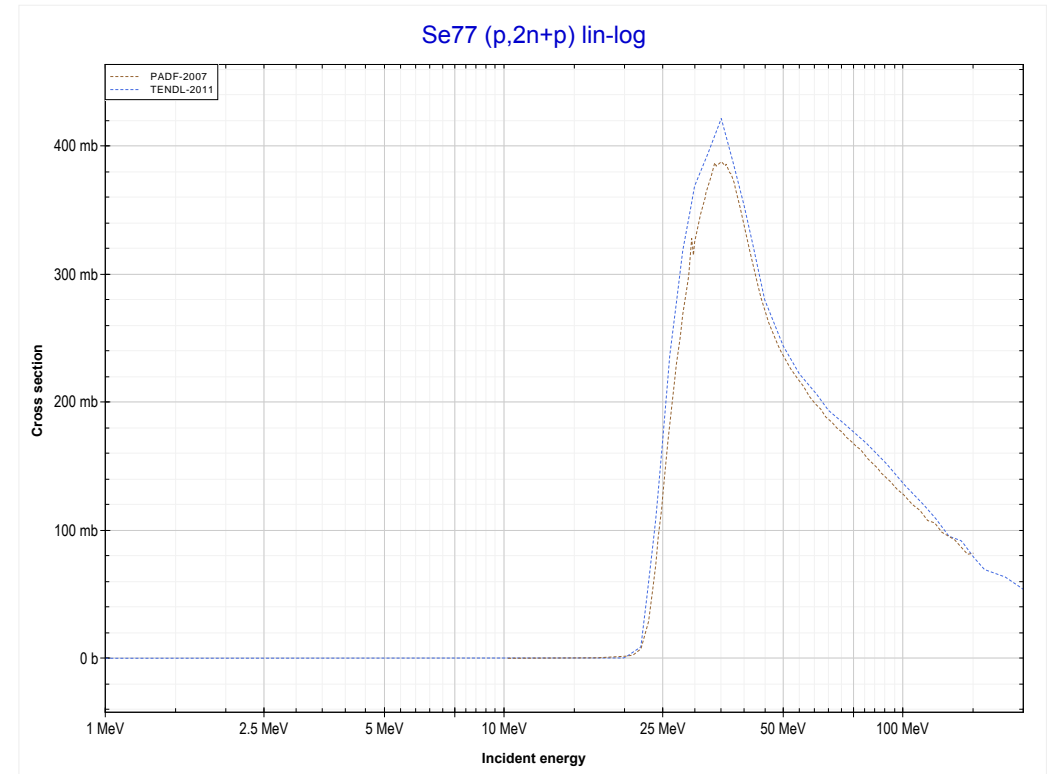
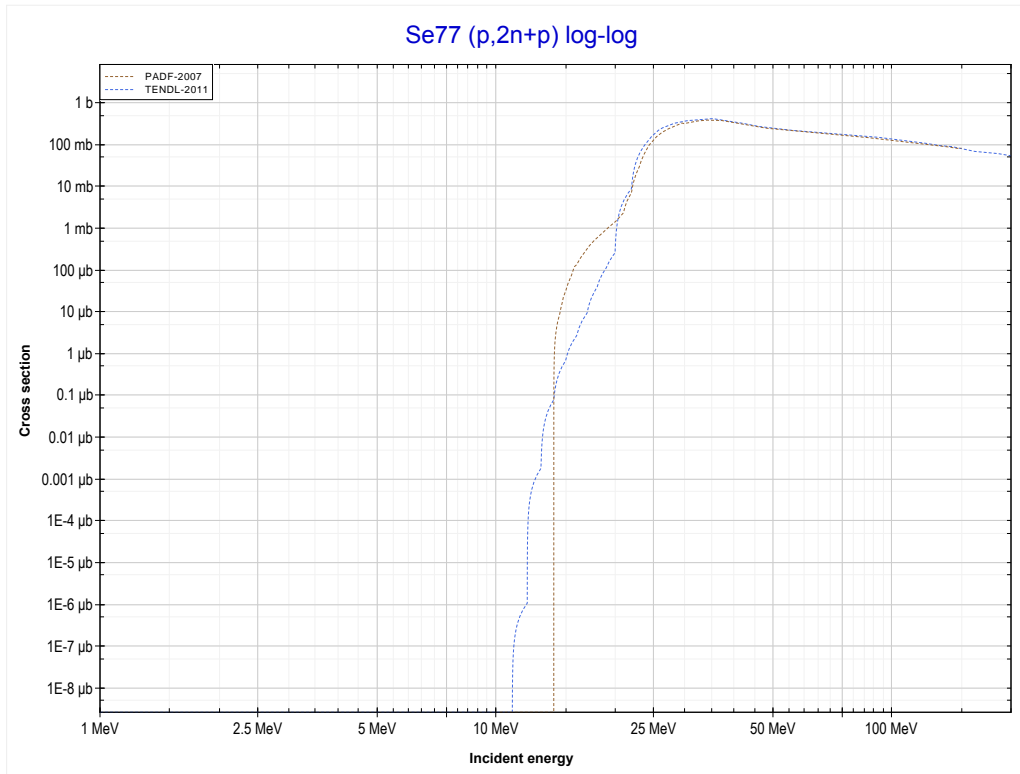
Reaction	Q-Value
Se77(p,2n)Br76	-13164.26 keV

<< 34-Se-76	<b>34-Se-77</b>	34-Se-78 >>
<< MT16 (p,2n)	<b>MT17 (p,3n) or MT5 (Br75 production)</b>	MT41 (p,2n+p) >>



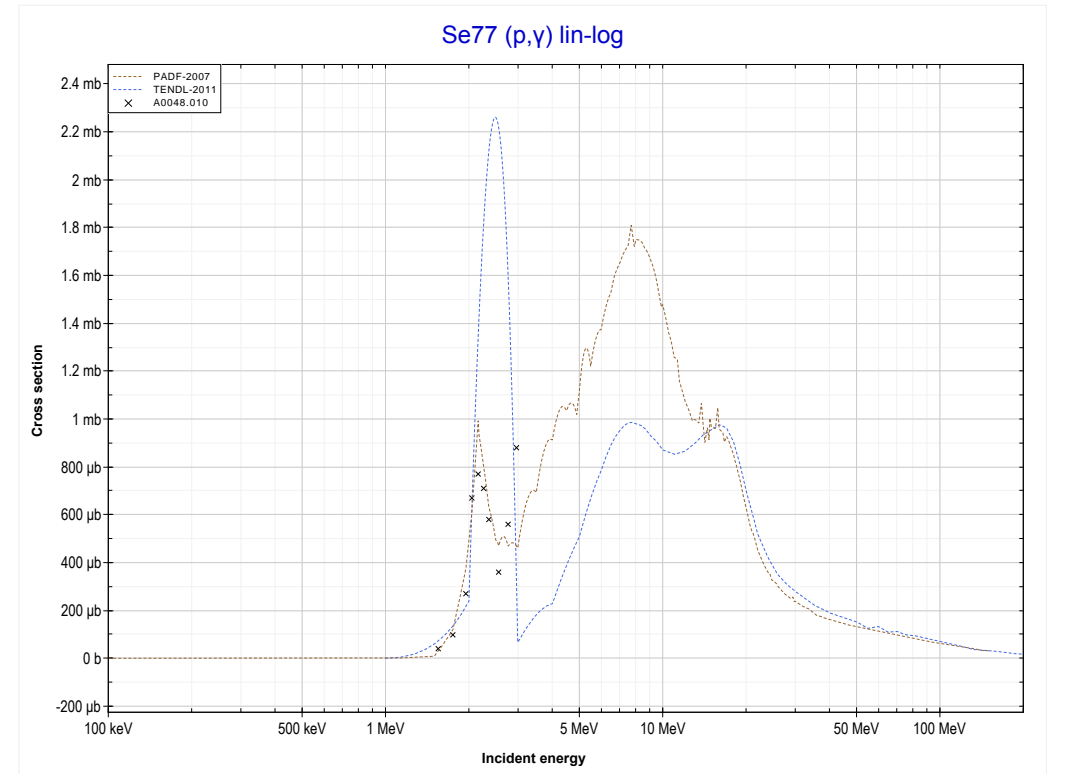
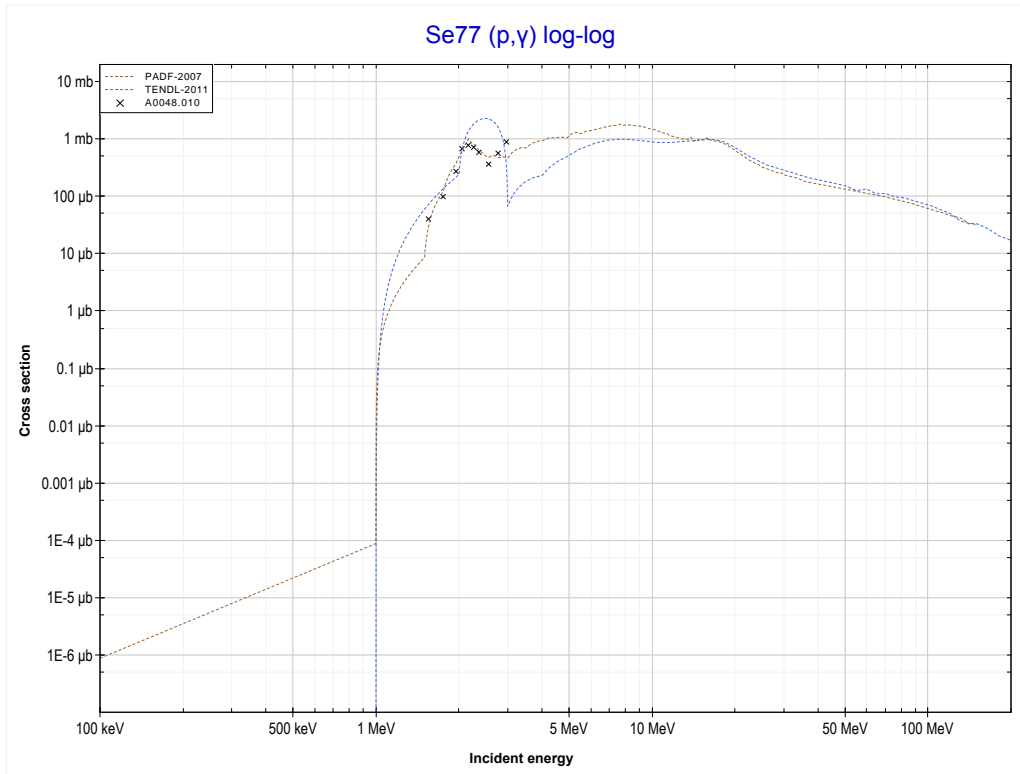
Reaction	Q-Value
Se77(p,3n)Br75	-22385.58 keV

<< 34-Se-74	<b>34-Se-77</b>	35-Br-79 >>
<< MT17 (p,3n)	<b>MT41 (p,2n+p) or MT5 (Se75 production)</b>	MT102 (p, $\gamma$ ) >>



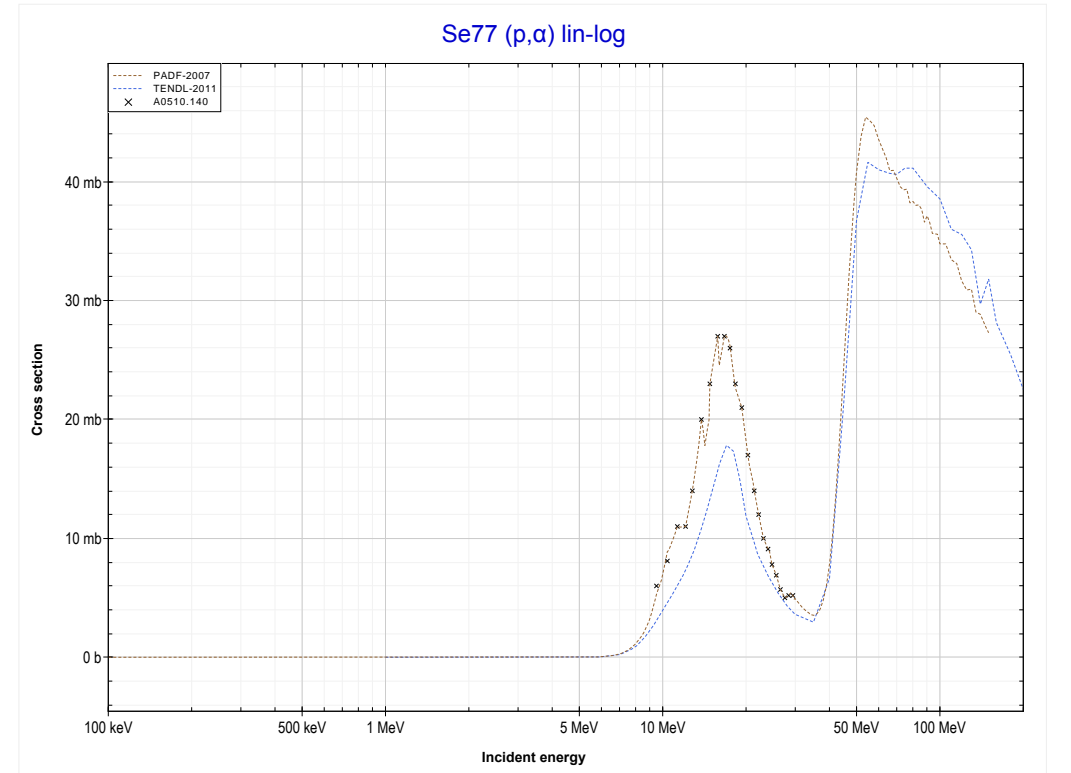
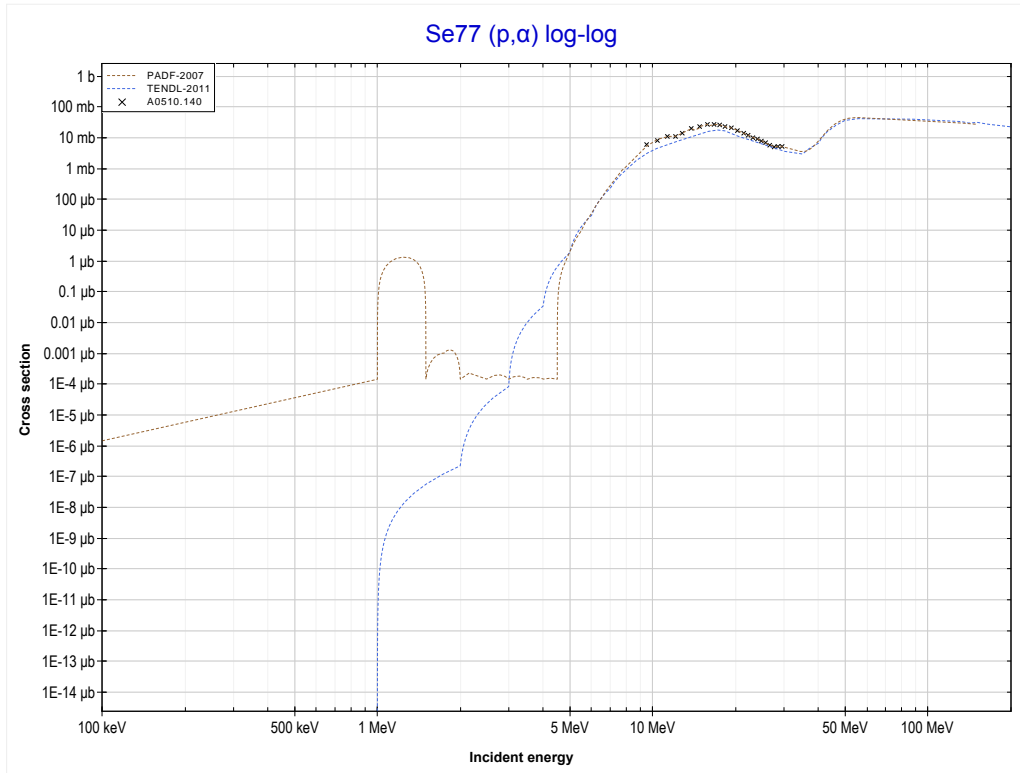
Reaction	Q-Value
Se77(p,t)Se75	-10091.44 keV
Se77(p,n+d)Se75	-16348.67 keV
Se77(p,2n+p)Se75	-18573.23 keV

<< 34-Se-74	<b>34-Se-77</b>	34-Se-82 >>
<< MT41 (p,2n+p)	<b>MT102 (p,<math>\gamma</math>) or MT5 (Br78 production)</b>	MT107 (p, $\alpha$ ) >>



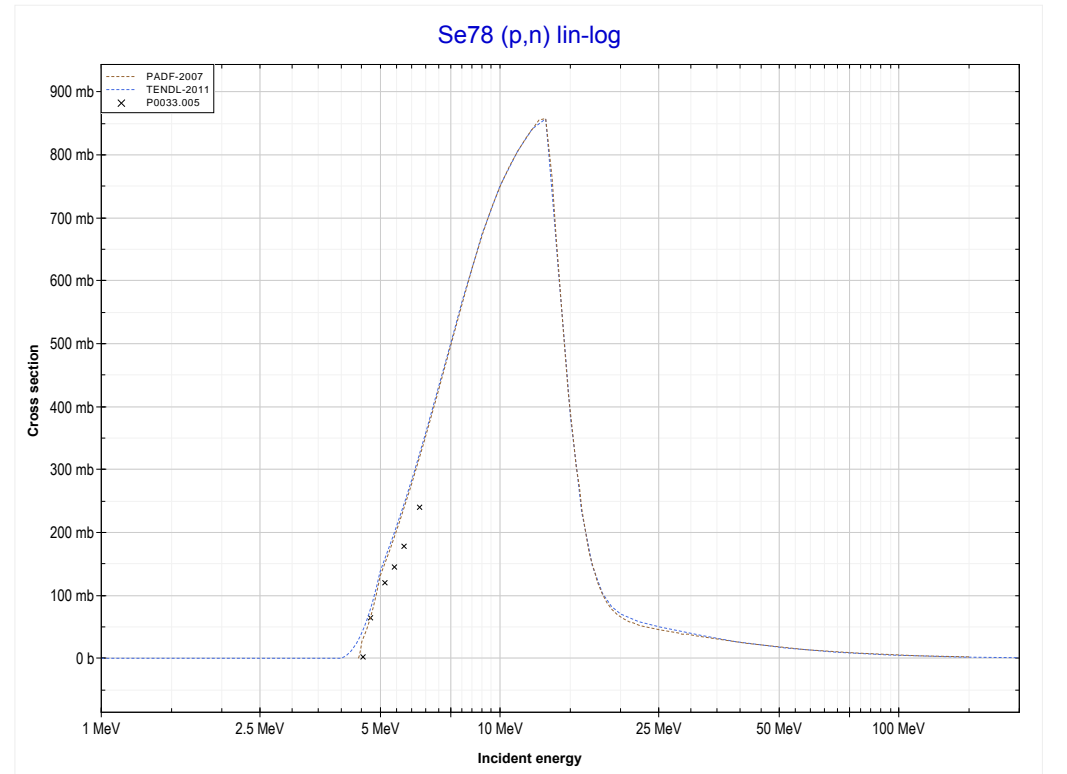
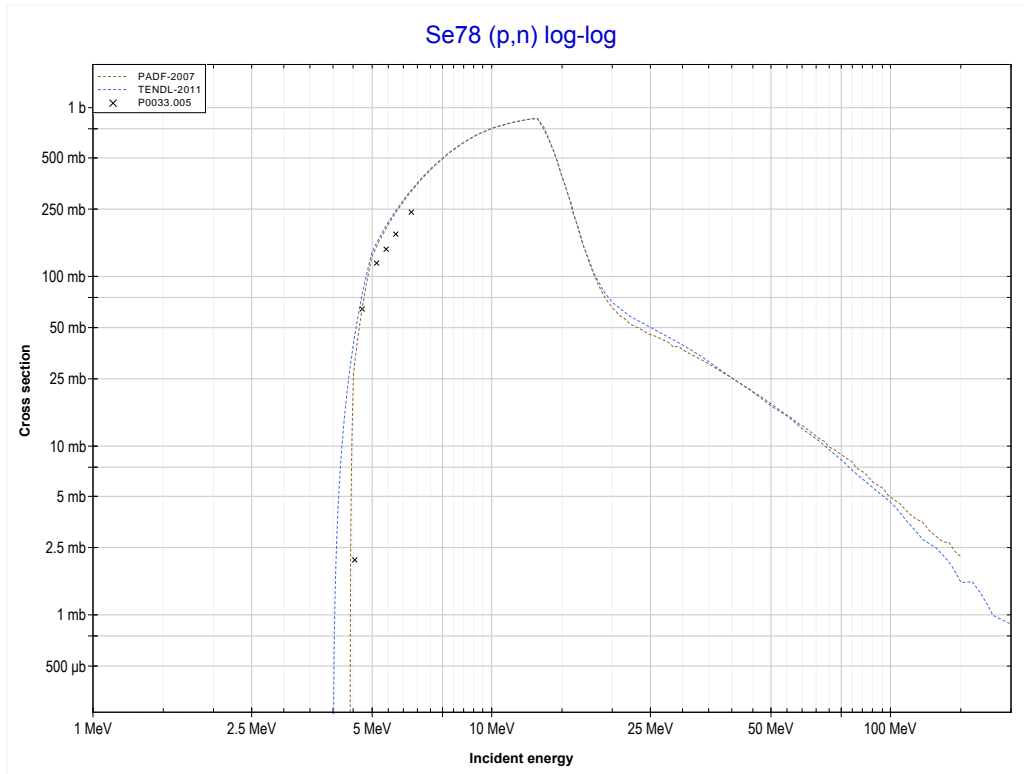
Reaction	Q-Value
Se77(p, $\gamma$ )Br78	6141.37 keV

<< 34-Se-76	<b>34-Se-77</b>	36-Kr-78 >>
<< MT102 (p, $\gamma$ )	<b>MT107 (p,<math>\alpha</math>) or MT5 (As74 production)</b>	MT4 (p,n) >>



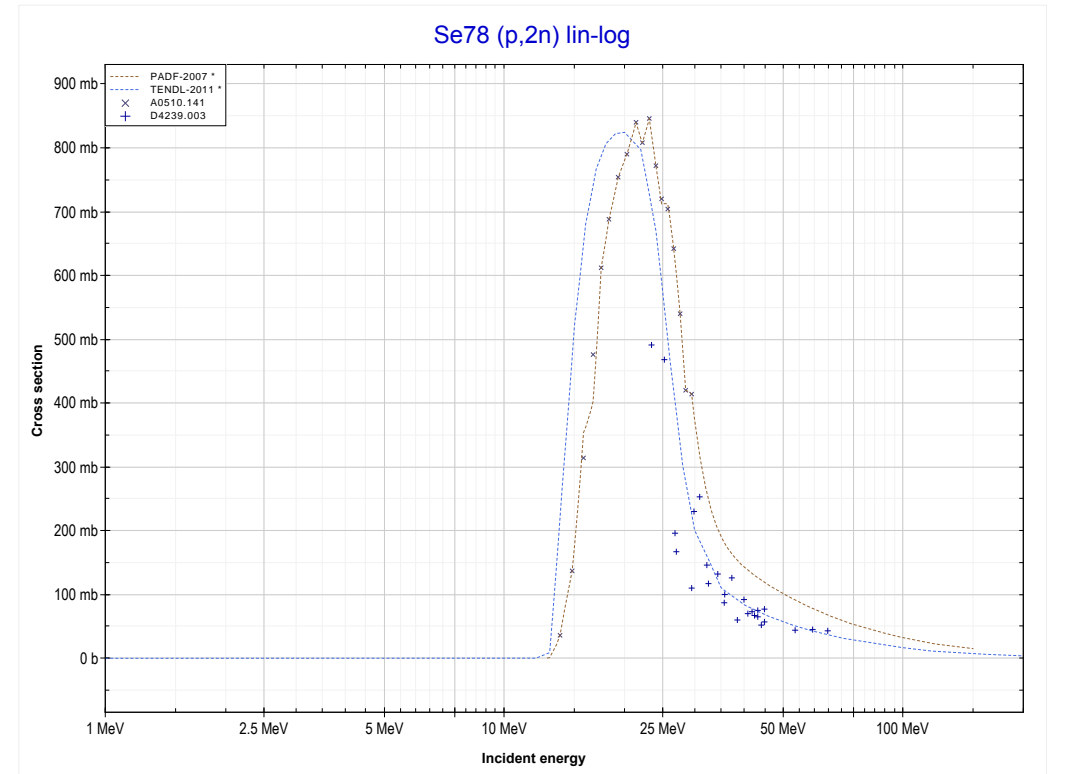
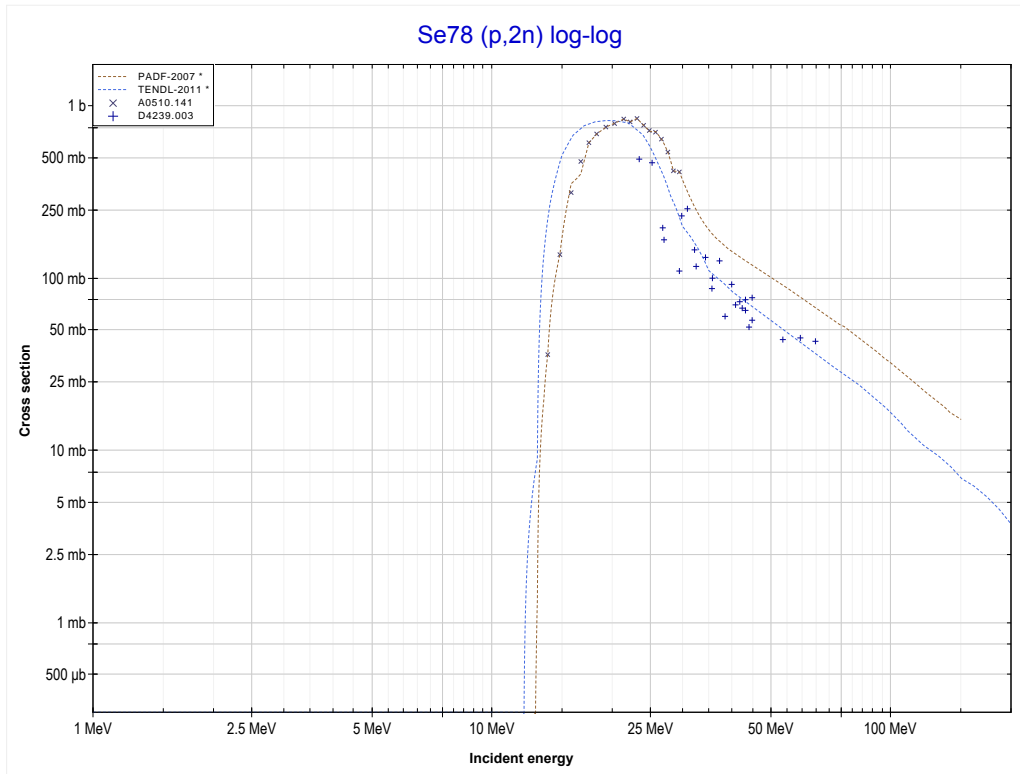
Reaction	Q-Value
Se77(p, $\alpha$ )As74	1124.45 keV
Se77(p,p+t)As74	-18689.41 keV
Se77(p,n+He3)As74	-19453.16 keV
Se77(p,2d)As74	-22722.07 keV
Se77(p,n+p+d)As74	-24946.64 keV
Se77(p,2n+2p)As74	-27171.20 keV

<< 34-Se-77	<b>34-Se-78</b>	34-Se-80 >>
<< MT107 (p, $\alpha$ )	<b>MT4 (p,n) or MT5 (Br78 production)</b>	MT16 (p,2n) >>



Reaction	Q-Value
Se78(p,n)Br78	-4356.45 keV

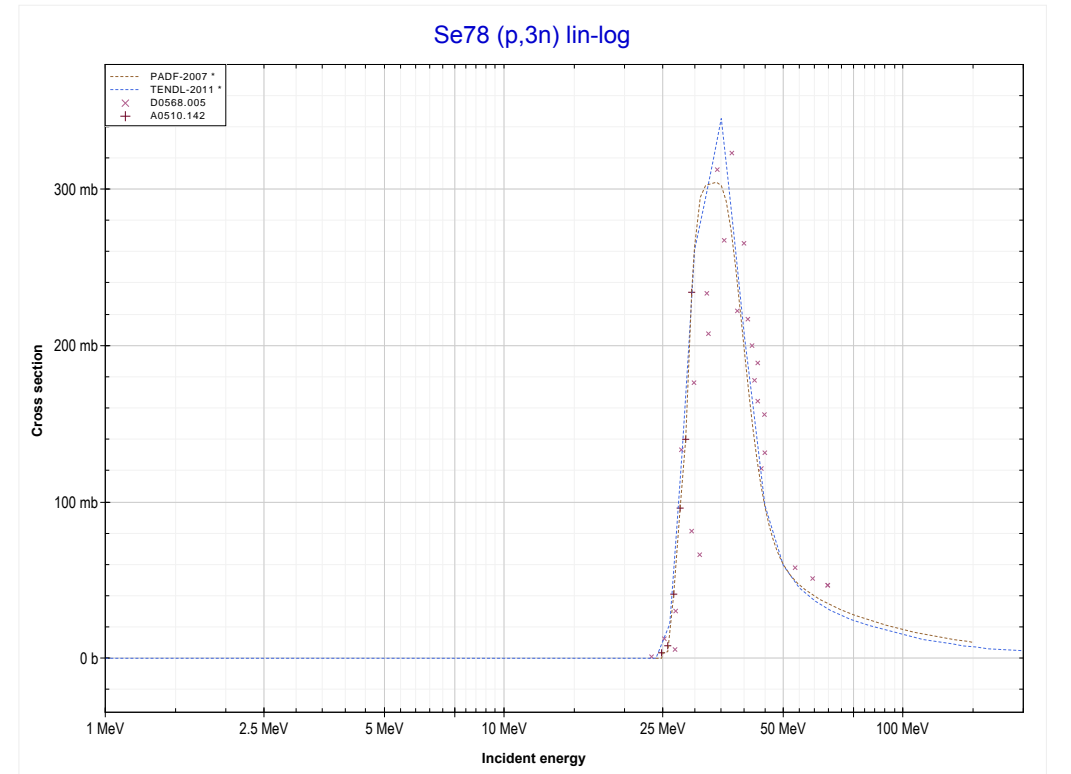
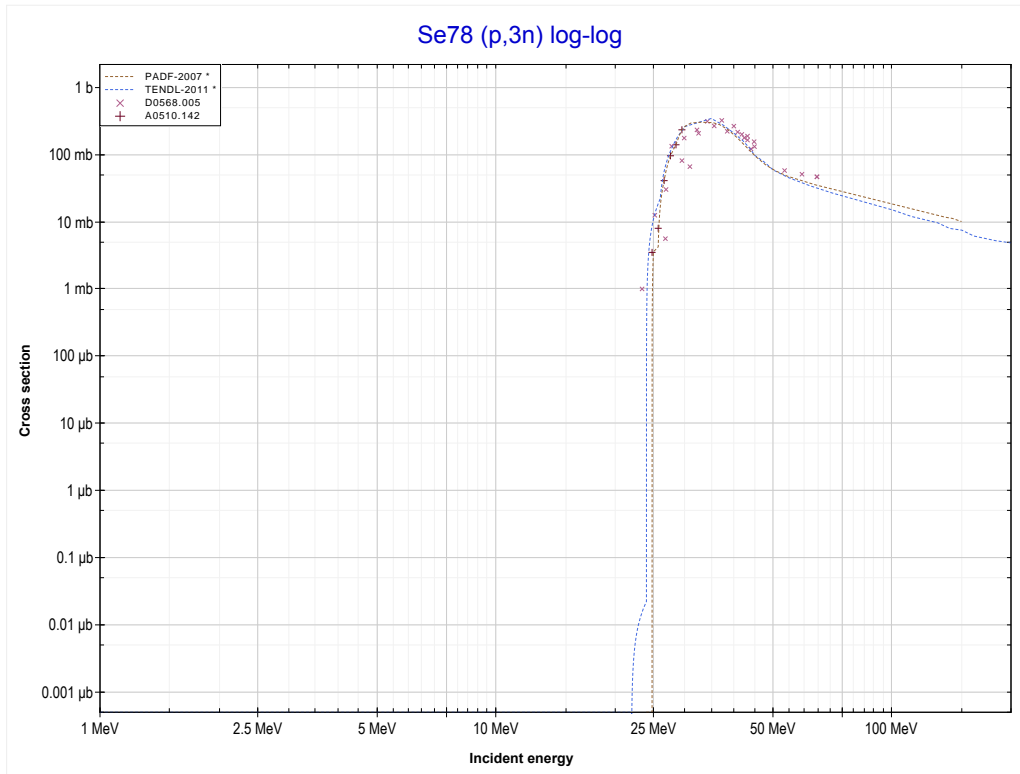
<< 34-Se-77	<b>34-Se-78</b>	36-Kr-78 >>
<< MT4 (p,n)	<b>MT16 (p,2n) or MT5 (Br77 production)</b>	MT17 (p,3n) >>



<b>Reaction</b>	<b>Q-Value</b>
Se78(p,2n)Br77	-12644.76 keV

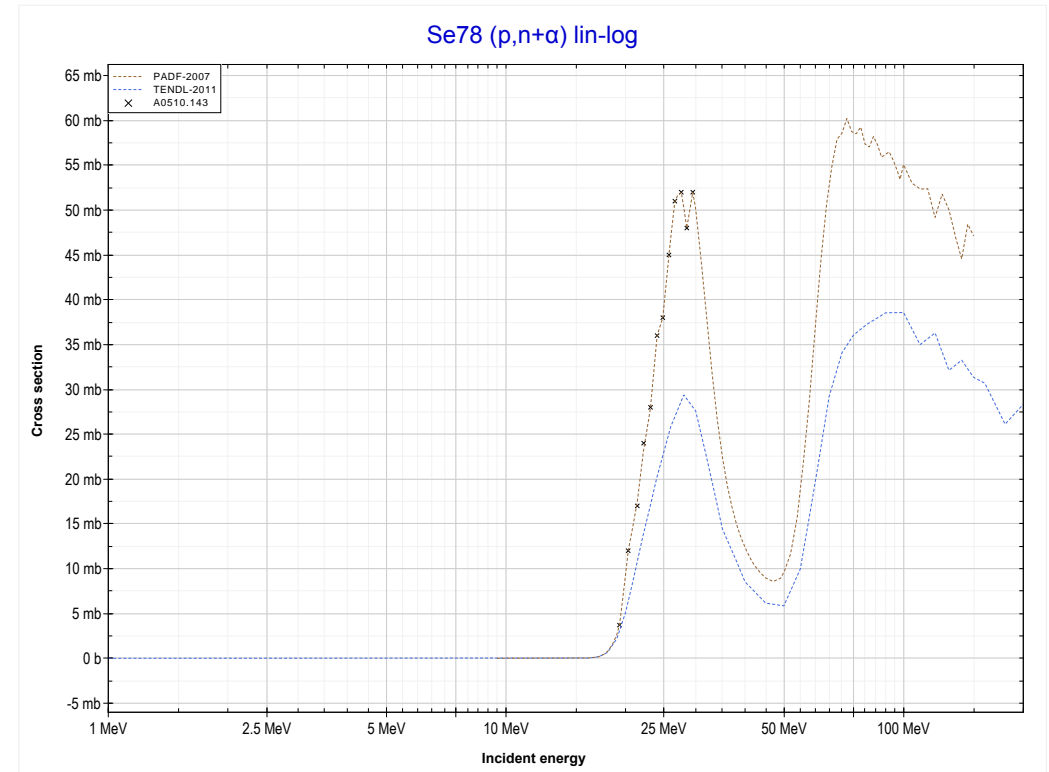
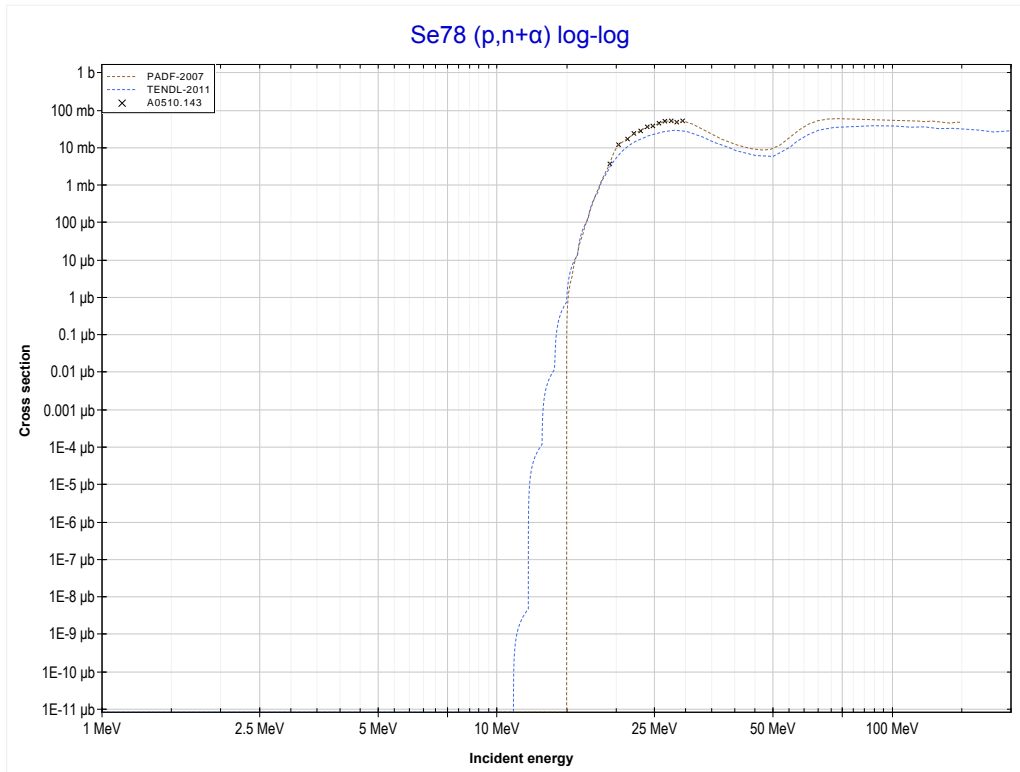


<< 34-Se-77	<b>34-Se-78</b>	35-Br-79 >>
<< MT16 (p,2n)	<b>MT17 (p,3n) or MT5 (Br76 production)</b>	MT22 (p,n+α) >>



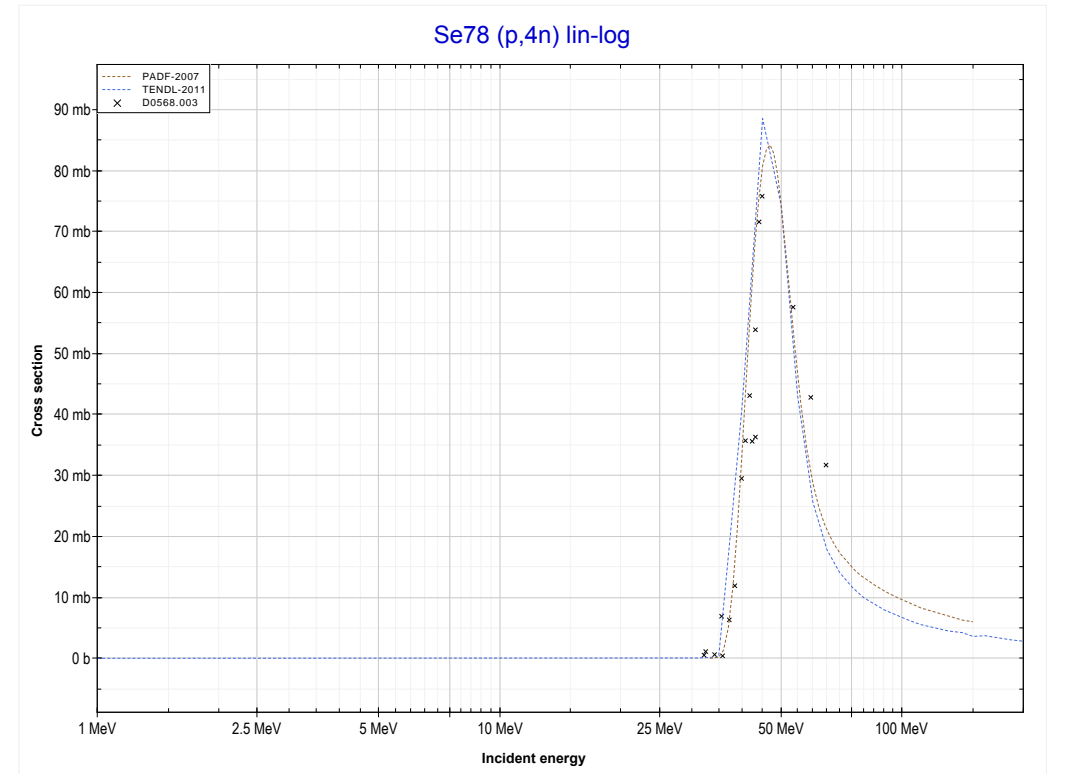
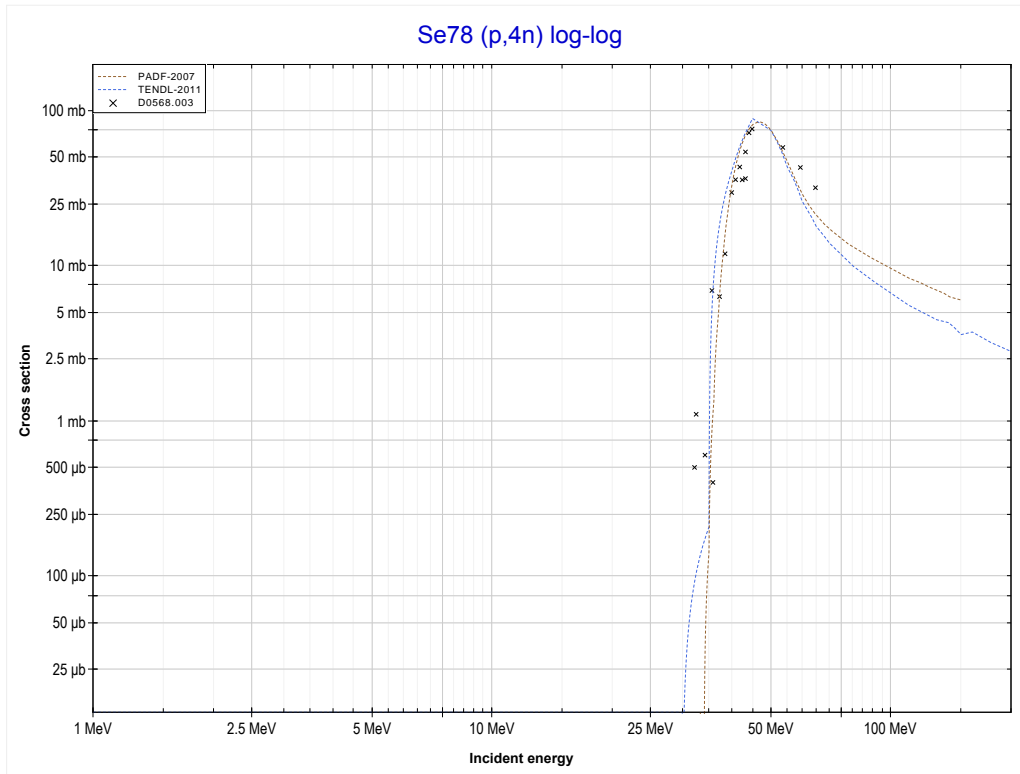
Reaction	Q-Value
Se78(p,3n)Br76	-23662.08 keV

<< 34-Se-76	<b>34-Se-78</b>	34-Se-80 >>
<< MT17 (p,3n)	<b>MT22 (p,n+α) or MT5 (As74 production)</b>	MT37 (p,4n) >>



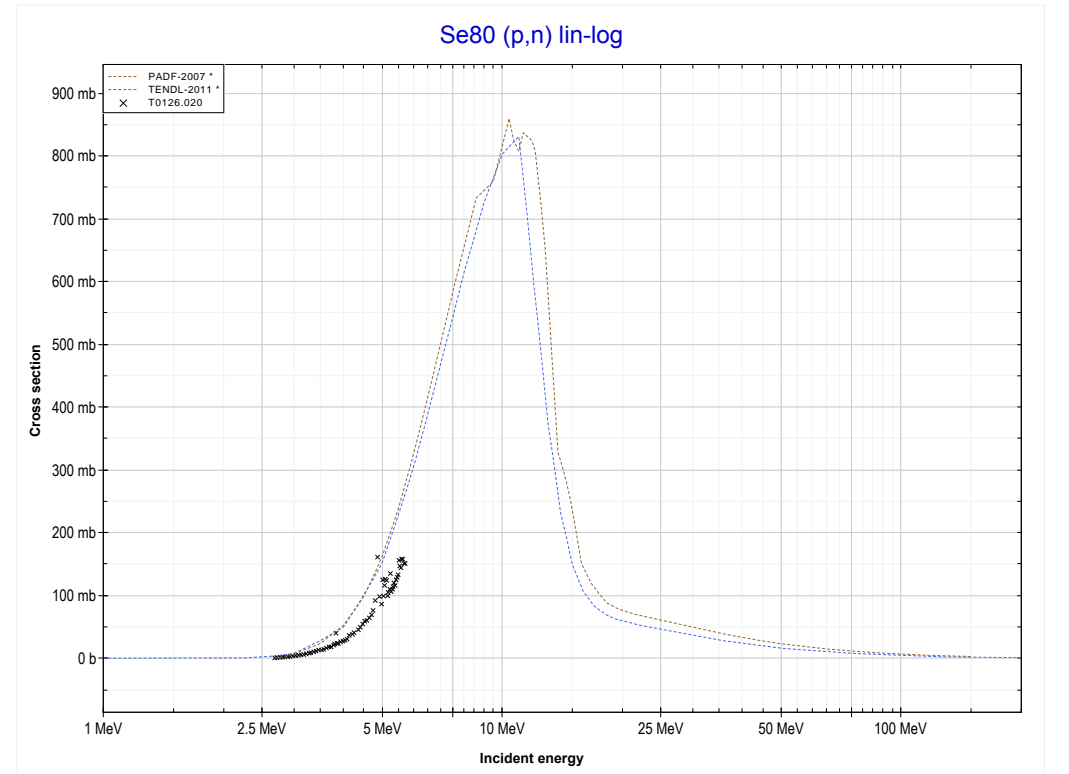
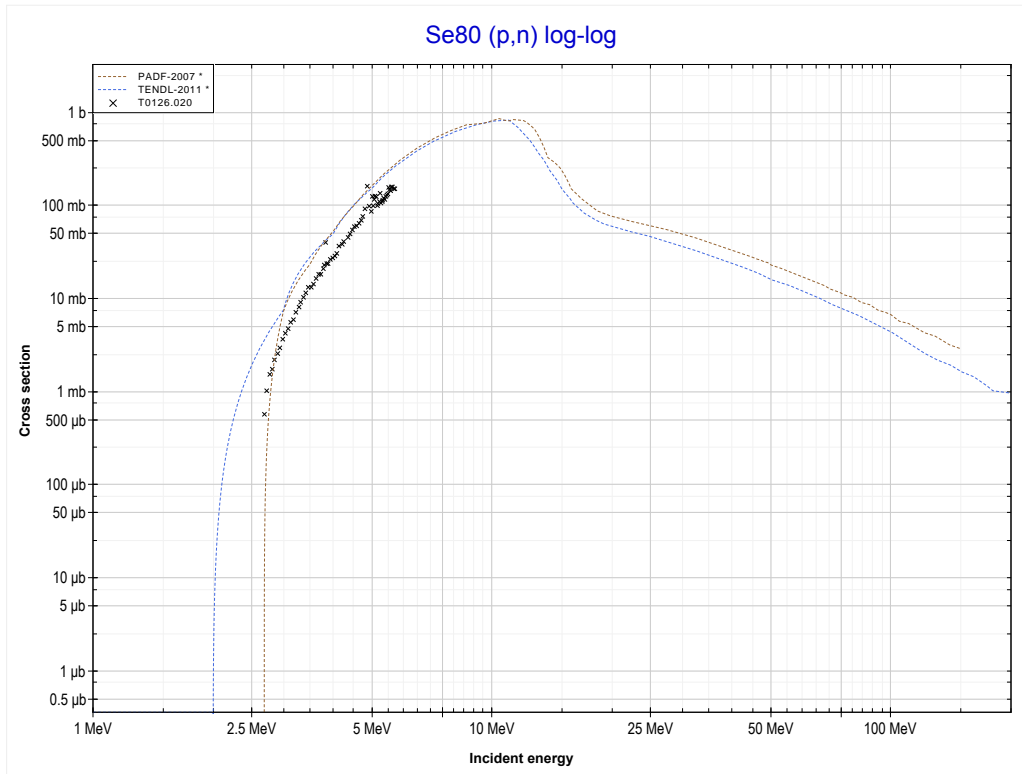
Reaction	Q-Value
Se78(p,n+α)As74	-9373.36 keV
Se78(p,d+t)As74	-26962.66 keV
Se78(p,n+p+t)As74	-29187.22 keV
Se78(p,2n+He3)As74	-29950.98 keV
Se78(p,n+2d)As74	-33219.89 keV
Se78(p,2n+p+d)As74	-35444.46 keV
Se78(p,3n+2p)As74	-37669.02 keV

<< 33-As-75	<b>34-Se-78</b>	34-Se-80 >>
<< MT22 (p,n+α)	<b>MT37 (p,4n) or MT5 (Br75 production)</b>	MT4 (p,n) >>



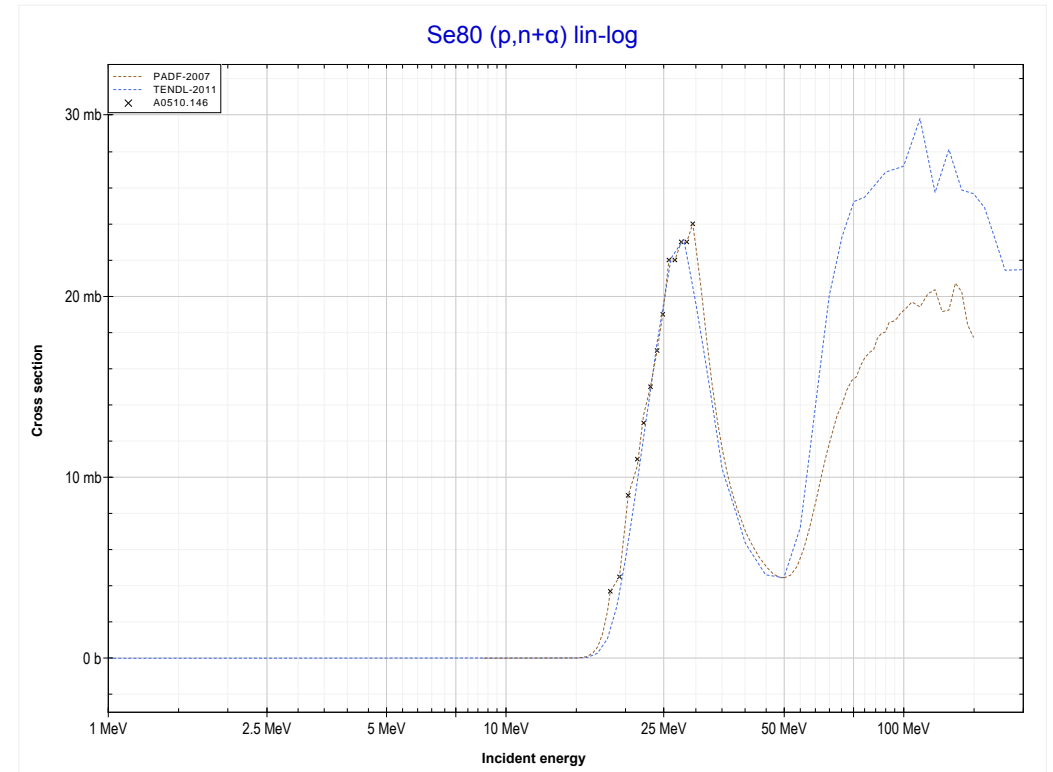
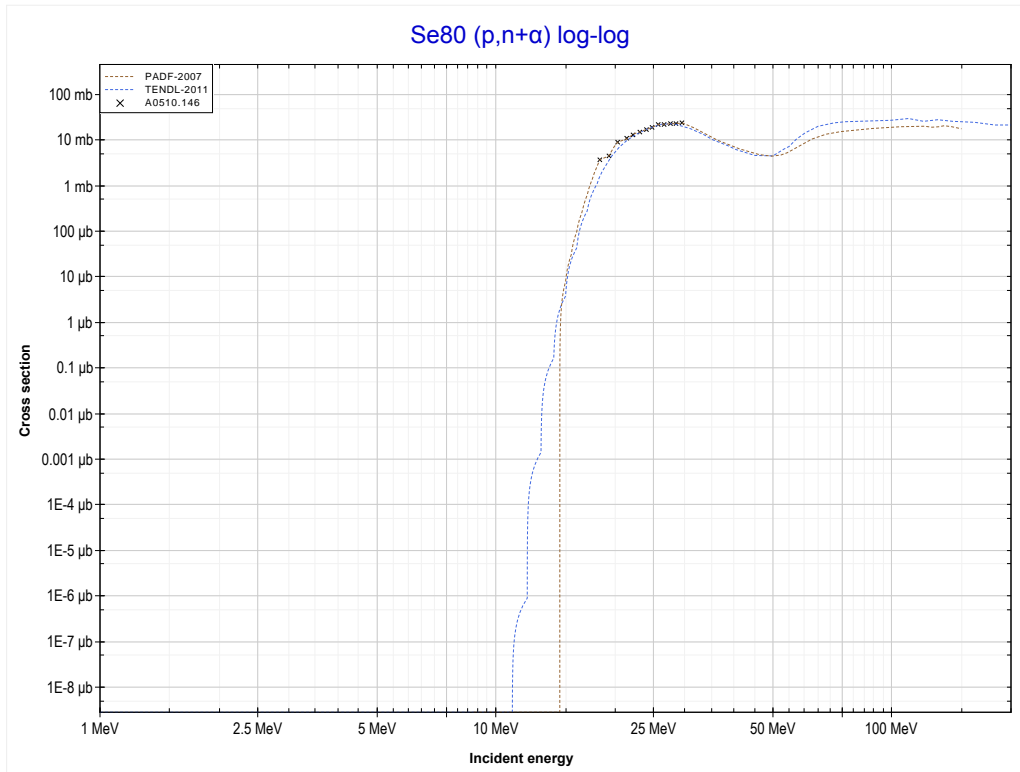
Reaction	Q-Value
Se78(p,4n)Br75	-32883.40 keV

<< 34-Se-78	<b>34-Se-80</b>	34-Se-82 >>
<< MT37 (p,4n)	<b>MT4 (p,n) or MT5 (Br80 production)</b>	MT22 (p,n+α) >>



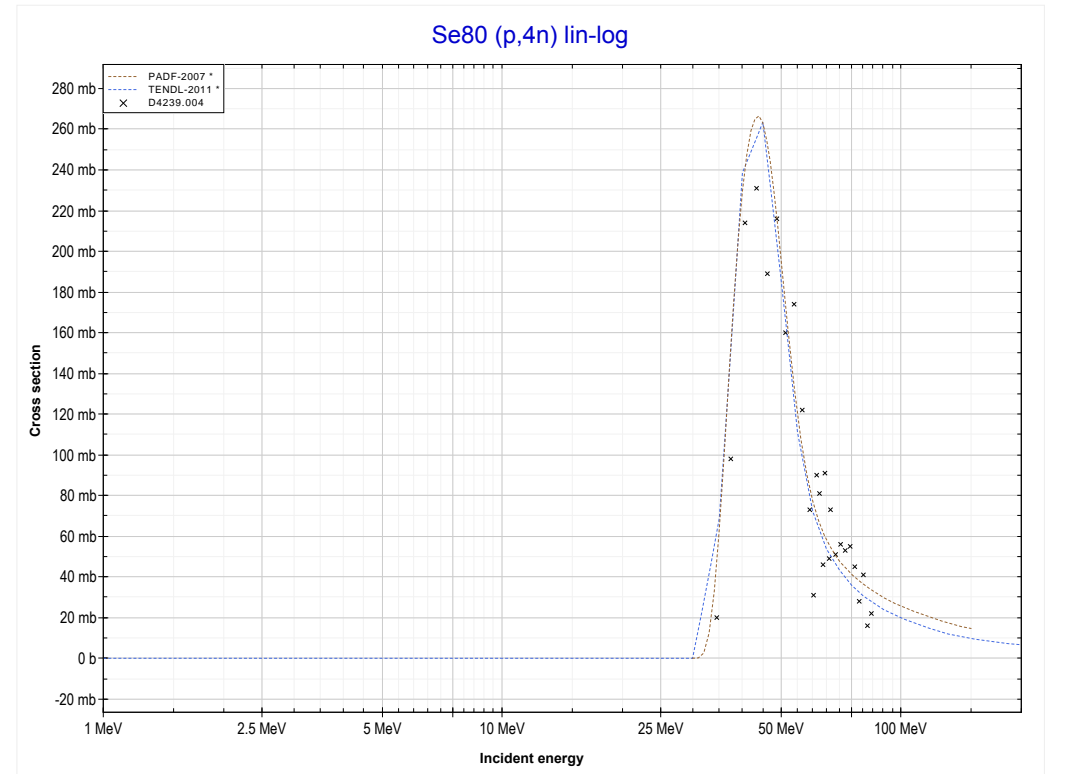
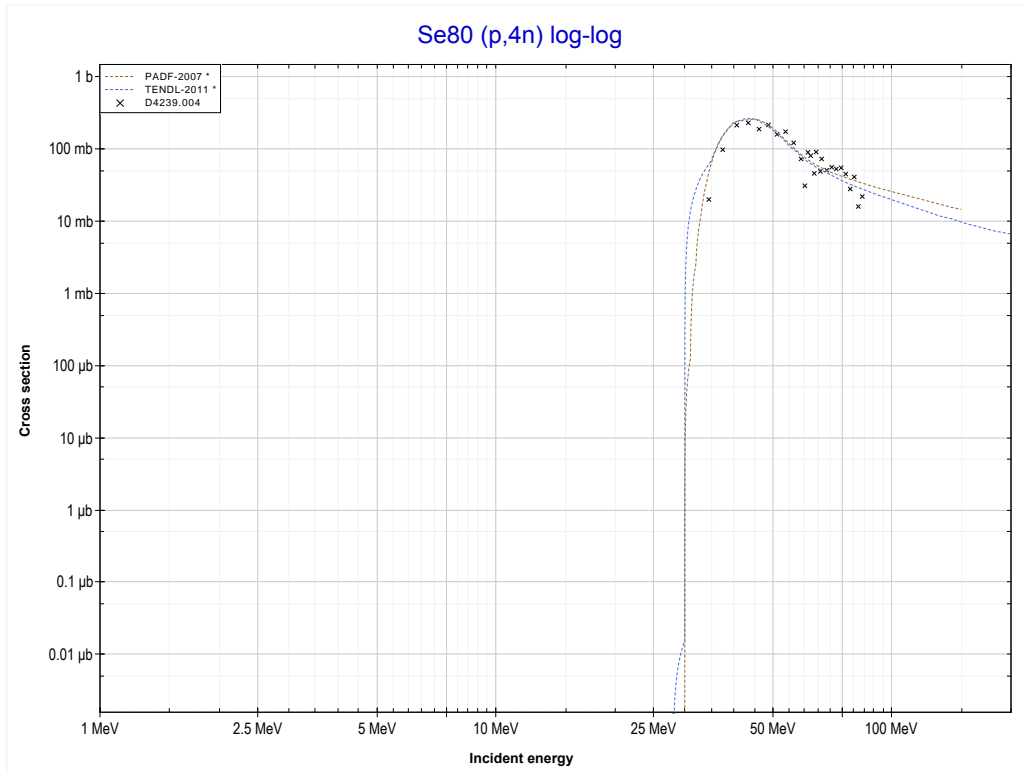
Reaction	Q-Value
Se80(p,n)Br80	-2652.75 keV

<< 34-Se-78	<b>34-Se-80</b>	34-Se-82 >>
<< MT4 (p,n)	<b>MT22 (p,n+α) or MT5 (As76 production)</b>	MT37 (p,4n) >>



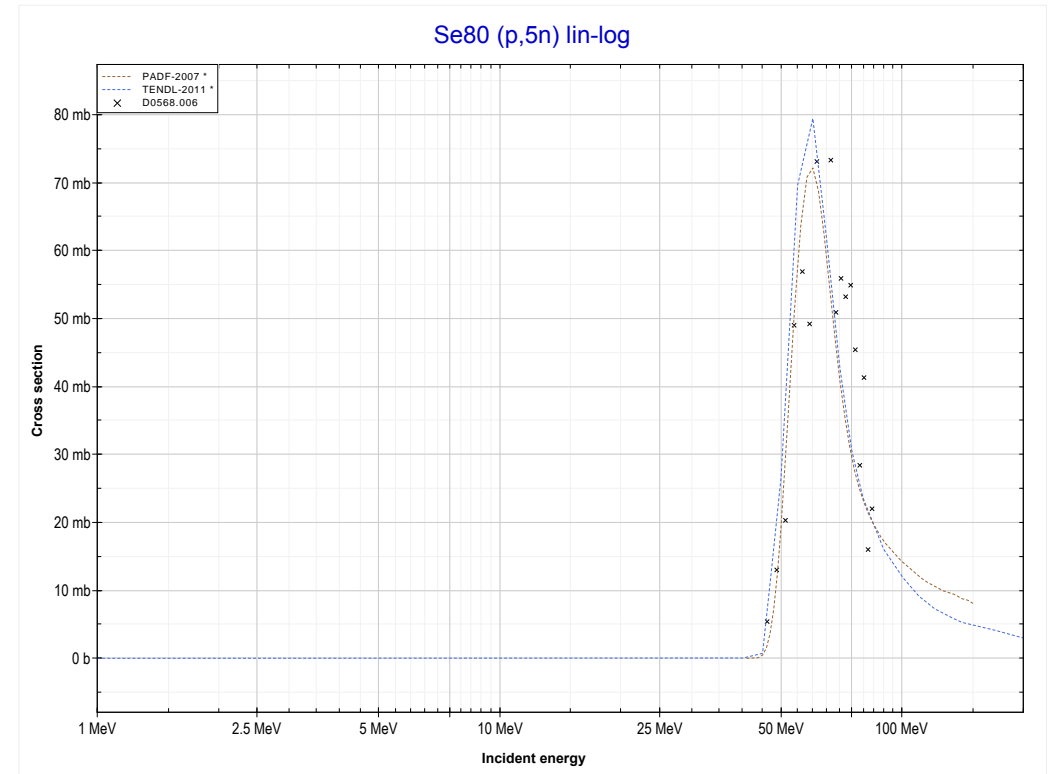
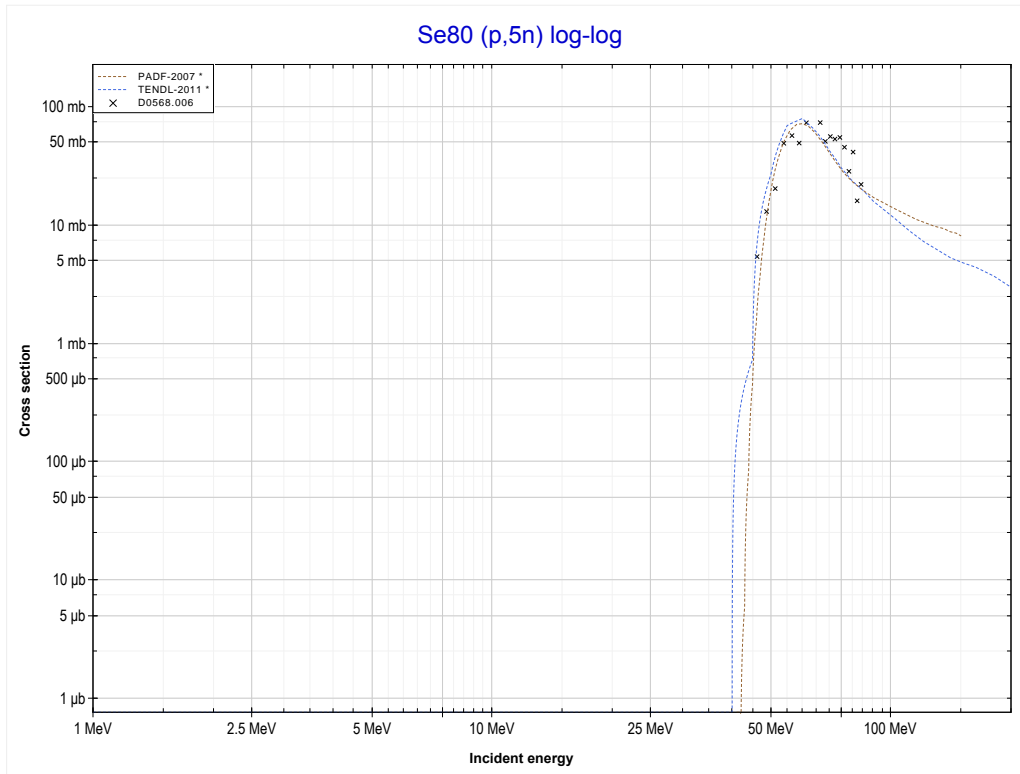
Reaction	Q-Value
Se80(p,n+α)As76	-8677.66 keV
Se80(p,d+t)As76	-26266.96 keV
Se80(p,n+p+t)As76	-28491.52 keV
Se80(p,2n+He3)As76	-29255.28 keV
Se80(p,n+2d)As76	-32524.19 keV
Se80(p,2n+p+d)As76	-34748.76 keV
Se80(p,3n+2p)As76	-36973.32 keV

<< 34-Se-78	<b>34-Se-80</b>	35-Br-79 >>
<< MT22 (p,n+α)	<b>MT37 (p,4n) or MT5 (Br77 production)</b>	MT152 (p,5n) >>



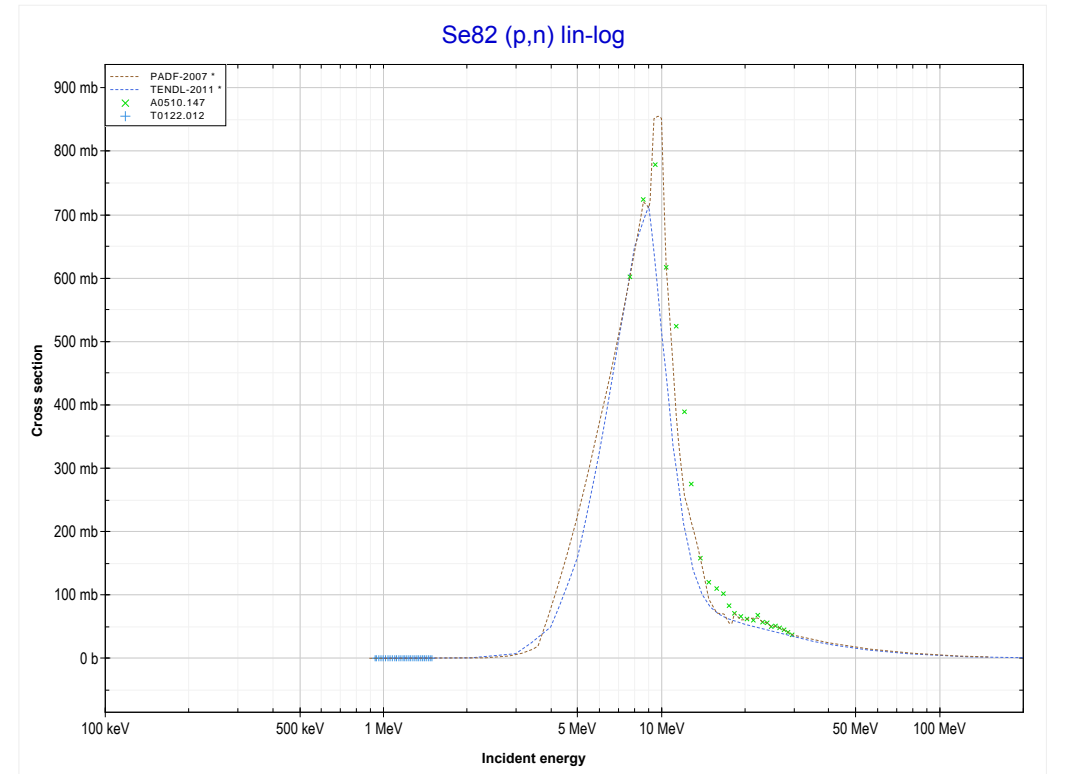
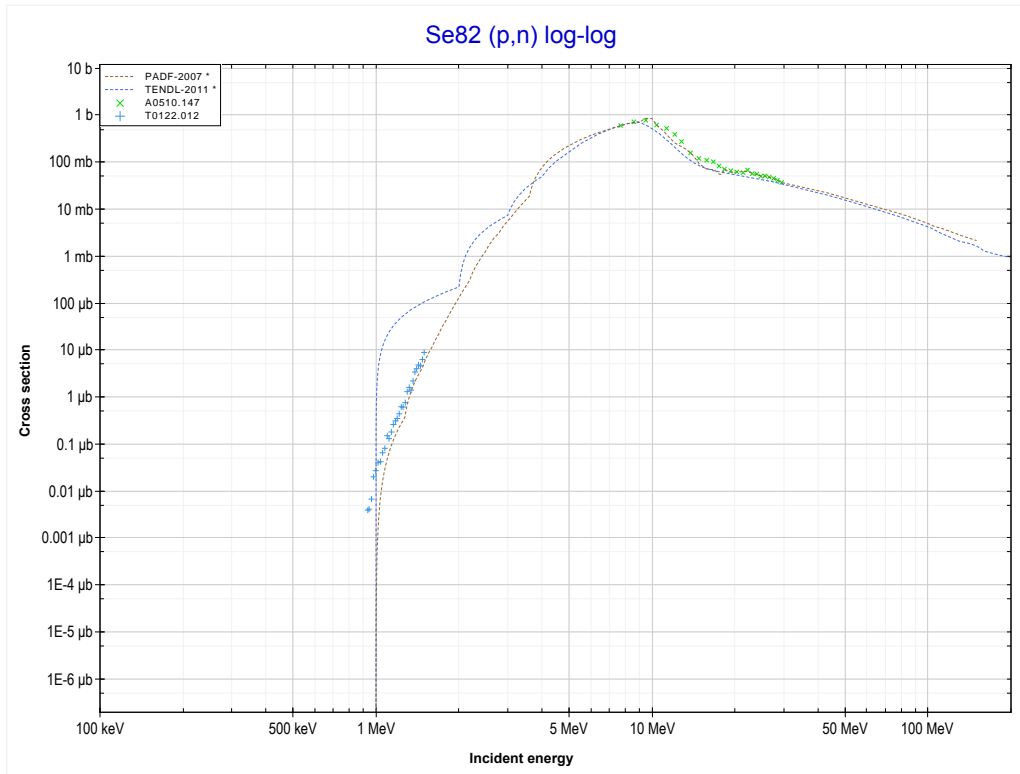
Reaction	Q-Value
Se80(p,4n)Br77	-29521.20 keV

<< 31-Ga-71	<b>34-Se-80</b>	35-Br-81 >>
<< MT37 (p,4n)	<b>MT152 (p,5n) or MT5 (Br76 production)</b>	MT4 (p,n) >>



Reaction	Q-Value
Se80(p,5n)Br76	-40538.52 keV

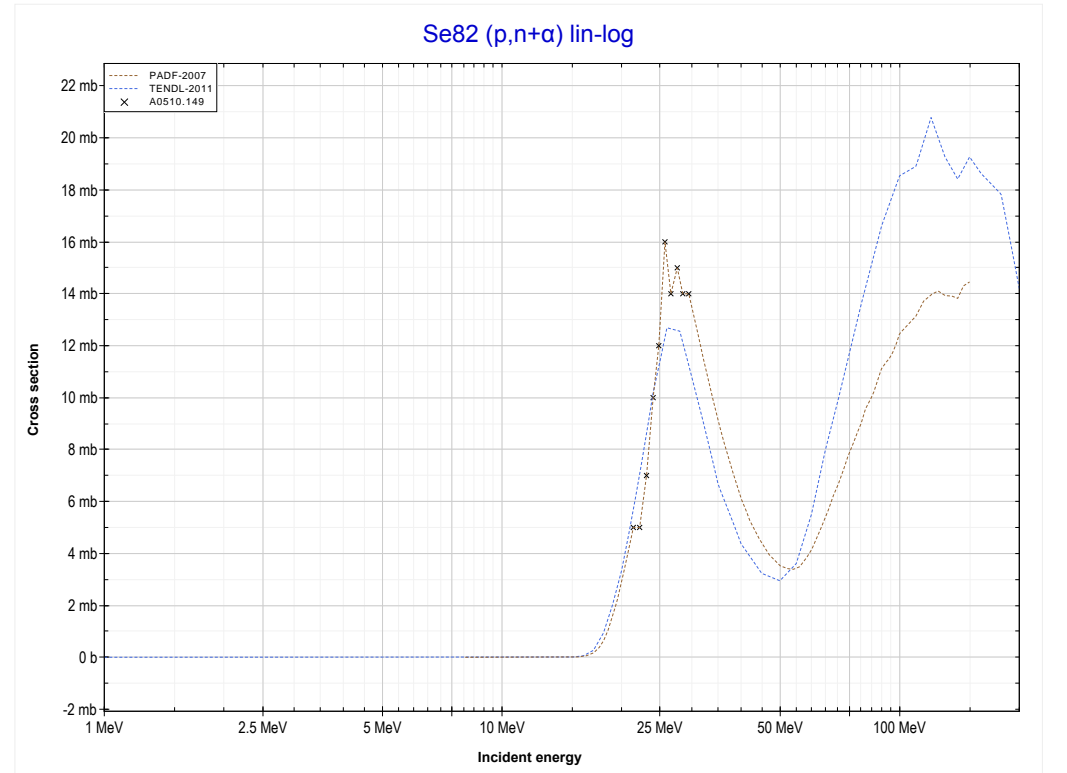
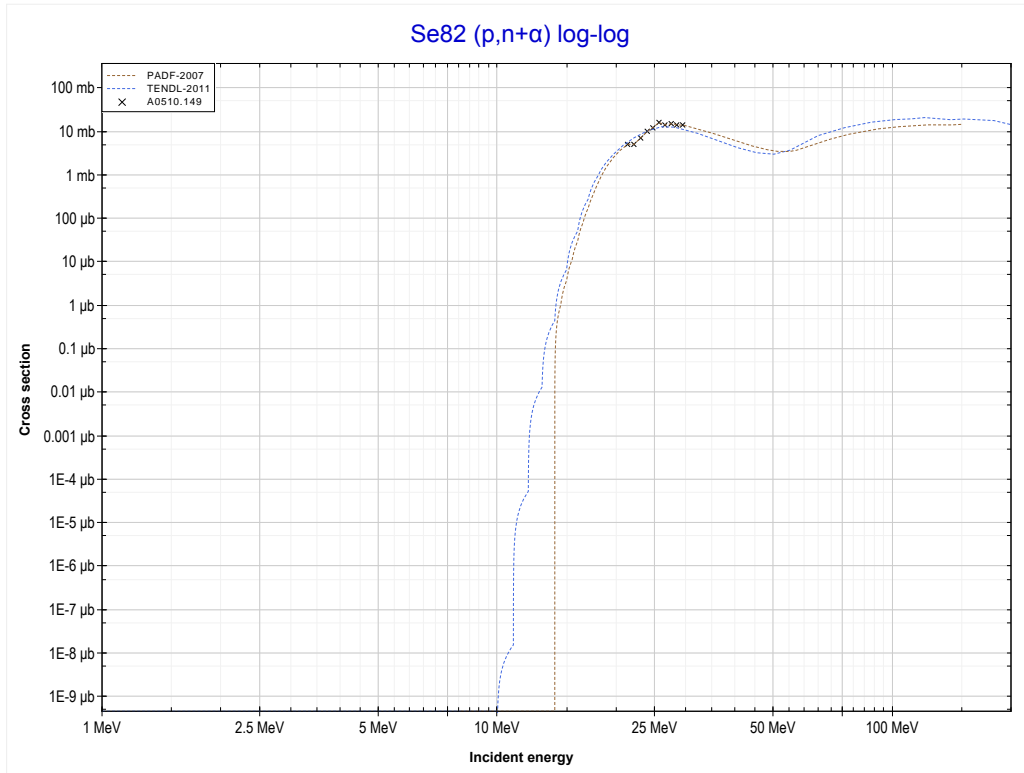
<< 34-Se-80	<b>34-Se-82</b>	35-Br-79 >>
<< MT152 (p,5n)	<b>MT4 (p,n) or MT5 (Br82 production)</b>	MT22 (p,n+α) >>



Reaction	Q-Value
Se82(p,n)Br82	-879.85 keV

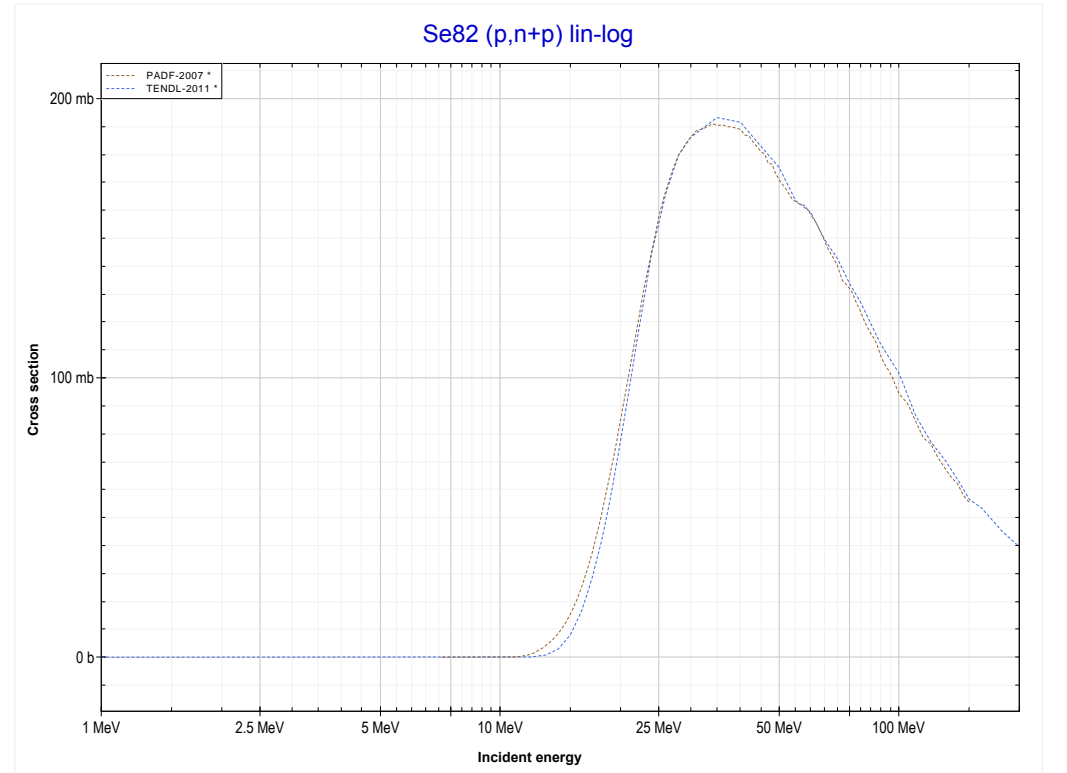
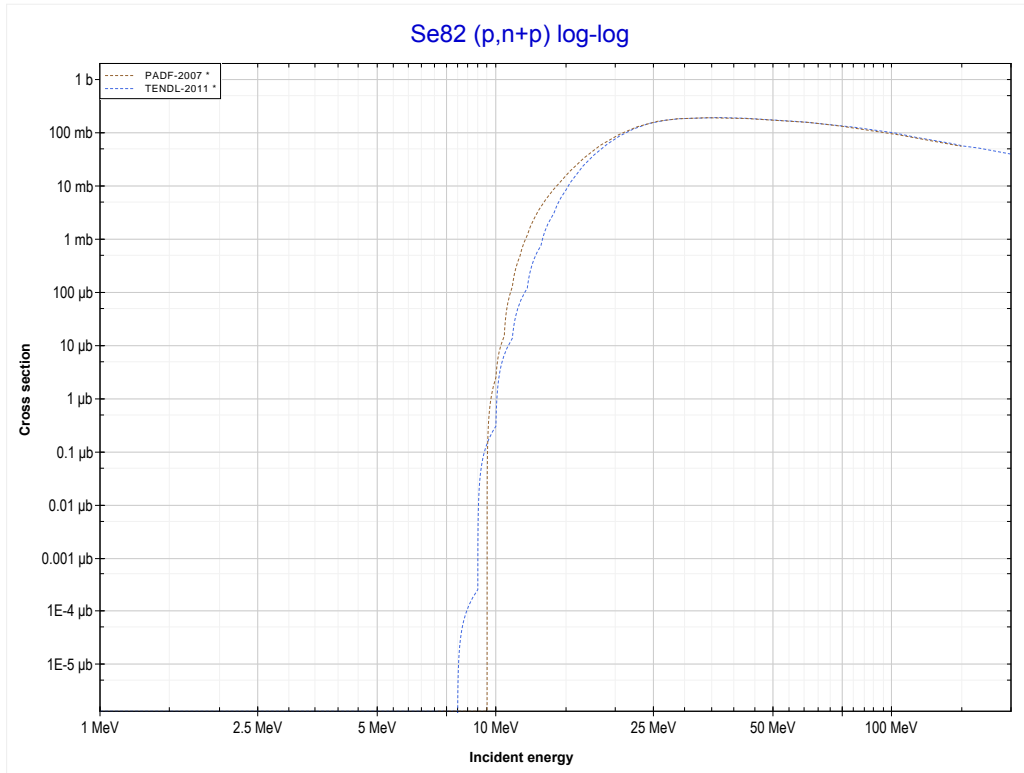


<< 34-Se-80	<b>34-Se-82</b>	35-Br-79 >>
<< MT4 (p,n)	<b>MT22 (p,n+α) or MT5 (As78 production)</b>	MT28 (p,n+p) >>



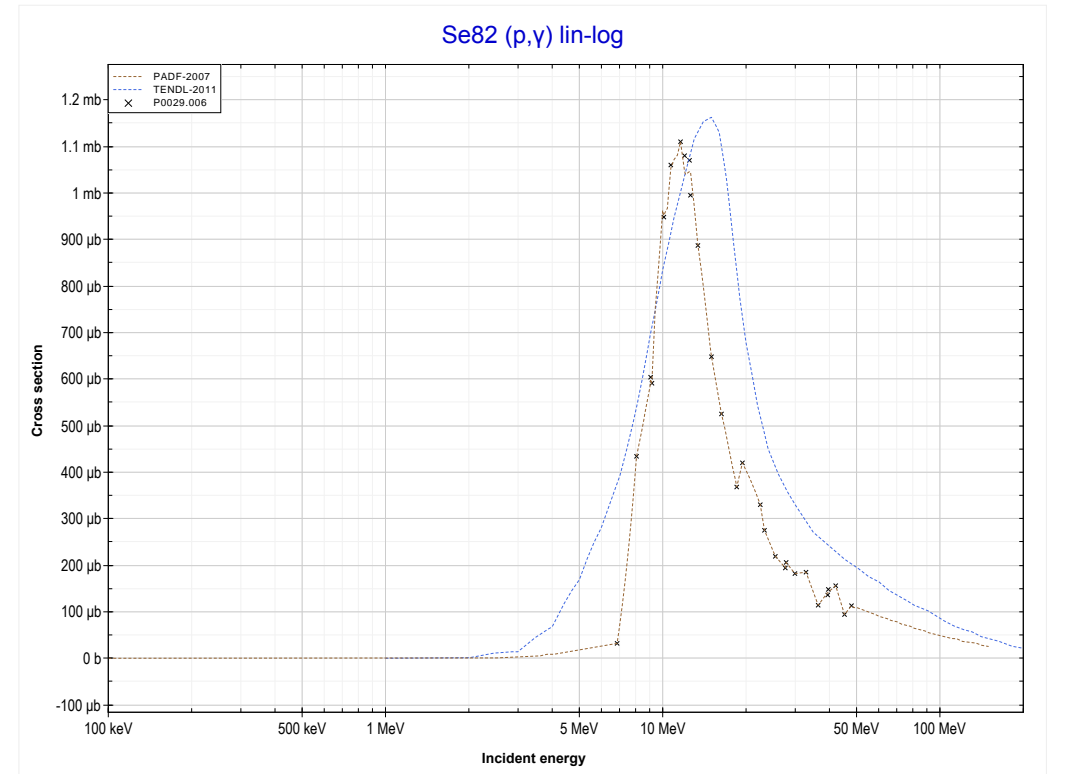
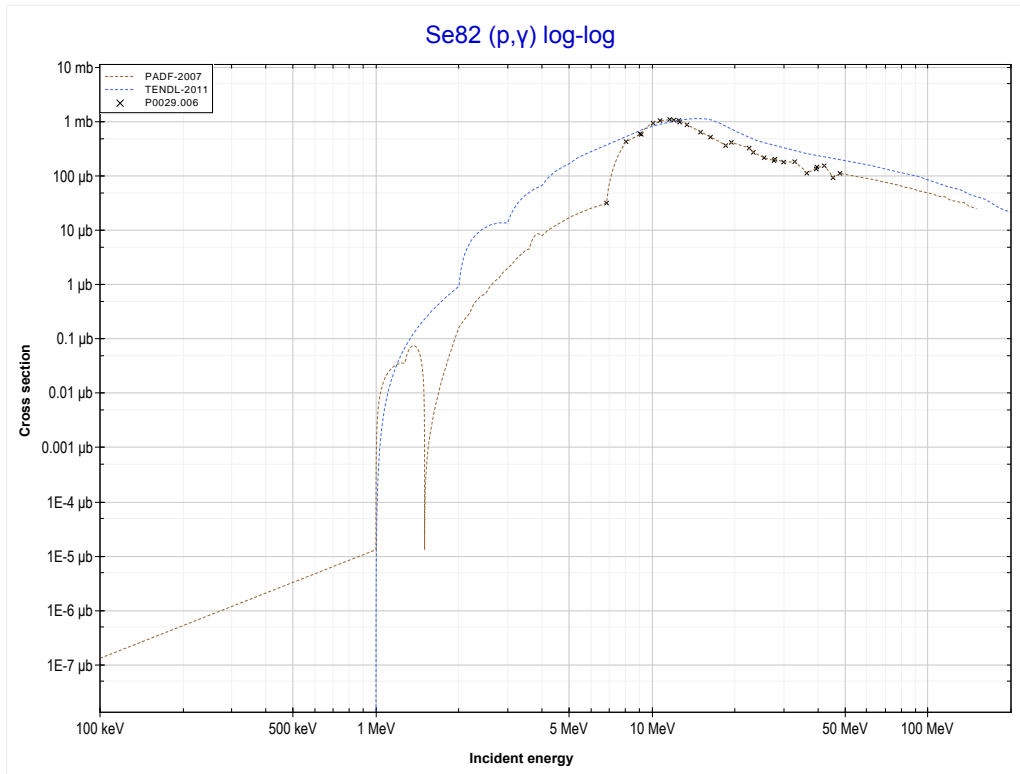
Reaction	Q-Value
Se82(p,n+α)As78	-7984.26 keV
Se82(p,d+t)As78	-25573.56 keV
Se82(p,n+p+t)As78	-27798.12 keV
Se82(p,2n+He3)As78	-28561.88 keV
Se82(p,n+2d)As78	-31830.79 keV
Se82(p,2n+p+d)As78	-34055.36 keV
Se82(p,3n+2p)As78	-36279.92 keV

<< 34-Se-76	<b>34-Se-82</b>	35-Br-79 >>
<< MT22 (p,n+α)	<b>MT28 (p,n+p) or MT5 (Se81 production)</b>	MT102 (p,γ) >>



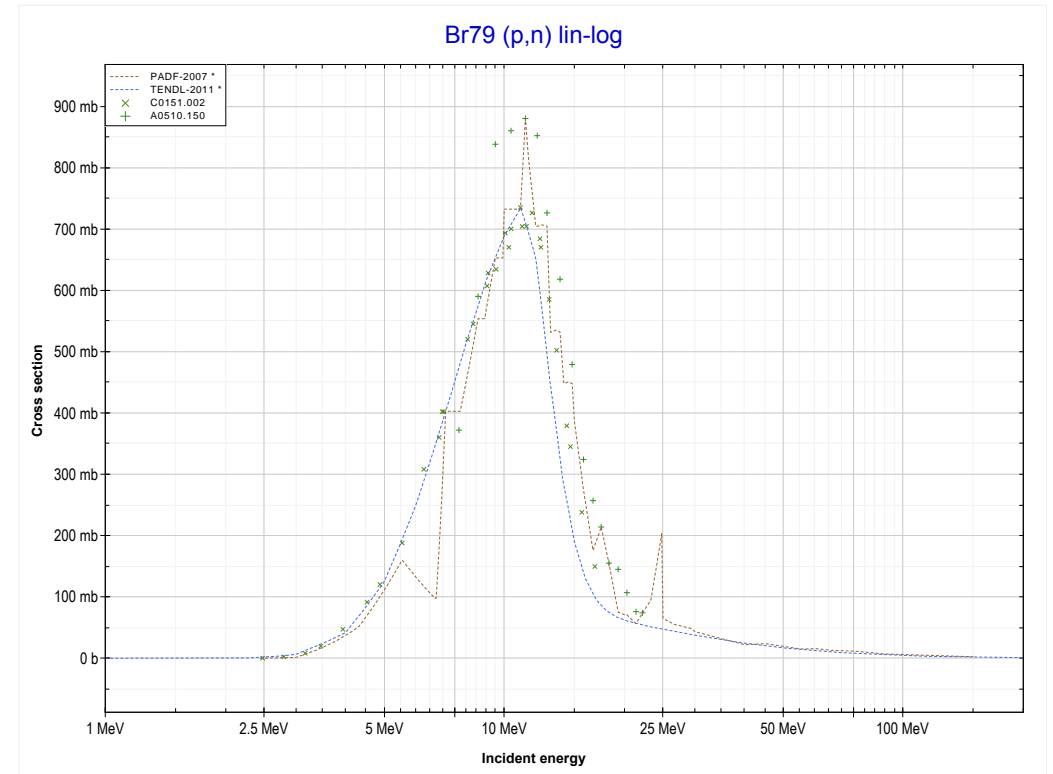
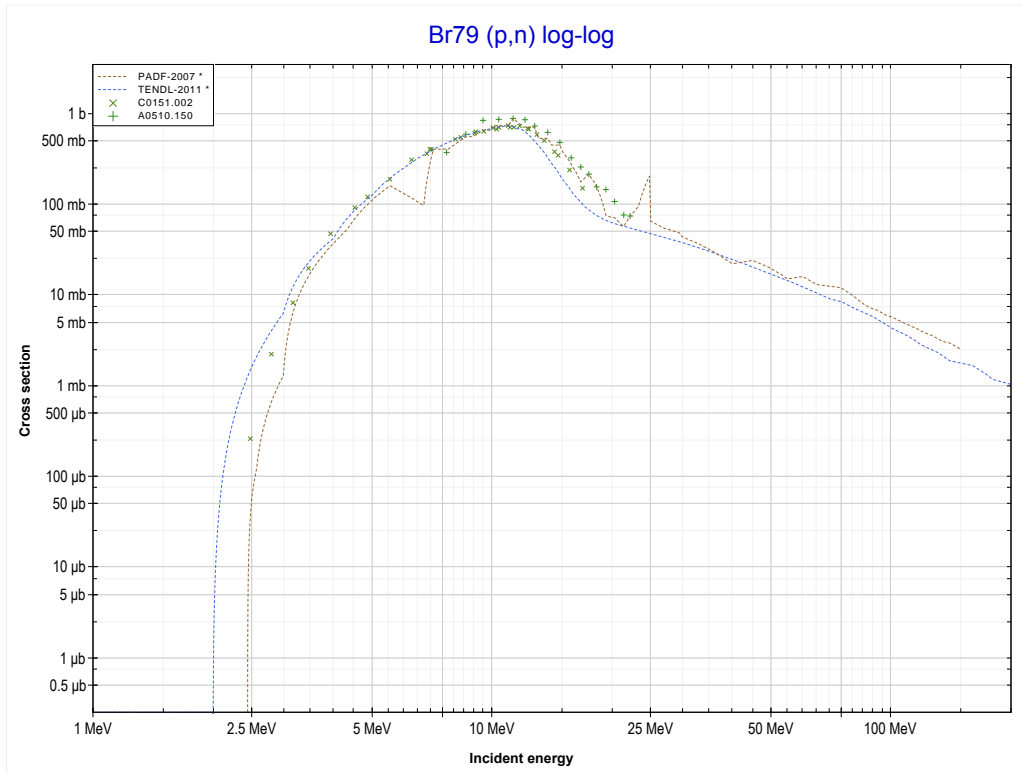
Reaction	Q-Value
Se82(p,d)Se81	-7051.25 keV
Se82(p,n+p)Se81	-9275.82 keV

<< 34-Se-77	<b>34-Se-82</b>	38-Sr-84 >>
<< MT28 (p,n+p)	<b>MT102 (p,<math>\gamma</math>) or MT5 (Br83 production)</b>	MT4 (p,n) >>



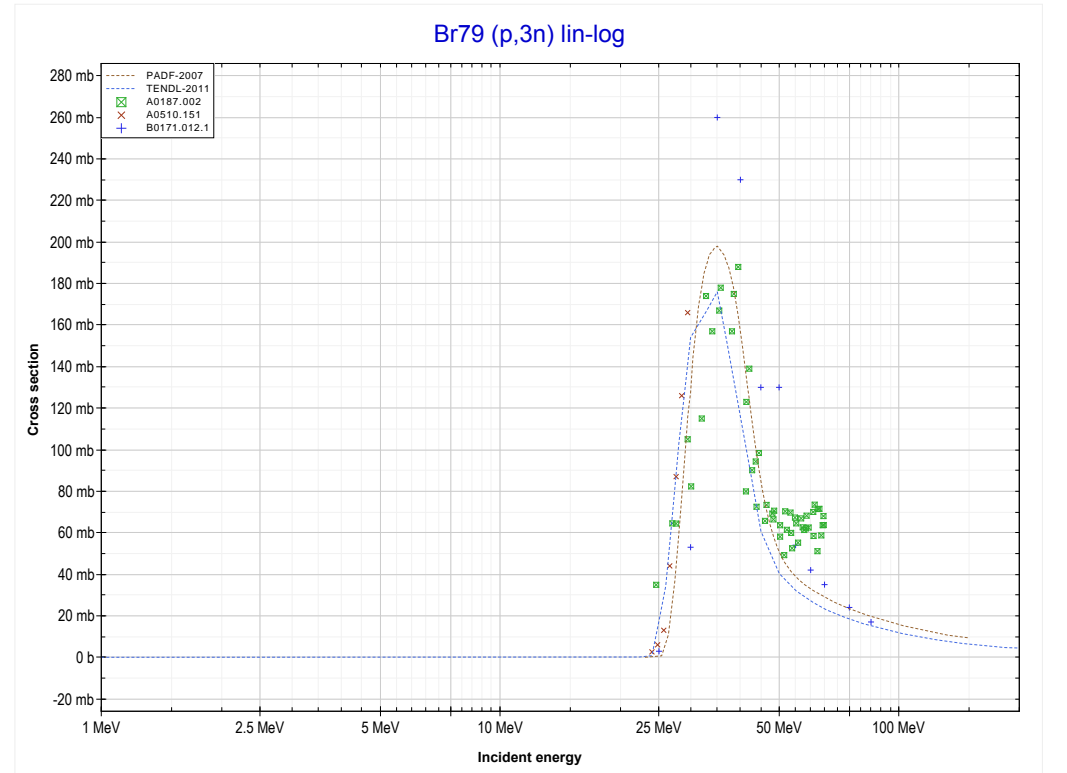
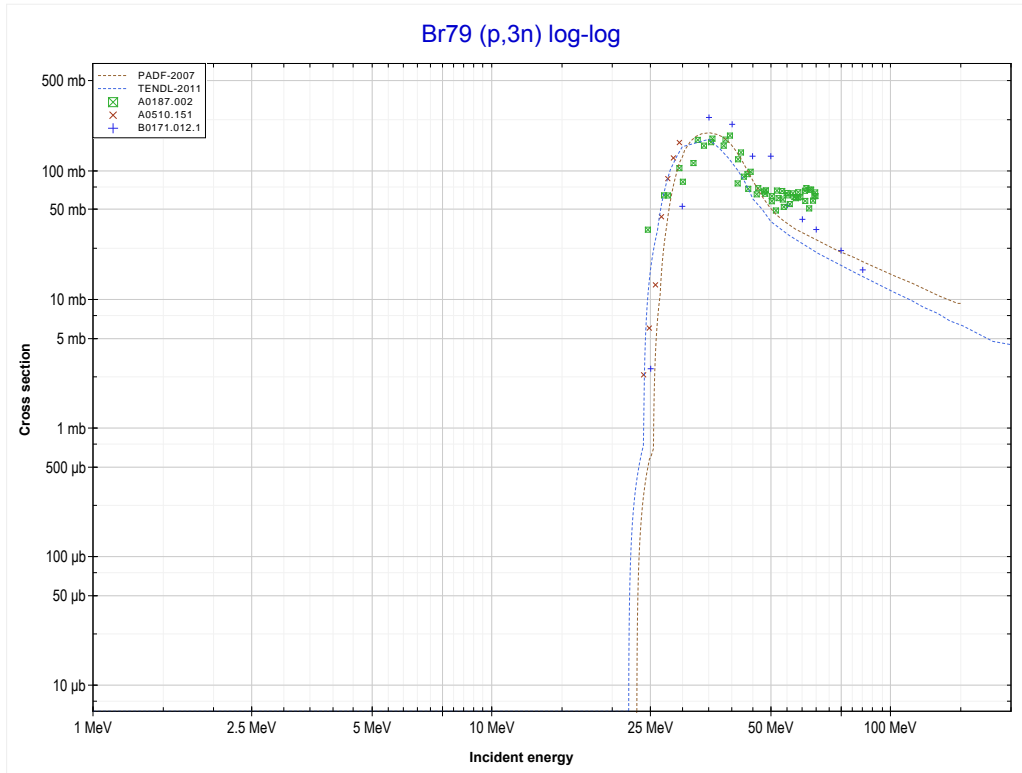
Reaction	Q-Value
Se82(p, $\gamma$ )Br83	8703.97 keV

<< 34-Se-82	<b>35-Br-79</b>	35-Br-81 >>
<< MT102 (p, $\gamma$ )	<b>MT4 (p,n) or MT5 (Kr79 production)</b>	MT17 (p,3n) >>



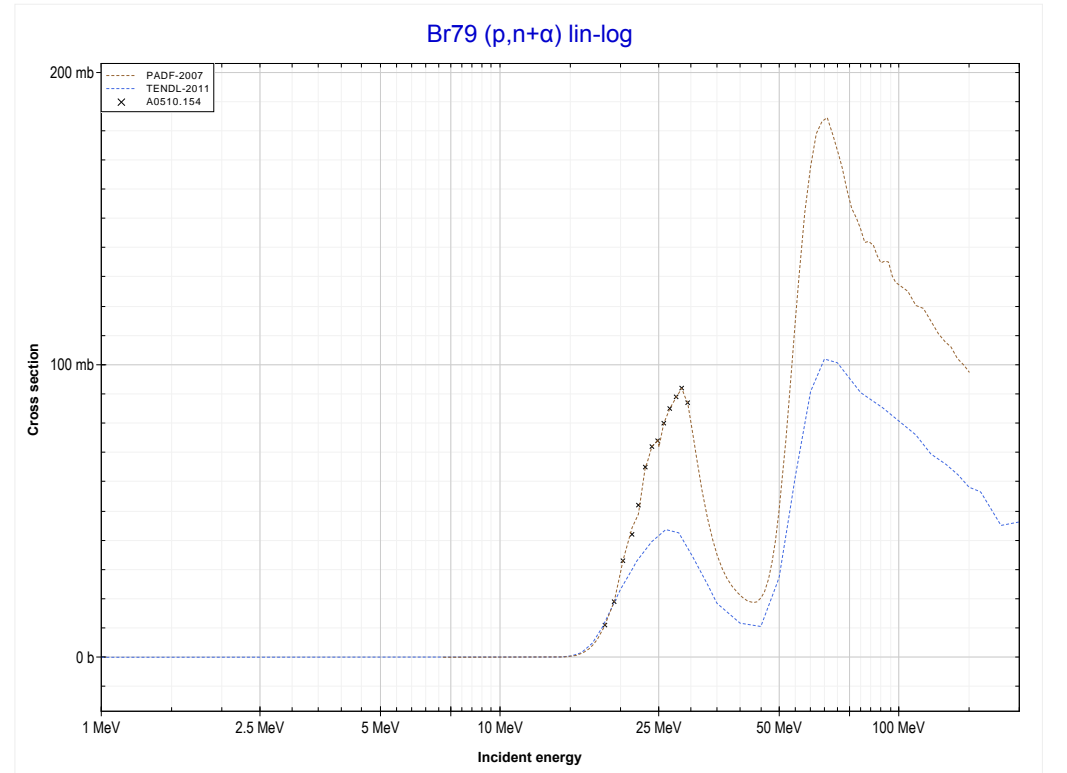
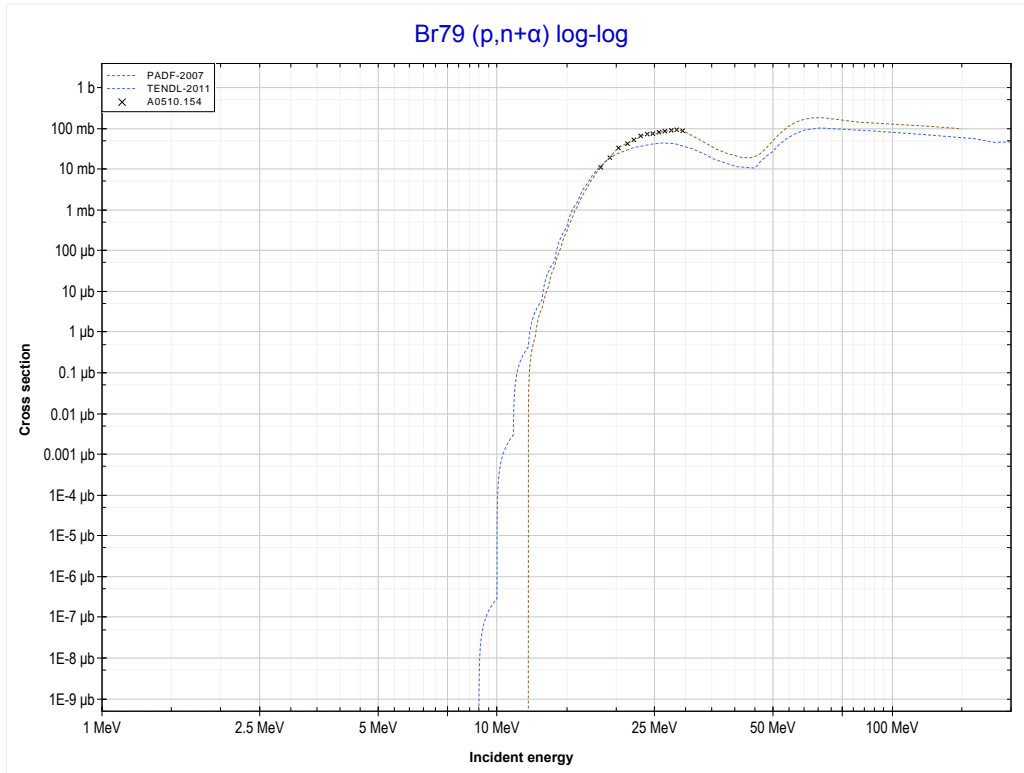
Reaction	Q-Value
Br79(p,n)Kr79	-2407.85 keV

<< 34-Se-78	<b>35-Br-79</b>	35-Br-81 >>
<< MT4 (p,n)	<b>MT17 (p,3n) or MT5 (Kr77 production)</b>	MT22 (p,n+α) >>



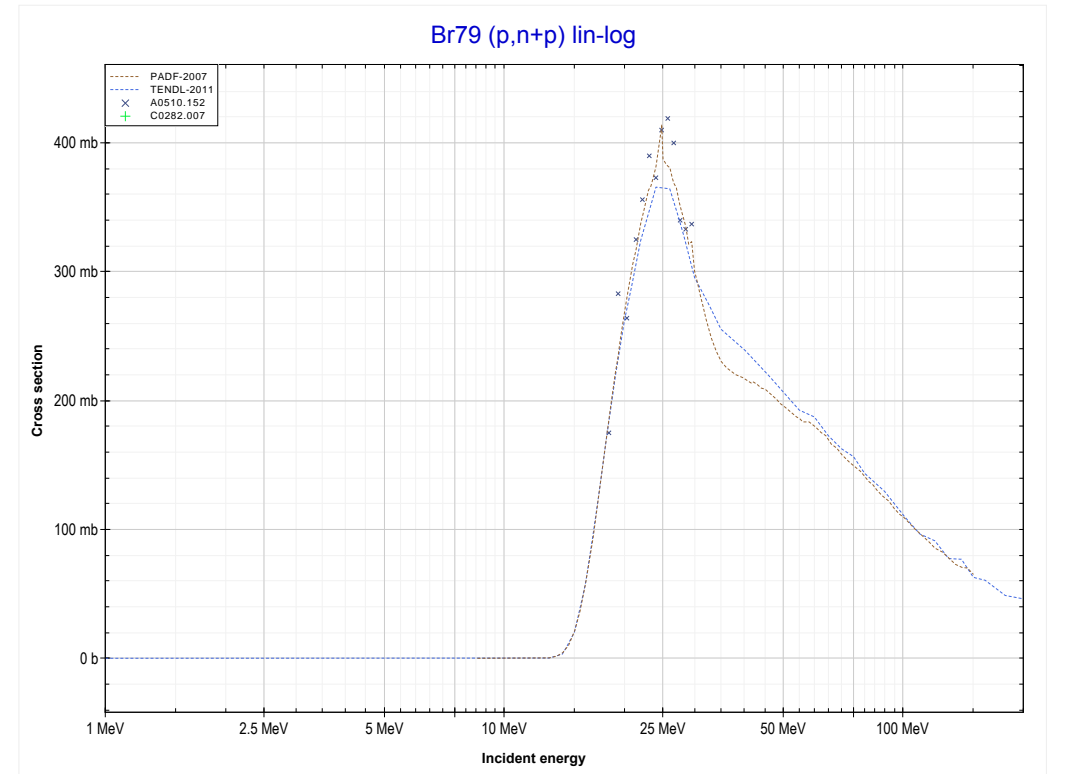
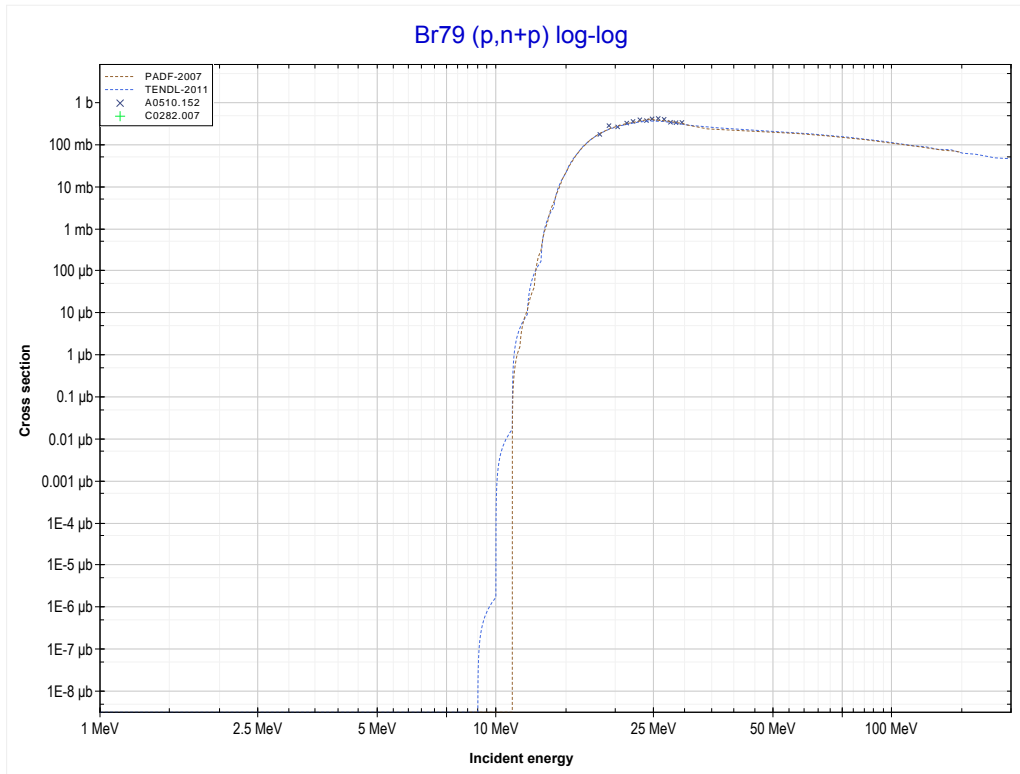
Reaction	Q-Value
Br79(p,3n)Kr77	-22824.08 keV

<< 34-Se-82	<b>35-Br-79</b>	36-Kr-80 >>
<< MT17 (p,3n)	<b>MT22 (p,n+α) or MT5 (Se75 production)</b>	MT28 (p,n+p) >>



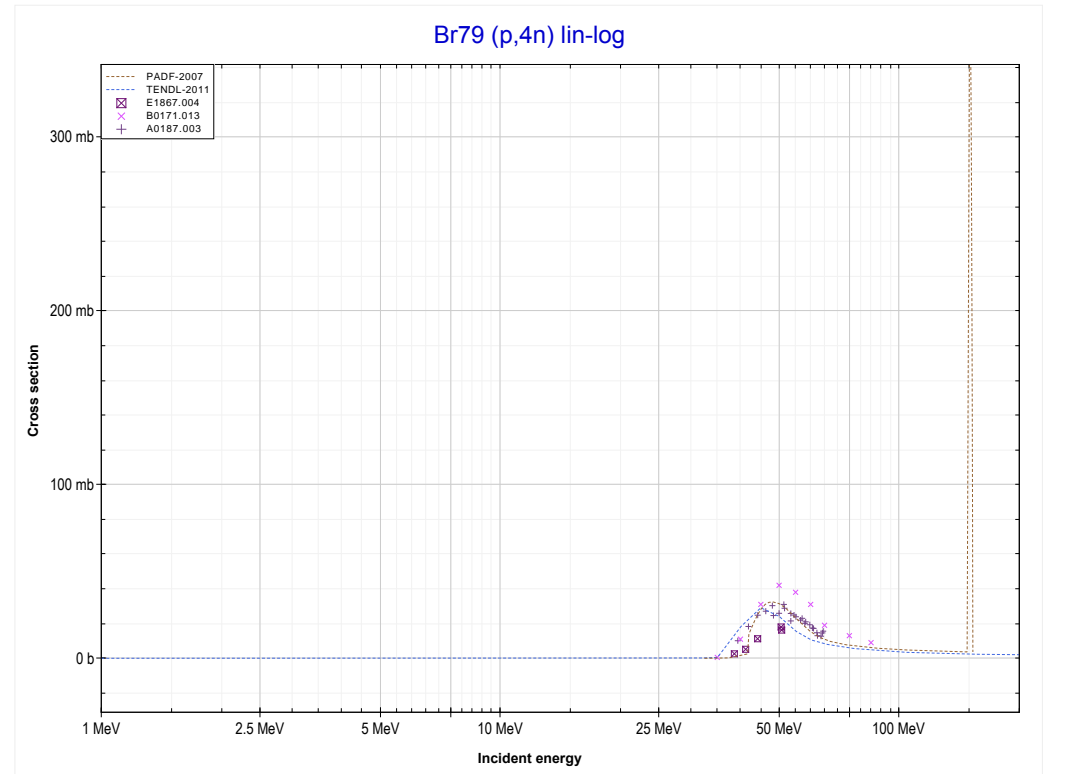
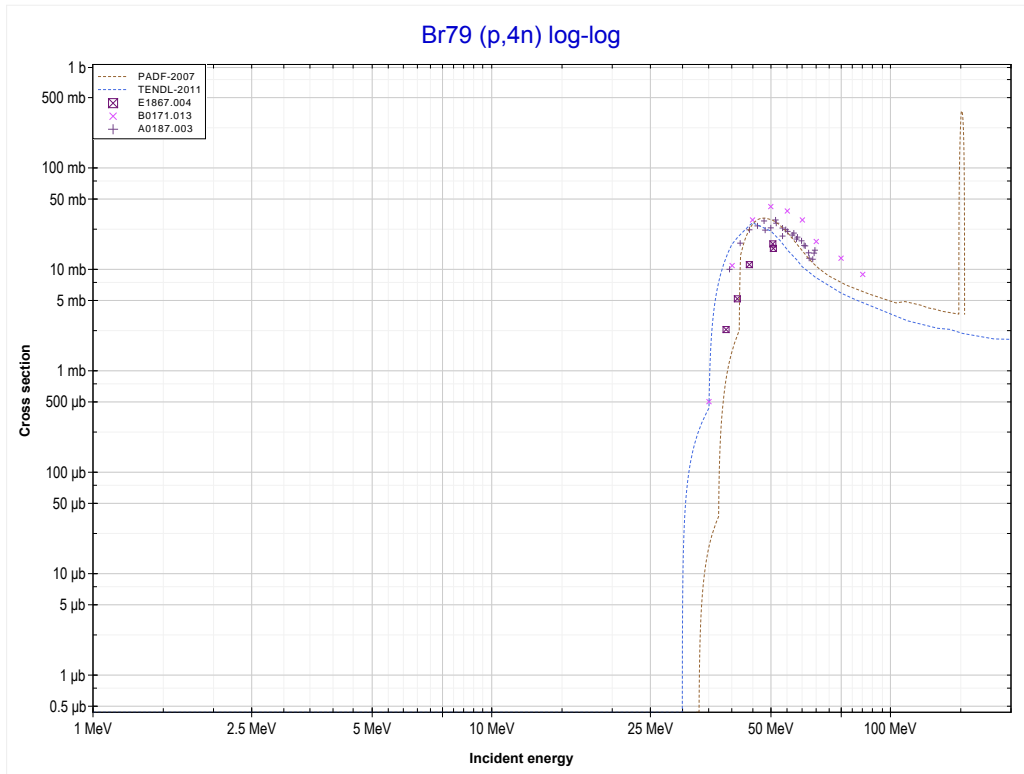
Reaction	Q-Value
Br79(p,n+α)Se75	-7106.76 keV
Br79(p,d+t)Se75	-24696.06 keV
Br79(p,n+p+t)Se75	-26920.62 keV
Br79(p,2n+He3)Se75	-27684.38 keV
Br79(p,n+2d)Se75	-30953.29 keV
Br79(p,2n+p+d)Se75	-33177.86 keV
Br79(p,3n+2p)Se75	-35402.42 keV

<< 34-Se-82	<b>35-Br-79</b>	35-Br-81 >>
<< MT22 (p,n+α)	<b>MT28 (p,n+p) or MT5 (Br78 production)</b>	MT37 (p,4n) >>



Reaction	Q-Value
Br79(p,d)Br78	-8463.25 keV
Br79(p,n+p)Br78	-10687.82 keV

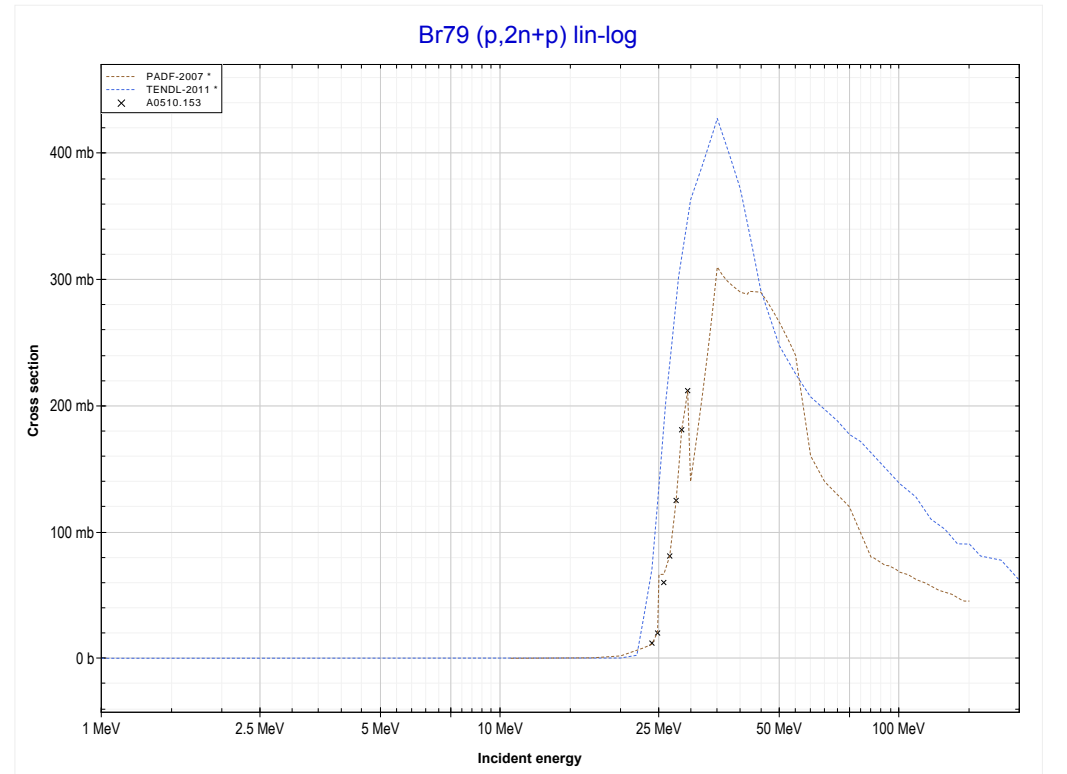
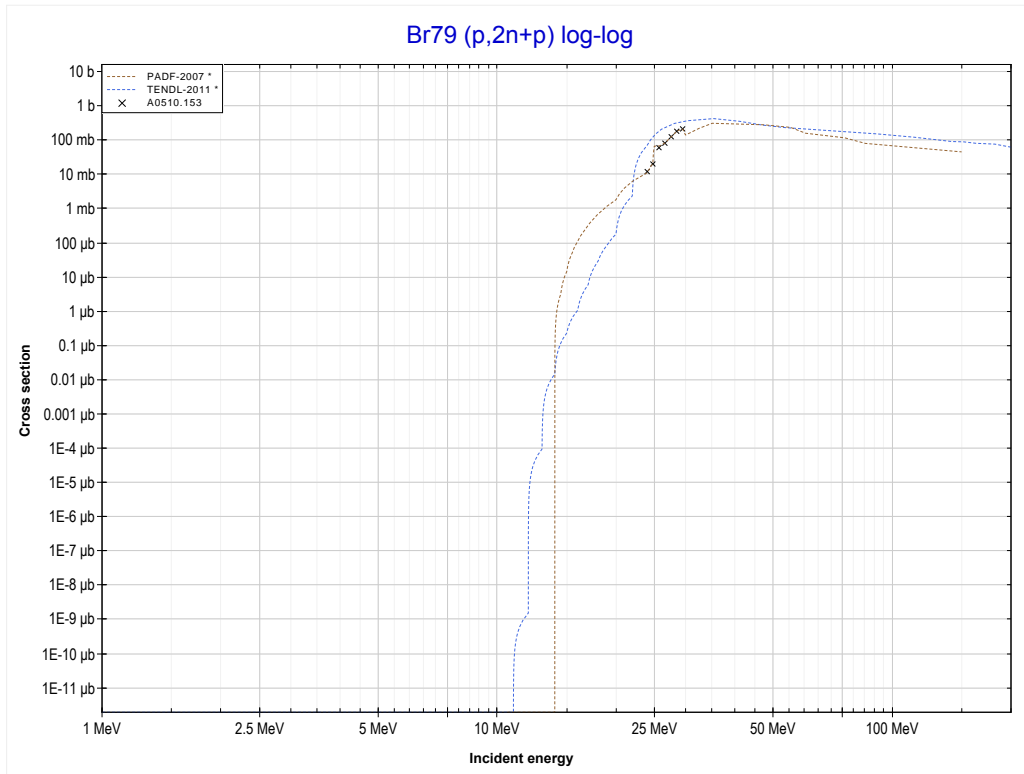
<< 34-Se-80	<b>35-Br-79</b>	37-Rb-85 >>
<< MT28 (p,n+p)	<b>MT37 (p,4n) or MT5 (Kr76 production)</b>	MT41 (p,2n+p) >>



Reaction	Q-Value
Br79(p,4n)Kr76	-32050.80 keV

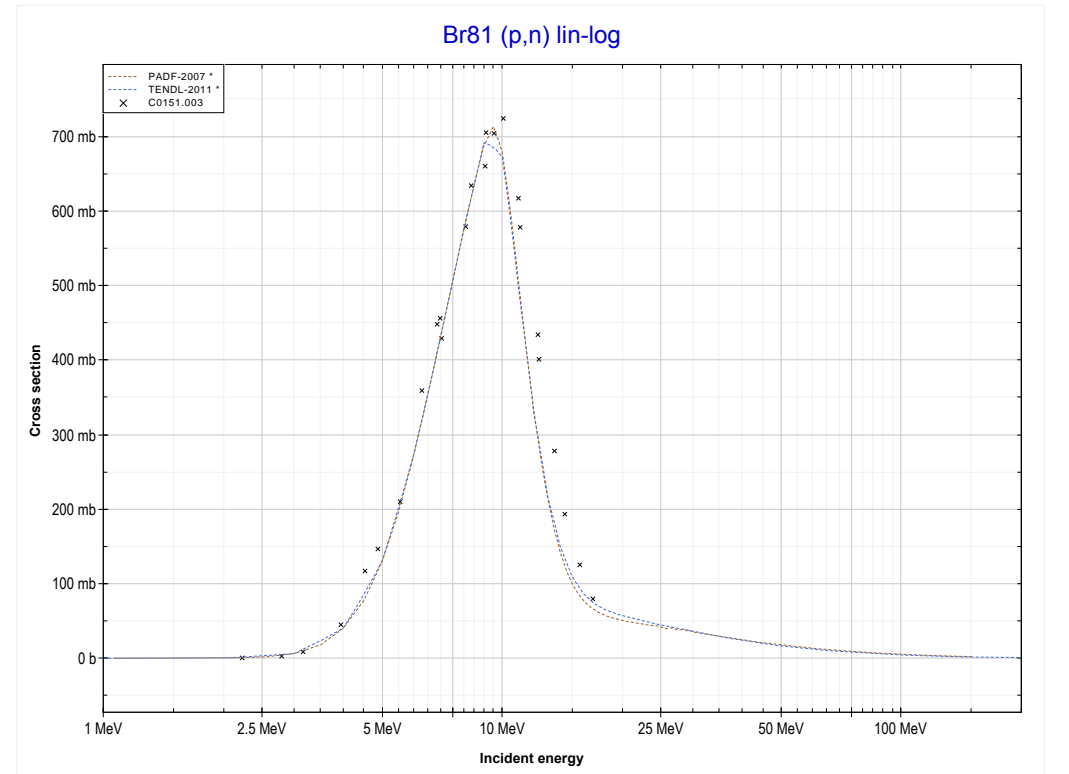
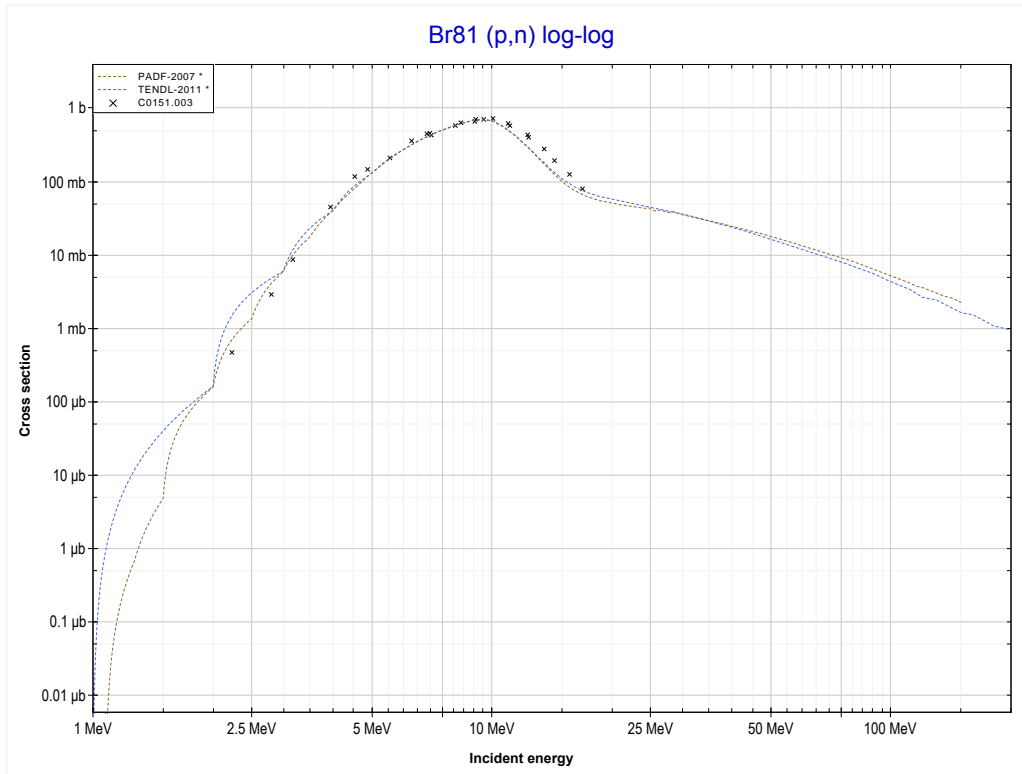


<< 34-Se-77	<b>35-Br-79</b>	37-Rb-85 >>
<< MT37 (p,4n)	<b>MT41 (p,2n+p) or MT5 (Br77 production)</b>	MT4 (p,n) >>



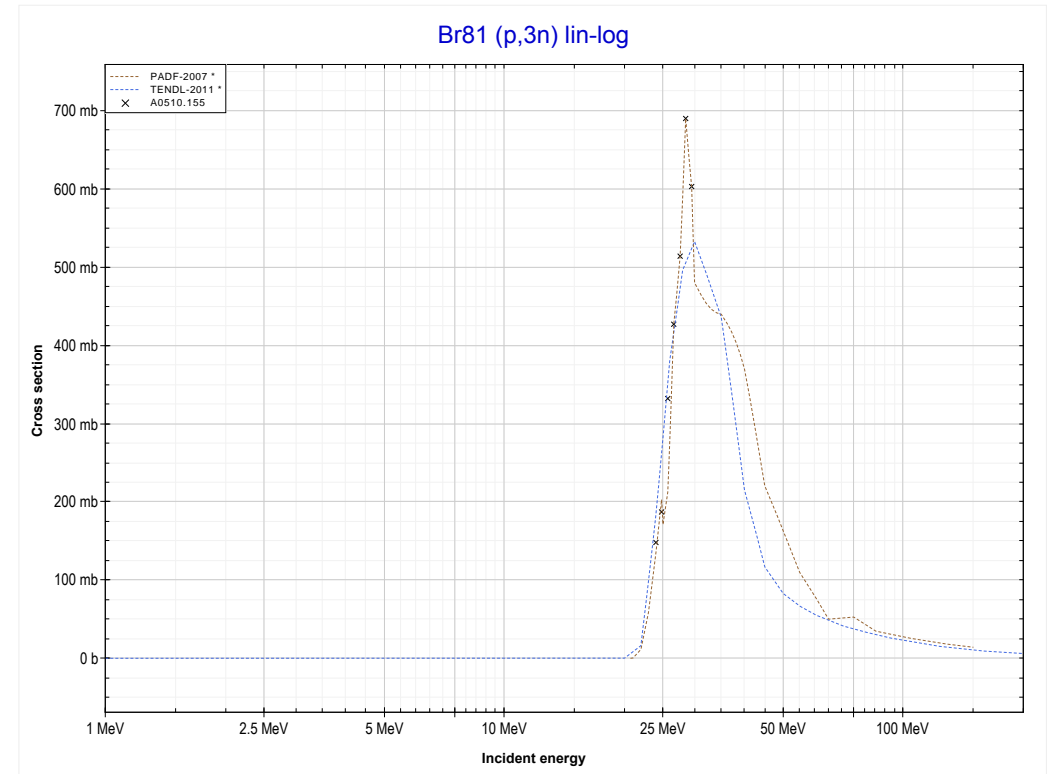
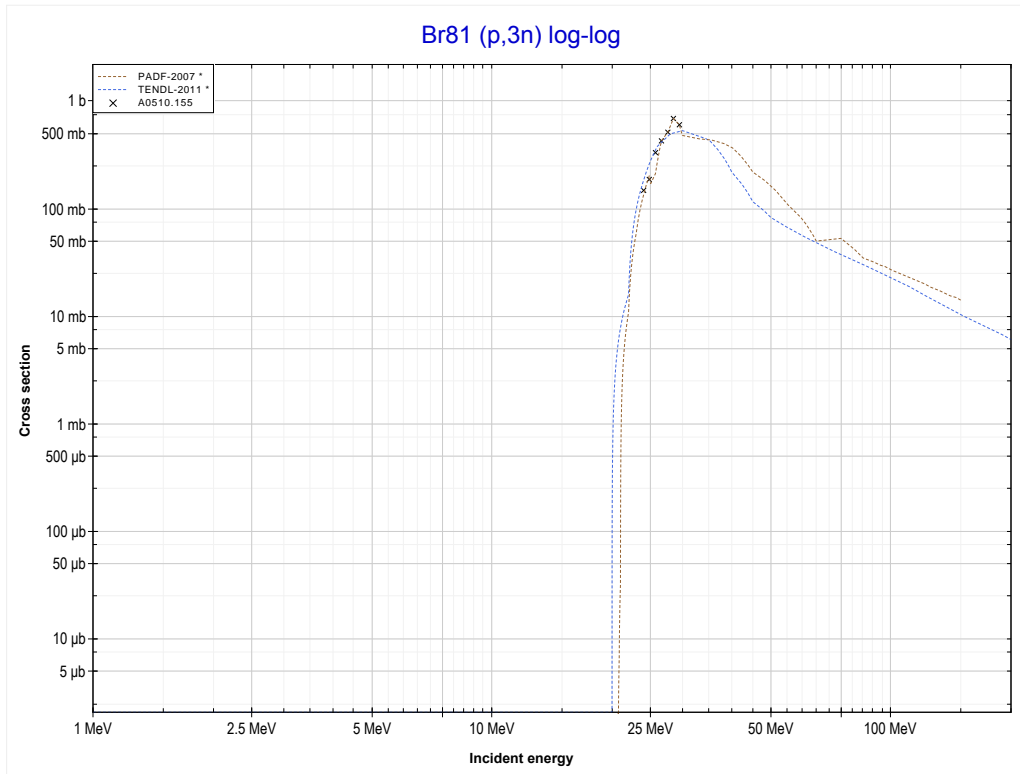
Reaction	Q-Value
Br79(p,t)Br77	-10494.34 keV
Br79(p,n+d)Br77	-16751.57 keV
Br79(p,2n+p)Br77	-18976.13 keV

<< 35-Br-79	<b>35-Br-81</b>	36-Kr-82 >>
<< MT41 (p,2n+p)	<b>MT4 (p,n) or MT5 (Kr81 production)</b>	MT17 (p,3n) >>



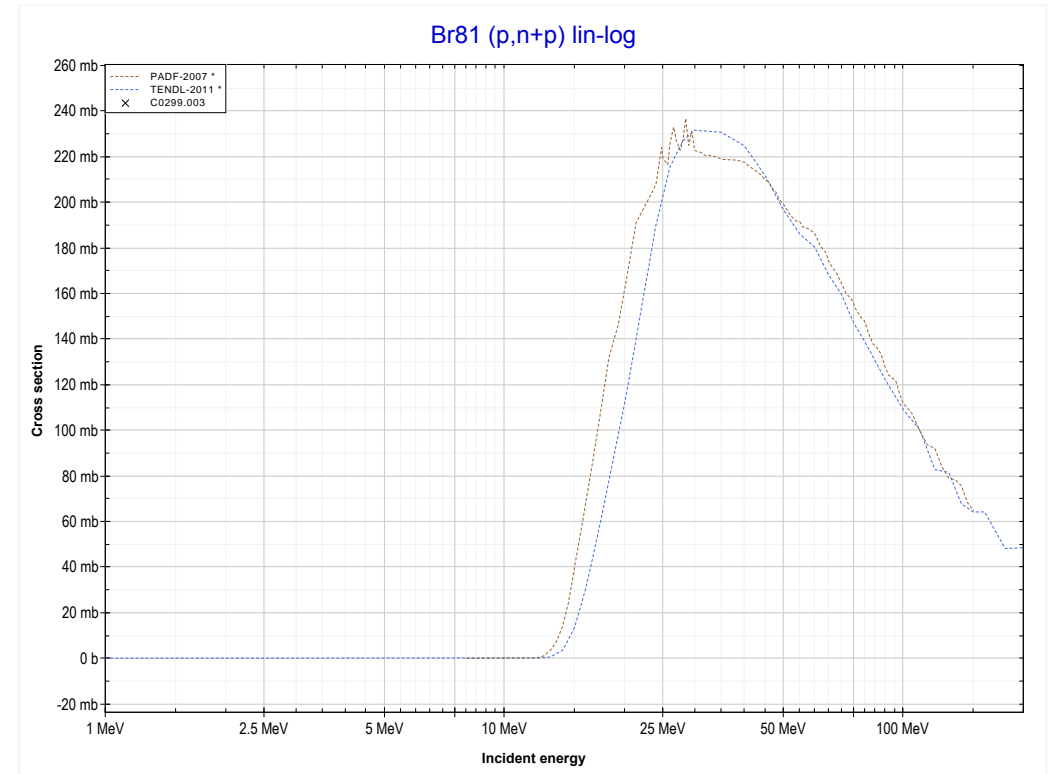
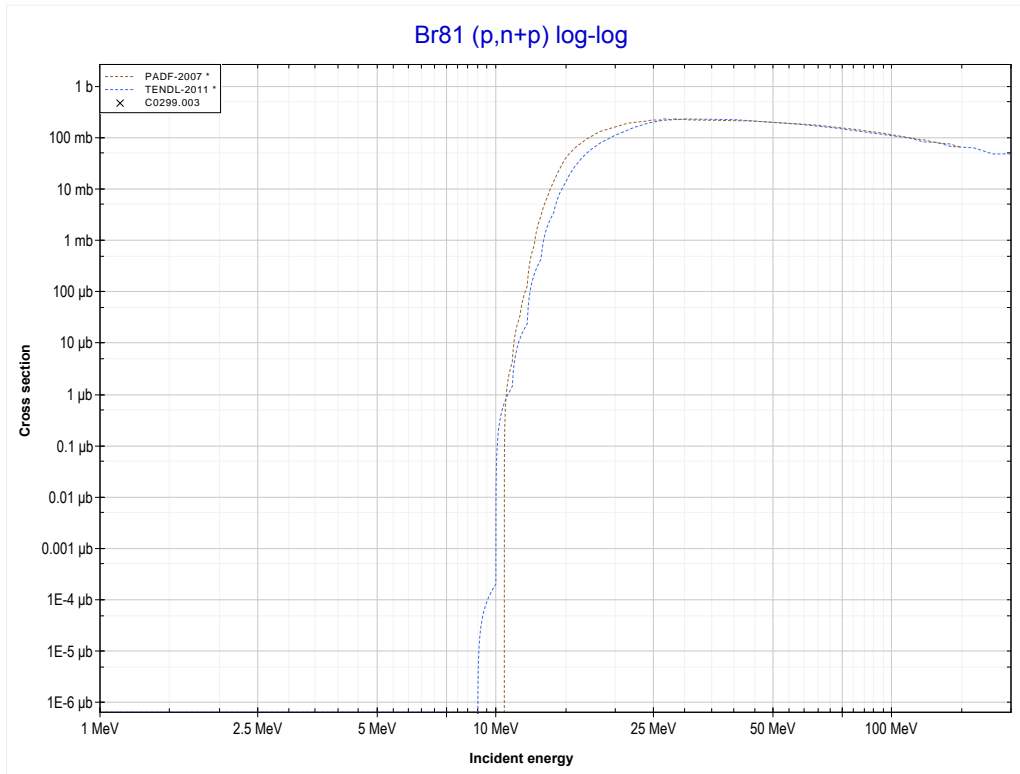
Reaction	Q-Value
Br81(p,n)Kr81	-1063.15 keV

<< 35-Br-79	<b>35-Br-81</b>	36-Kr-83 >>
<< MT4 (p,n)	<b>MT17 (p,3n) or MT5 (Kr79 production)</b>	MT28 (p,n+p) >>



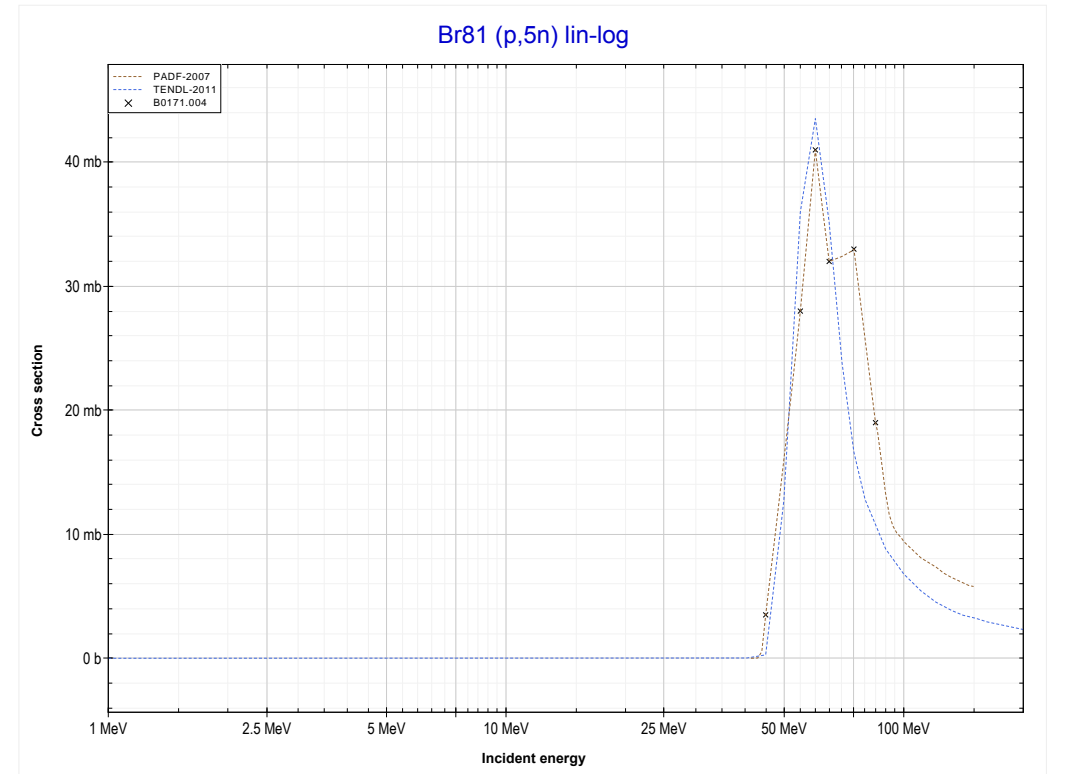
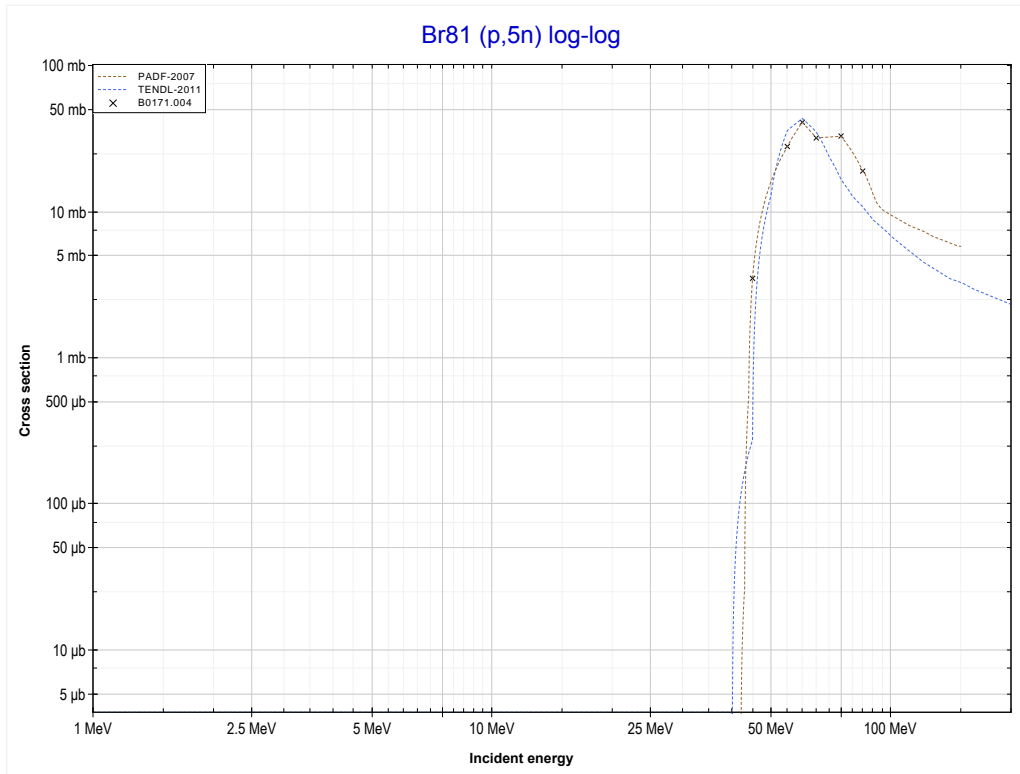
Reaction	Q-Value
Br81(p,3n)Kr79	-20456.78 keV

<< 35-Br-79	<b>35-Br-81</b>	36-Kr-78 >>
<< MT17 (p,3n)	<b>MT28 (p,n+p) or MT5 (Br80 production)</b>	MT152 (p,5n) >>



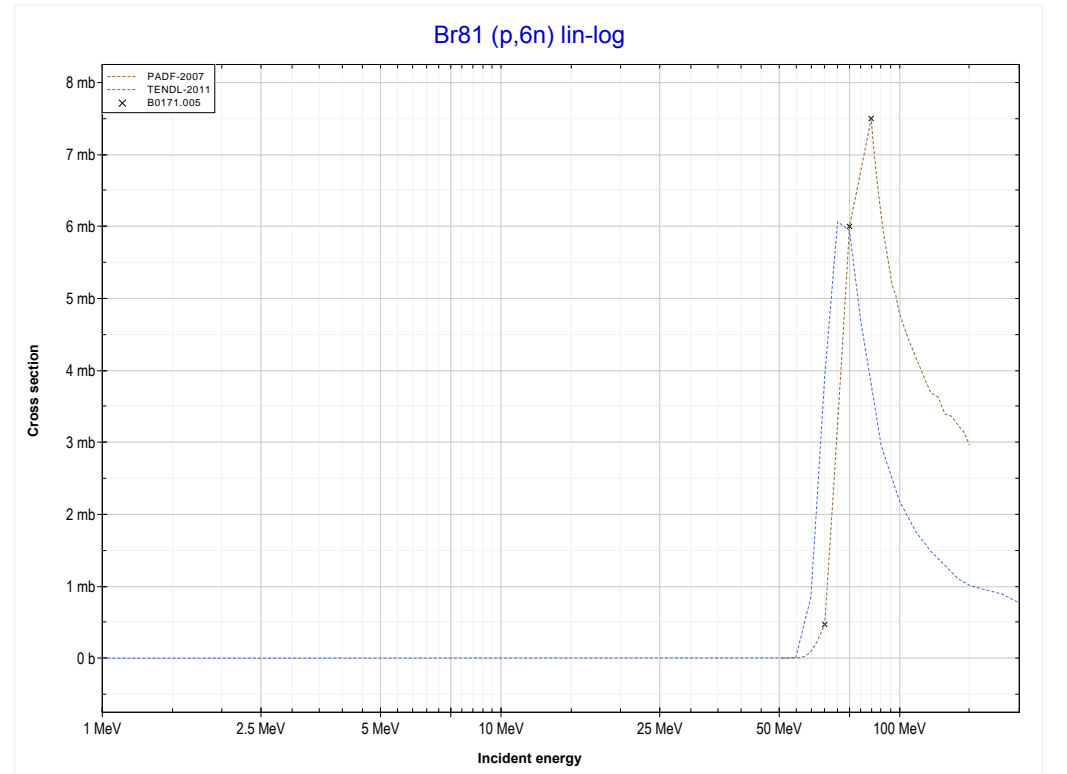
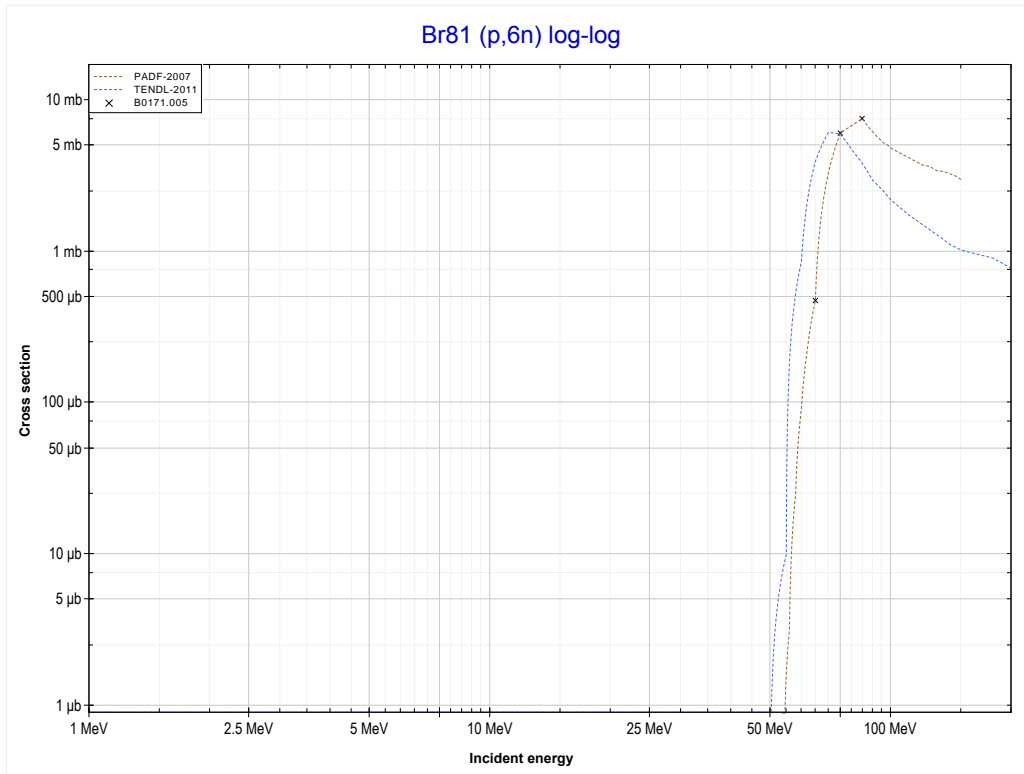
Reaction	Q-Value
Br81(p,d)Br80	-7932.05 keV
Br81(p,n+p)Br80	-10156.62 keV

<< 34-Se-80	<b>35-Br-81</b>	37-Rb-85 >>
<< MT28 (p,n+p)	<b>MT152 (p,5n) or MT5 (Kr77 production)</b>	MT153 (p,6n) >>



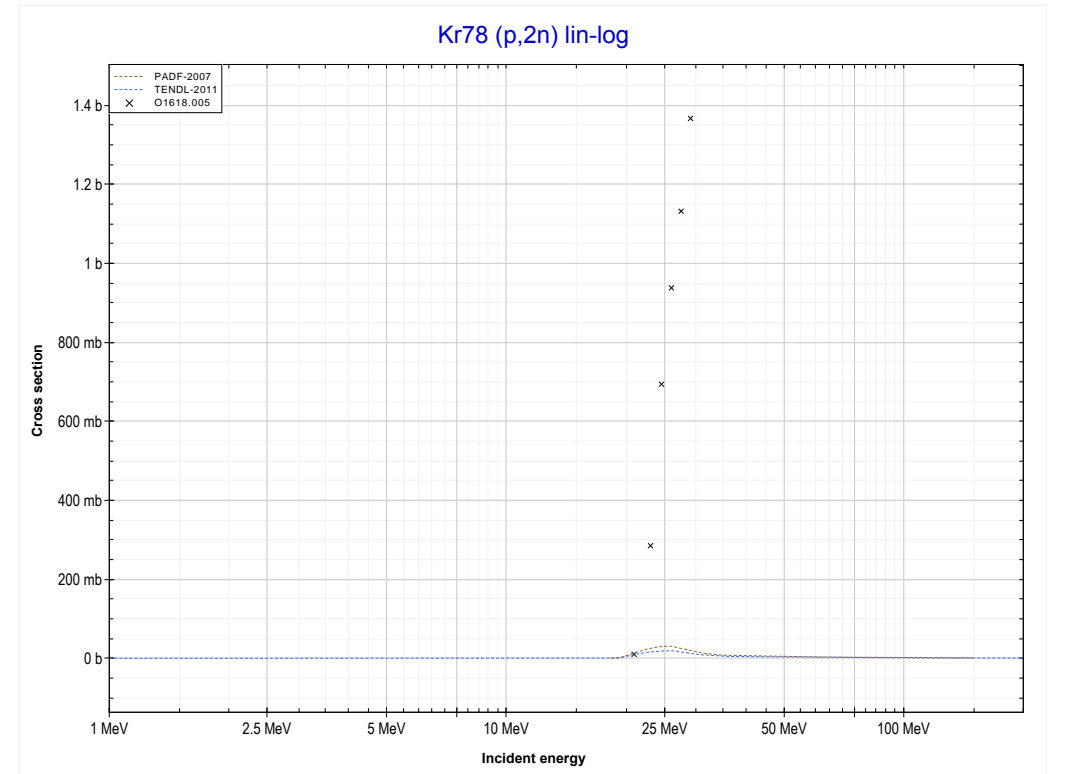
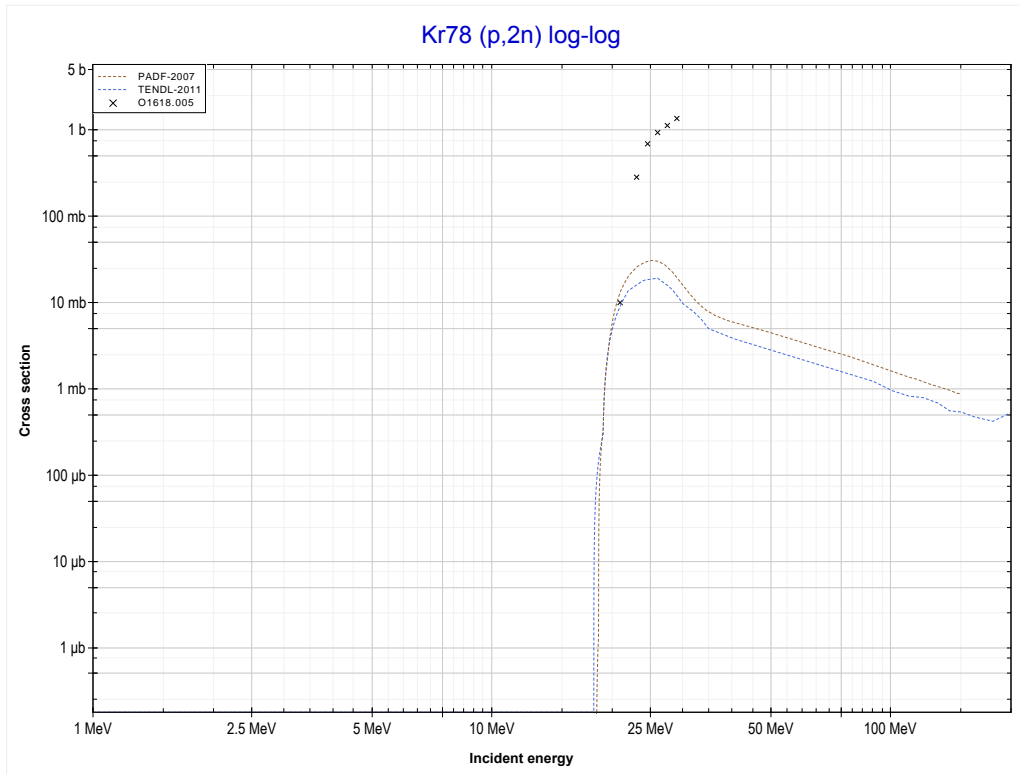
Reaction	Q-Value
Br81(p,5n)Kr77	-40873.02 keV

<< 31-Ga-71	<b>35-Br-81</b>	48-Cd-116 >>
<< MT152 (p,5n)	<b>MT153 (p,6n) or MT5 (Kr76 production)</b>	MT16 (p,2n) >>



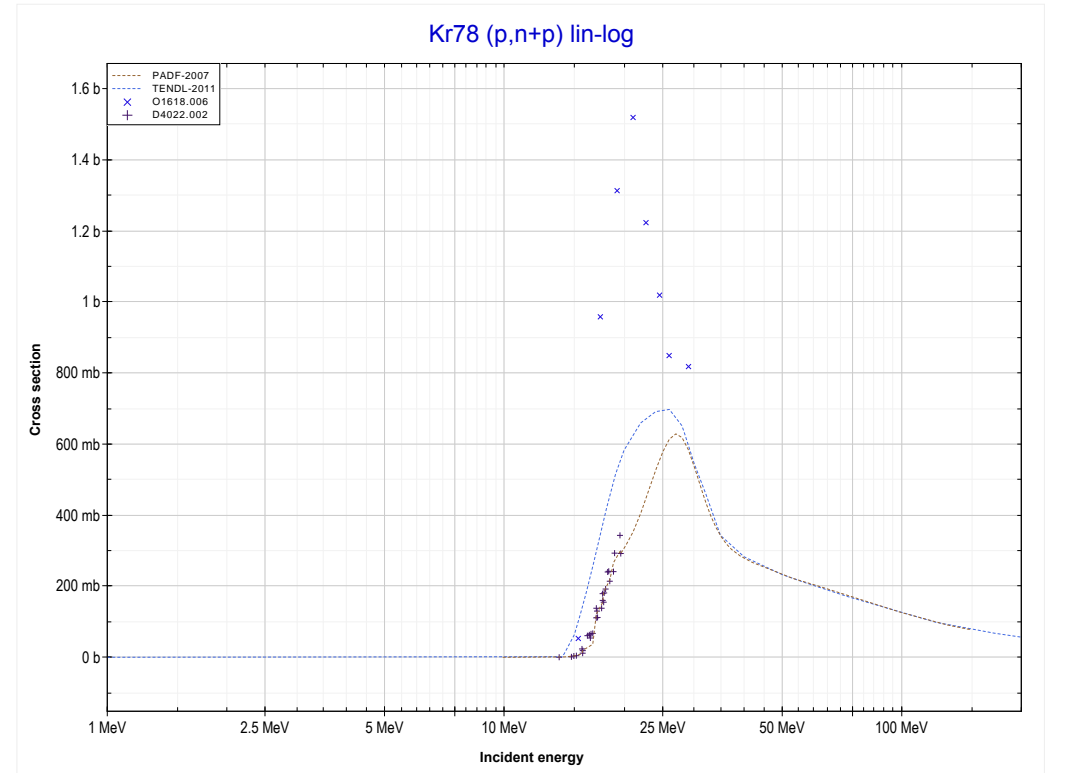
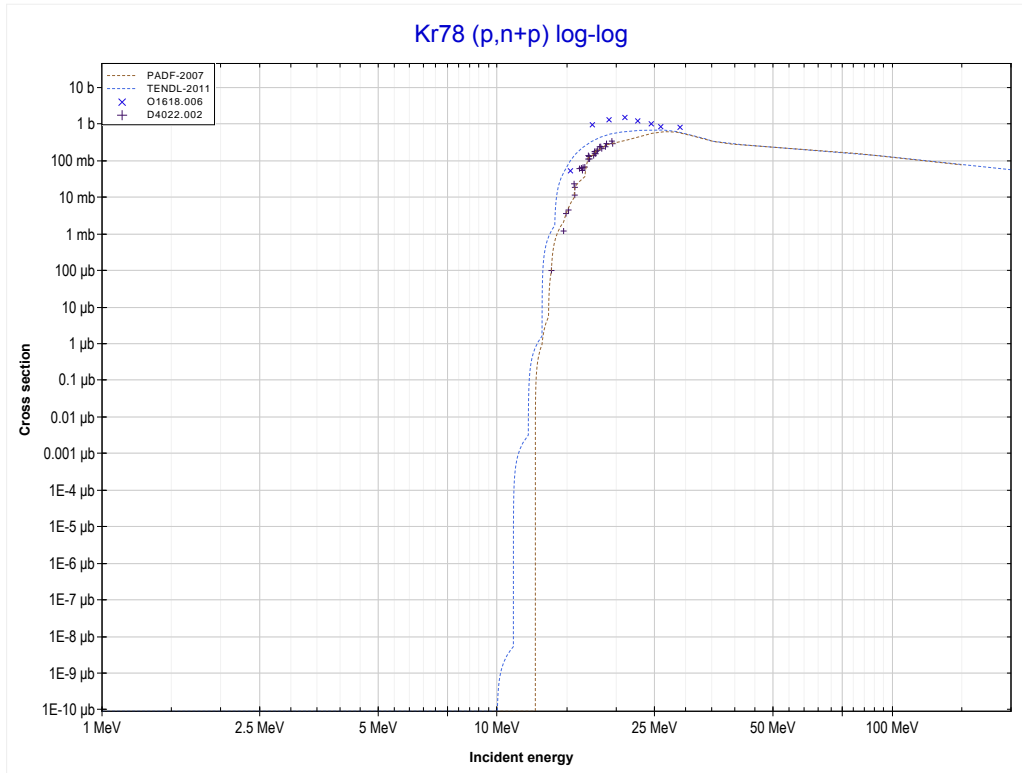
Reaction	Q-Value
Br81(p,6n)Kr76	-50099.73 keV

<< 34-Se-78	<b>36-Kr-78</b>	36-Kr-80 >>
<< MT153 (p,6n)	<b>MT16 (p,2n) or MT5 (Rb77 production)</b>	MT28 (p,n+p) >>



Reaction	Q-Value
Kr78(p,2n)Rb77	-18208.36 keV

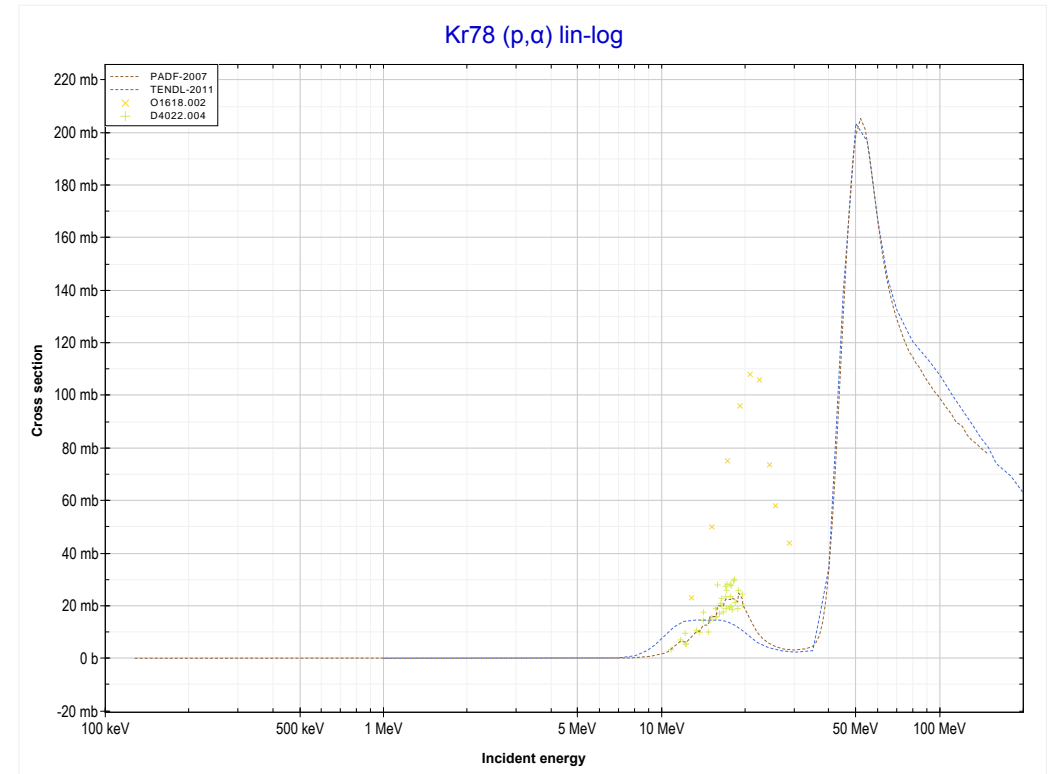
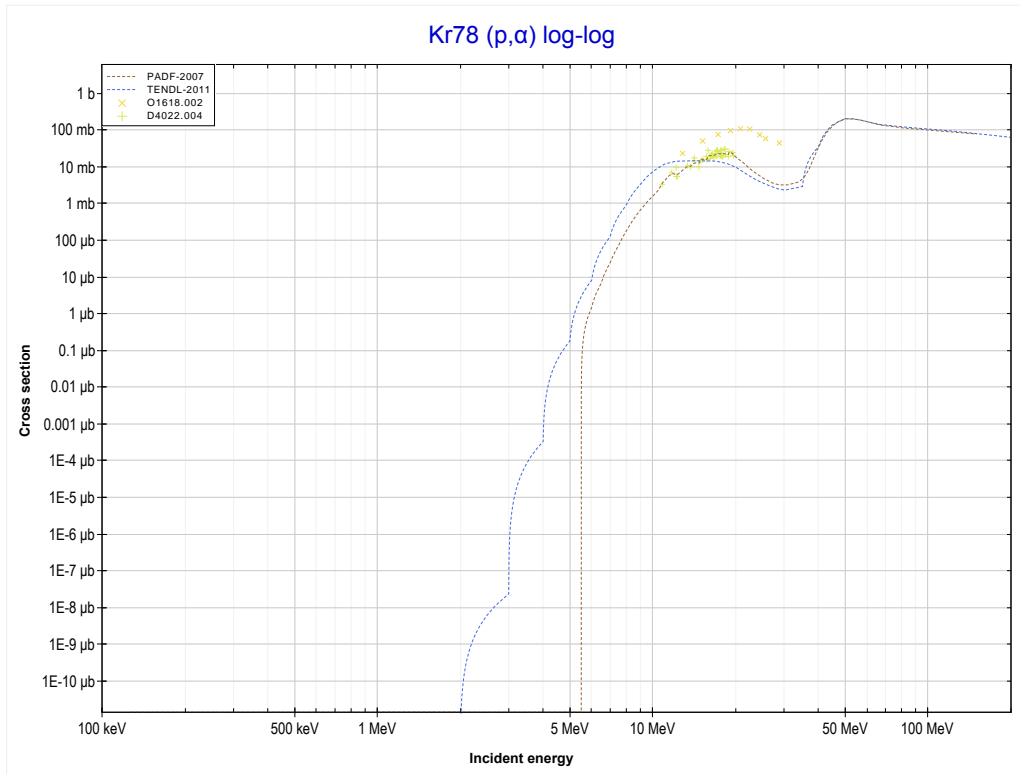
<< 35-Br-81	<b>36-Kr-78</b>	37-Rb-85 >>
<< MT16 (p,2n)	<b>MT28 (p,n+p) or MT5 (Kr77 production)</b>	MT107 (p, $\alpha$ ) >>



Reaction	Q-Value
Kr78(p,d)Kr77	-9857.05 keV
Kr78(p,n+p)Kr77	-12081.62 keV

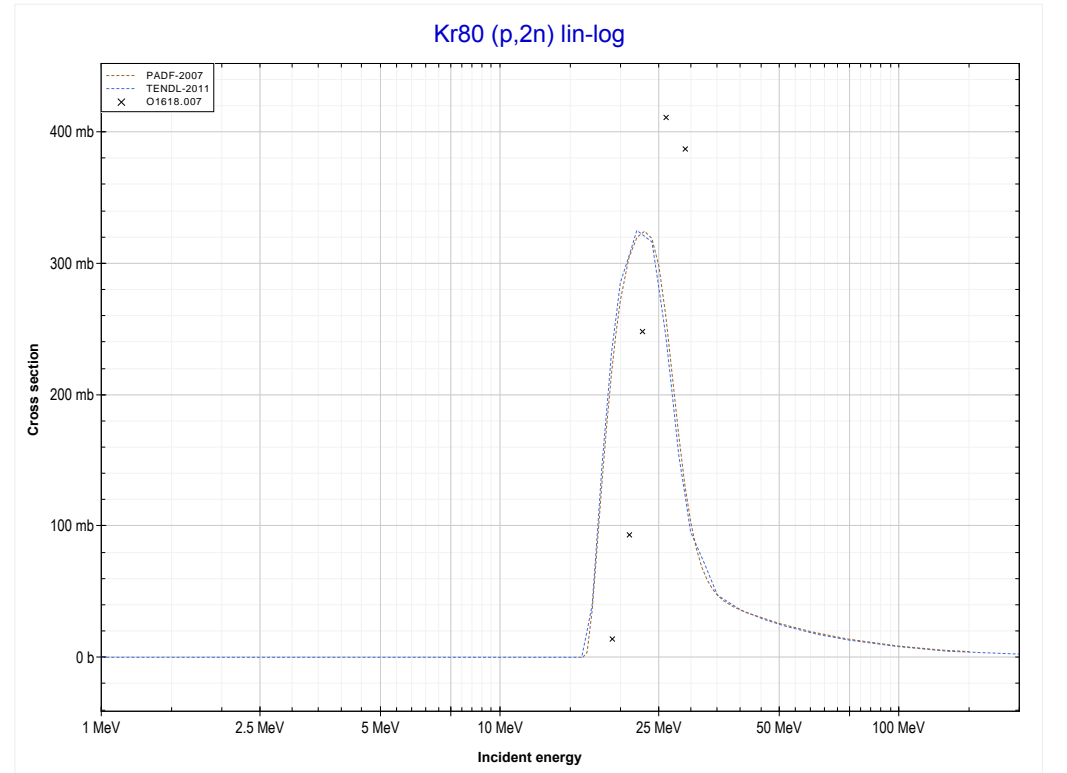
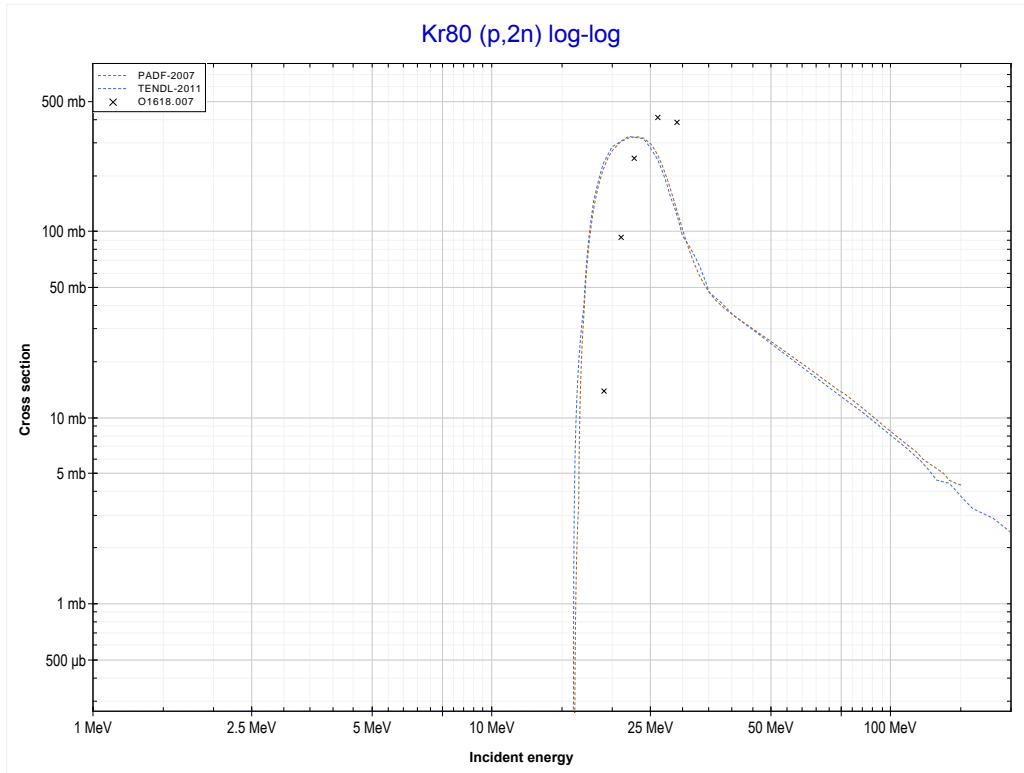


<< 34-Se-77	<b>36-Kr-78</b>	36-Kr-80 >>
<< MT28 (p,n+p)	<b>MT107 (p,<math>\alpha</math>) or MT5 (Br75 production)</b>	MT16 (p,2n) >>



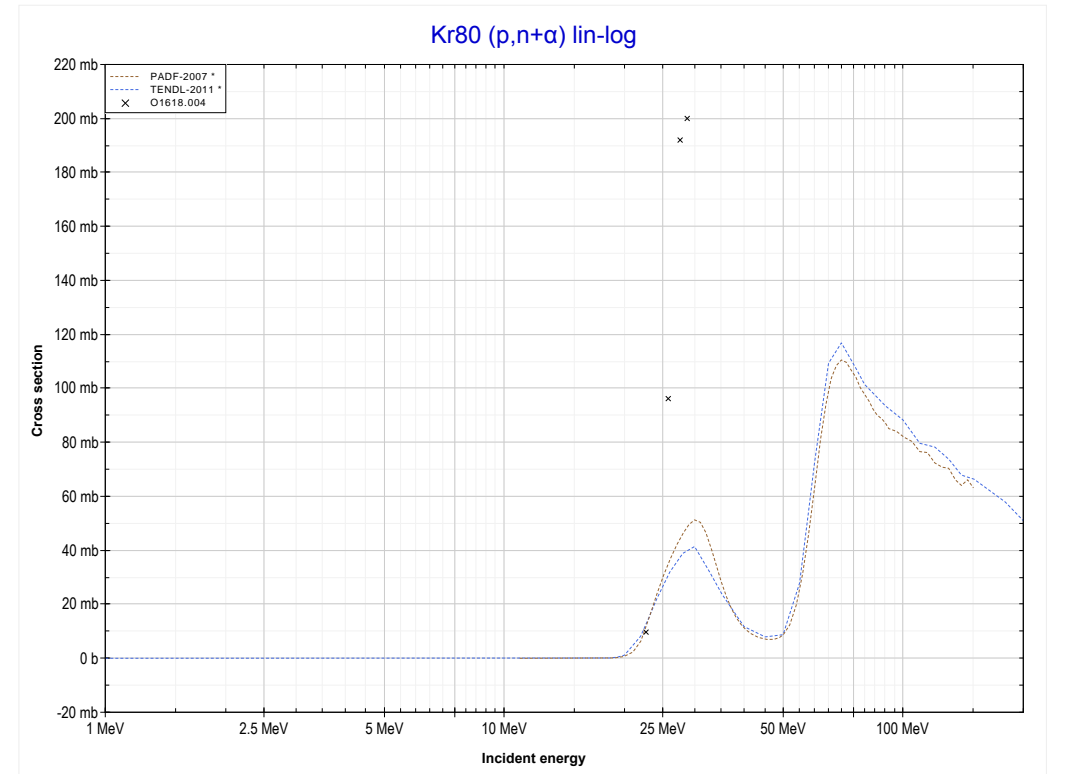
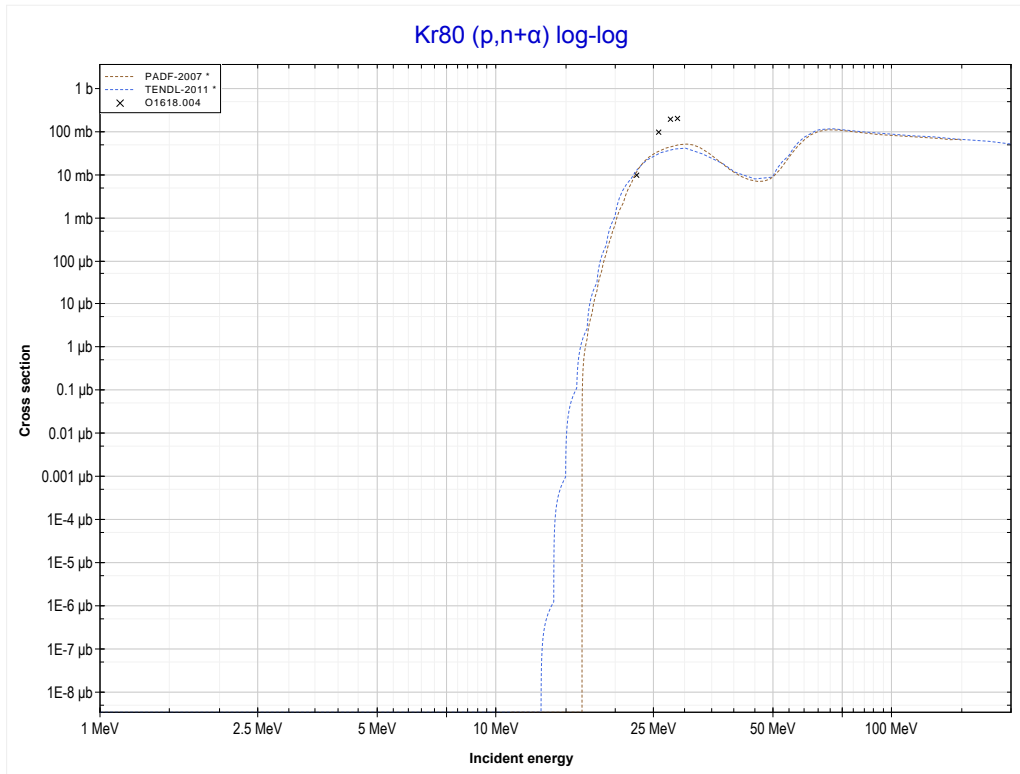
Reaction	Q-Value
Kr78(p, $\alpha$ )Br75	-176.65 keV
Kr78(p,p+t)Br75	-19990.51 keV
Kr78(p,n+He3)Br75	-20754.26 keV
Kr78(p,2d)Br75	-24023.17 keV
Kr78(p,n+p+d)Br75	-26247.74 keV
Kr78(p,2n+2p)Br75	-28472.30 keV

<< 36-Kr-78	<b>36-Kr-80</b>	36-Kr-82 >>
<< MT107 (p, $\alpha$ )	<b>MT16 (p,2n) or MT5 (Rb79 production)</b>	MT22 (p,n+ $\alpha$ ) >>



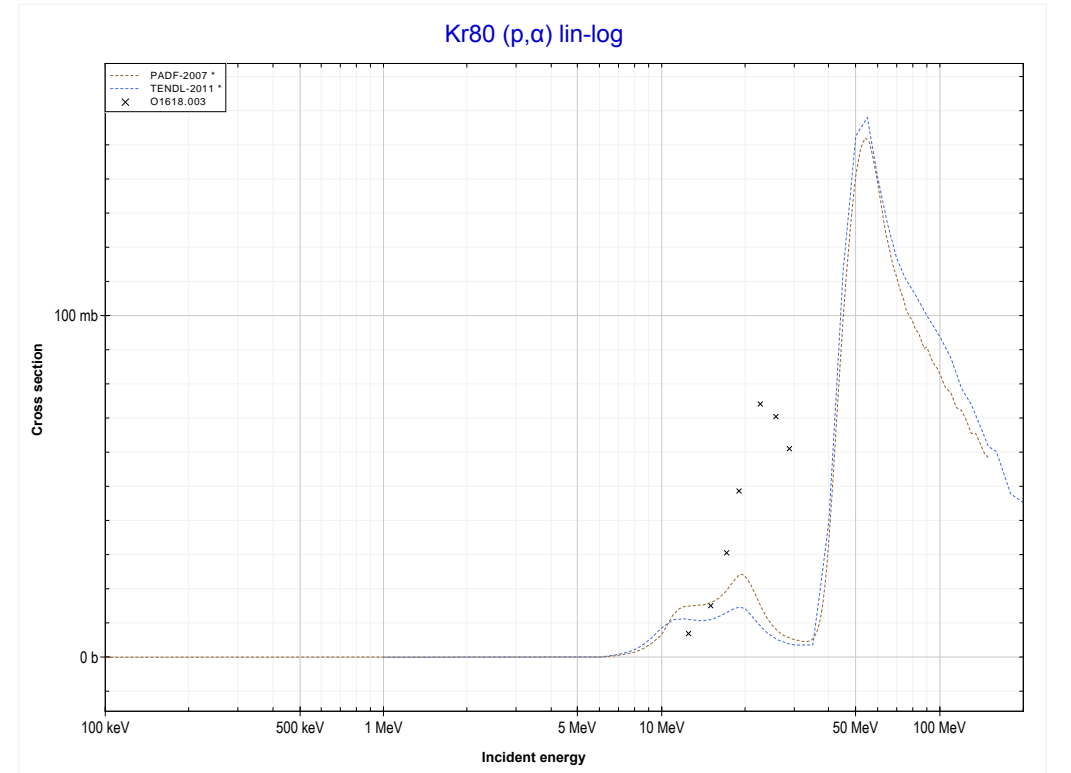
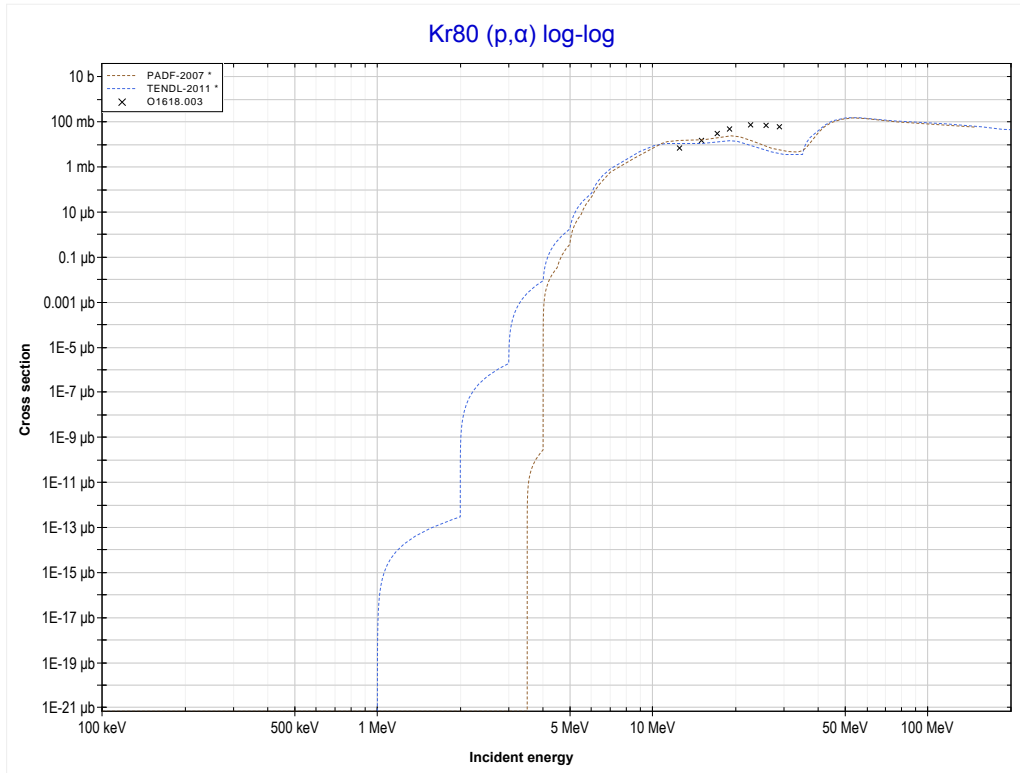
Reaction	Q-Value
Kr80(p,2n)Rb79	-15943.16 keV

<< 35-Br-79	<b>36-Kr-80</b>	38-Sr-86 >>
<< MT16 (p,2n)	<b>MT22 (p,n+α) or MT5 (Br76 production)</b>	MT107 (p,α) >>



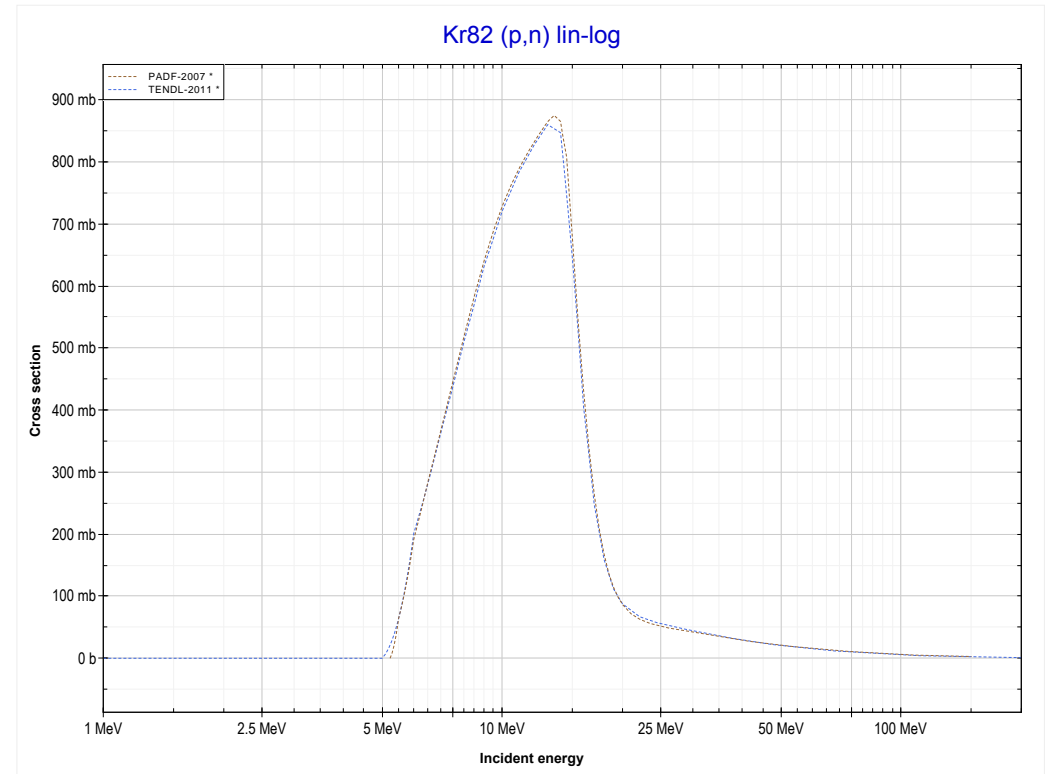
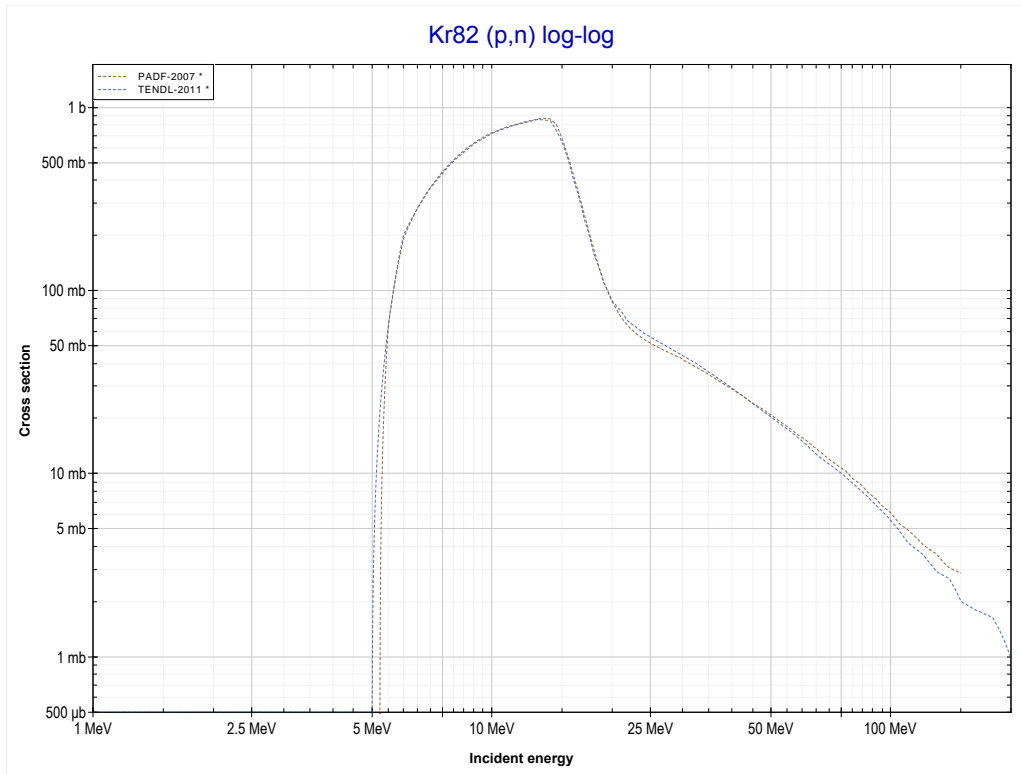
Reaction	Q-Value
Kr80(p,n+α)Br76	-10810.76 keV
Kr80(p,d+t)Br76	-28400.06 keV
Kr80(p,n+p+t)Br76	-30624.62 keV
Kr80(p,2n+He3)Br76	-31388.38 keV
Kr80(p,n+2d)Br76	-34657.29 keV
Kr80(p,2n+p+d)Br76	-36881.86 keV
Kr80(p,3n+2p)Br76	-39106.42 keV

<< 36-Kr-78	<b>36-Kr-80</b>	38-Sr-86 >>
<< MT22 (p,n+α)	<b>MT107 (p,α) or MT5 (Br77 production)</b>	MT4 (p,n) >>



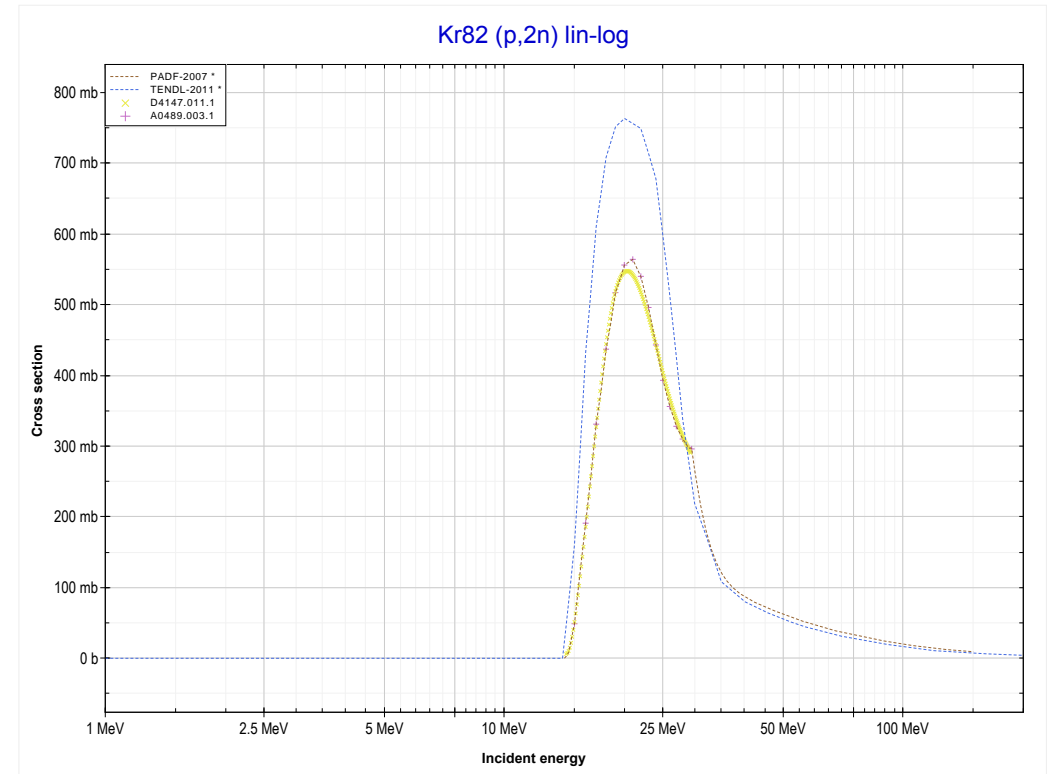
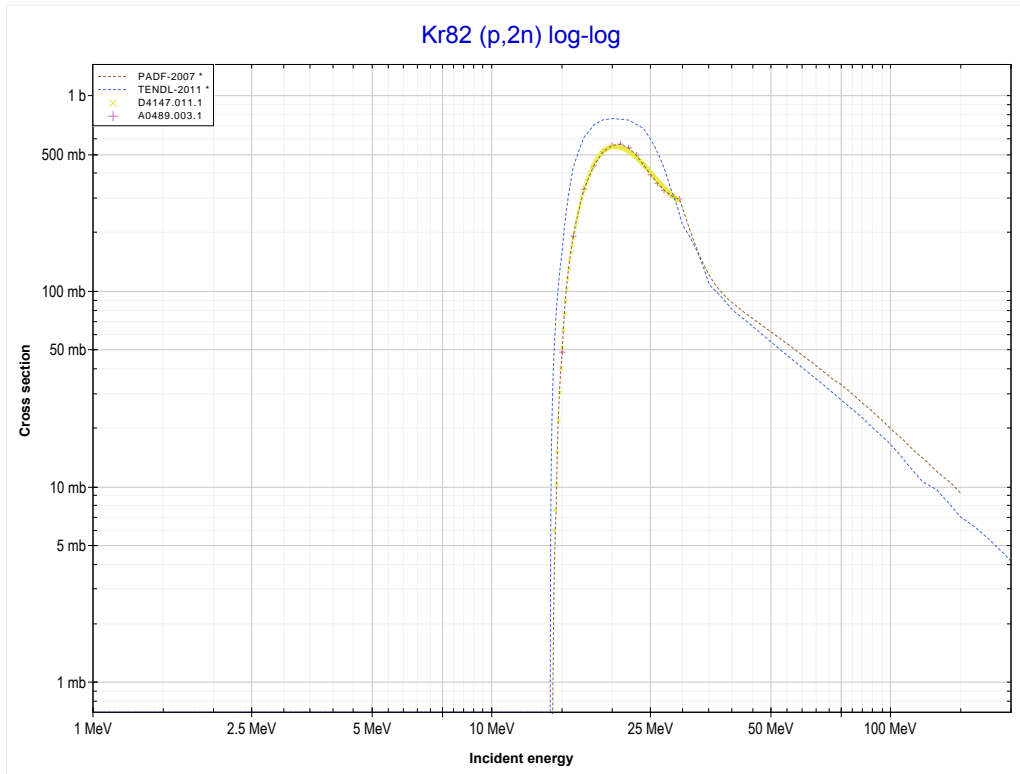
Reaction	Q-Value
Kr80(p,α)Br77	206.55 keV
Kr80(p,p+t)Br77	-19607.31 keV
Kr80(p,n+He3)Br77	-20371.06 keV
Kr80(p,2d)Br77	-23639.97 keV
Kr80(p,n+p+d)Br77	-25864.54 keV
Kr80(p,2n+2p)Br77	-28089.10 keV

<< 35-Br-81	<b>36-Kr-82</b>	36-Kr-83 >>
<< MT107 (p, $\alpha$ )	<b>MT4 (p,n) or MT5 (Rb82 production)</b>	MT16 (p,2n) >>



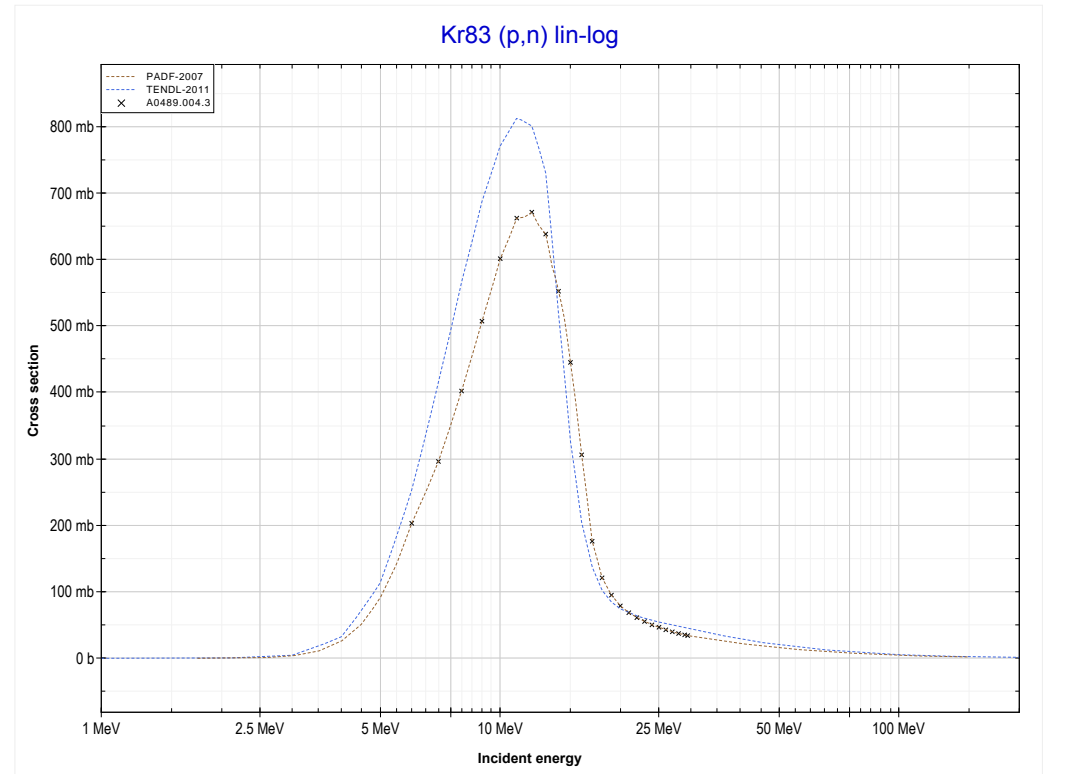
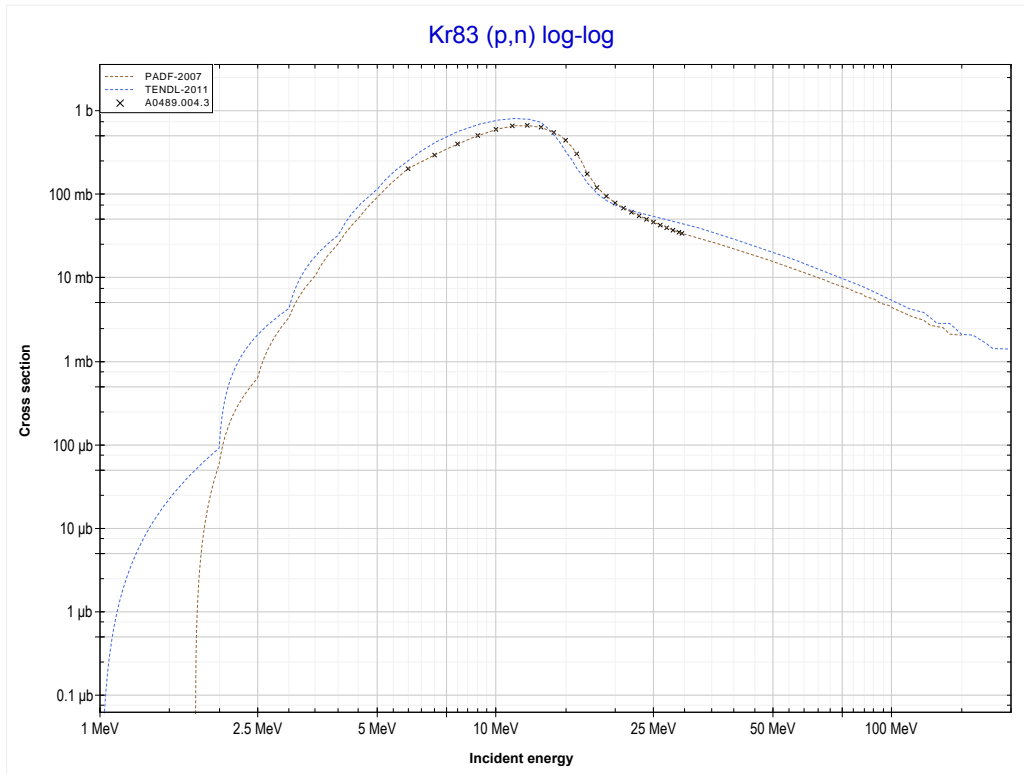
Reaction	Q-Value
Kr82(p,n)Rb82	-5183.65 keV

<< 36-Kr-80	<b>36-Kr-82</b>	36-Kr-83 >>
<< MT4 (p,n)	<b>MT16 (p,2n) or MT5 (Rb81 production)</b>	MT4 (p,n) >>



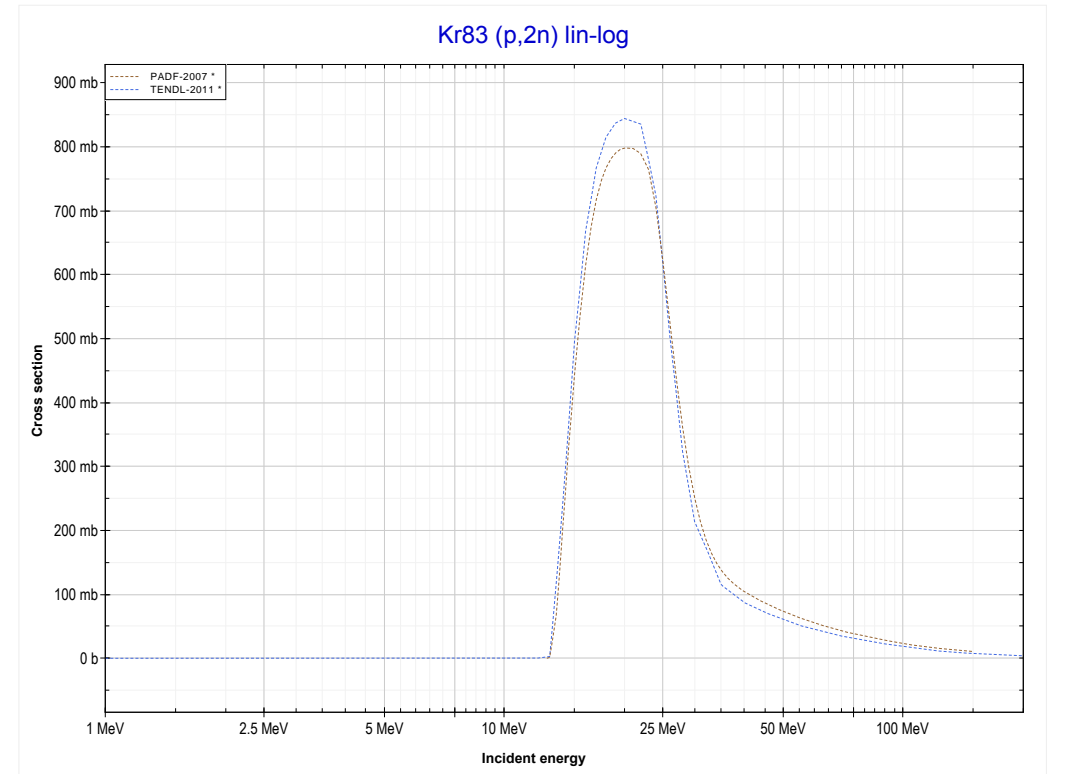
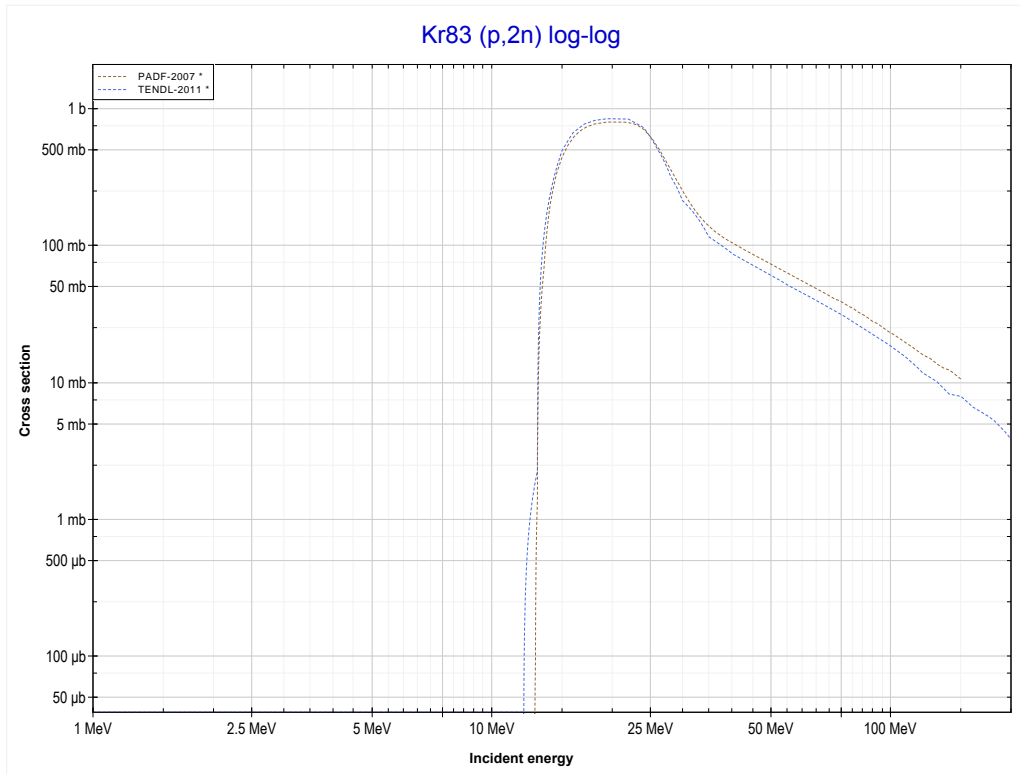
Reaction	Q-Value
Kr82(p,2n)Rb81	-13988.16 keV

<< 36-Kr-82	<b>36-Kr-83</b>	36-Kr-84 >>
<< MT16 (p,2n)	<b>MT4 (p,n) or MT5 (Rb83 production)</b>	MT16 (p,2n) >>



Reaction	Q-Value
Kr83(p,n)Rb83	-1689.05 keV

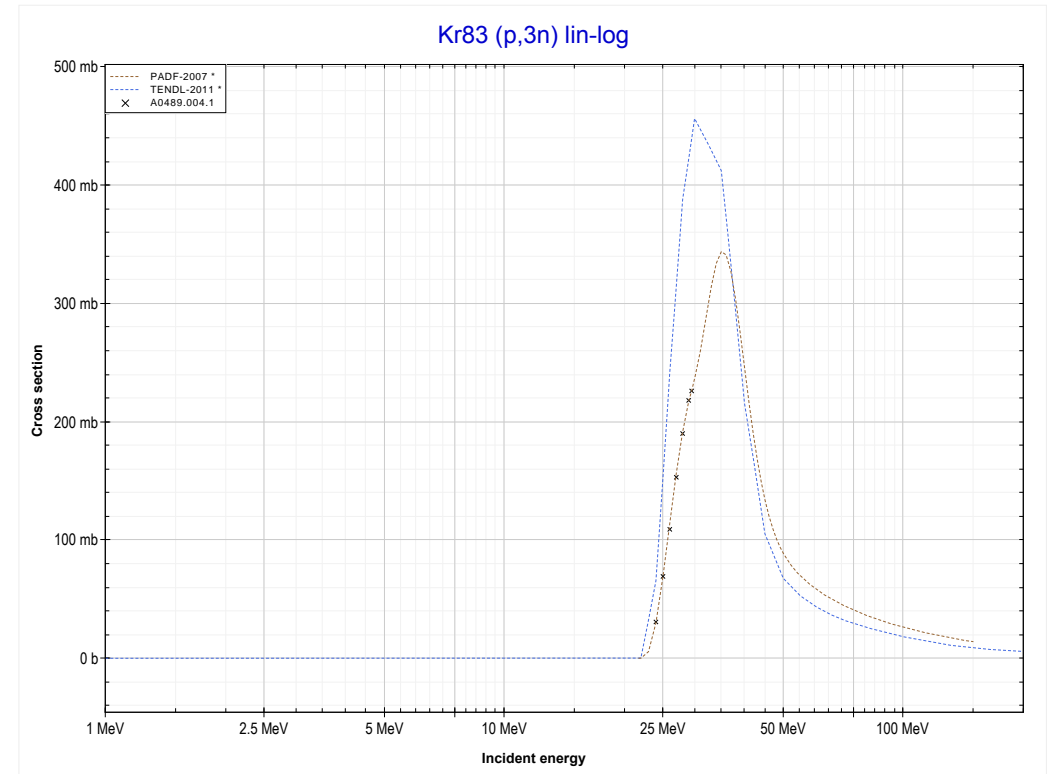
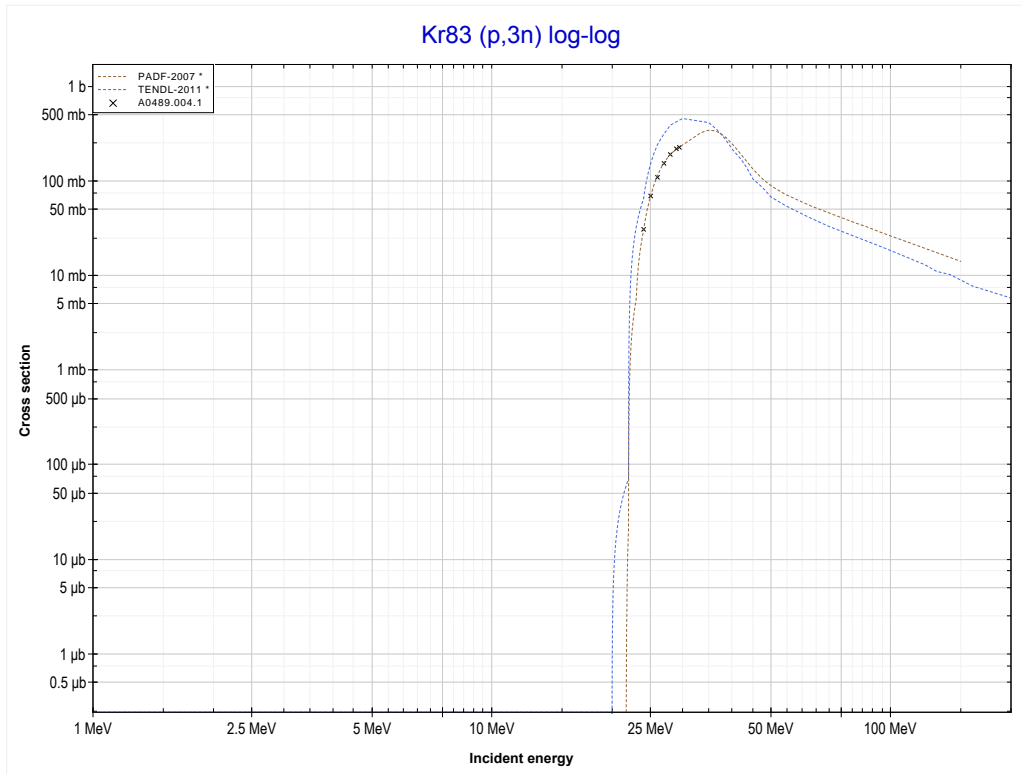
<< 36-Kr-82	<b>36-Kr-83</b>	36-Kr-84 >>
<< MT4 (p,n)	<b>MT16 (p,2n) or MT5 (Rb82 production)</b>	MT17 (p,3n) >>



Reaction	Q-Value
Kr83(p,2n)Rb82	-12647.16 keV

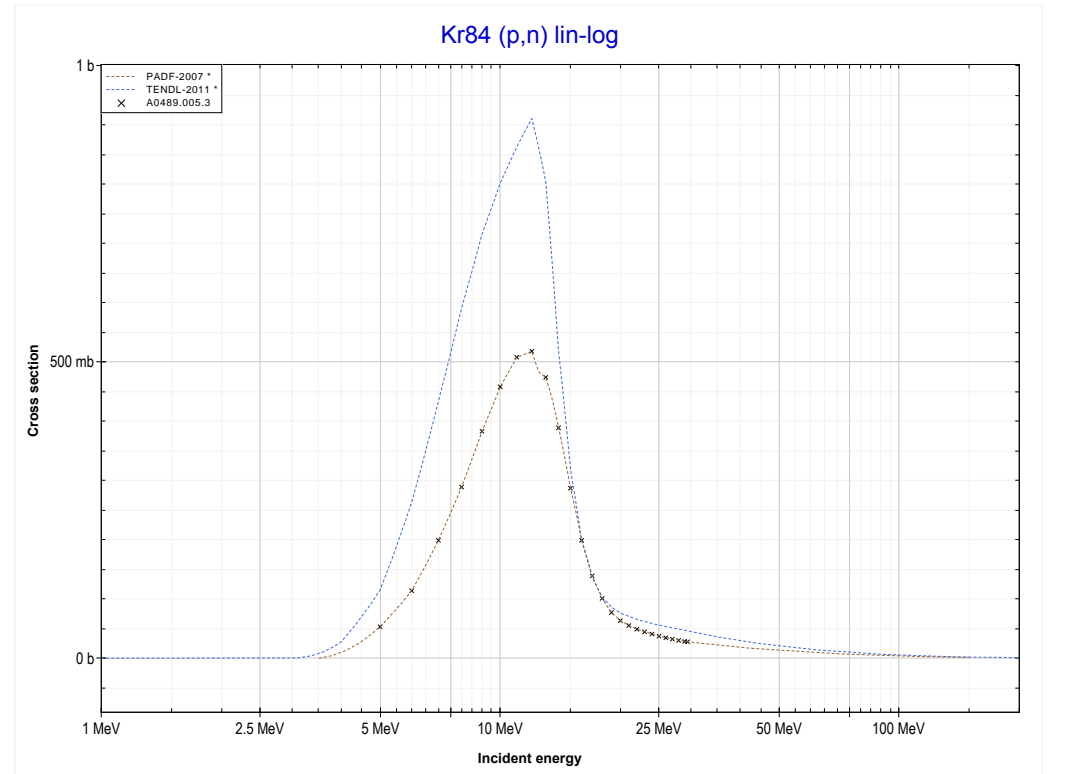
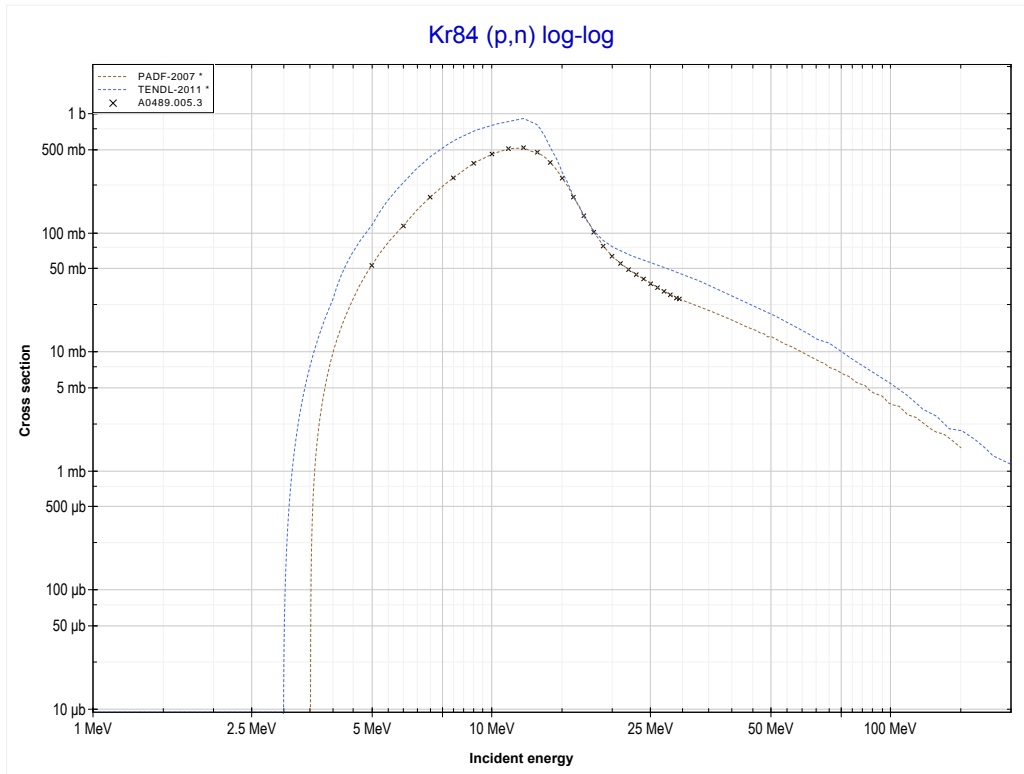


<< 35-Br-81	<b>36-Kr-83</b>	36-Kr-84 >>
<< MT16 (p,2n)	<b>MT17 (p,3n) or MT5 (Rb81 production)</b>	MT4 (p,n) >>



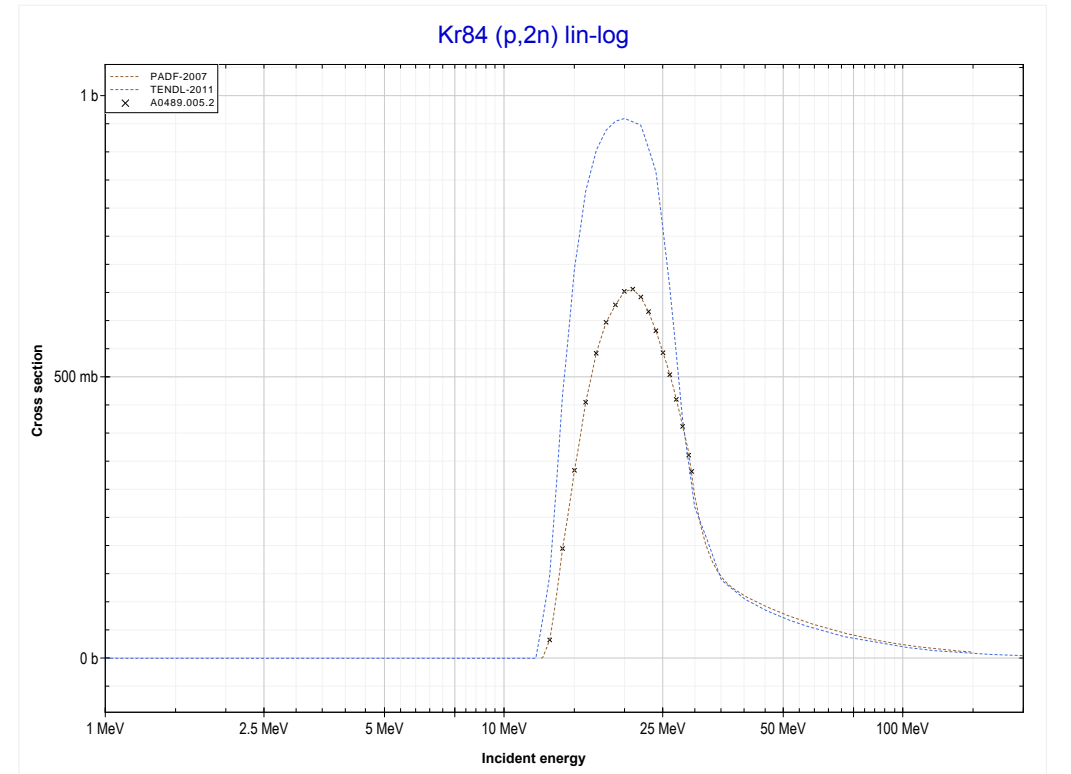
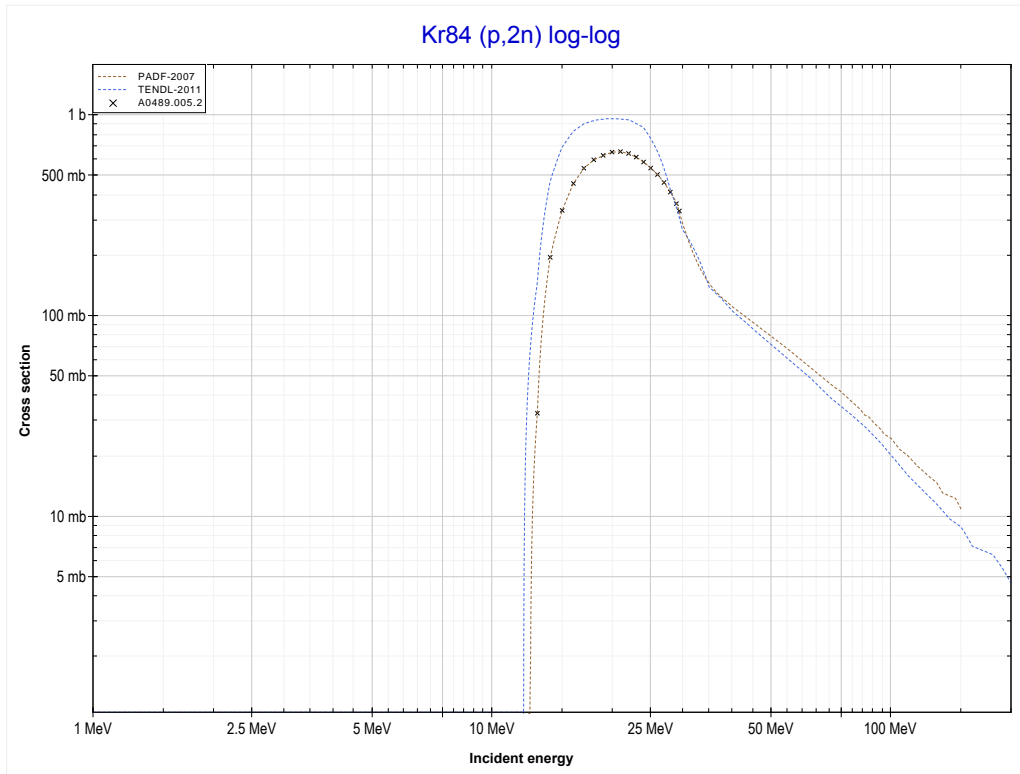
Reaction	Q-Value
Kr83(p,3n)Rb81	-21451.68 keV

<< 36-Kr-83	<b>36-Kr-84</b>	37-Rb-85 >>
<< MT17 (p,3n)	<b>MT4 (p,n) or MT5 (Rb84 production)</b>	MT16 (p,2n) >>



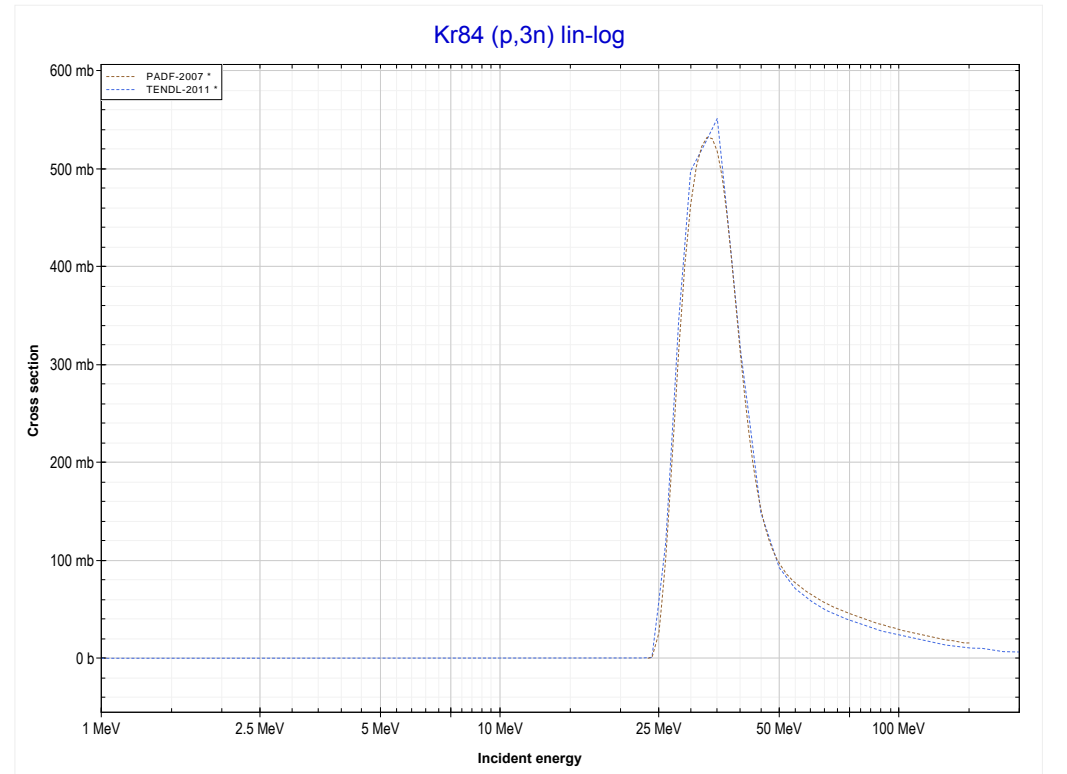
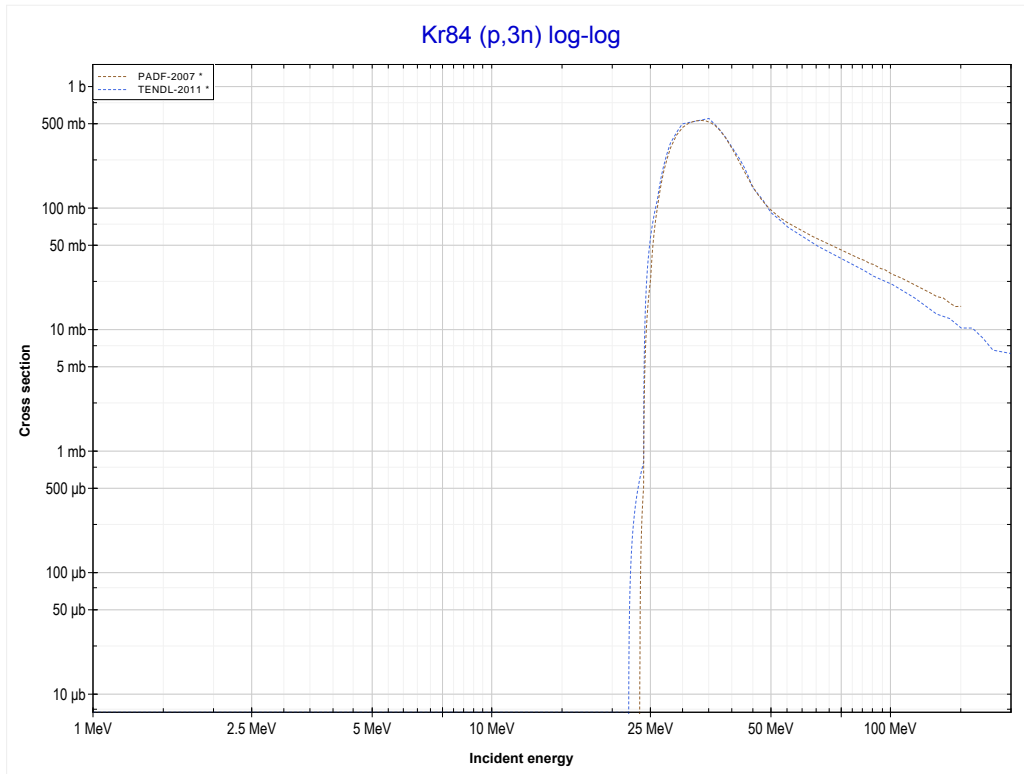
Reaction	Q-Value
Kr84(p,n)Rb84	-3463.35 keV

<< 36-Kr-83	<b>36-Kr-84</b>	38-Sr-86 >>
<< MT4 (p,n)	<b>MT16 (p,2n) or MT5 (Rb83 production)</b>	MT17 (p,3n) >>



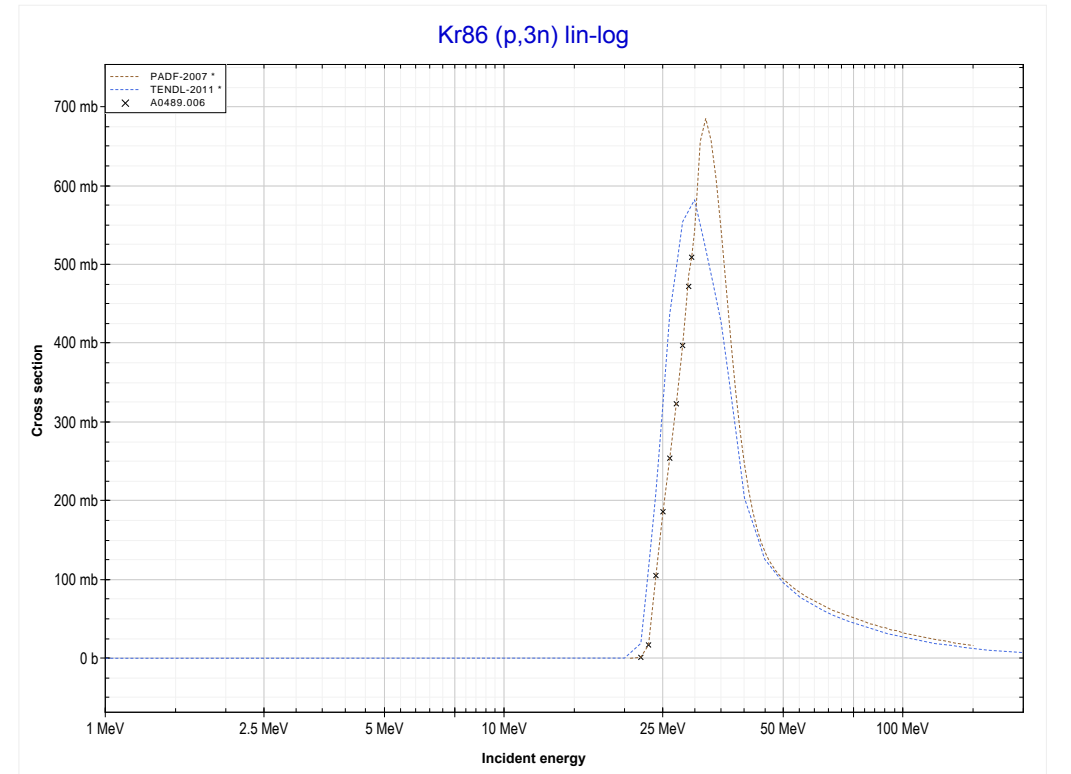
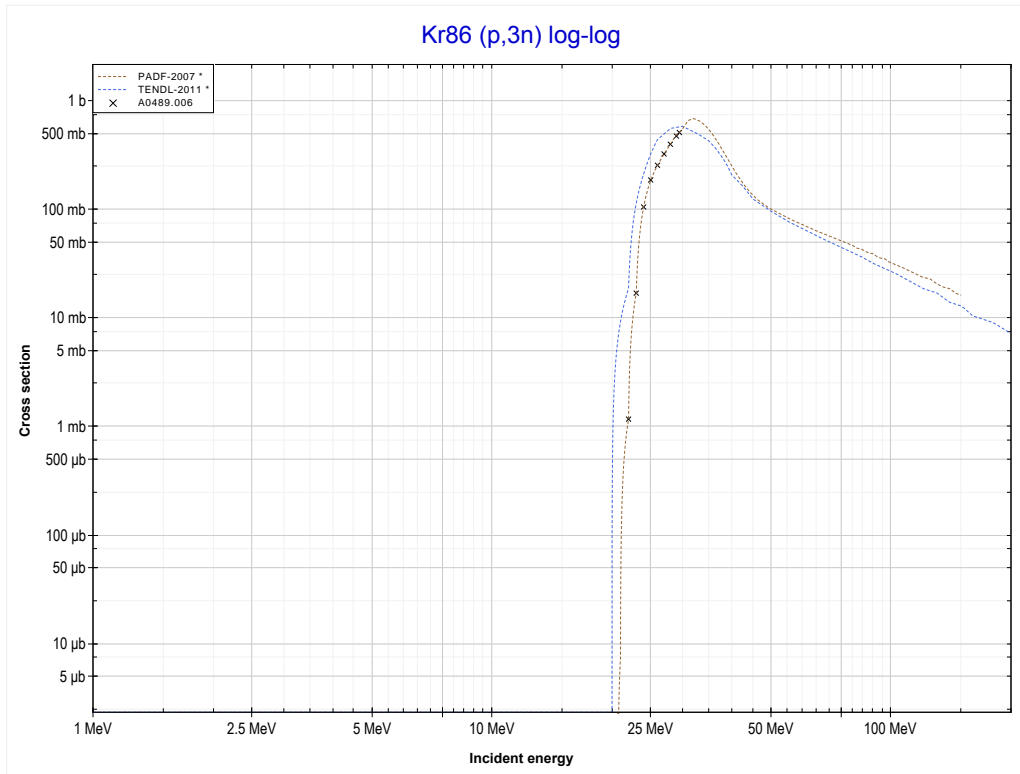
Reaction	Q-Value
Kr84(p,2n)Rb83	-12209.66 keV

<< 36-Kr-83	<b>36-Kr-84</b>	36-Kr-86 >>
<< MT16 (p,2n)	<b>MT17 (p,3n) or MT5 (Rb82 production)</b>	MT17 (p,3n) >>



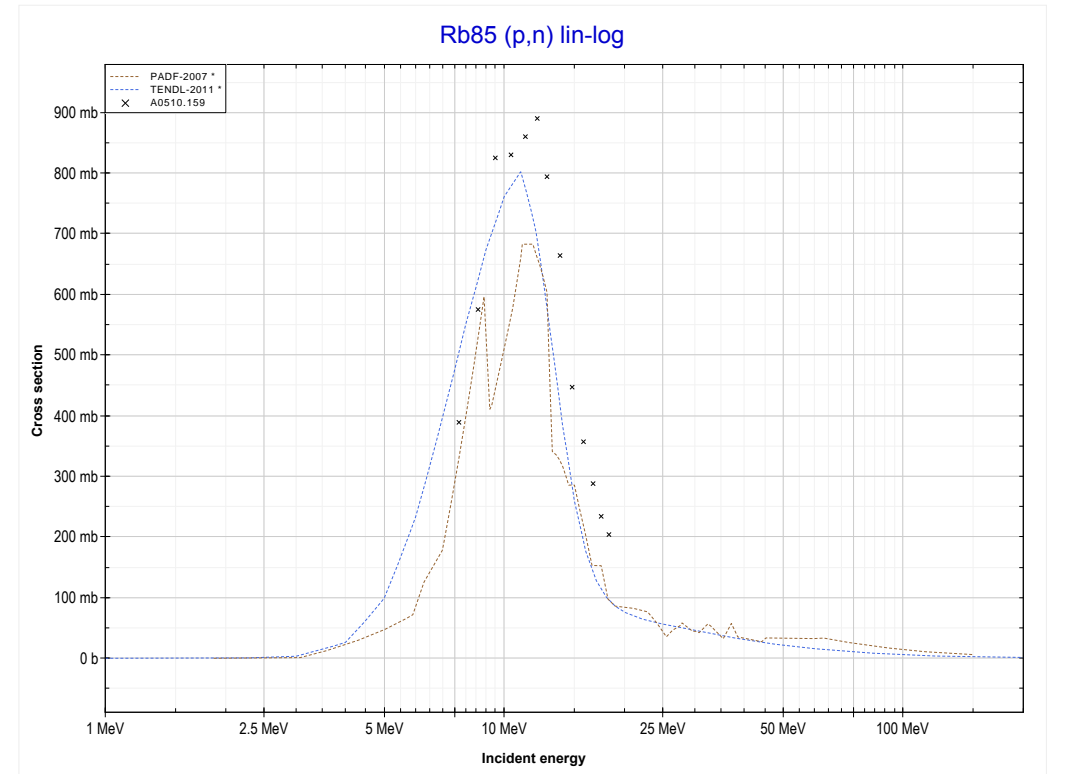
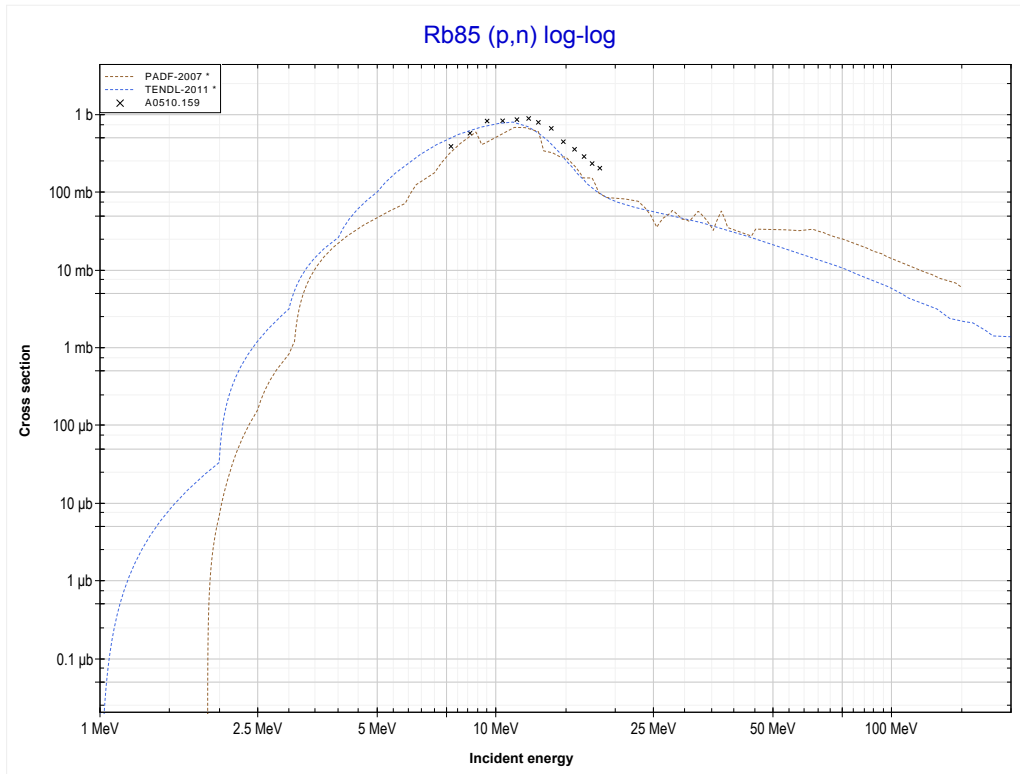
Reaction	Q-Value
Kr84(p,3n)Rb82	-23167.78 keV

<< 36-Kr-84	<b>36-Kr-86</b>	37-Rb-85 >>
<< MT17 (p,3n)	<b>MT17 (p,3n) or MT5 (Rb84 production)</b>	MT4 (p,n) >>



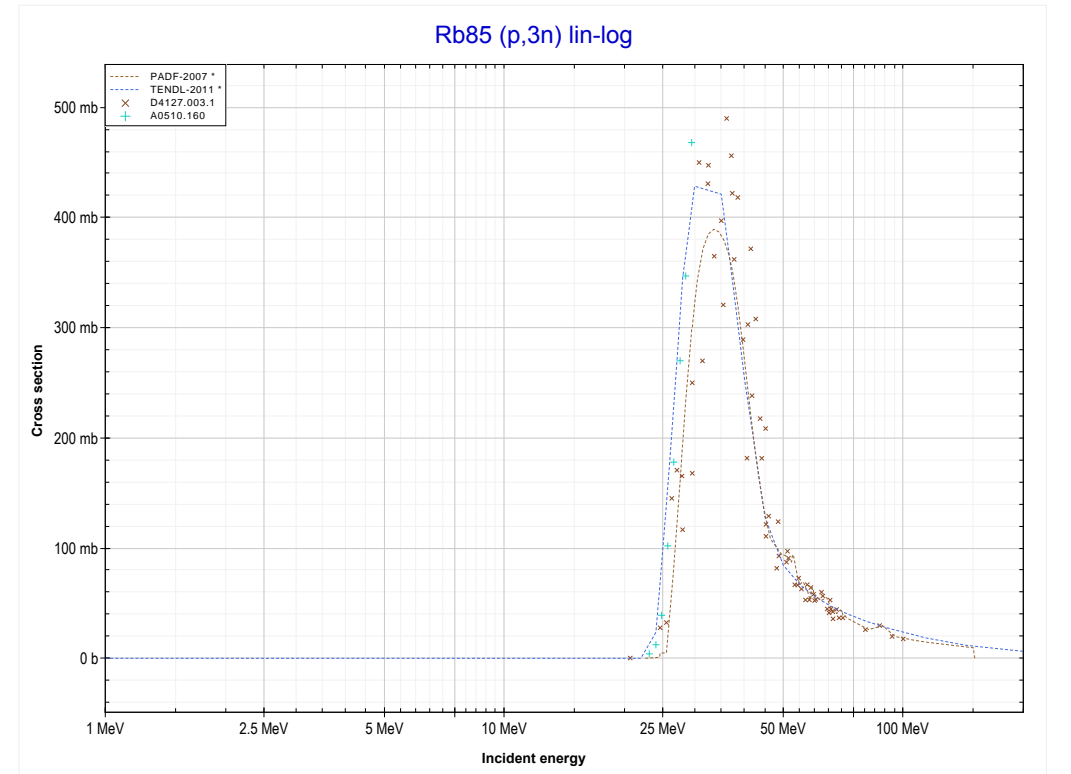
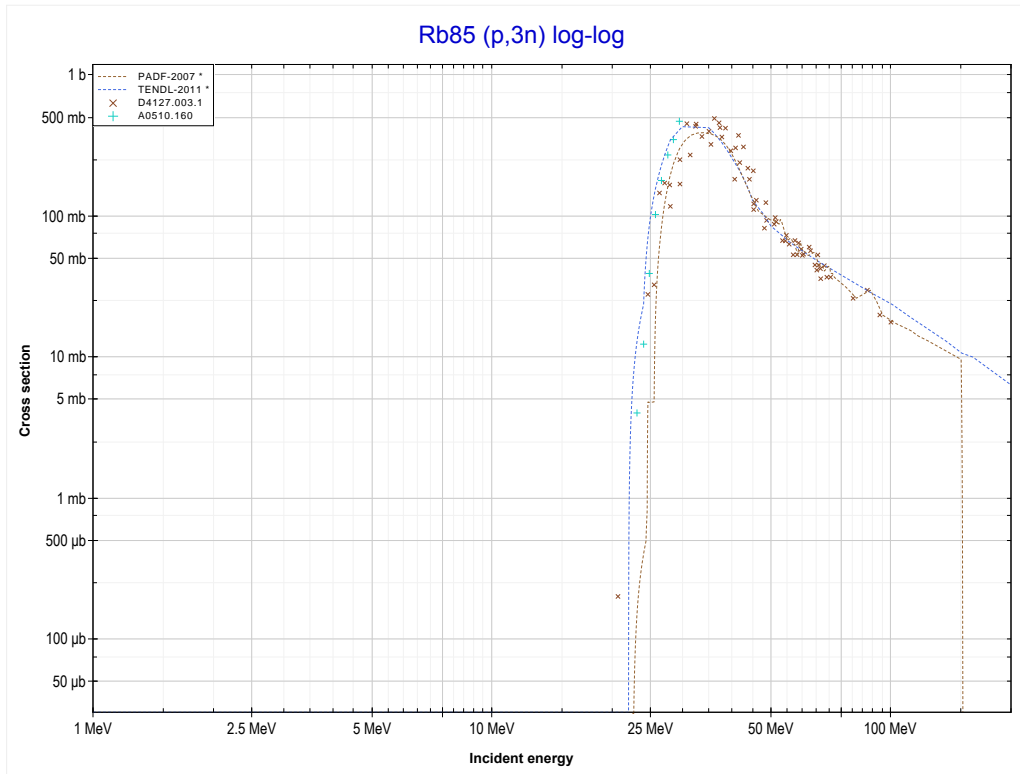
Reaction	Q-Value
Kr86(p,3n)Rb84	-20440.55 keV

<< 36-Kr-84	<b>37-Rb-85</b>	37-Rb-87 >>
<< MT17 (p,3n)	<b>MT4 (p,n) or MT5 (Sr85 production)</b>	MT17 (p,3n) >>



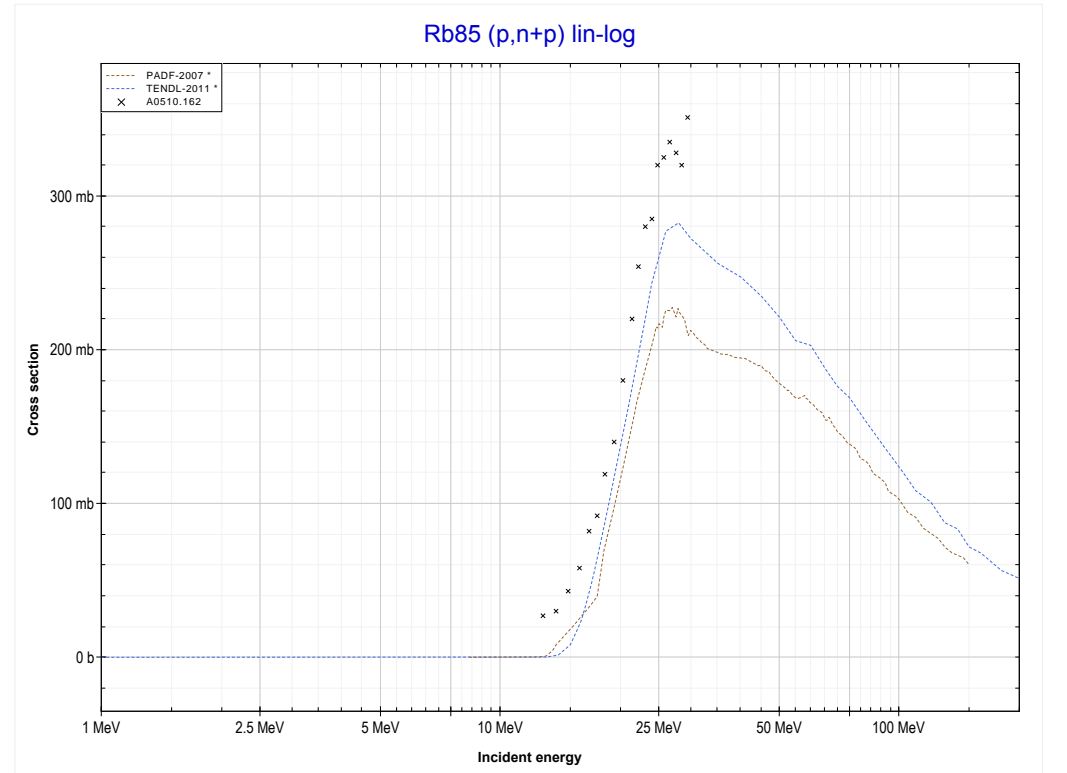
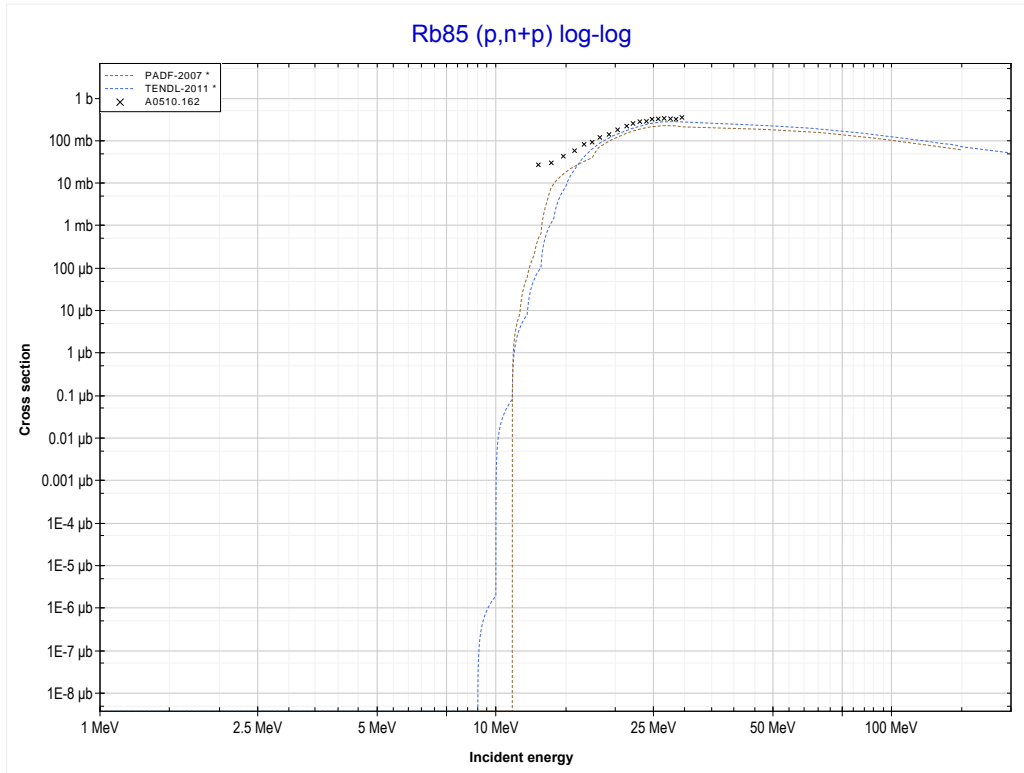
Reaction	Q-Value
Rb85(p,n)Sr85	-1847.08 keV

<< 36-Kr-86	<b>37-Rb-85</b>	38-Sr-88 >>
<< MT4 (p,n)	<b>MT17 (p,3n) or MT5 (Sr83 production)</b>	MT28 (p,n+p) >>



<b>Reaction</b>	<b>Q-Value</b>
Rb85(p,3n)Sr83	-22297.31 keV

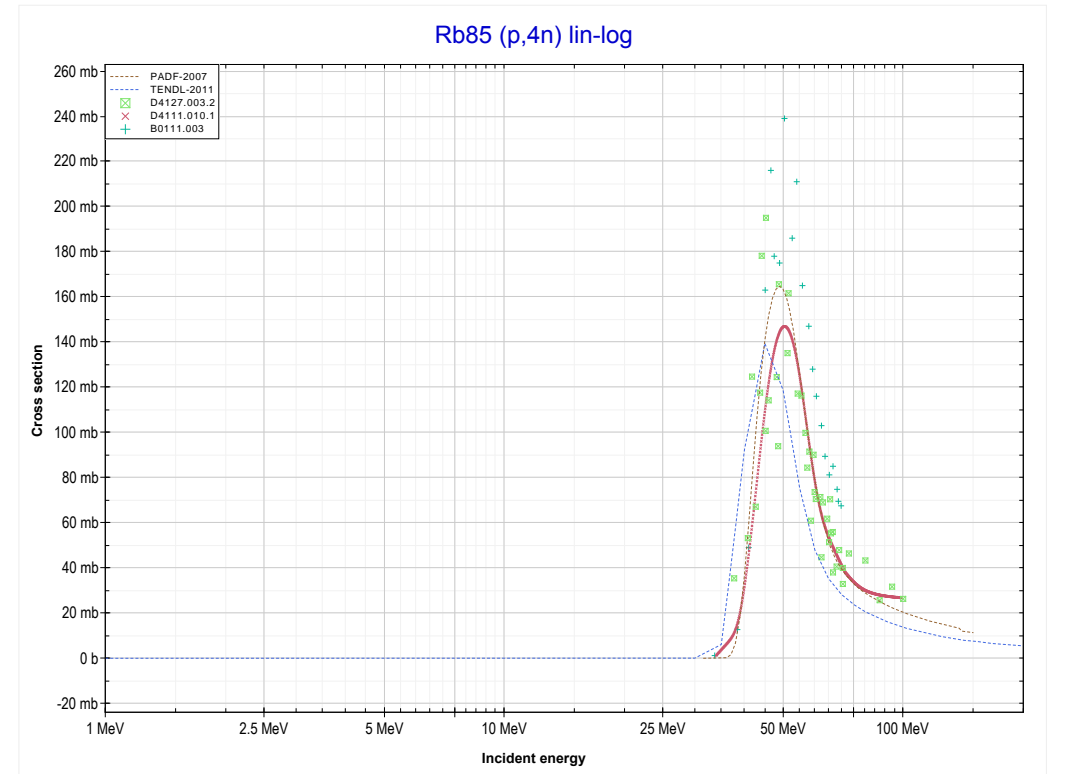
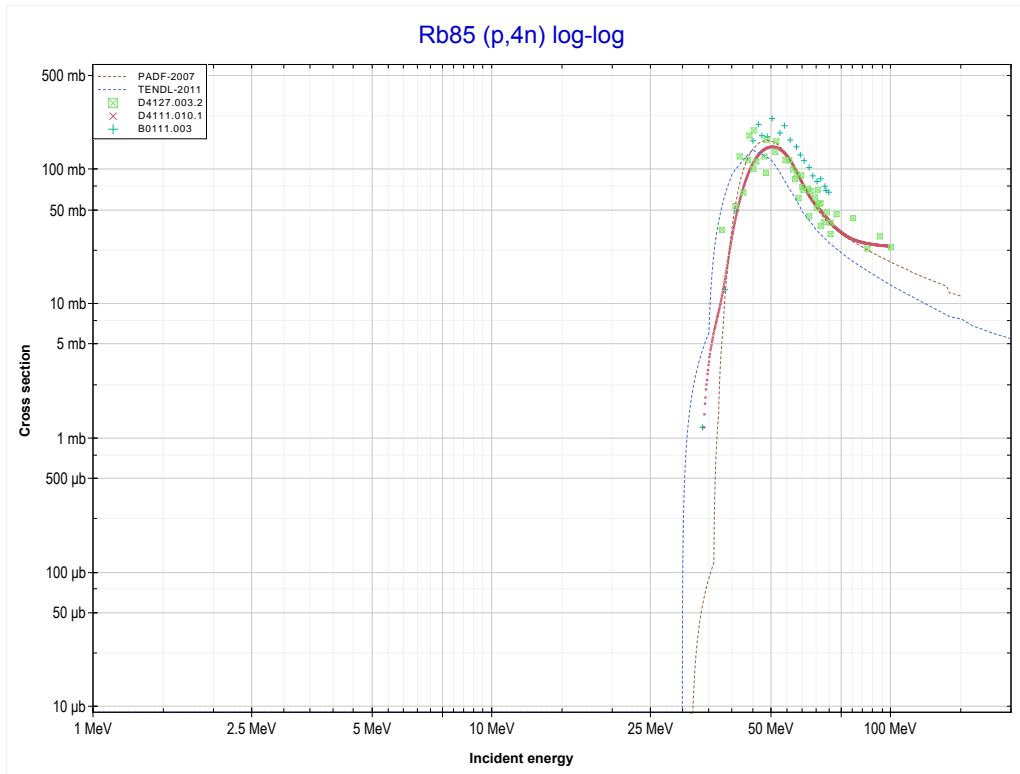
<< 36-Kr-78	<b>37-Rb-85</b>	38-Sr-86 >>
<< MT17 (p,3n)	<b>MT28 (p,n+p) or MT5 (Rb84 production)</b>	MT37 (p,4n) >>



Reaction	Q-Value
Rb85(p,d)Rb84	-8264.08 keV
Rb85(p,n+p)Rb84	-10488.65 keV

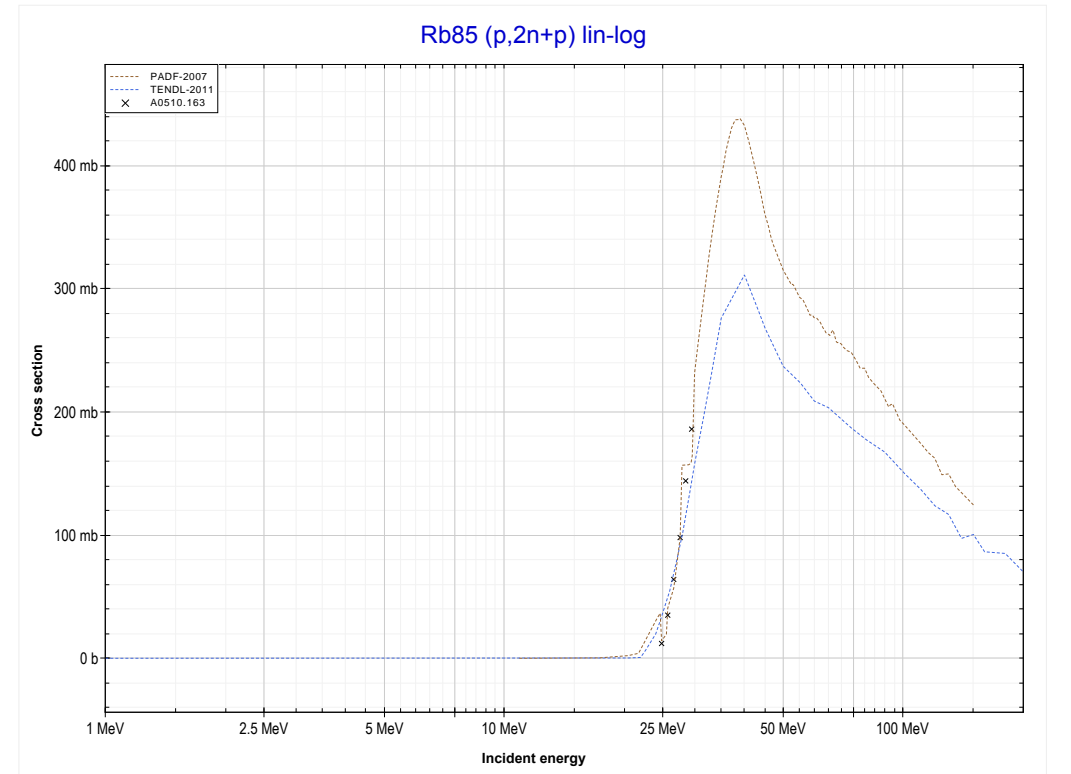
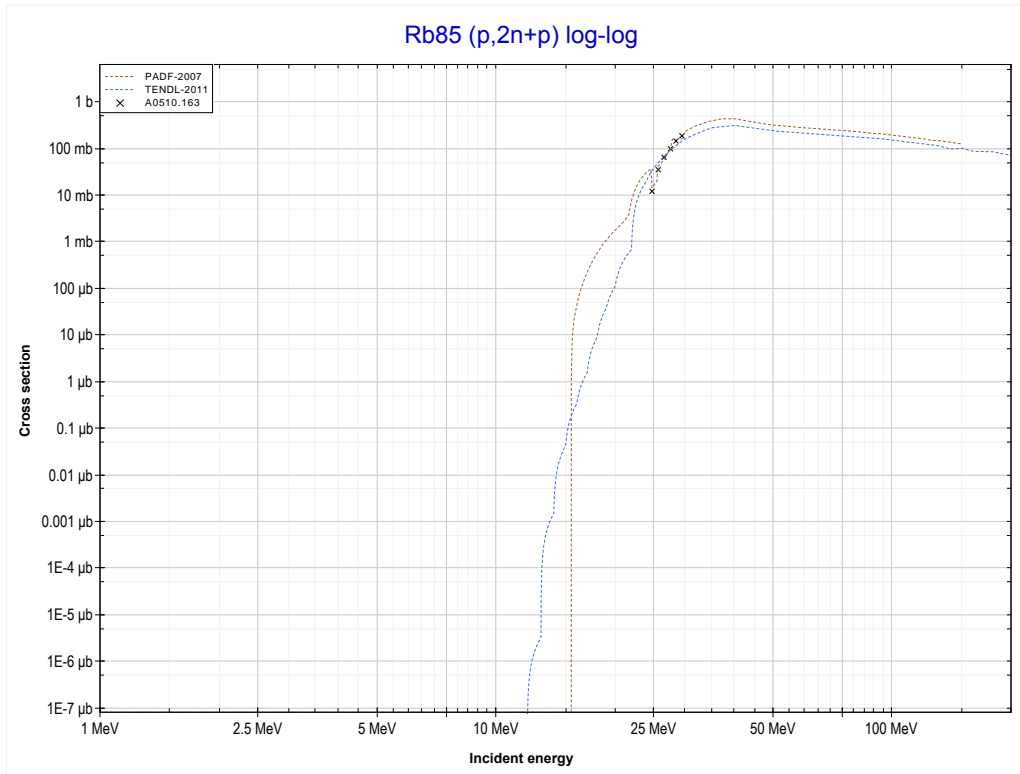


<< 35-Br-79	<b>37-Rb-85</b>	38-Sr-88 >>
<< MT28 (p,n+p)	<b>MT37 (p,4n) or MT5 (Sr82 production)</b>	MT41 (p,2n+p) >>



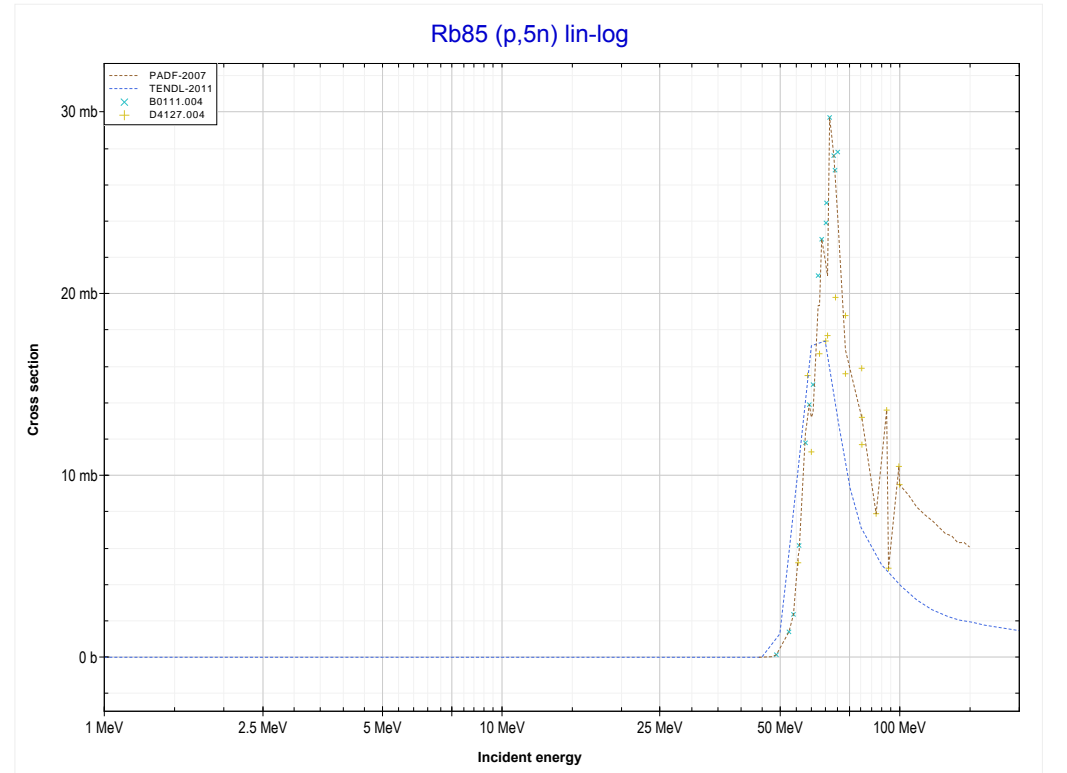
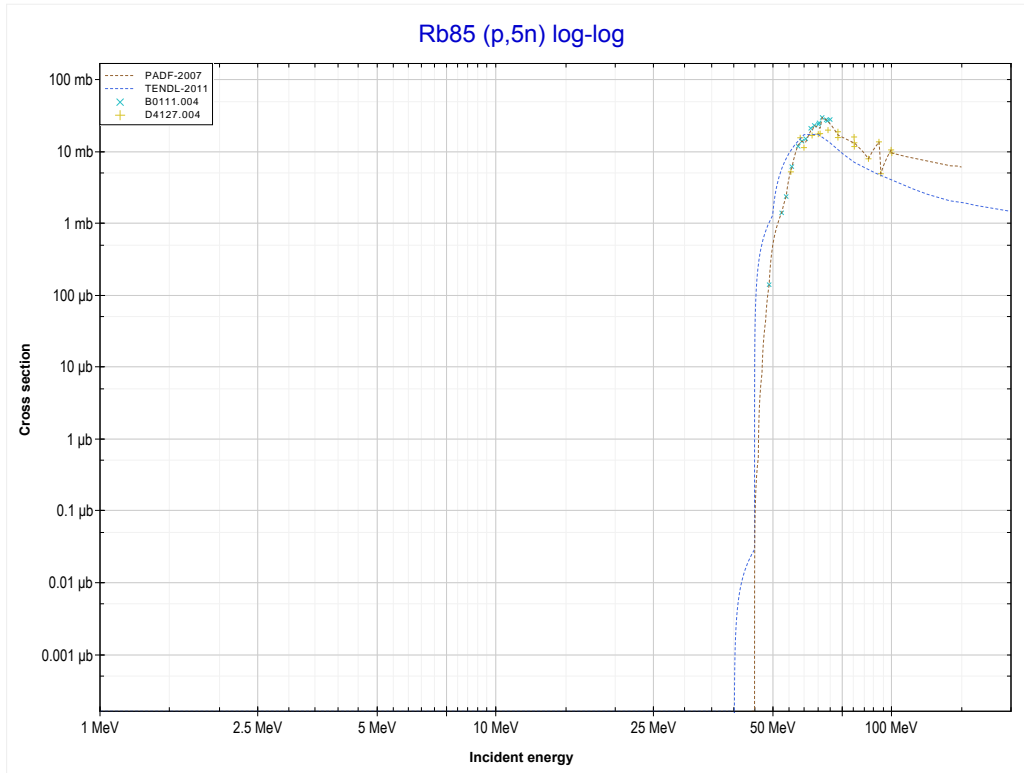
Reaction	Q-Value
Rb85(p,4n)Sr82	-31155.63 keV

<< 35-Br-79	<b>37-Rb-85</b>	39-Y-89 >>
<< MT37 (p,4n)	<b>MT41 (p,2n+p) or MT5 (Rb83 production)</b>	MT152 (p,5n) >>



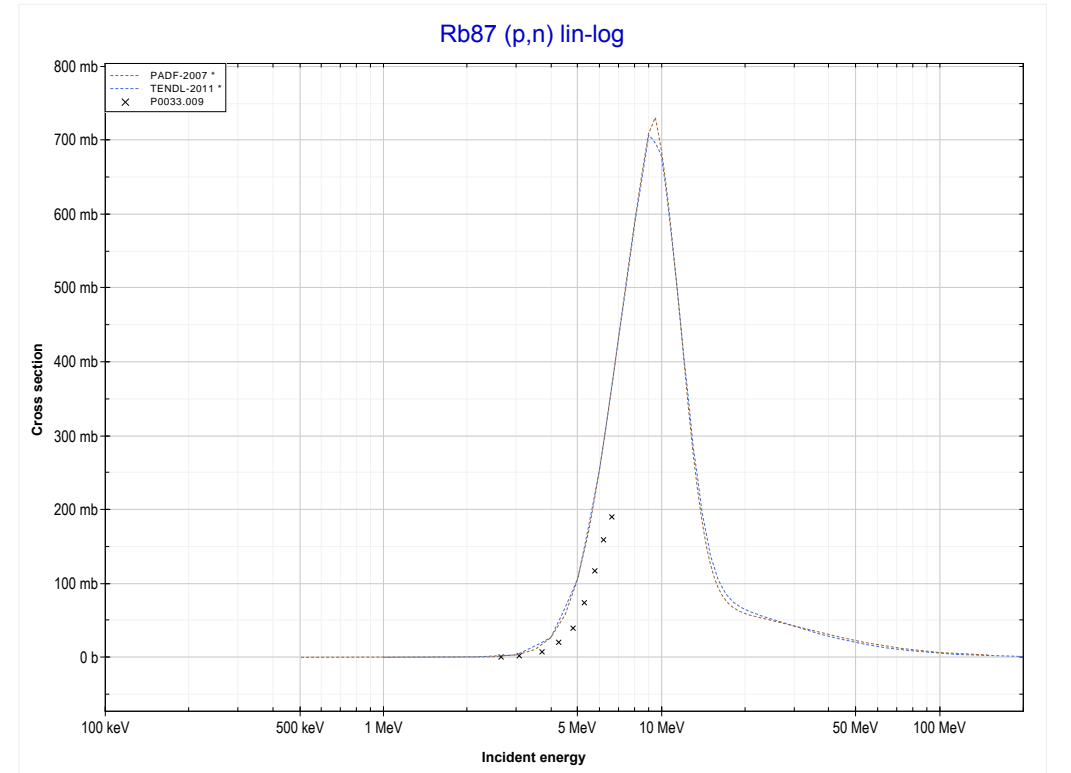
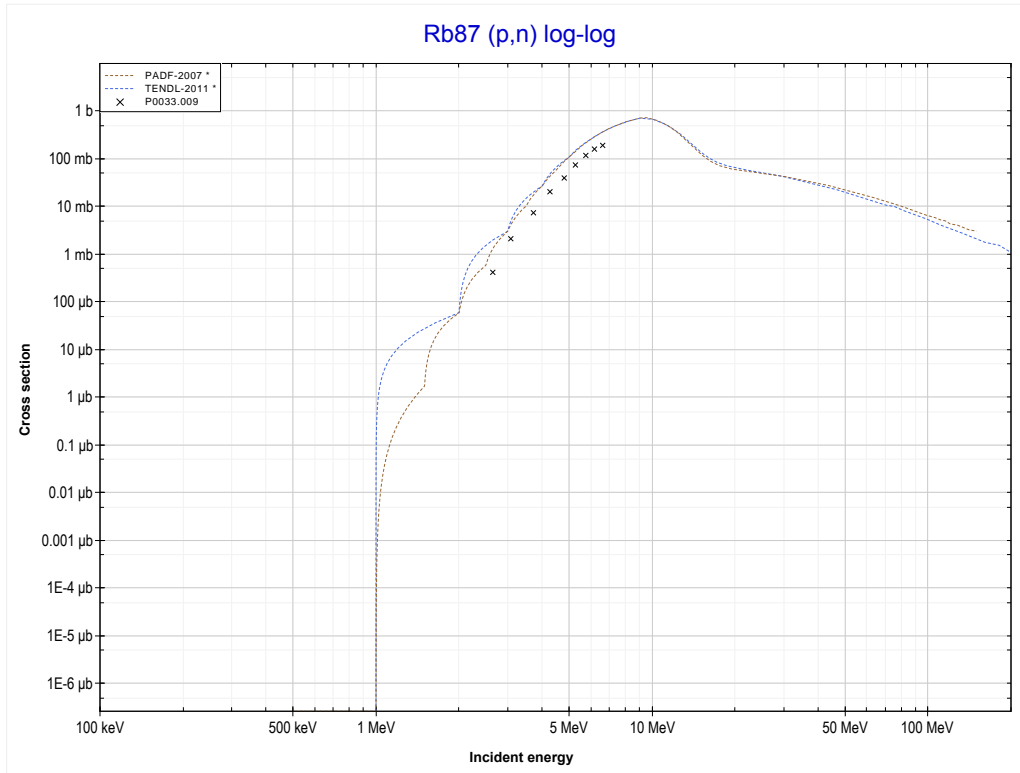
Reaction	Q-Value
Rb85(p,t)Rb83	-10753.17 keV
Rb85(p,n+d)Rb83	-17010.40 keV
Rb85(p,2n+p)Rb83	-19234.97 keV

<< 35-Br-81	<b>37-Rb-85</b>	38-Sr-88 >>
<< MT41 (p,2n+p)	<b>MT152 (p,5n) or MT5 (Sr81 production)</b>	MT4 (p,n) >>



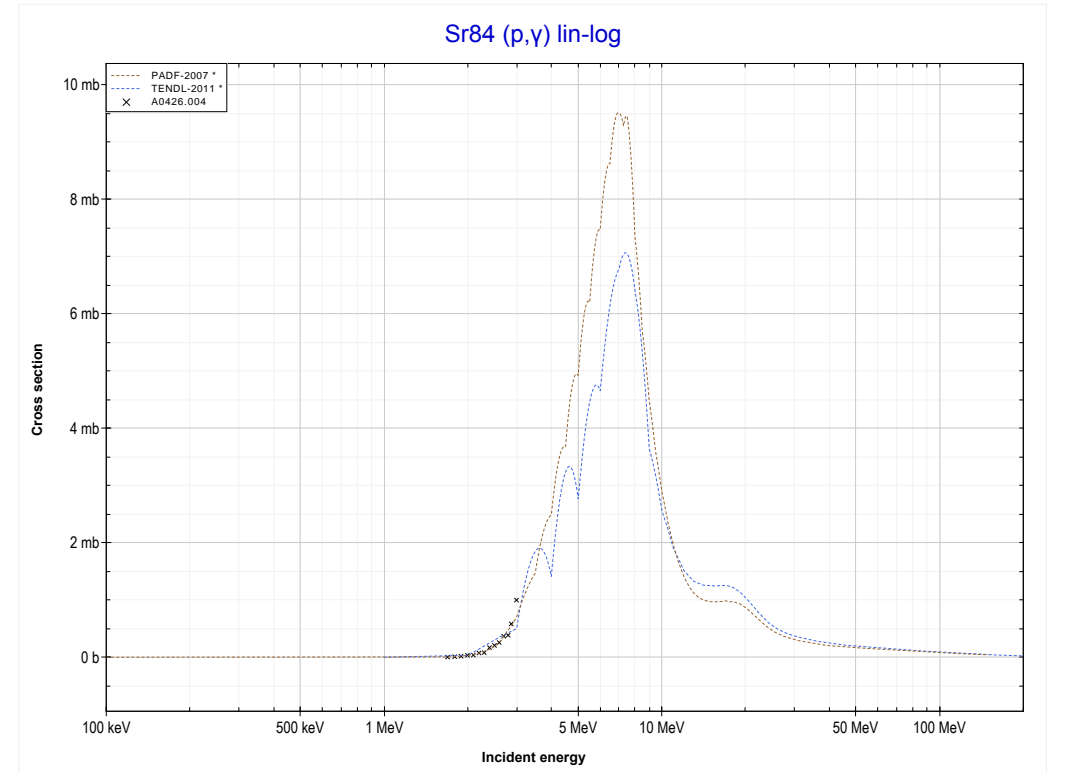
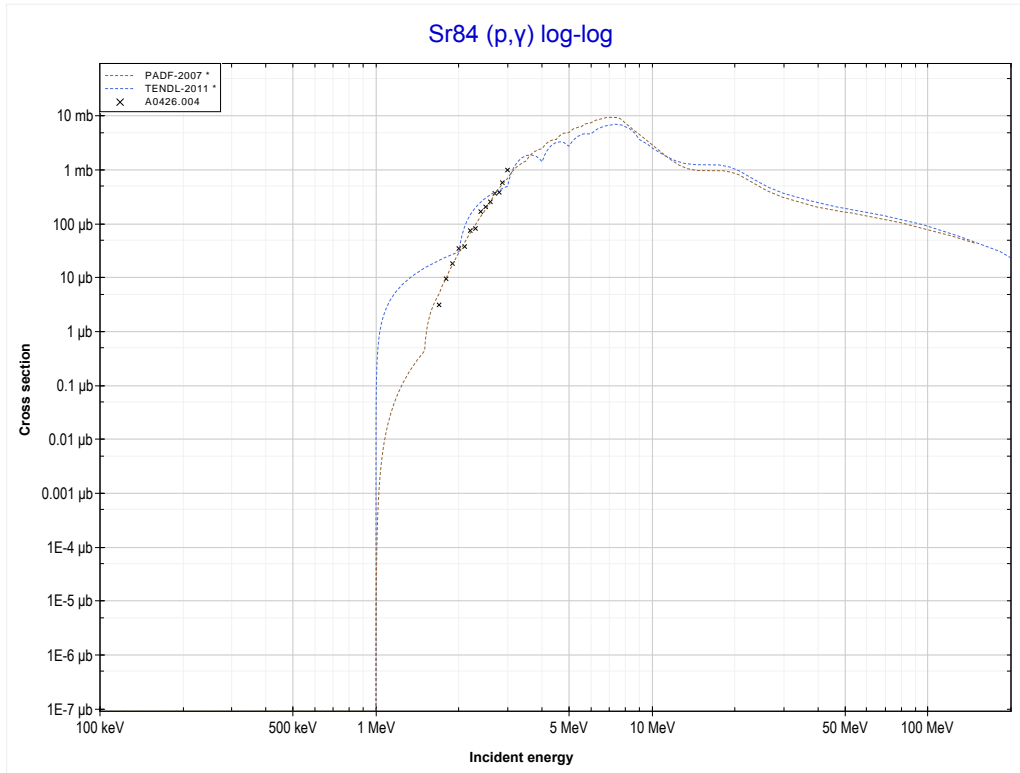
Reaction	Q-Value
Rb85(p,5n)Sr81	-43706.95 keV

<< 37-Rb-85	<b>37-Rb-87</b>	38-Sr-86 >>
<< MT152 (p,5n)	<b>MT4 (p,n) or MT5 (Sr87 production)</b>	MT102 (p, $\gamma$ ) >>



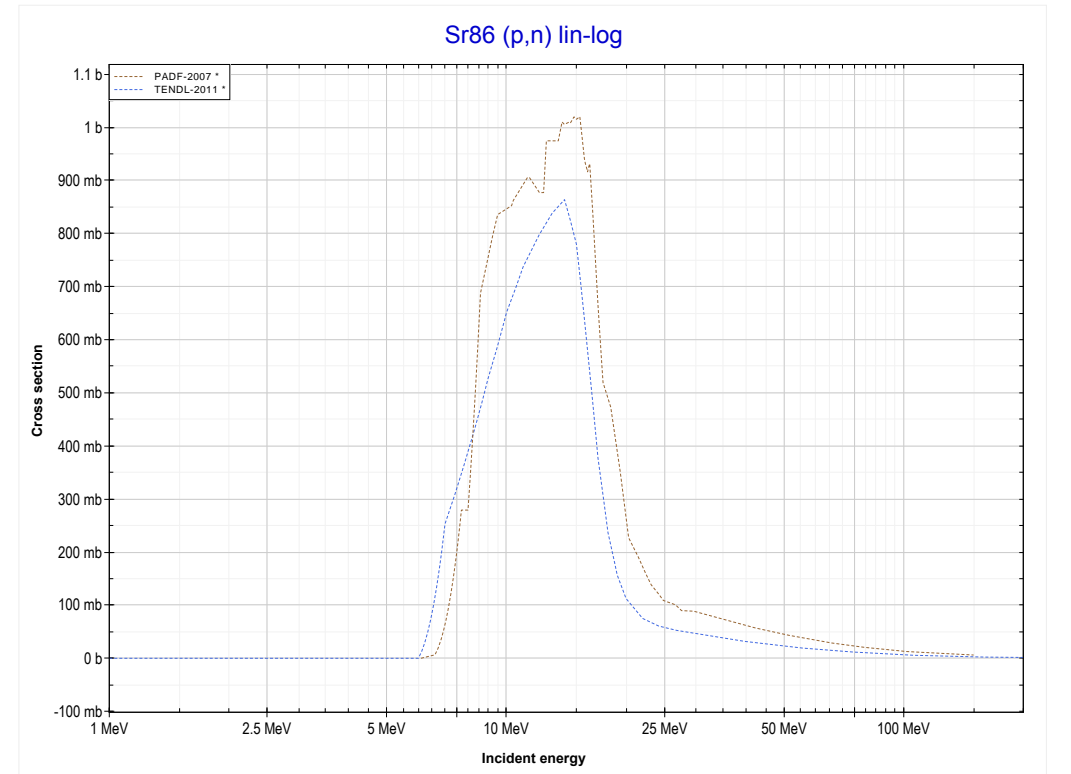
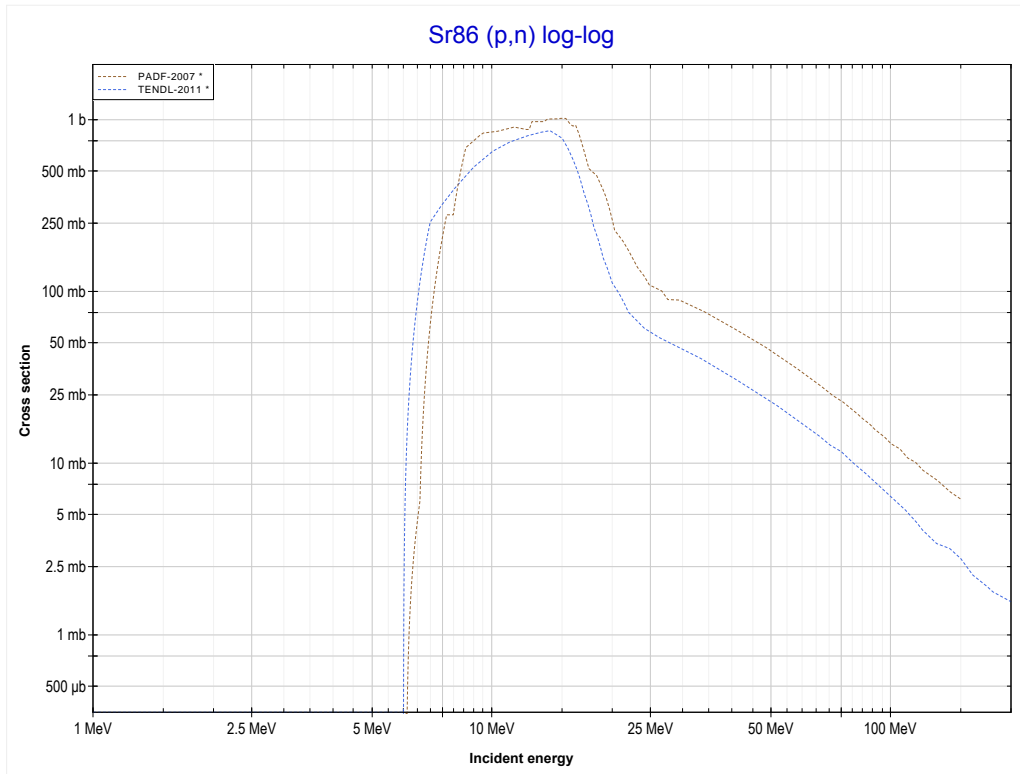
Reaction	Q-Value
Rb87(p,n)Sr87	-499.74 keV

<< 34-Se-82	<b>38-Sr-84</b>	38-Sr-86 >>
<< MT4 (p,n)	<b>MT102 (p,<math>\gamma</math>) or MT5 (Y85 production)</b>	MT4 (p,n) >>



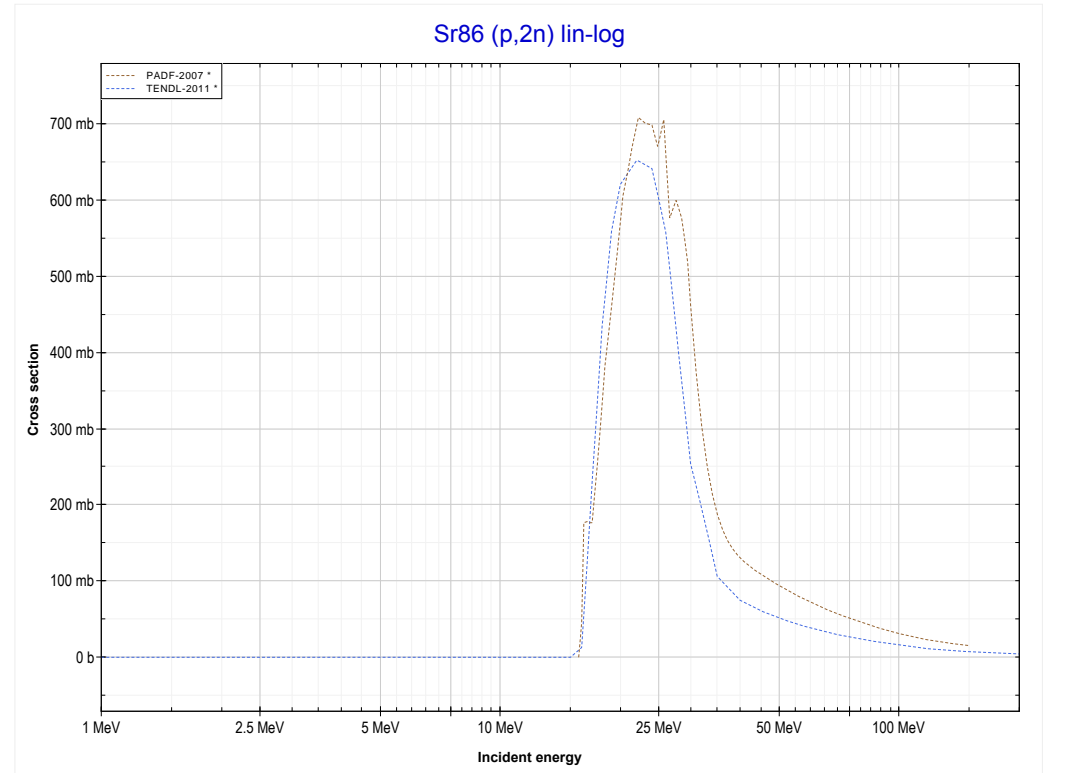
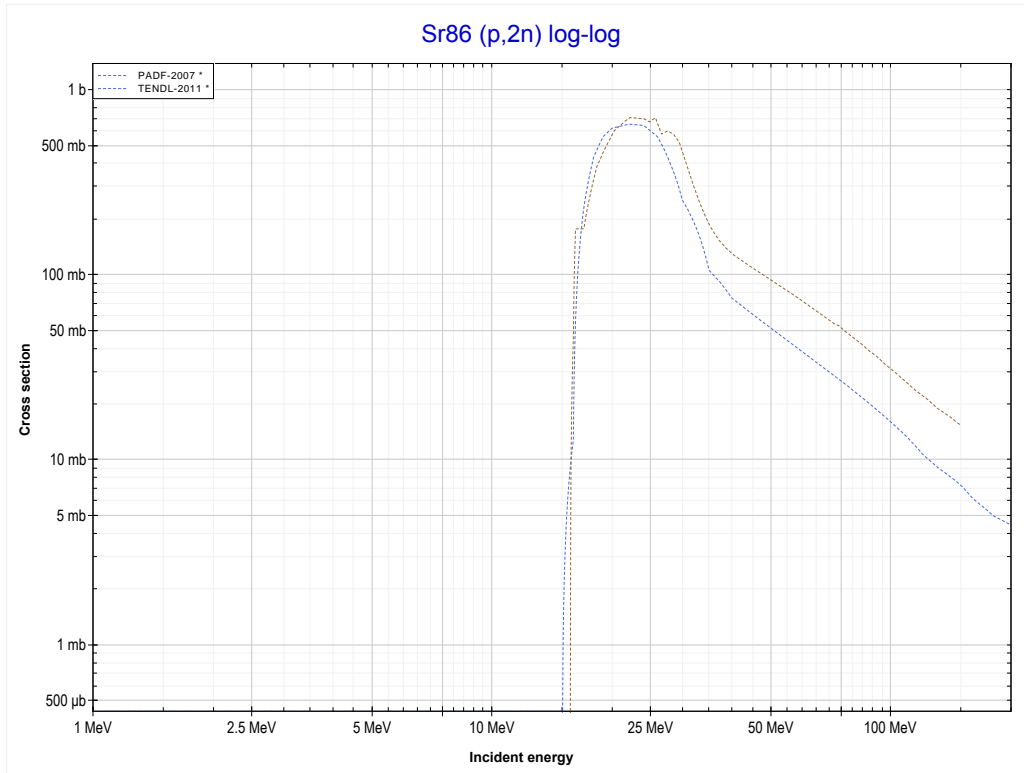
Reaction	Q-Value
Sr84(p, $\gamma$ )Y85	4486.97 keV

<< 37-Rb-87	<b>38-Sr-86</b>	38-Sr-87 >>
<< MT102 (p, $\gamma$ )	<b>MT4 (p,n) or MT5 (Y86 production)</b>	MT16 (p,2n) >>



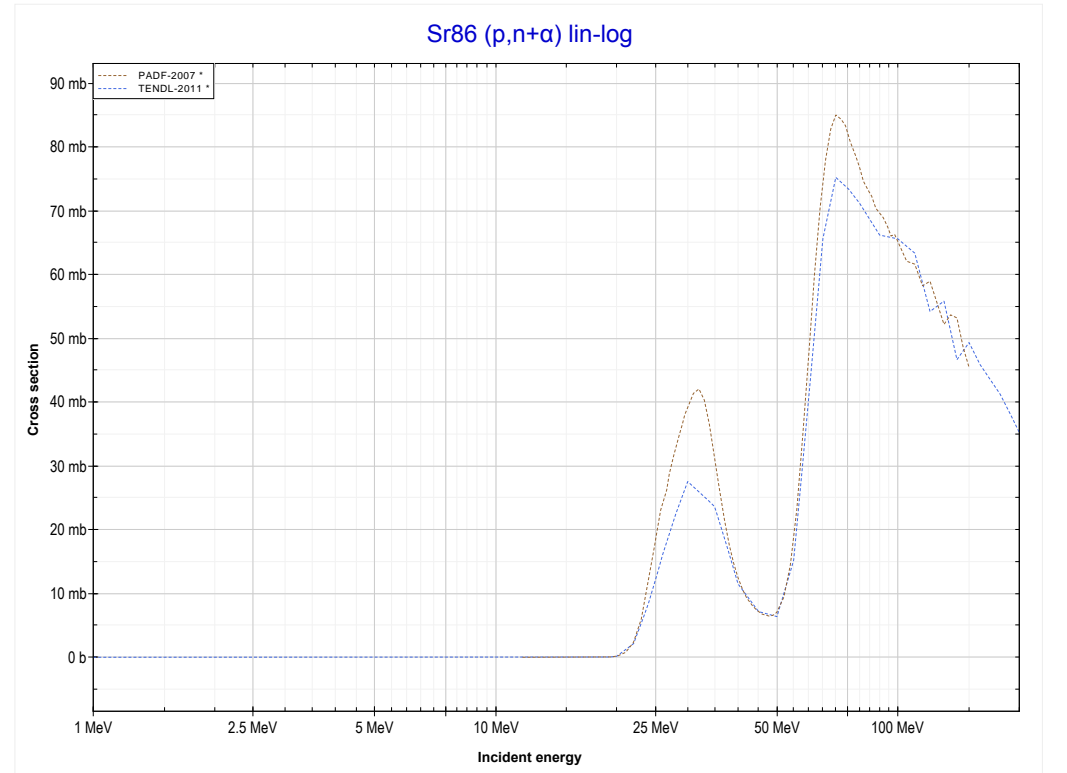
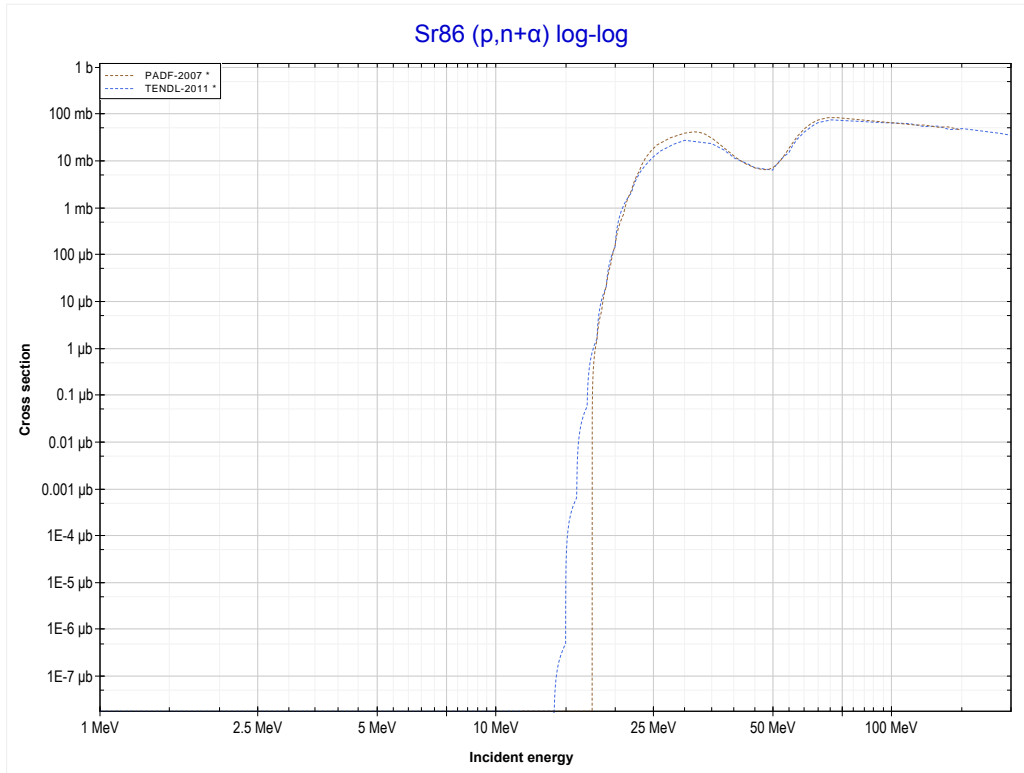
Reaction	Q-Value
Sr86(p,n)Y86	-6021.95 keV

<< 36-Kr-84	<b>38-Sr-86</b>	38-Sr-87 >>
<< MT4 (p,n)	<b>MT16 (p,2n) or MT5 (Y85 production)</b>	MT22 (p,n+α) >>



Reaction	Q-Value
Sr86(p,2n)Y85	-15535.26 keV

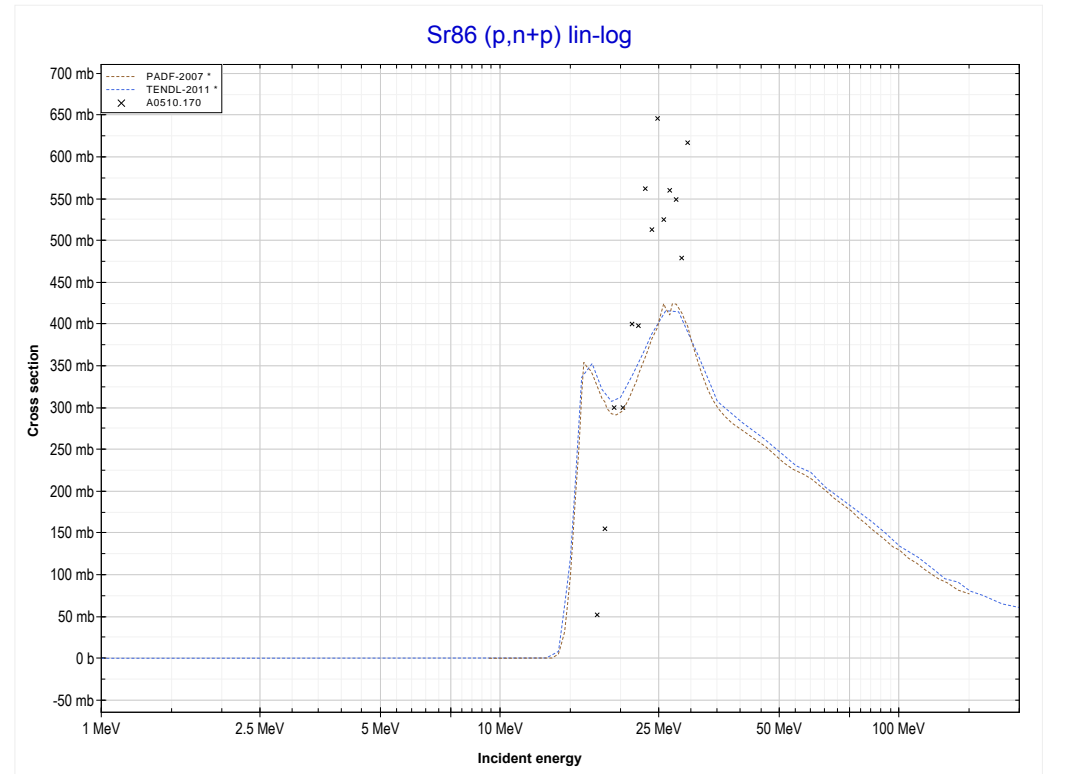
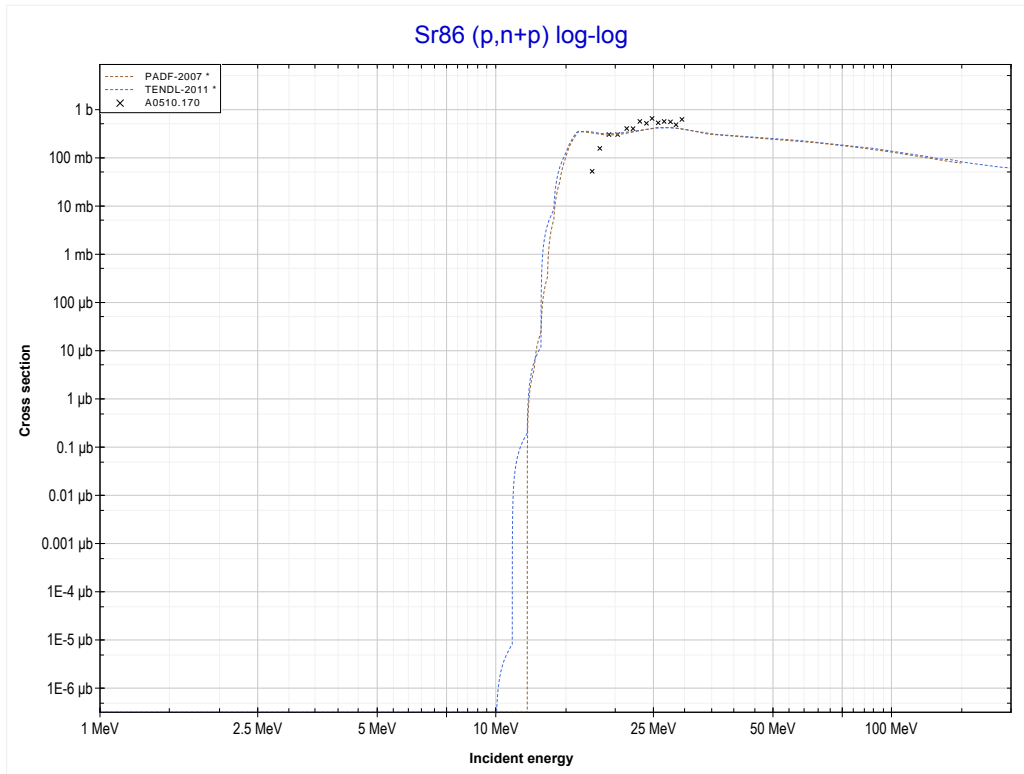
<< 36-Kr-80	<b>38-Sr-86</b>	38-Sr-87 >>
<< MT16 (p,2n)	<b>MT22 (p,n+α) or MT5 (Rb82 production)</b>	MT28 (p,n+p) >>



Reaction	Q-Value
Sr86(p,n+α)Rb82	-11542.66 keV
Sr86(p,d+t)Rb82	-29131.96 keV
Sr86(p,n+p+t)Rb82	-31356.52 keV
Sr86(p,2n+He3)Rb82	-32120.28 keV
Sr86(p,n+2d)Rb82	-35389.19 keV
Sr86(p,2n+p+d)Rb82	-37613.76 keV
Sr86(p,3n+2p)Rb82	-39838.32 keV

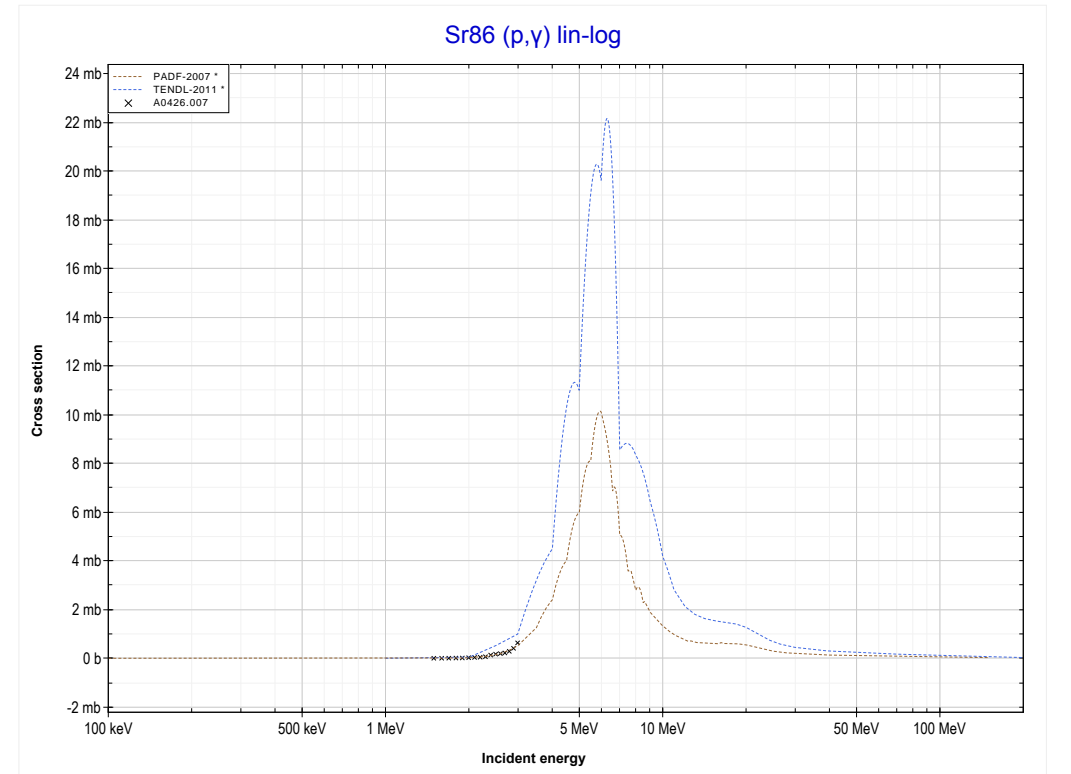
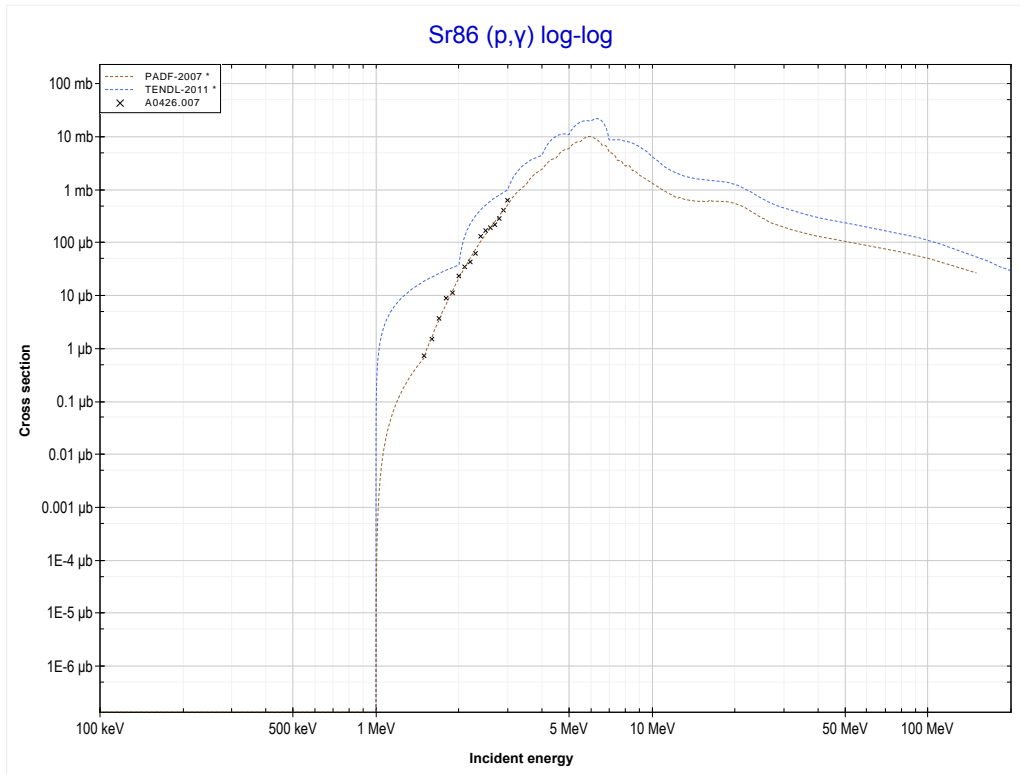


<< 37-Rb-85	<b>38-Sr-86</b>	39-Y-89 >>
<< MT22 (p,n+α)	<b>MT28 (p,n+p) or MT5 (Sr85 production)</b>	MT102 (p,γ) >>



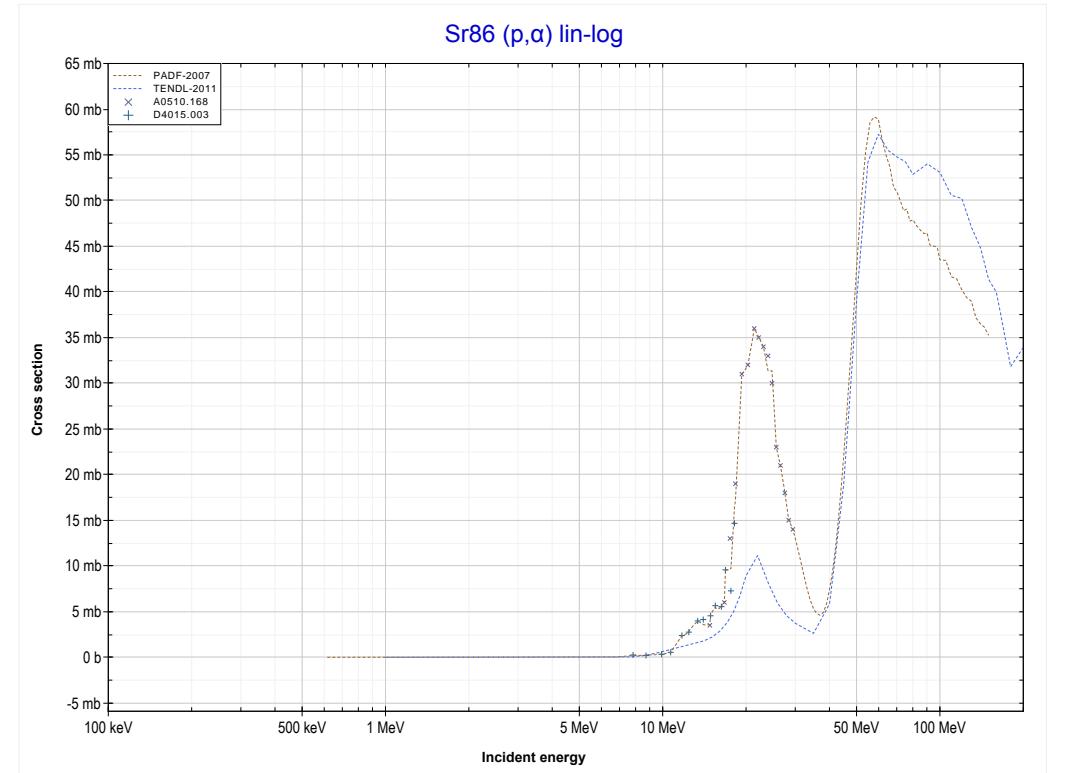
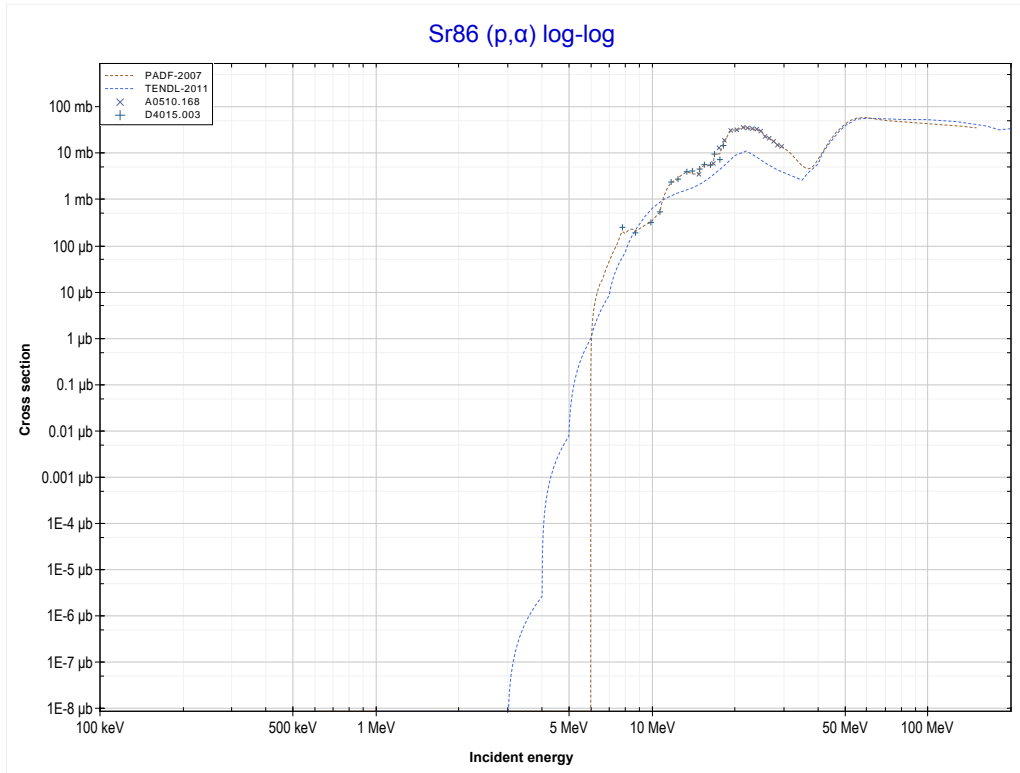
Reaction	Q-Value
Sr86(p,d)Sr85	-9267.75 keV
Sr86(p,n+p)Sr85	-11492.32 keV

<< 38-Sr-84	<b>38-Sr-86</b>	38-Sr-87 >>
<< MT28 (p,n+p)	<b>MT102 (p,<math>\gamma</math>) or MT5 (Y87 production)</b>	MT107 (p, $\alpha$ ) >>



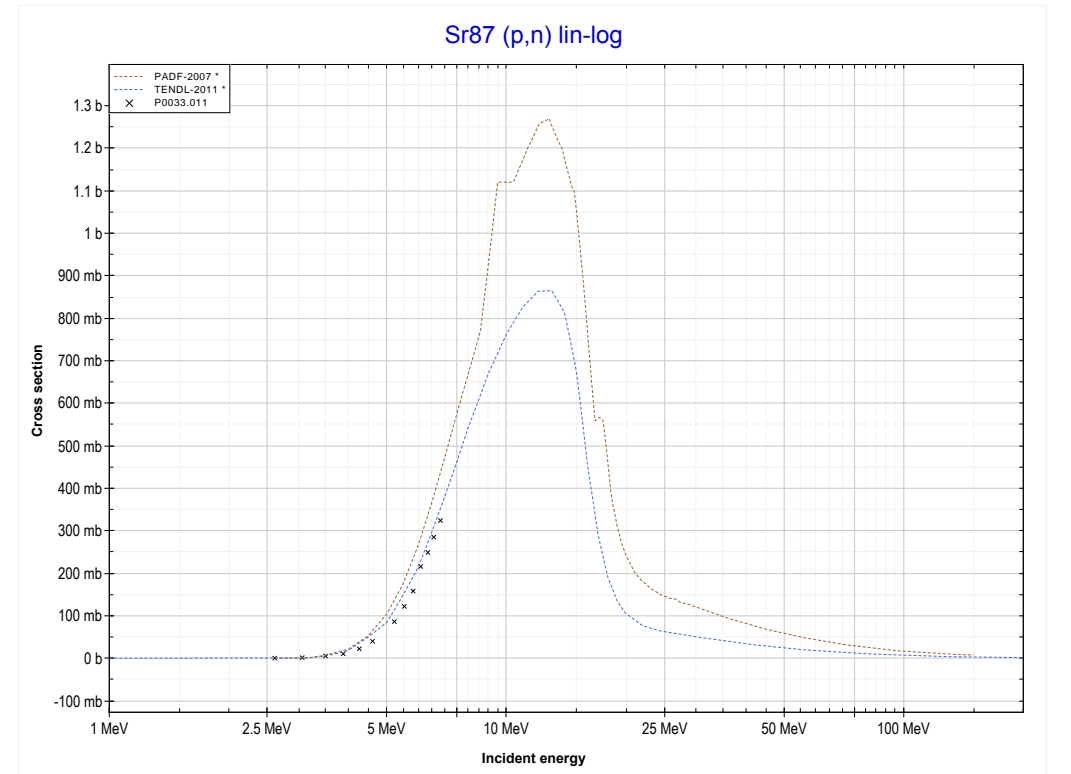
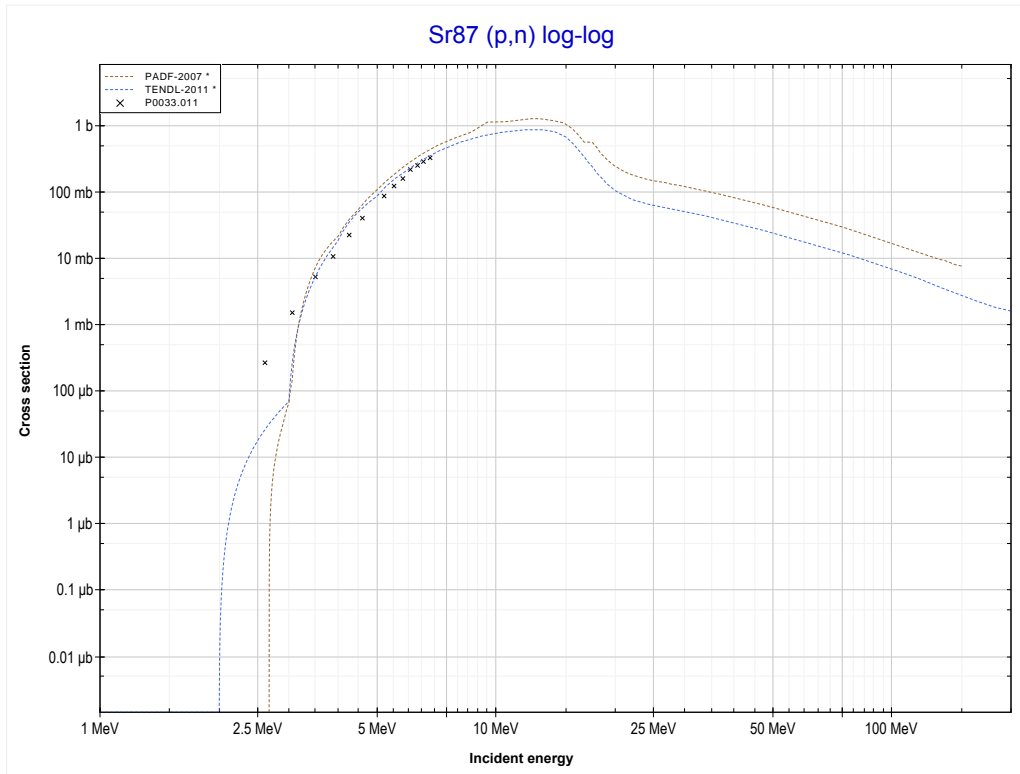
Reaction	Q-Value
Sr86(p, $\gamma$ )Y87	5784.07 keV

<< 36-Kr-80	<b>38-Sr-86</b>	38-Sr-87 >>
<< MT102 (p, $\gamma$ )	<b>MT107 (p,<math>\alpha</math>) or MT5 (Rb83 production)</b>	MT4 (p,n) >>



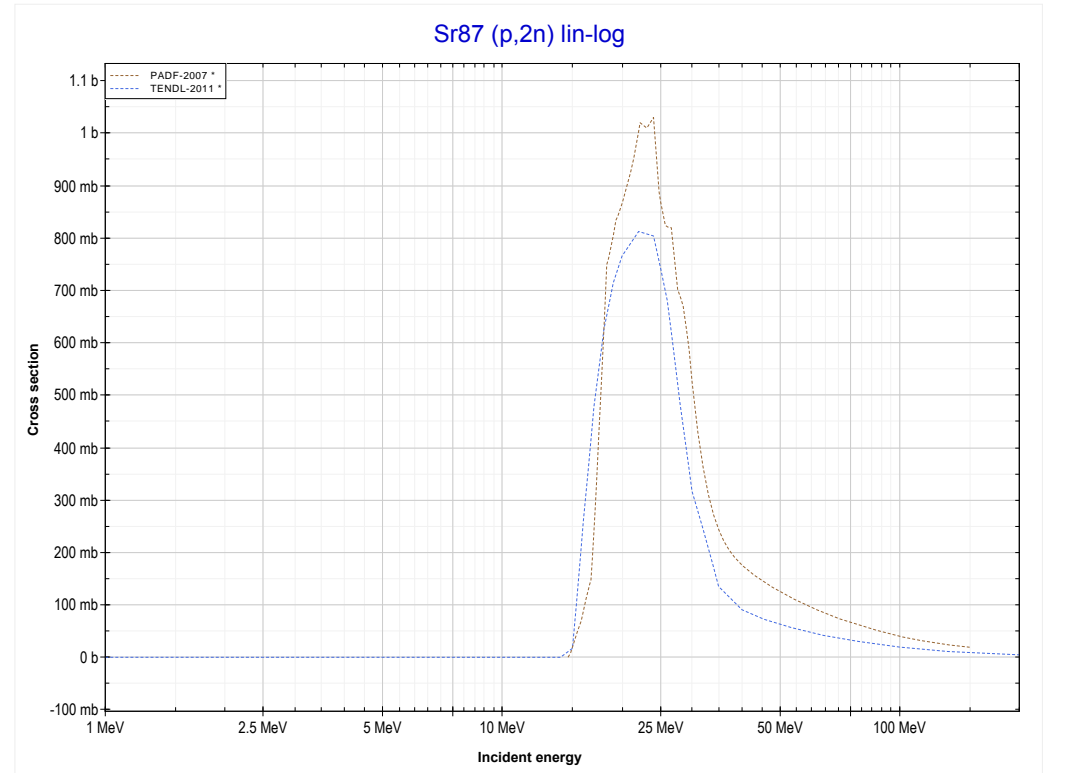
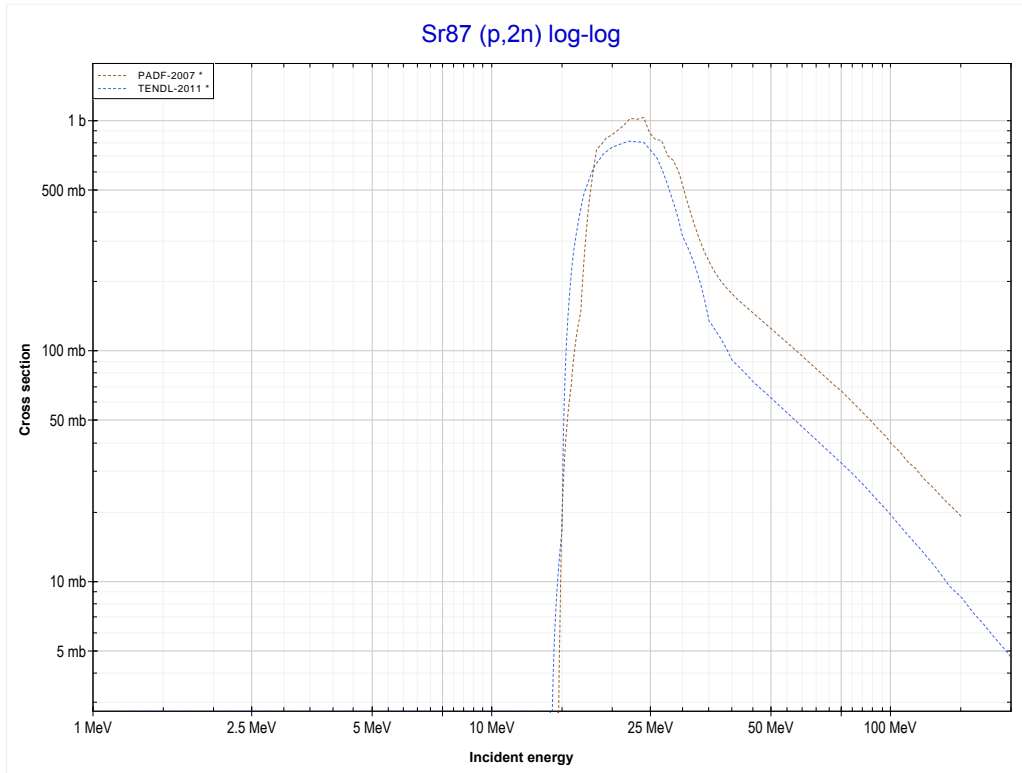
Reaction	Q-Value
Sr86(p, $\alpha$ )Rb83	-584.55 keV
Sr86(p,p+t)Rb83	-20398.41 keV
Sr86(p,n+He3)Rb83	-21162.16 keV
Sr86(p,2d)Rb83	-24431.07 keV
Sr86(p,n+p+d)Rb83	-26655.64 keV
Sr86(p,2n+2p)Rb83	-28880.20 keV

<< 38-Sr-86	<b>38-Sr-87</b>	38-Sr-88 >>
<< MT107 (p, $\alpha$ )	<b>MT4 (p,n) or MT5 (Y87 production)</b>	MT16 (p,2n) >>



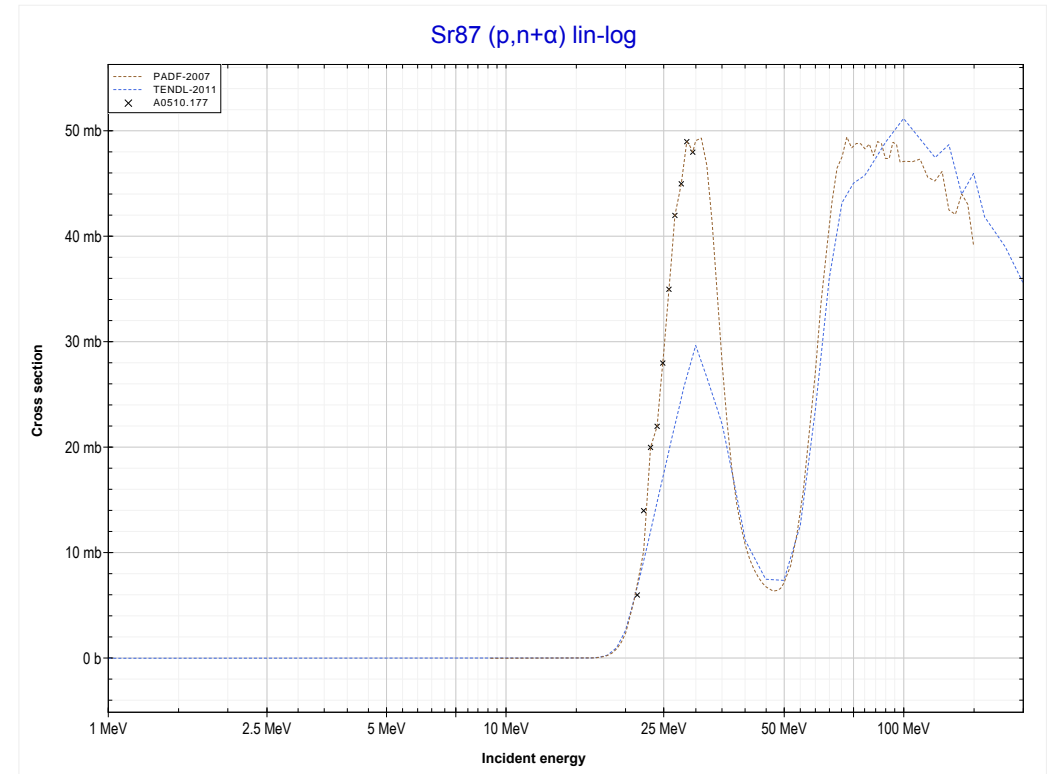
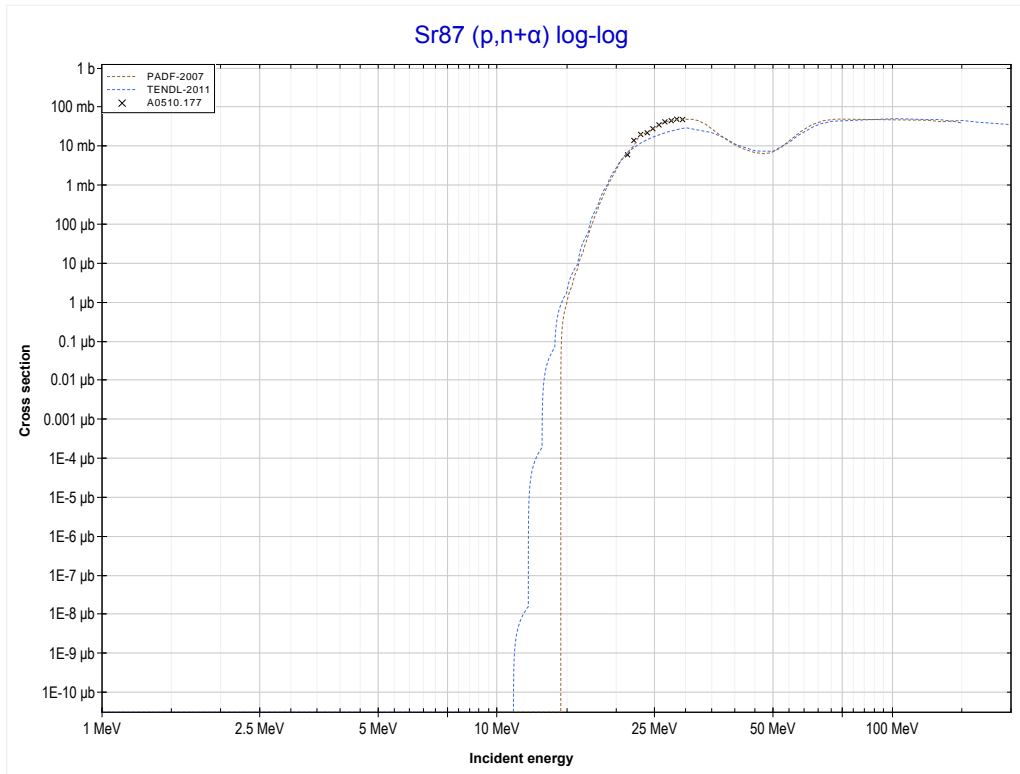
Reaction	Q-Value
Sr87(p,n)Y87	-2644.05 keV

<< 38-Sr-86	<b>38-Sr-87</b>	38-Sr-88 >>
<< MT4 (p,n)	<b>MT16 (p,2n) or MT5 (Y86 production)</b>	MT22 (p,n+α) >>



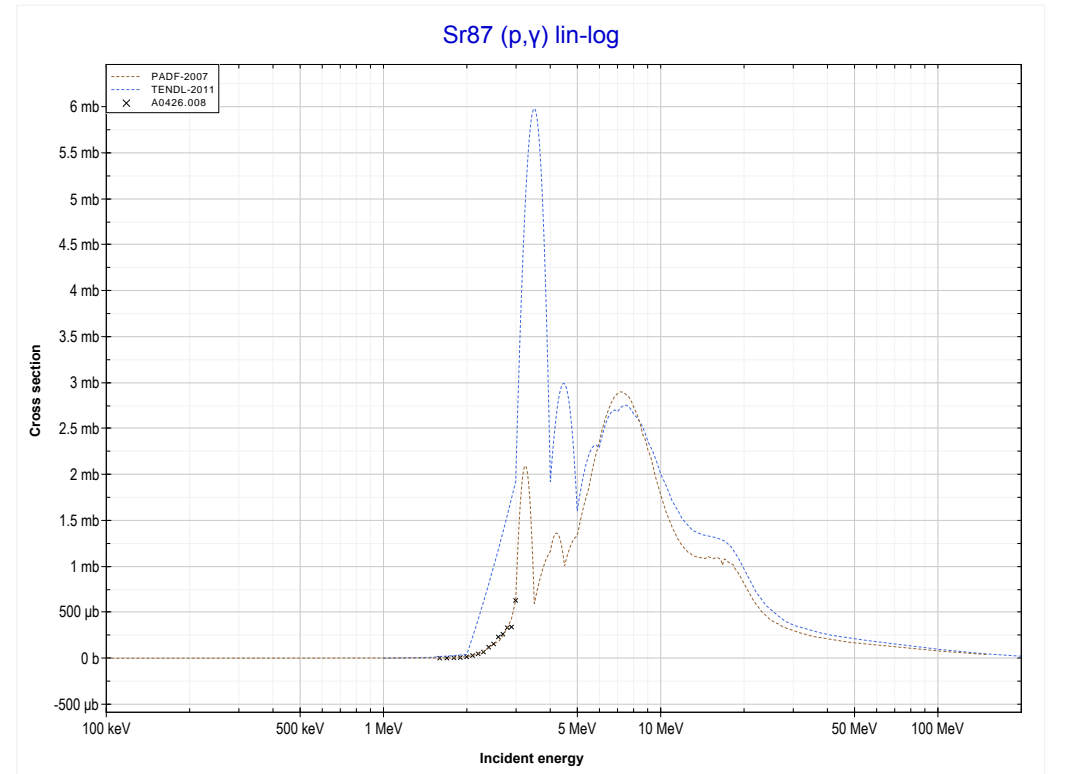
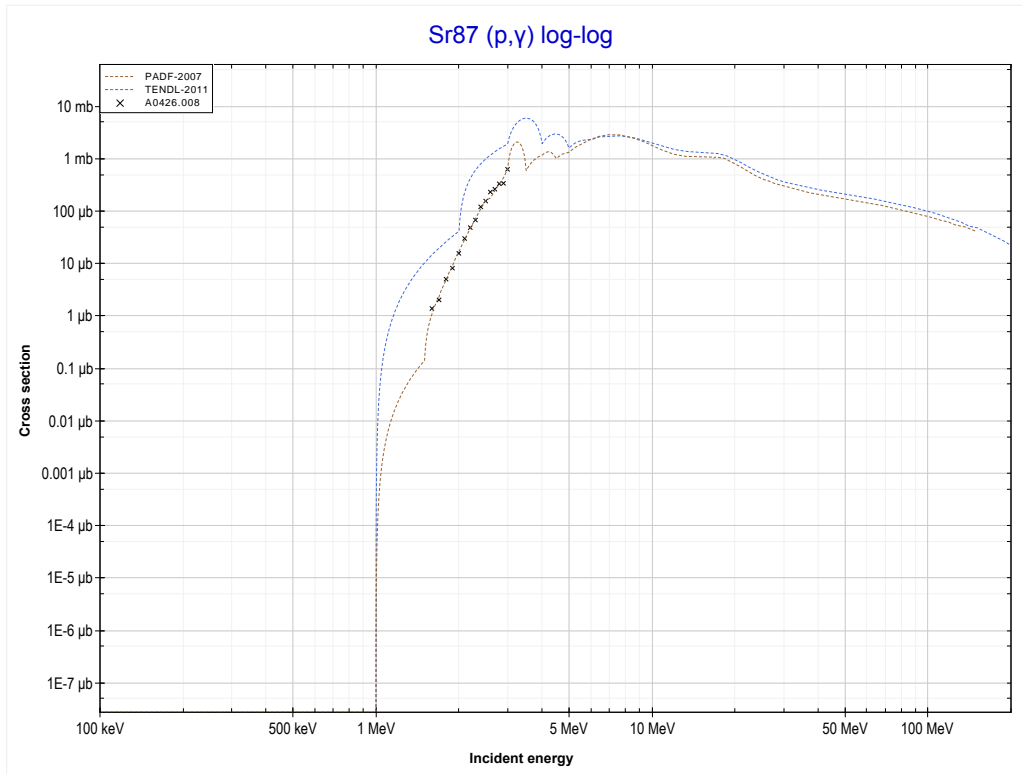
Reaction	Q-Value
Sr87(p,2n)Y86	-14450.06 keV

<< 38-Sr-86	<b>38-Sr-87</b>	38-Sr-88 >>
<< MT16 (p,2n)	<b>MT22 (p,n+α) or MT5 (Rb83 production)</b>	MT102 (p,γ) >>



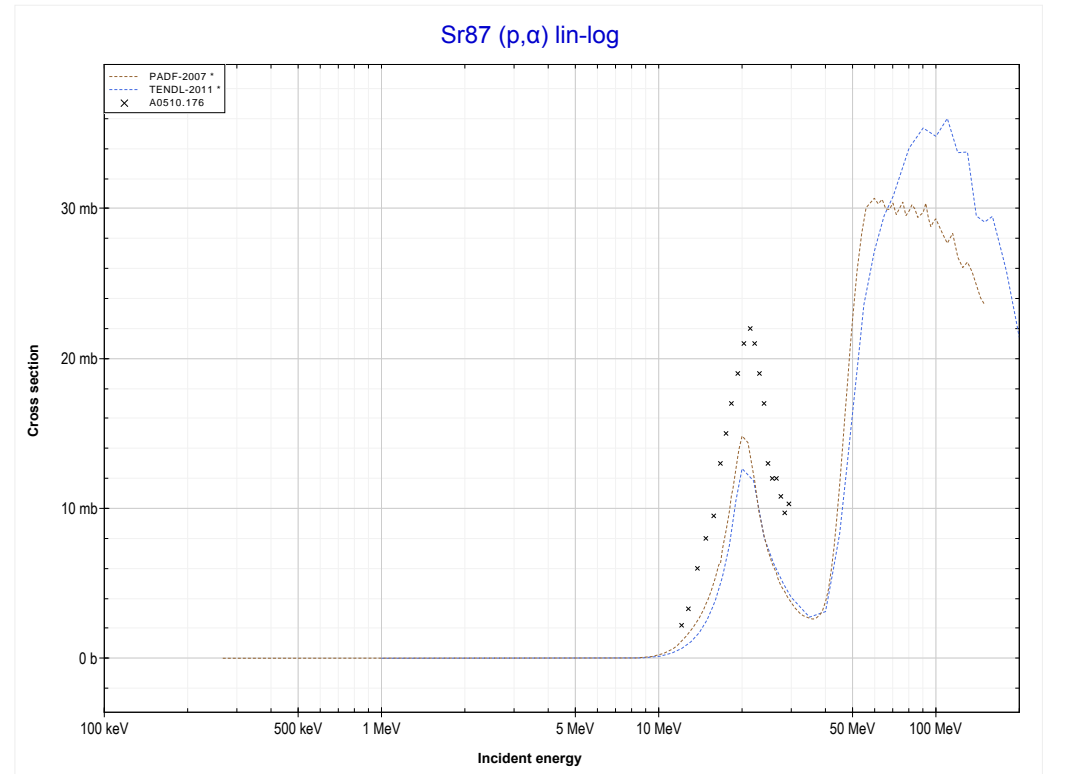
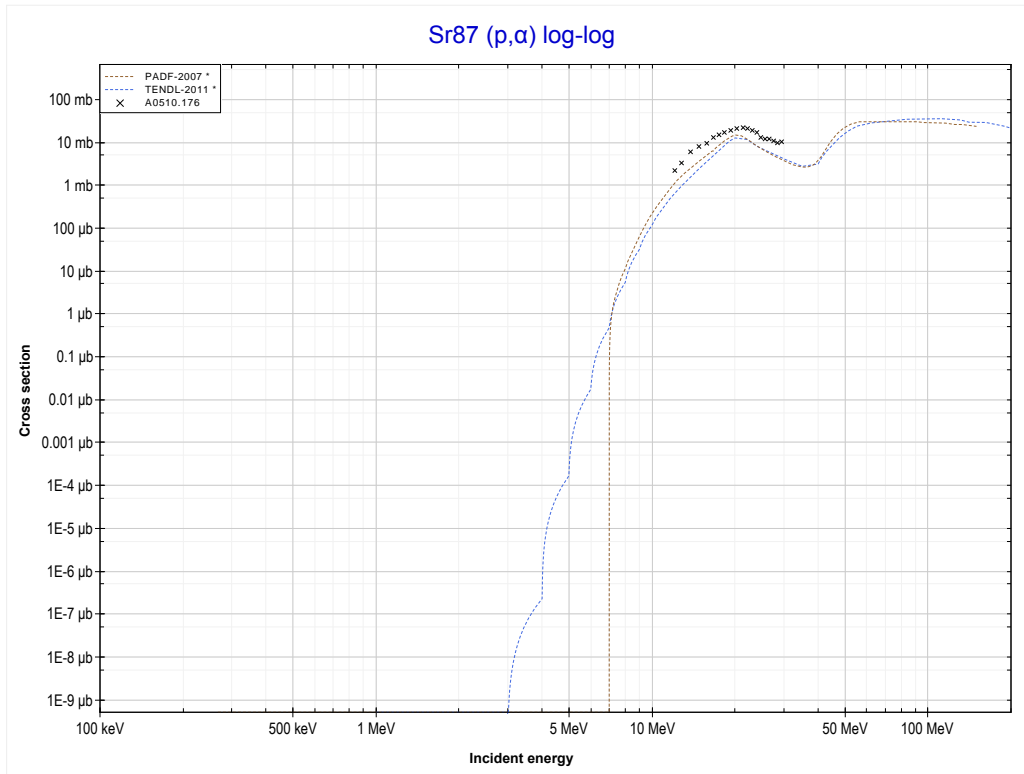
Reaction	Q-Value
Sr87(p,n+α)Rb83	-9012.66 keV
Sr87(p,d+t)Rb83	-26601.96 keV
Sr87(p,n+p+t)Rb83	-28826.52 keV
Sr87(p,2n+He3)Rb83	-29590.28 keV
Sr87(p,n+2d)Rb83	-32859.19 keV
Sr87(p,2n+p+d)Rb83	-35083.76 keV
Sr87(p,3n+2p)Rb83	-37308.32 keV

<< 38-Sr-86	<b>38-Sr-87</b>	42-Mo-92 >>
<< MT22 (p,n+α)	<b>MT102 (p,γ) or MT5 (Y88 production)</b>	MT107 (p,α) >>



Reaction	Q-Value
Sr87(p,γ)Y88	6707.67 keV

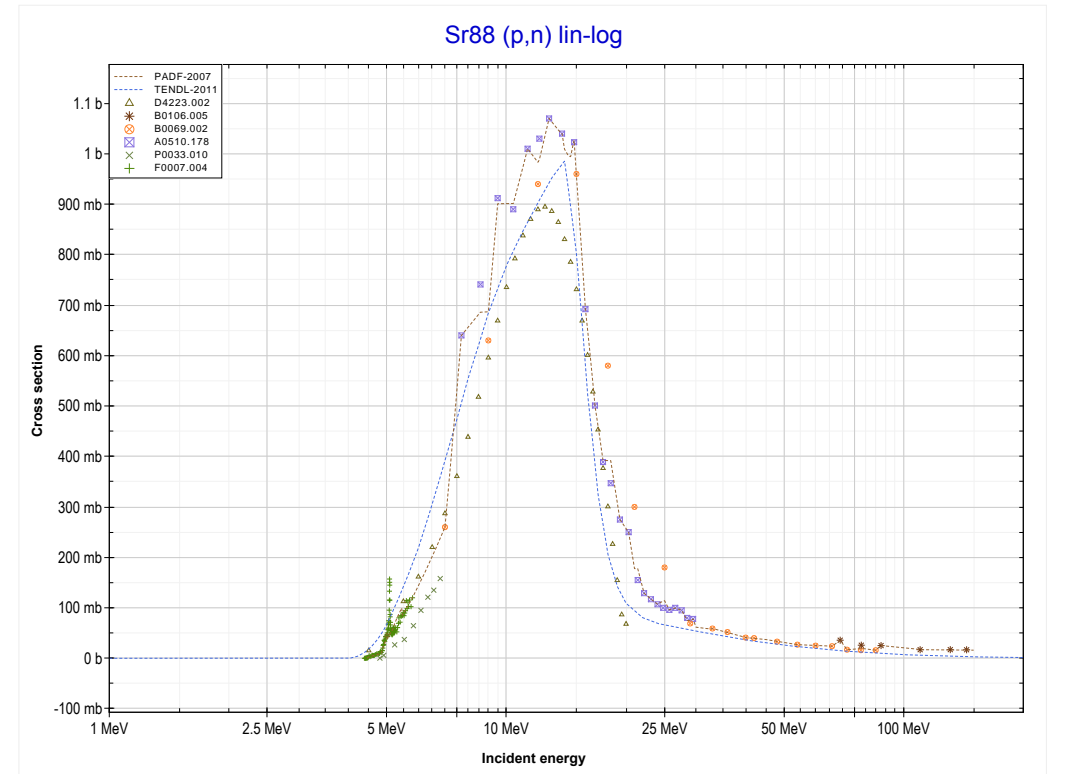
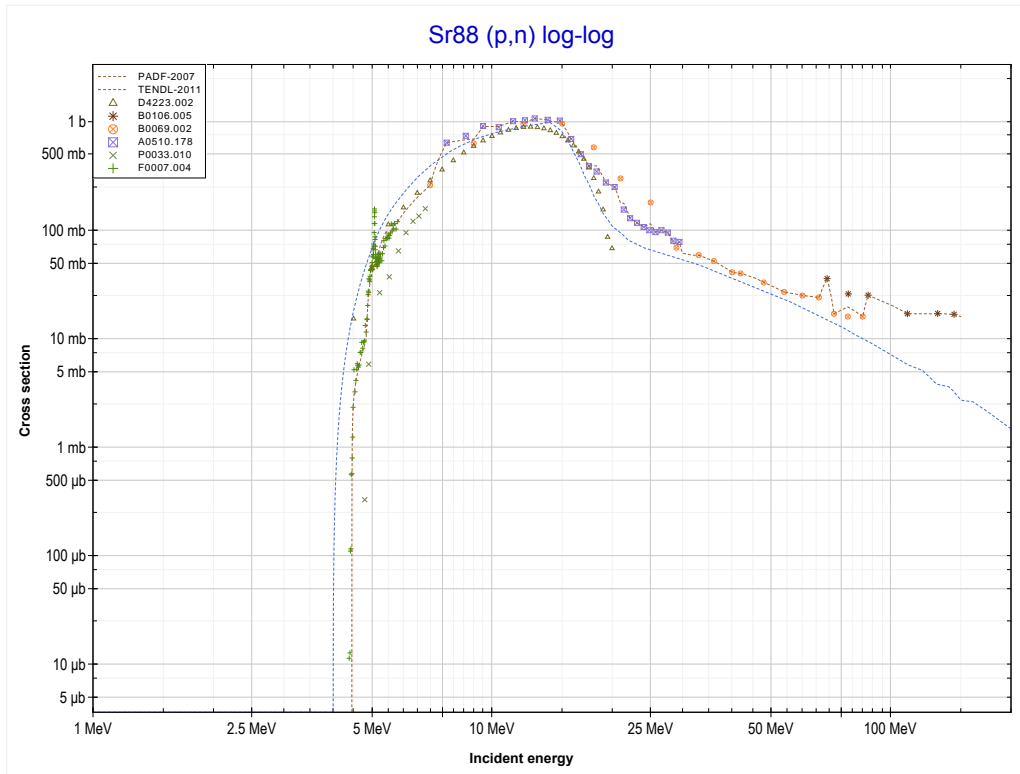
<< 38-Sr-86	<b>38-Sr-87</b>	40-Zr-90 >>
<< MT102 (p, $\gamma$ )	<b>MT107 (p,<math>\alpha</math>) or MT5 (Rb84 production)</b>	MT4 (p,n) >>



Reaction	Q-Value
Sr87(p, $\alpha$ )Rb84	-266.35 keV
Sr87(p,p+t)Rb84	-20080.21 keV
Sr87(p,n+He3)Rb84	-20843.96 keV
Sr87(p,2d)Rb84	-24112.87 keV
Sr87(p,n+p+d)Rb84	-26337.44 keV
Sr87(p,2n+2p)Rb84	-28562.00 keV

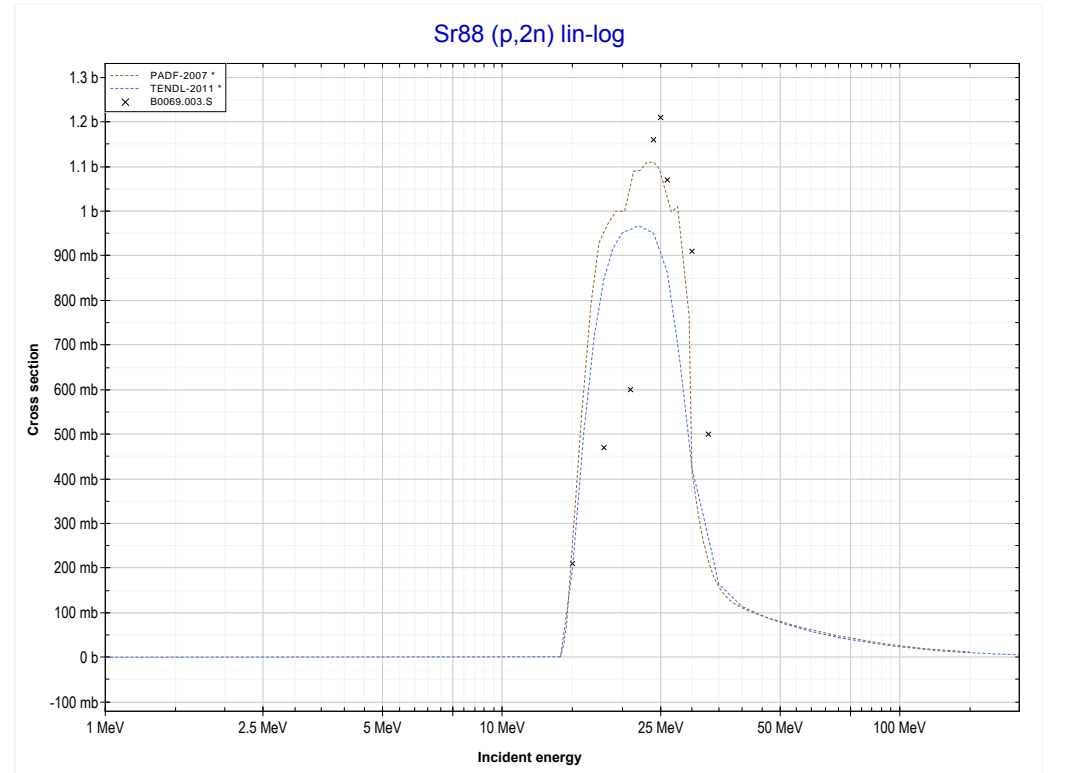
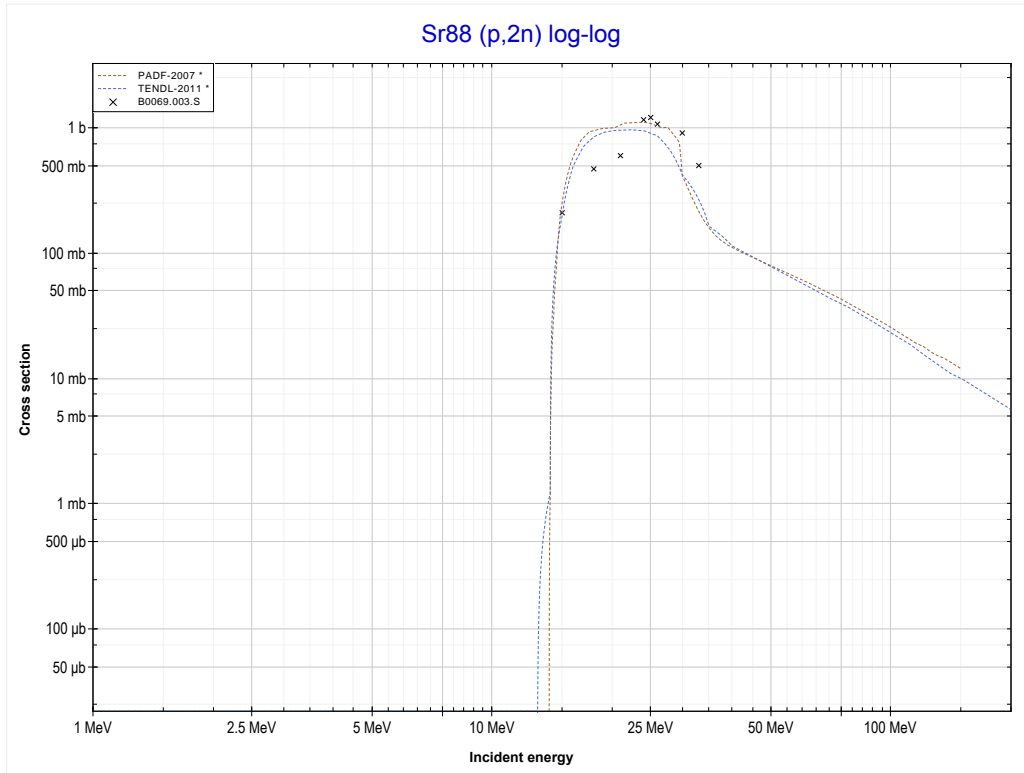


<< 38-Sr-87	<b>38-Sr-88</b>	39-Y-89 >>
<< MT107 (p, $\alpha$ )	<b>MT4 (p,n) or MT5 (Y88 production)</b>	MT16 (p,2n) >>



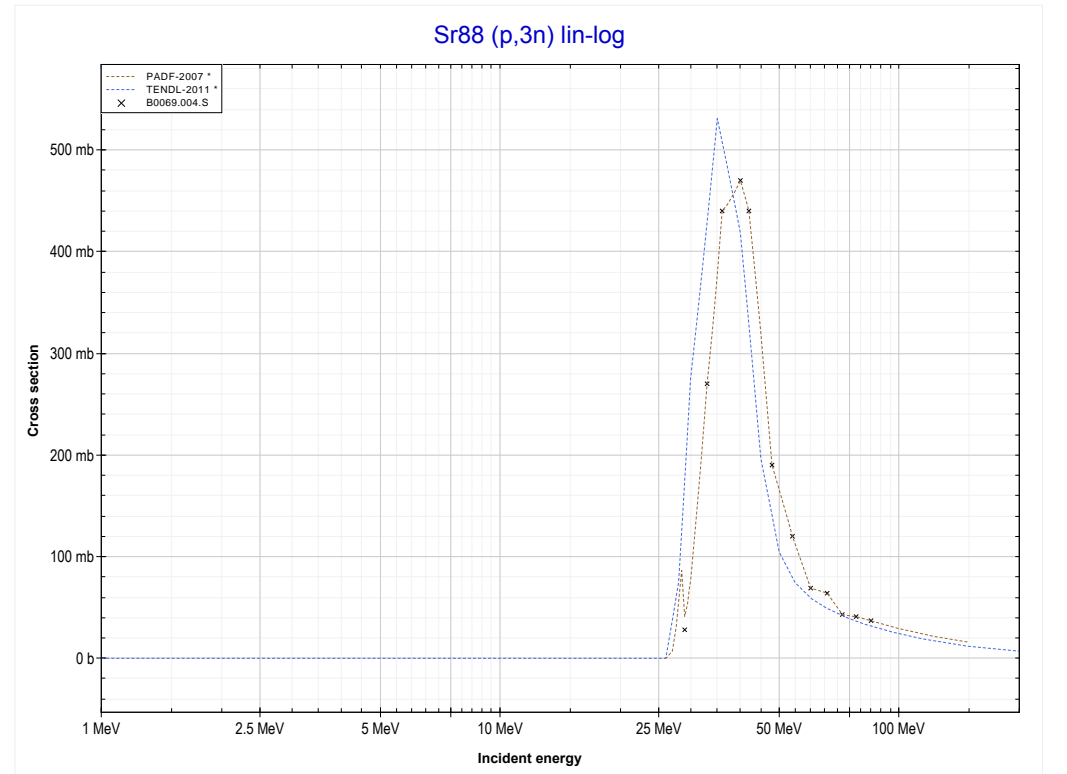
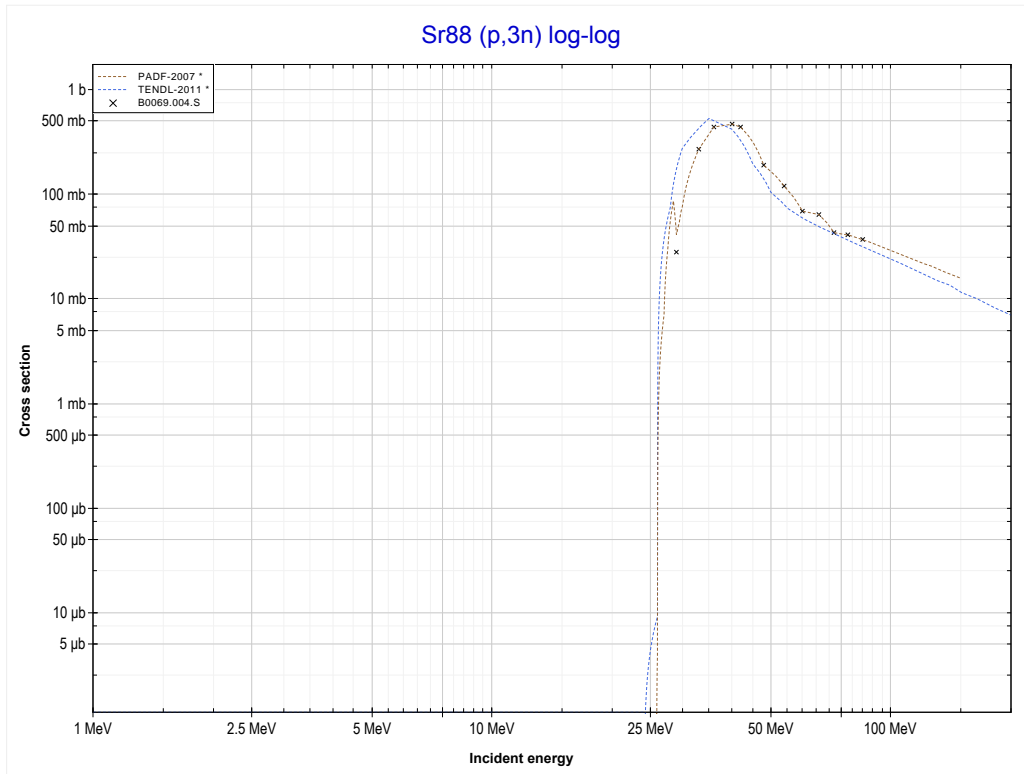
Reaction	Q-Value
Sr88(p,n)Y88	-4404.95 keV

<< 38-Sr-87	<b>38-Sr-88</b>	39-Y-89 >>
<< MT4 (p,n)	<b>MT16 (p,2n) or MT5 (Y87 production)</b>	MT17 (p,3n) >>



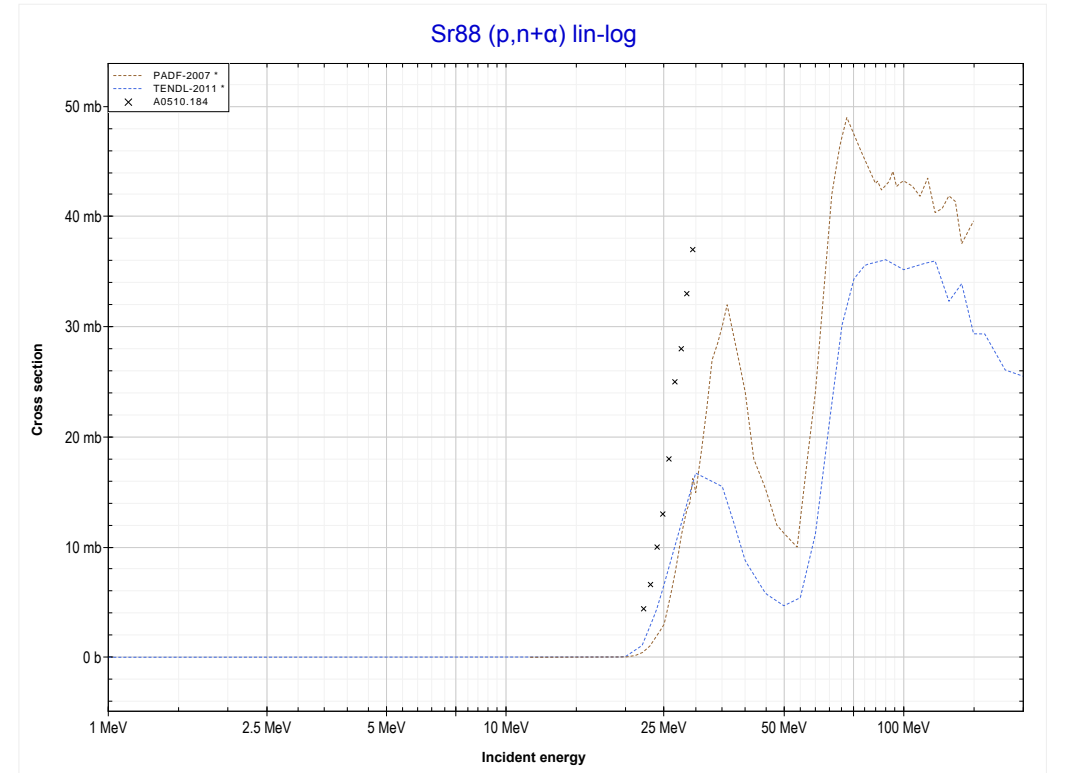
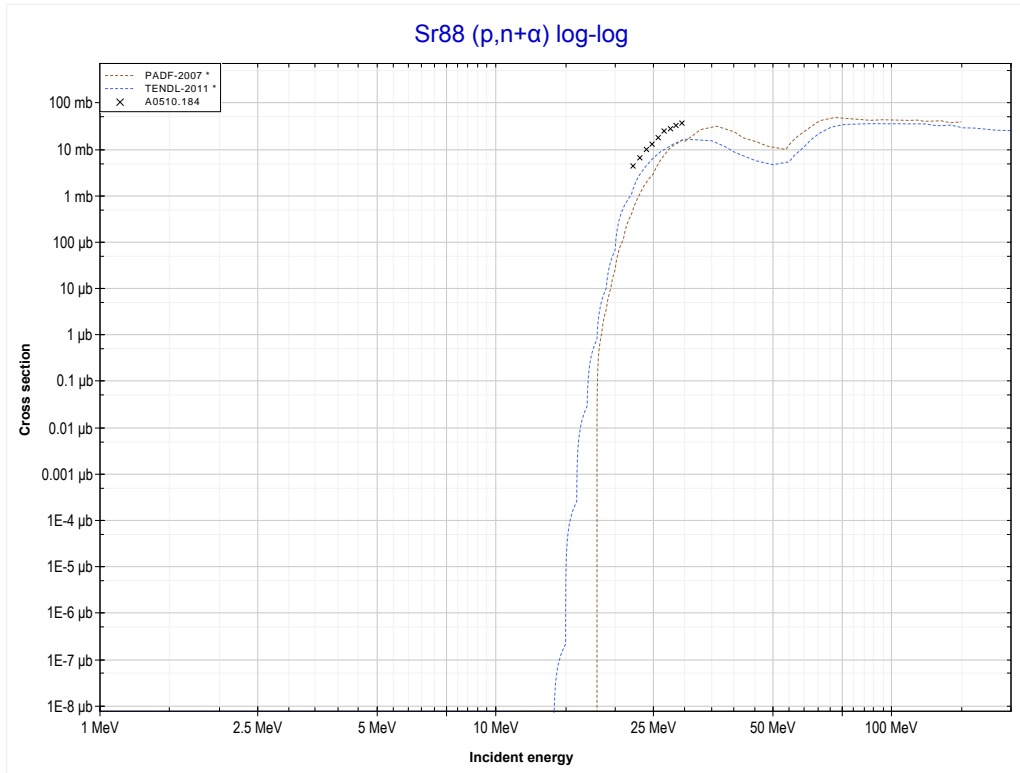
Reaction	Q-Value
Sr88(p,2n)Y87	-13756.66 keV

<< 37-Rb-85	<b>38-Sr-88</b>	39-Y-89 >>
<< MT16 (p,2n)	<b>MT17 (p,3n) or MT5 (Y86 production)</b>	MT22 (p,n+α) >>



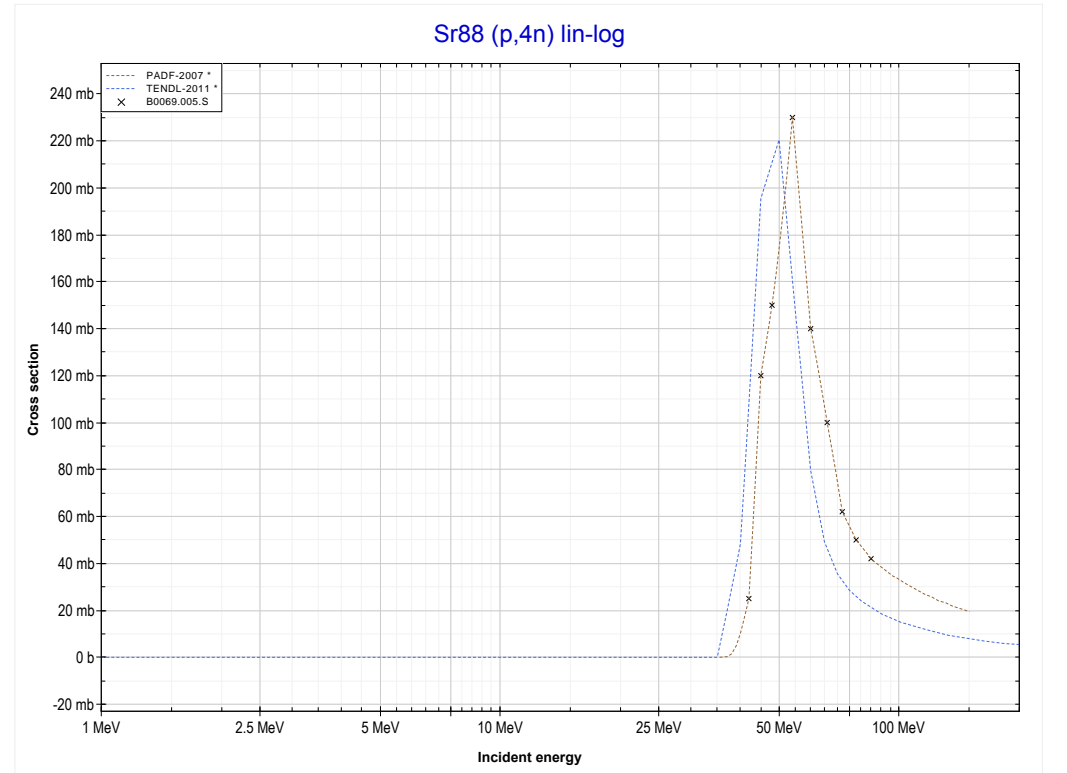
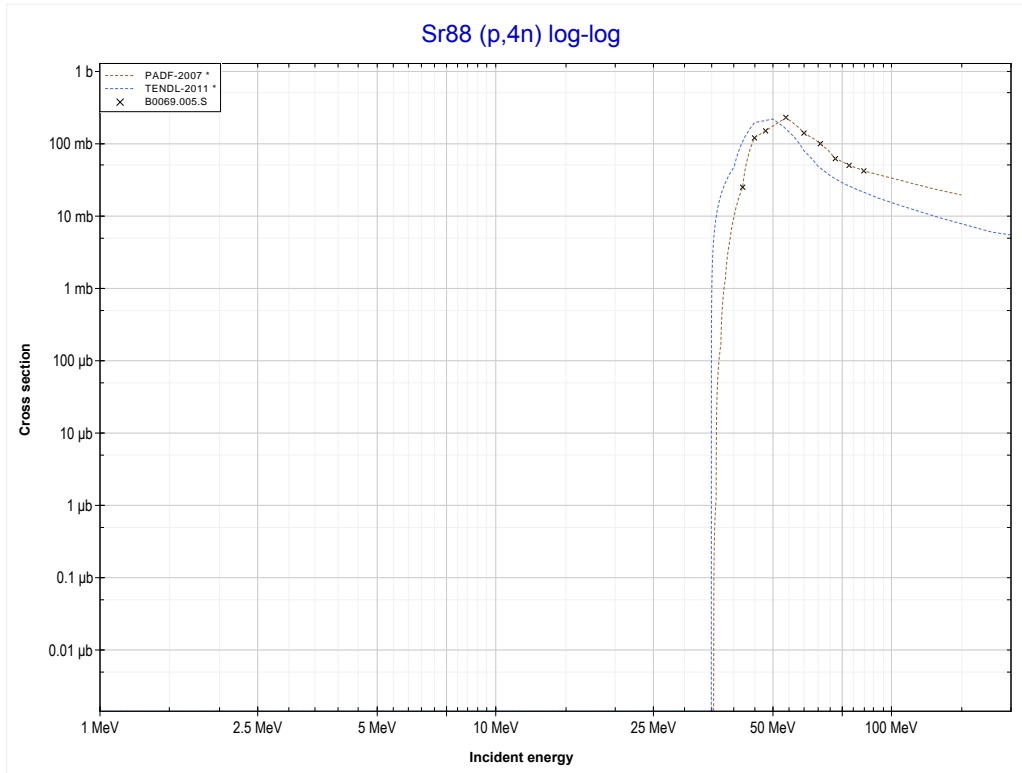
Reaction	Q-Value
Sr88(p,3n)Y86	-25562.68 keV

<< 38-Sr-87	<b>38-Sr-88</b>	39-Y-89 >>
<< MT17 (p,3n)	<b>MT22 (p,n+α) or MT5 (Rb84 production)</b>	MT37 (p,4n) >>



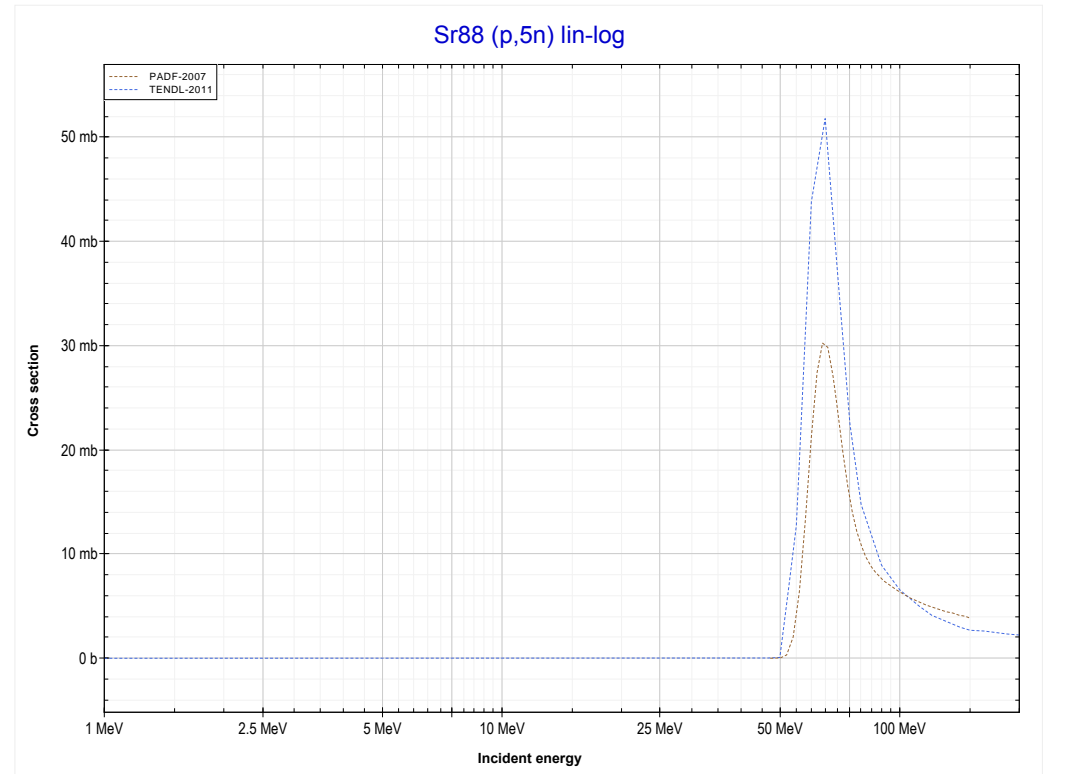
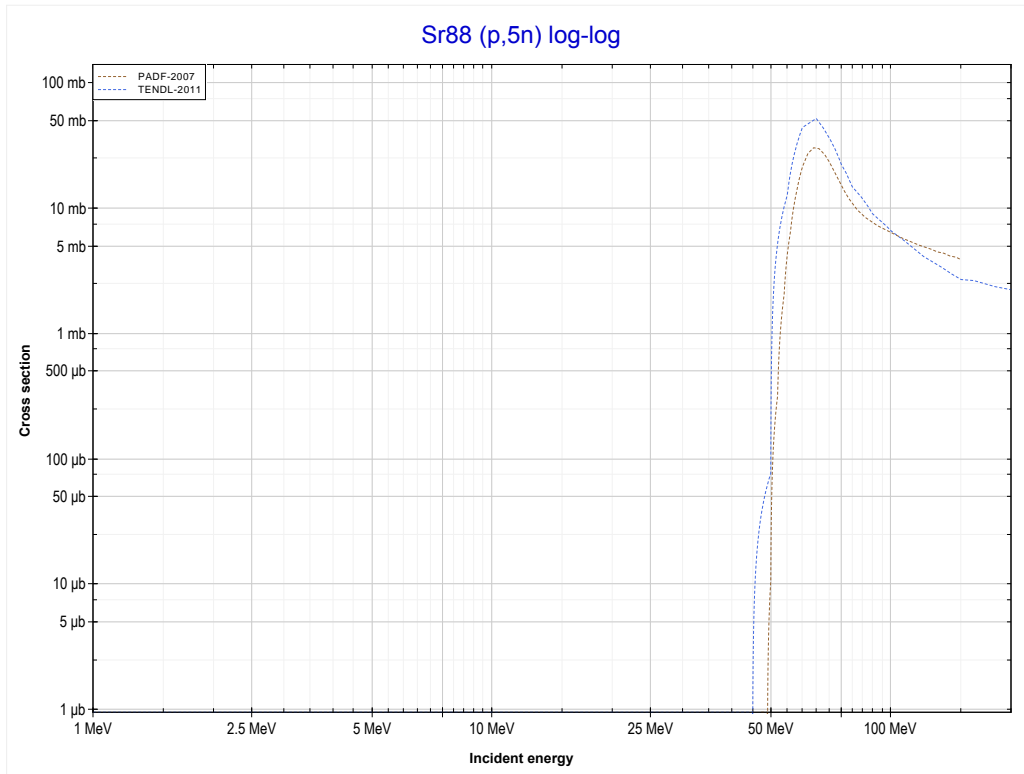
Reaction	Q-Value
Sr88(p,n+α)Rb84	-11378.96 keV
Sr88(p,d+t)Rb84	-28968.26 keV
Sr88(p,n+p+t)Rb84	-31192.82 keV
Sr88(p,2n+He3)Rb84	-31956.58 keV
Sr88(p,n+2d)Rb84	-35225.49 keV
Sr88(p,2n+p+d)Rb84	-37450.06 keV
Sr88(p,3n+2p)Rb84	-39674.62 keV

<< 37-Rb-85	<b>38-Sr-88</b>	39-Y-89 >>
<< MT22 (p,n+α)	<b>MT37 (p,4n) or MT5 (Y85 production)</b>	MT152 (p,5n) >>



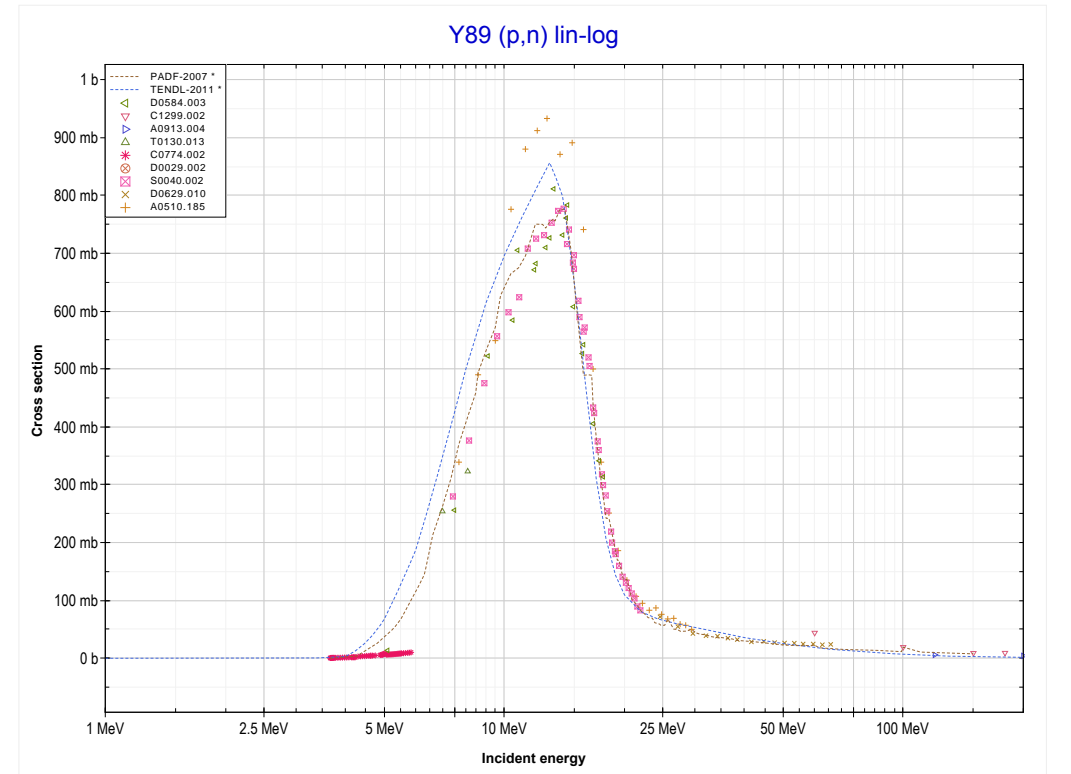
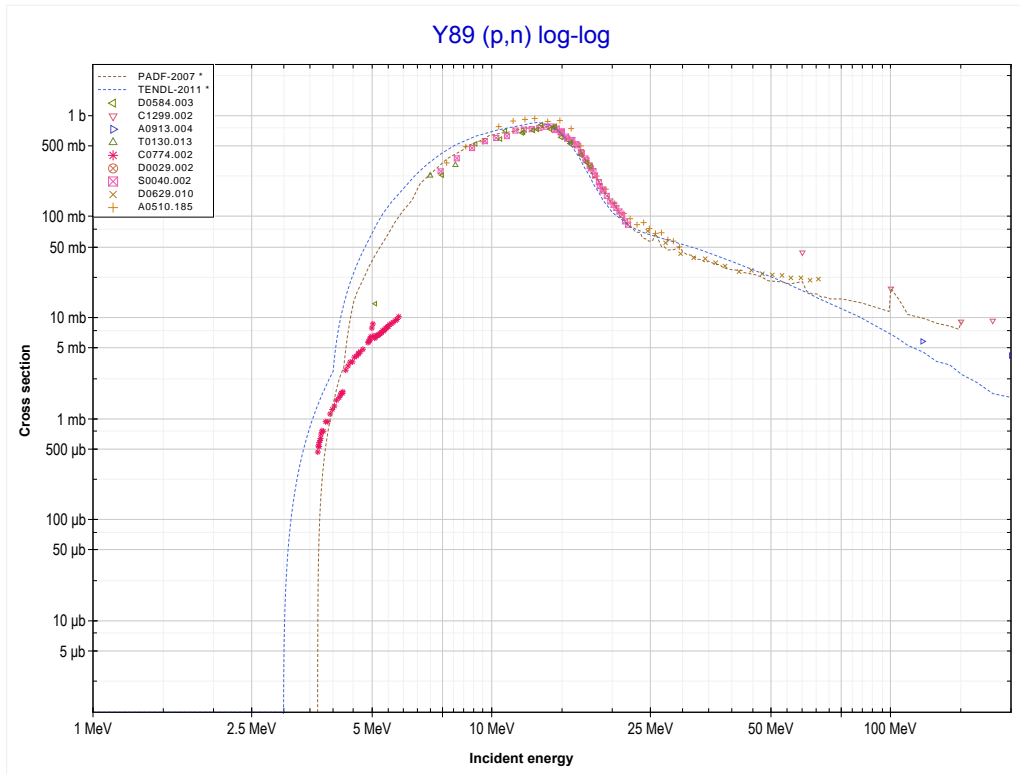
Reaction	Q-Value
Sr88(p,4n)Y85	-35076.00 keV

<< 37-Rb-85	<b>38-Sr-88</b>	50-Sn-124 >>
<< MT37 (p,4n)	<b>MT152 (p,5n) or MT5 (Y84 production)</b>	MT4 (p,n) >>



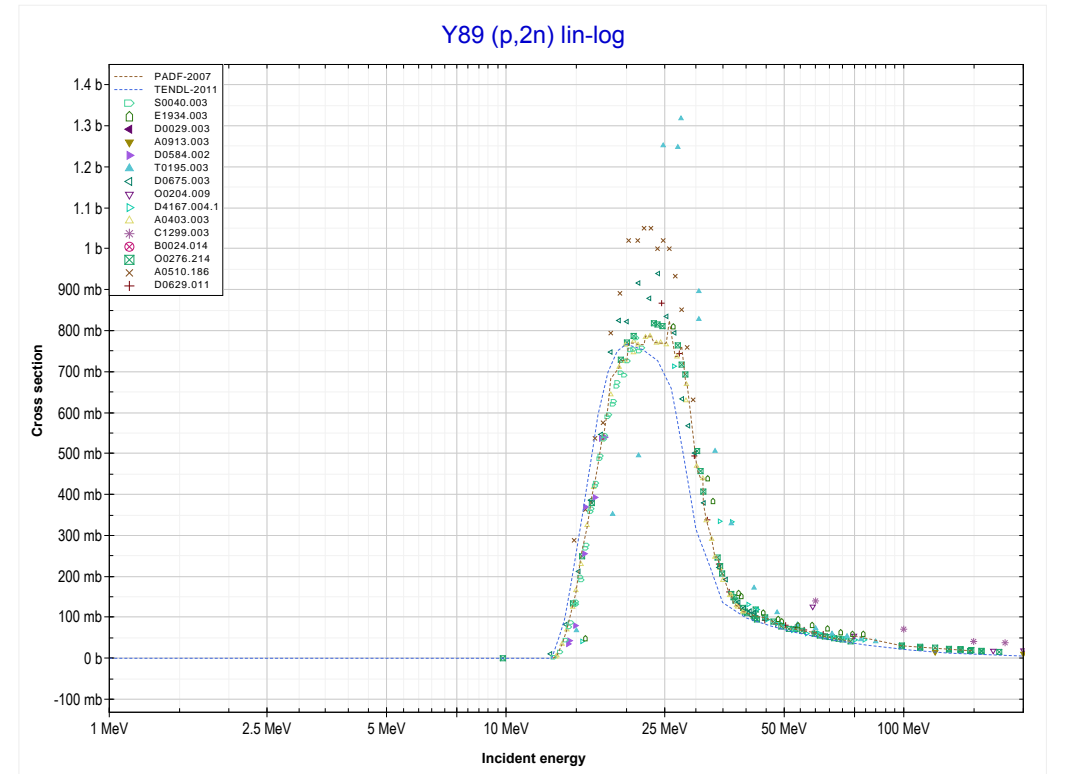
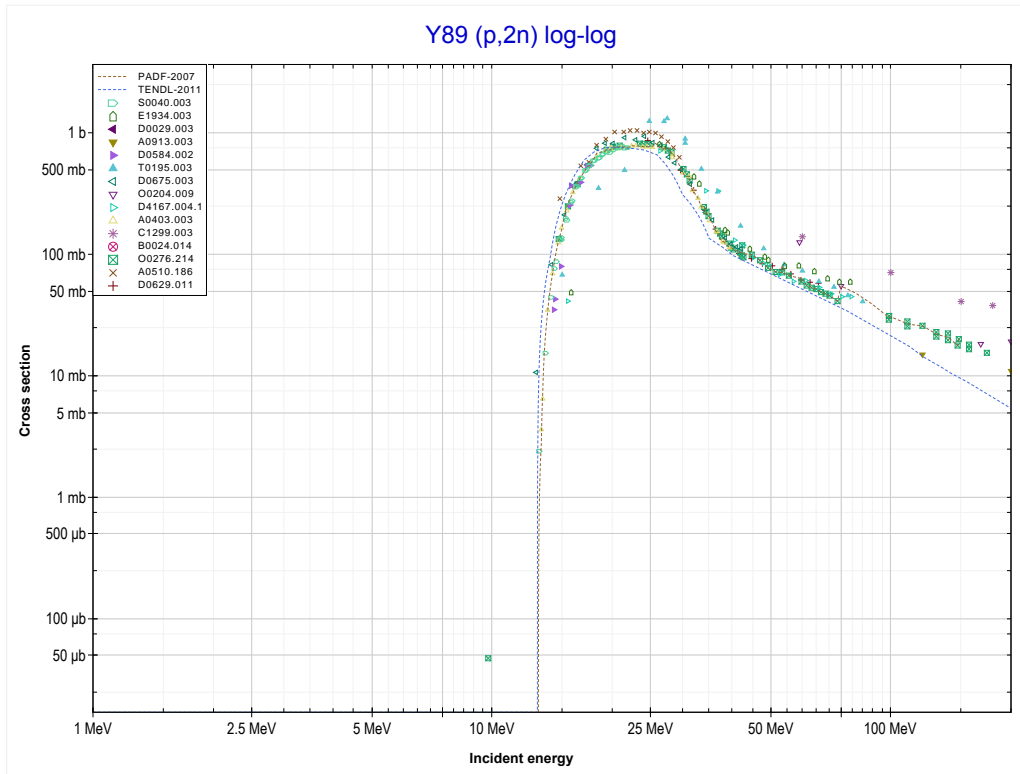
Reaction	Q-Value
Sr88(p,5n)Y84	-46829.32 keV

<< 38-Sr-88	<b>39-Y-89</b>	40-Zr-90 >>
<< MT152 (p,5n)	<b>MT4 (p,n) or MT5 (Zr89 production)</b>	MT16 (p,2n) >>



Reaction	Q-Value
Y89(p,n)Zr89	-3615.05 keV

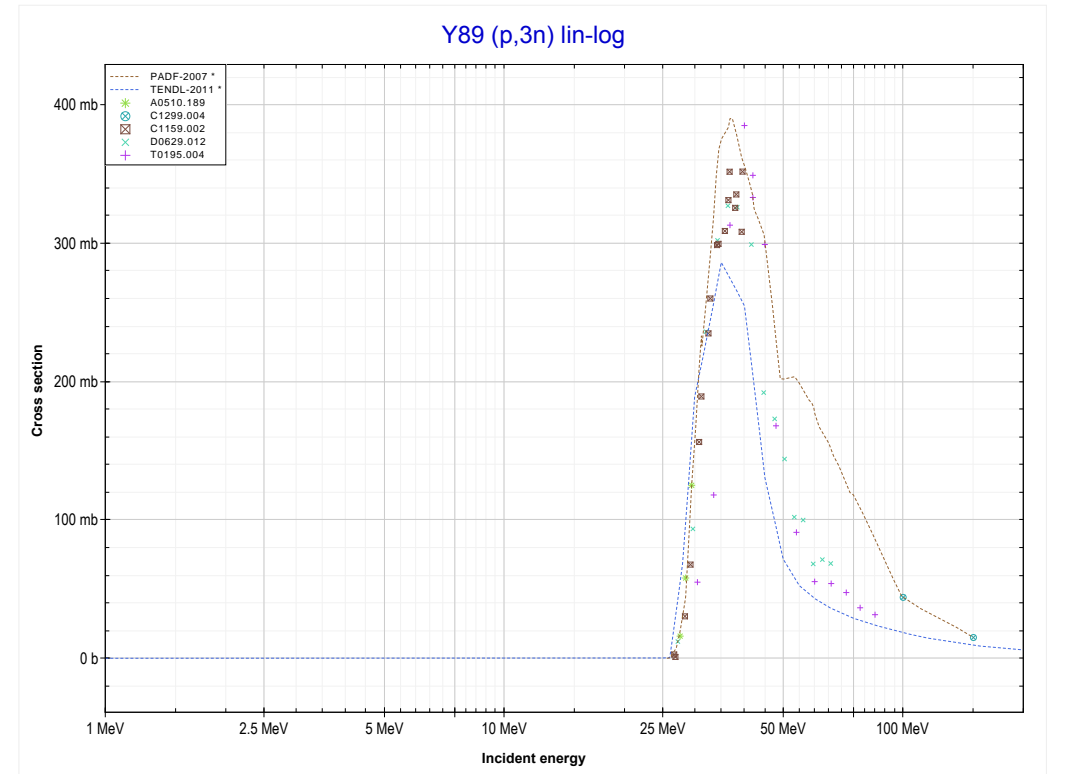
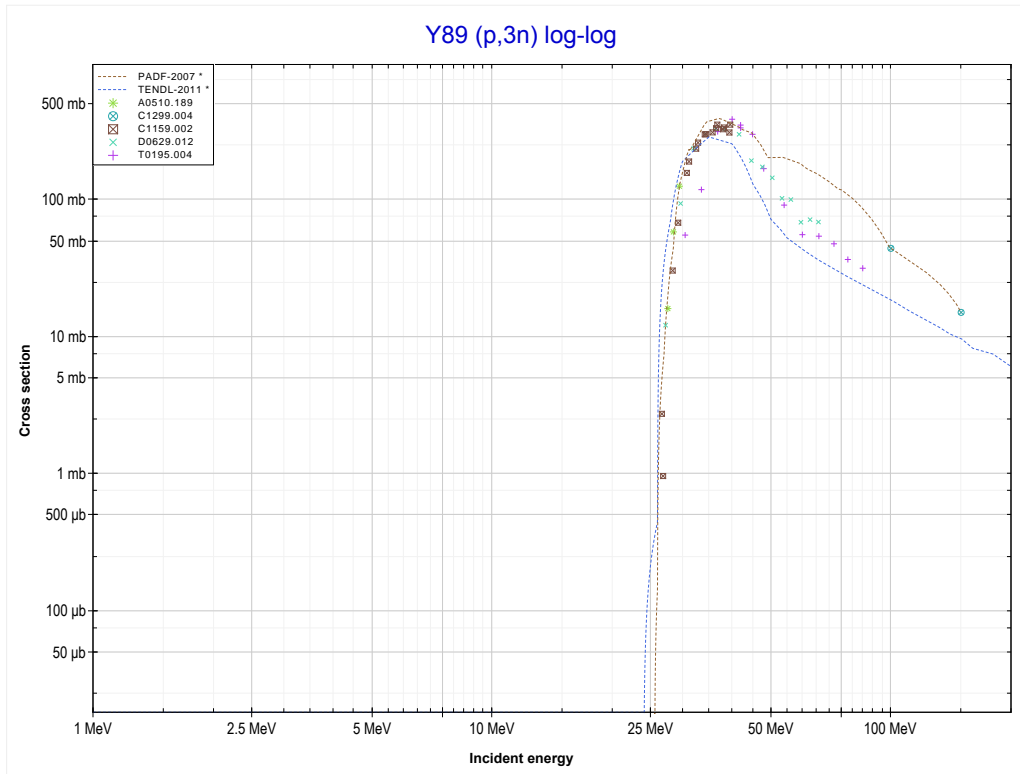
<< 38-Sr-88	<b>39-Y-89</b>	40-Zr-90 >>
<< MT4 (p,n)	<b>MT16 (p,2n) or MT5 (Zr88 production)</b>	MT17 (p,3n) >>



Reaction	Q-Value
Y89(p,2n)Zr88	-12932.36 keV

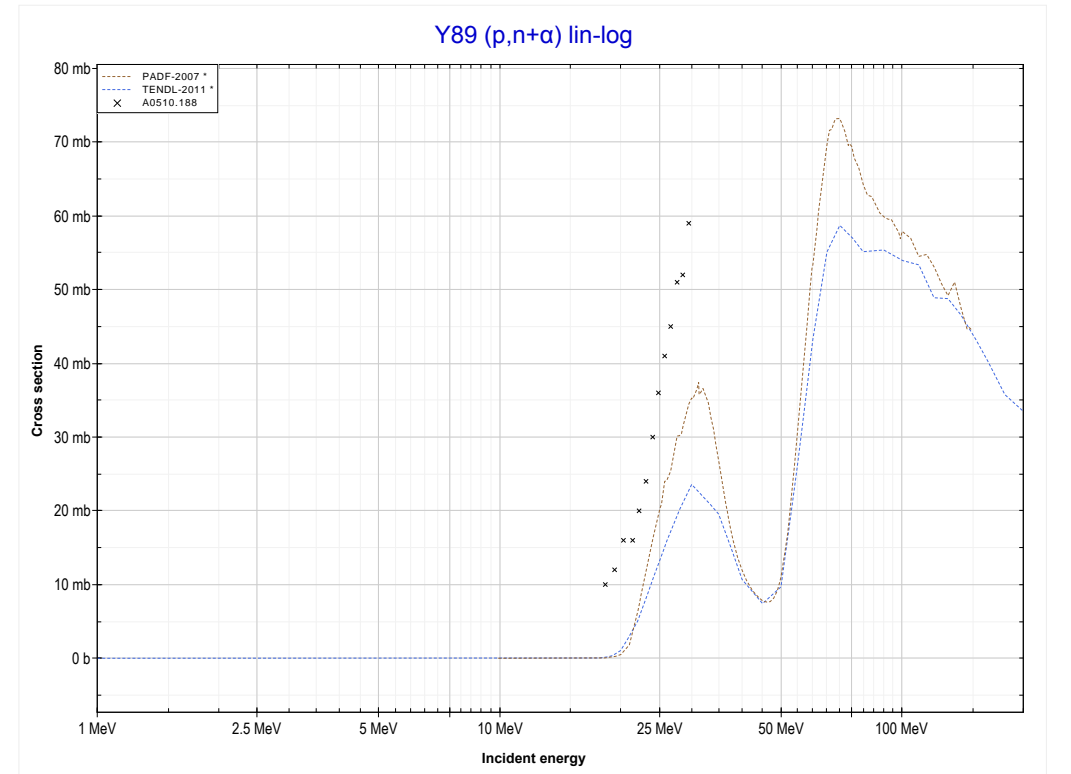
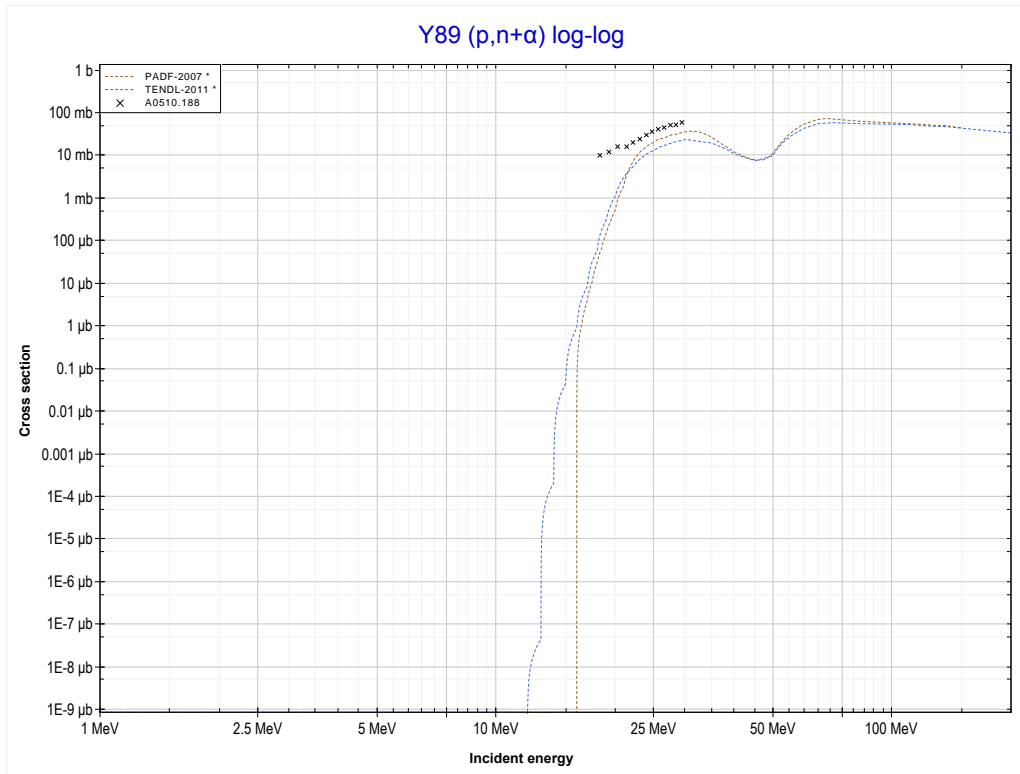


<< 38-Sr-88	<b>39-Y-89</b>	40-Zr-90 >>
<< MT16 (p,2n)	<b>MT17 (p,3n) or MT5 (Zr87 production)</b>	MT22 (p,n+α) >>



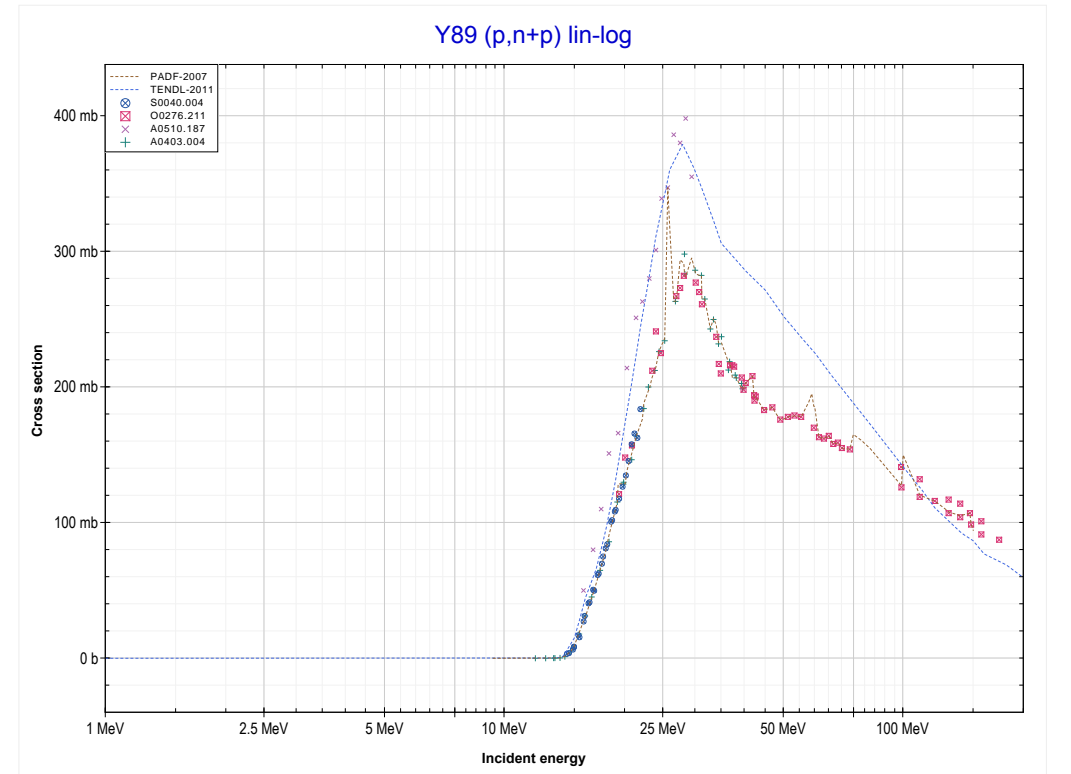
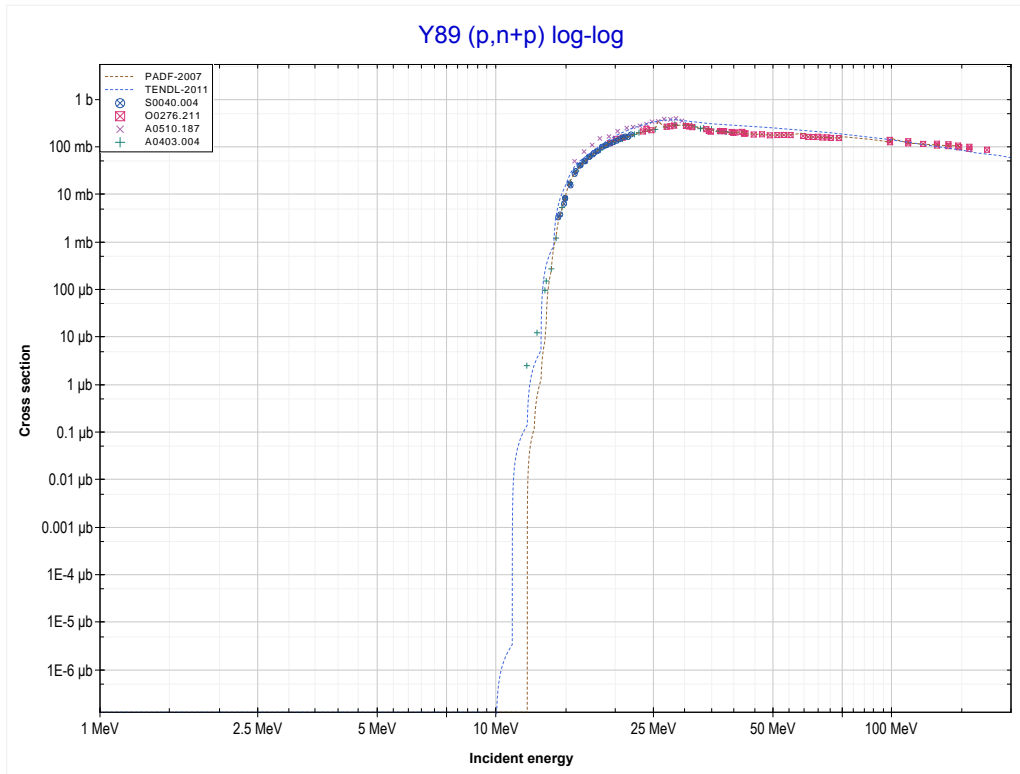
Reaction	Q-Value
Y89(p,3n)Zr87	-25278.68 keV

<< 38-Sr-88	<b>39-Y-89</b>	40-Zr-90 >>
<< MT17 (p,3n)	<b>MT22 (p,n+α) or MT5 (Sr85 production)</b>	MT28 (p,n+p) >>



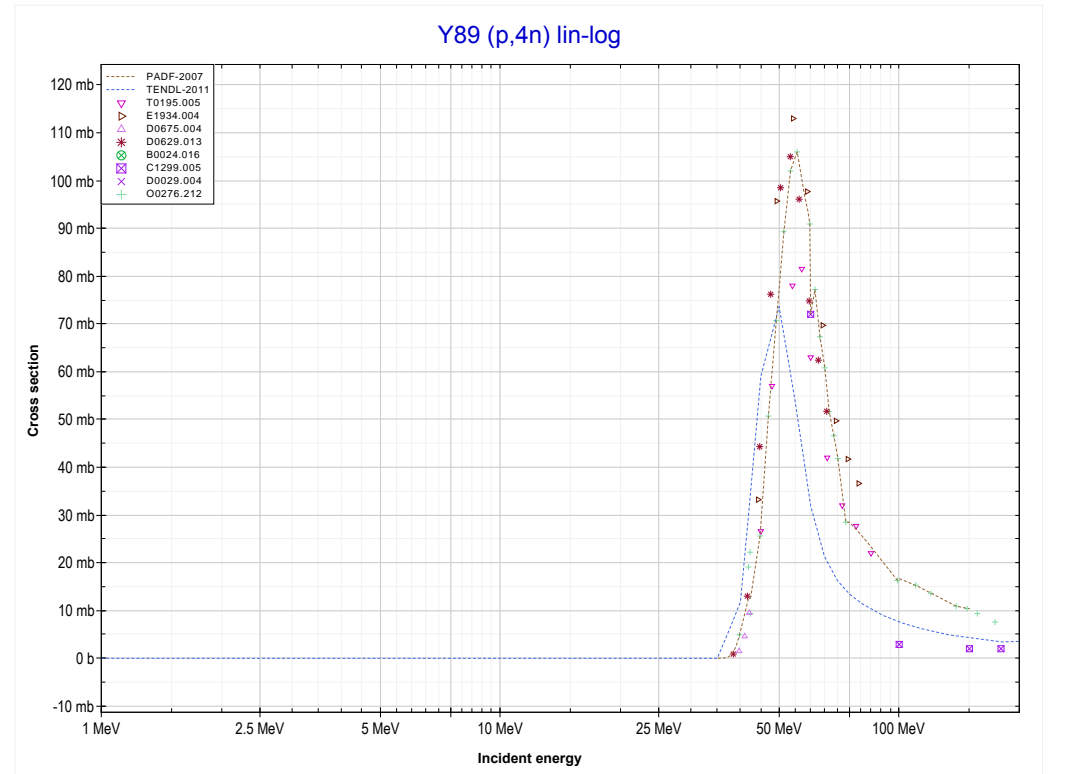
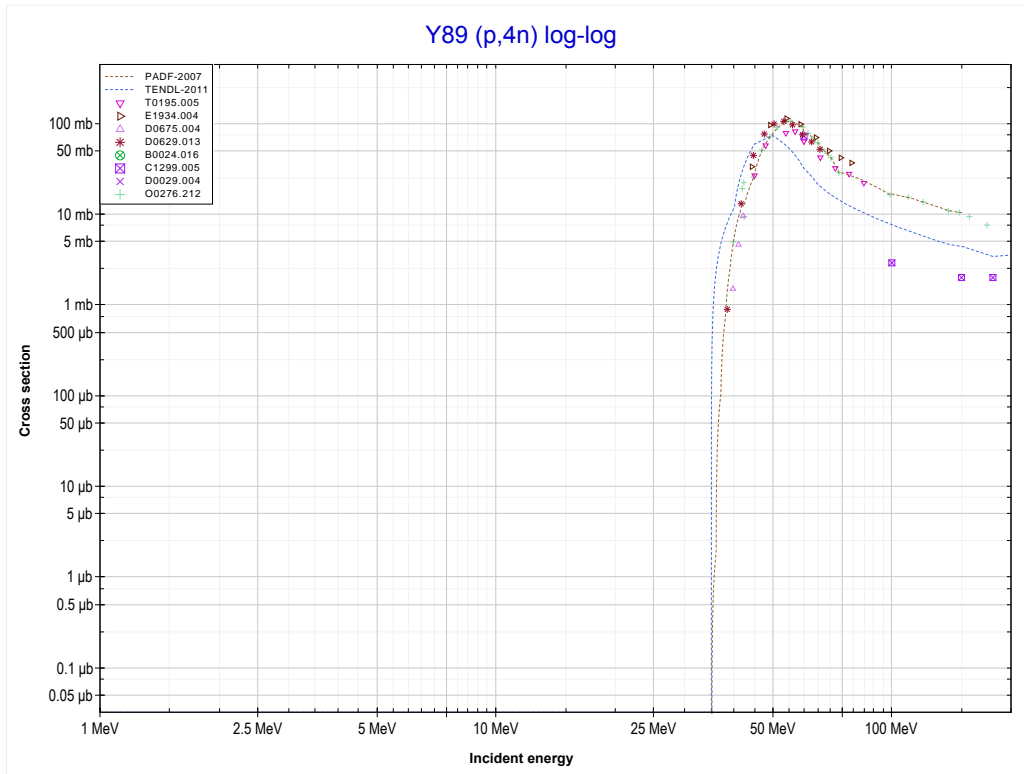
Reaction	Q-Value
Y89(p,n+α)Sr85	-9806.36 keV
Y89(p,d+t)Sr85	-27395.66 keV
Y89(p,n+p+t)Sr85	-29620.22 keV
Y89(p,2n+He3)Sr85	-30383.98 keV
Y89(p,n+2d)Sr85	-33652.89 keV
Y89(p,2n+p+d)Sr85	-35877.46 keV
Y89(p,3n+2p)Sr85	-38102.02 keV

<< 38-Sr-86	<b>39-Y-89</b>	40-Zr-90 >>
<< MT22 (p,n+α)	<b>MT28 (p,n+p) or MT5 (Y88 production)</b>	MT37 (p,4n) >>



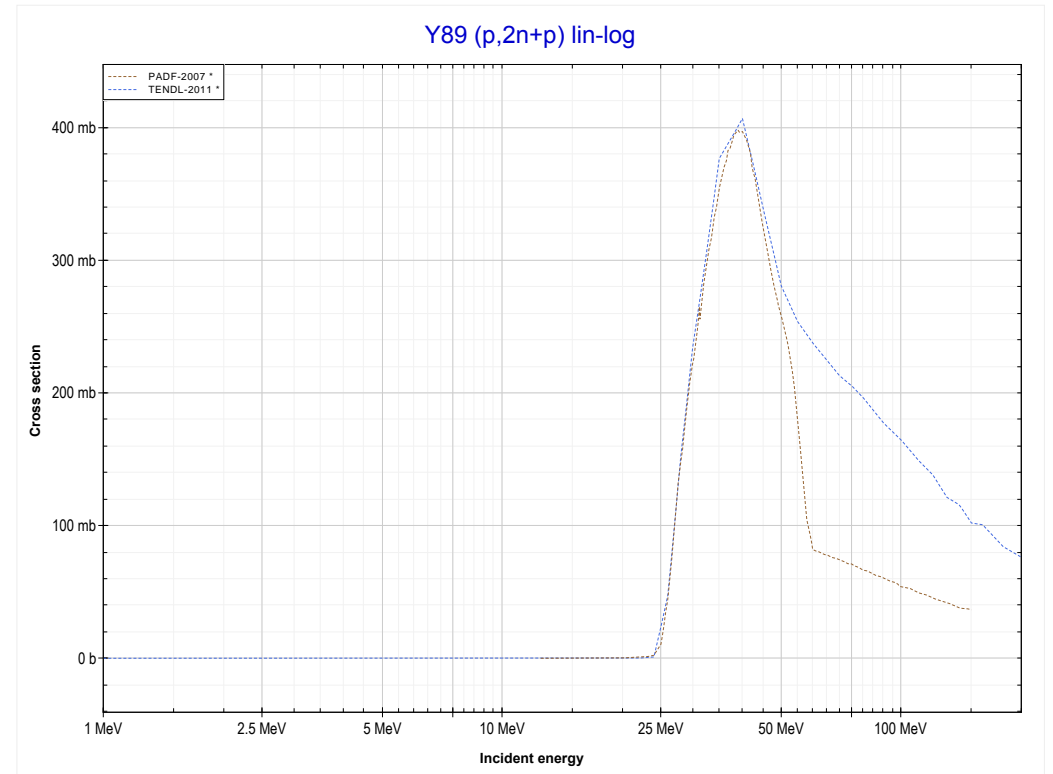
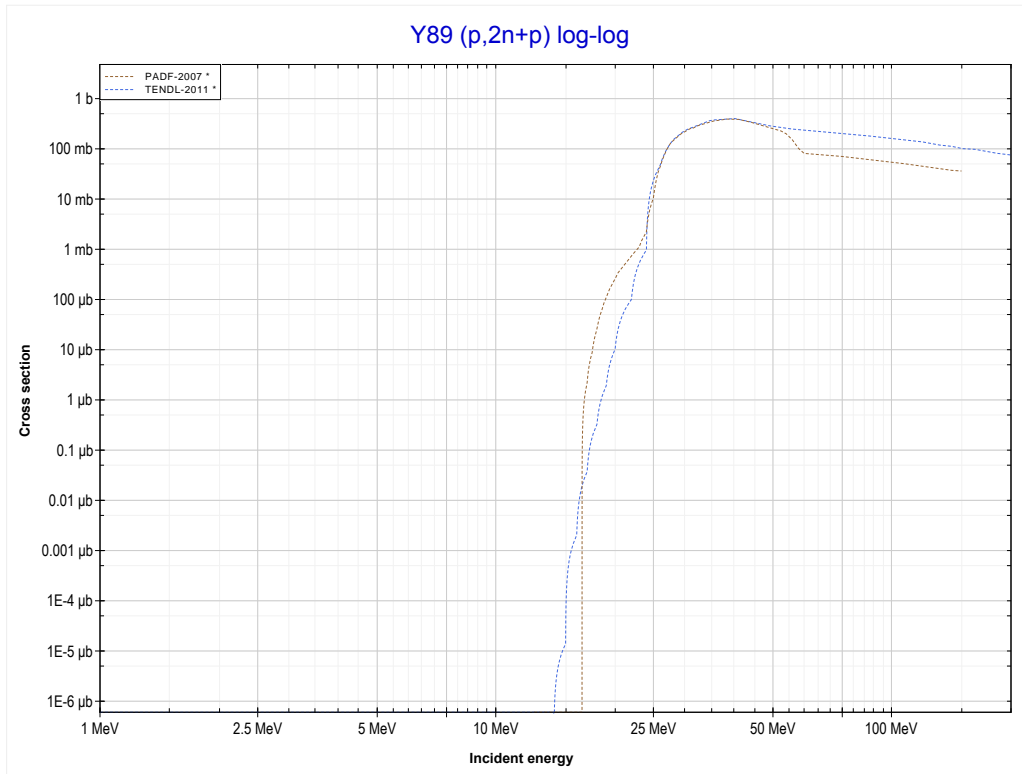
Reaction	Q-Value
Y89(p,d)Y88	-9249.35 keV
Y89(p,n+p)Y88	-11473.92 keV

<< 38-Sr-88	<b>39-Y-89</b>	41-Nb-93 >>
<< MT28 (p,n+p)	<b>MT37 (p,4n) or MT5 (Zr86 production)</b>	MT41 (p,2n+p) >>



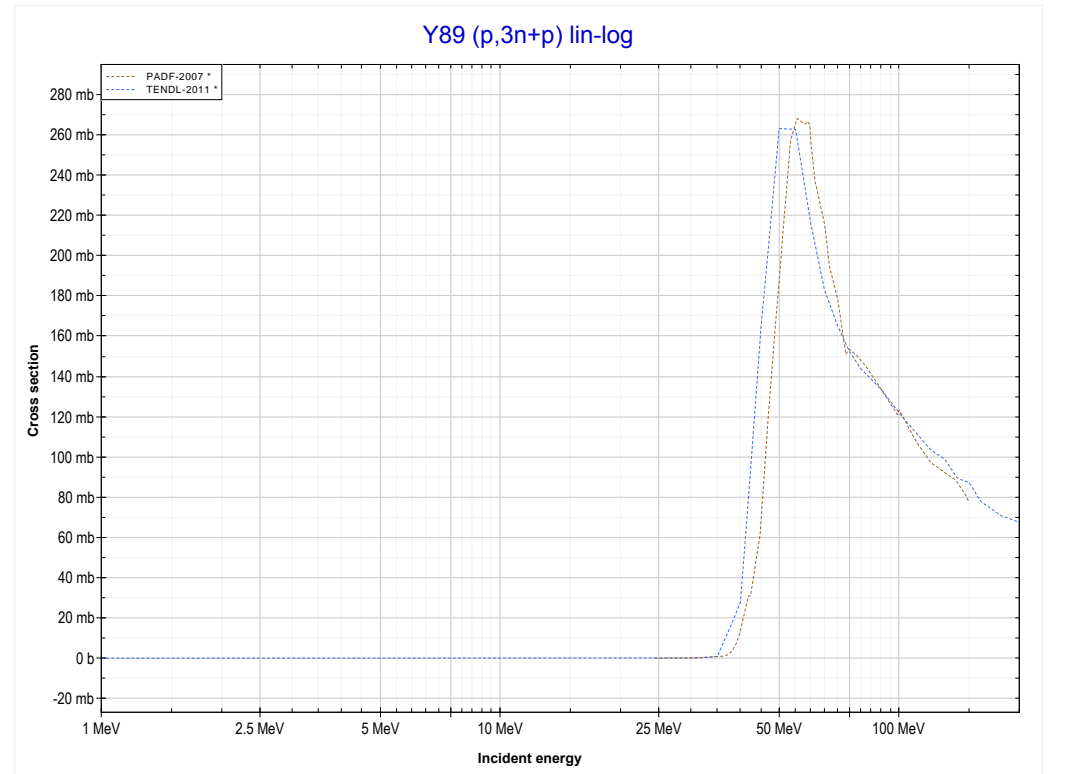
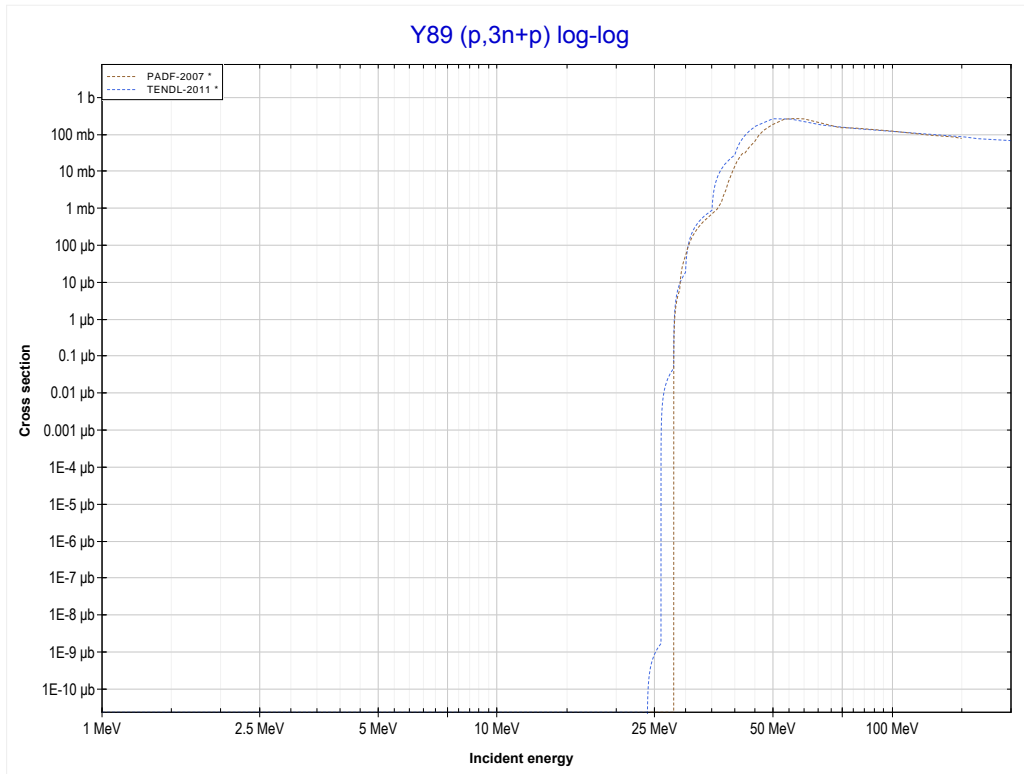
Reaction	Q-Value
Y89(p,4n)Zr86	-34898.00 keV

<< 37-Rb-85	<b>39-Y-89</b>	40-Zr-91 >>
<< MT37 (p,4n)	<b>MT41 (p,2n+p) or MT5 (Y87 production)</b>	MT42 (p,3n+p) >>



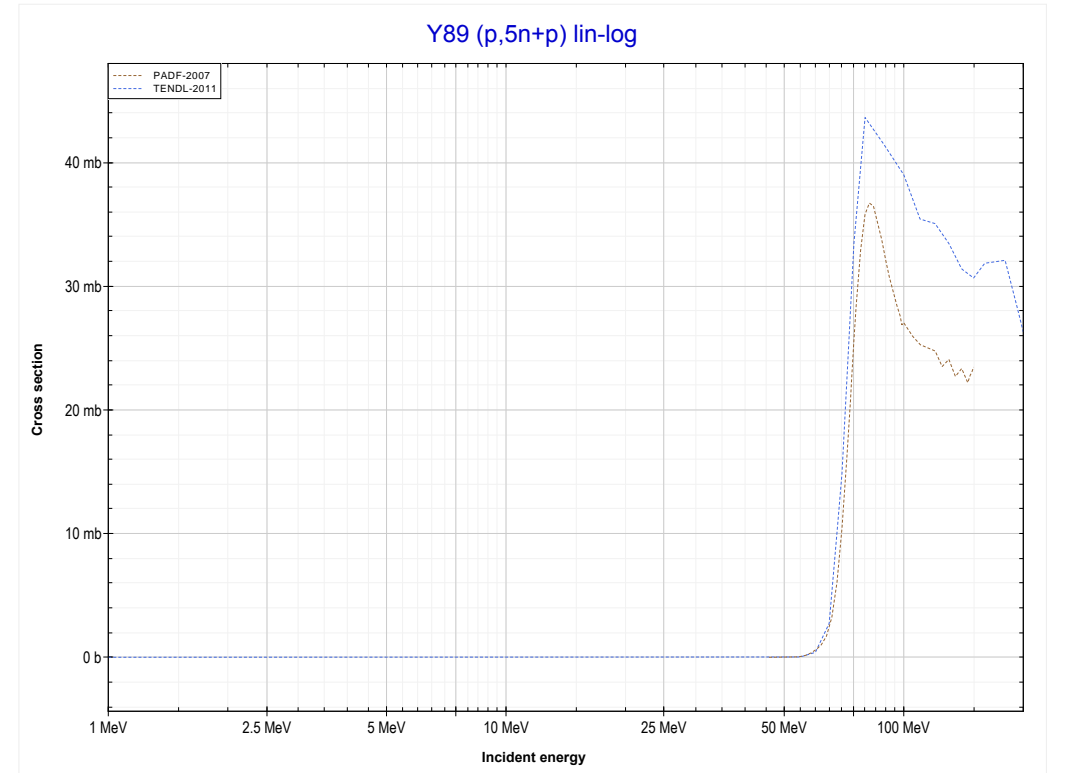
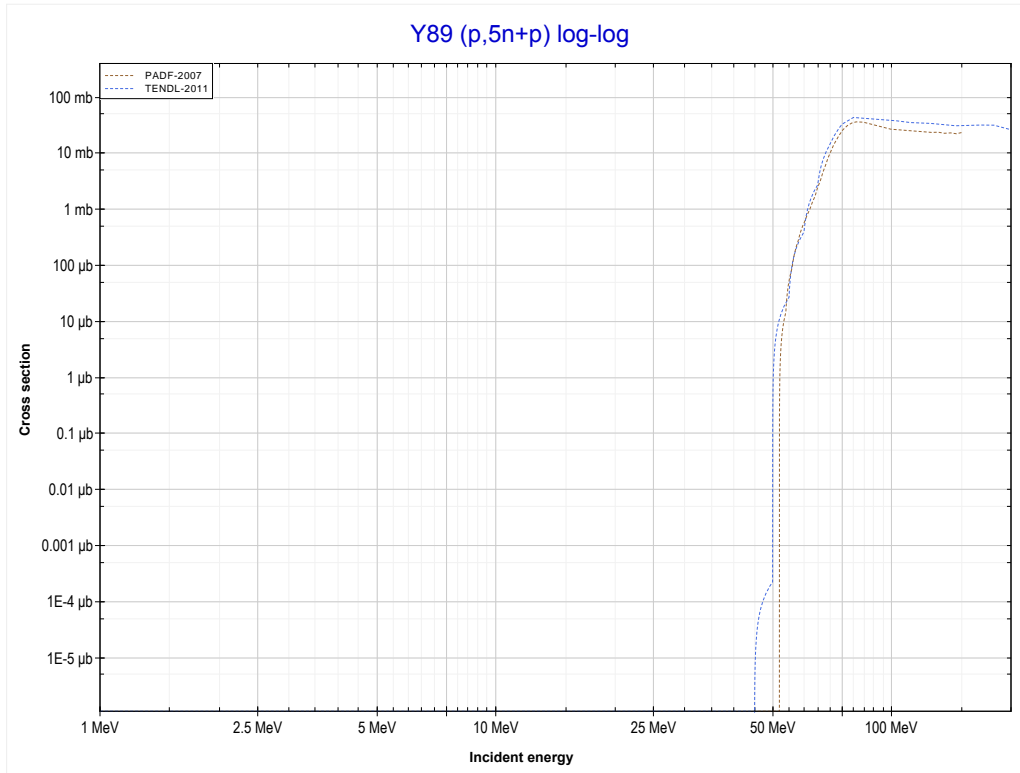
Reaction	Q-Value
Y89(p,t)Y87	-12343.84 keV
Y89(p,n+d)Y87	-18601.07 keV
Y89(p,2n+p)Y87	-20825.63 keV

<< 31-Ga-71	<b>39-Y-89</b>	90-Th-232 >>
<< MT41 (p,2n+p)	<b>MT42 (p,3n+p) or MT5 (Y86 production)</b>	MT162 (p,5n+p) >>



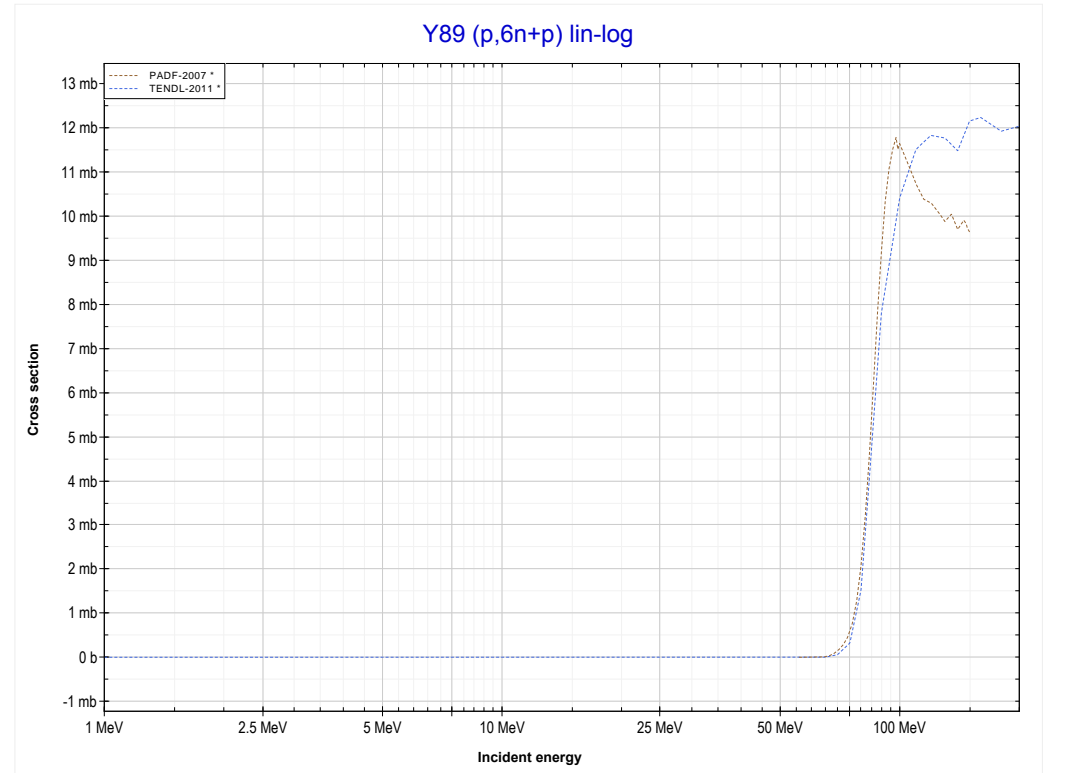
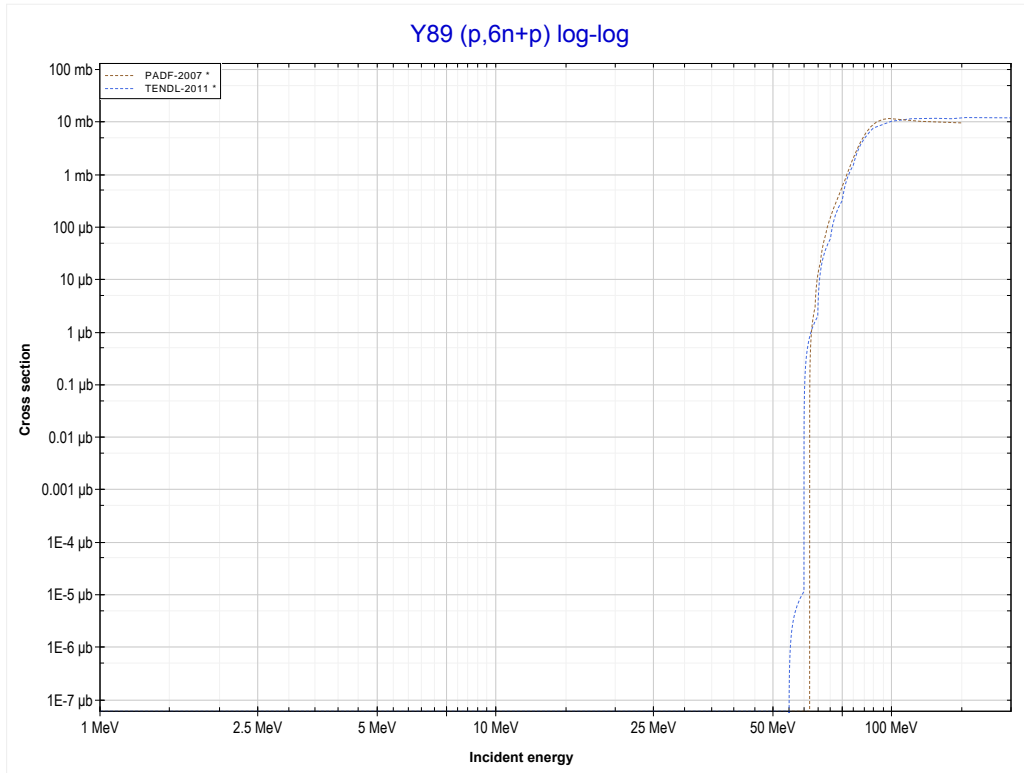
Reaction	Q-Value
Y89(p,n+t)Y86	-24149.85 keV
Y89(p,2n+d)Y86	-30407.09 keV
Y89(p,3n+p)Y86	-32631.65 keV

<< 31-Ga-71	<b>39-Y-89</b>	90-Th-232 >>
<< MT42 (p,3n+p)	<b>MT162 (p,5n+p) or MT5 (Y84 production)</b>	MT163 (p,6n+p) >>



Reaction	Q-Value
Y89(p,3n+t)Y84	-45416.49 keV
Y89(p,4n+d)Y84	-51673.72 keV
Y89(p,5n+p)Y84	-53898.29 keV

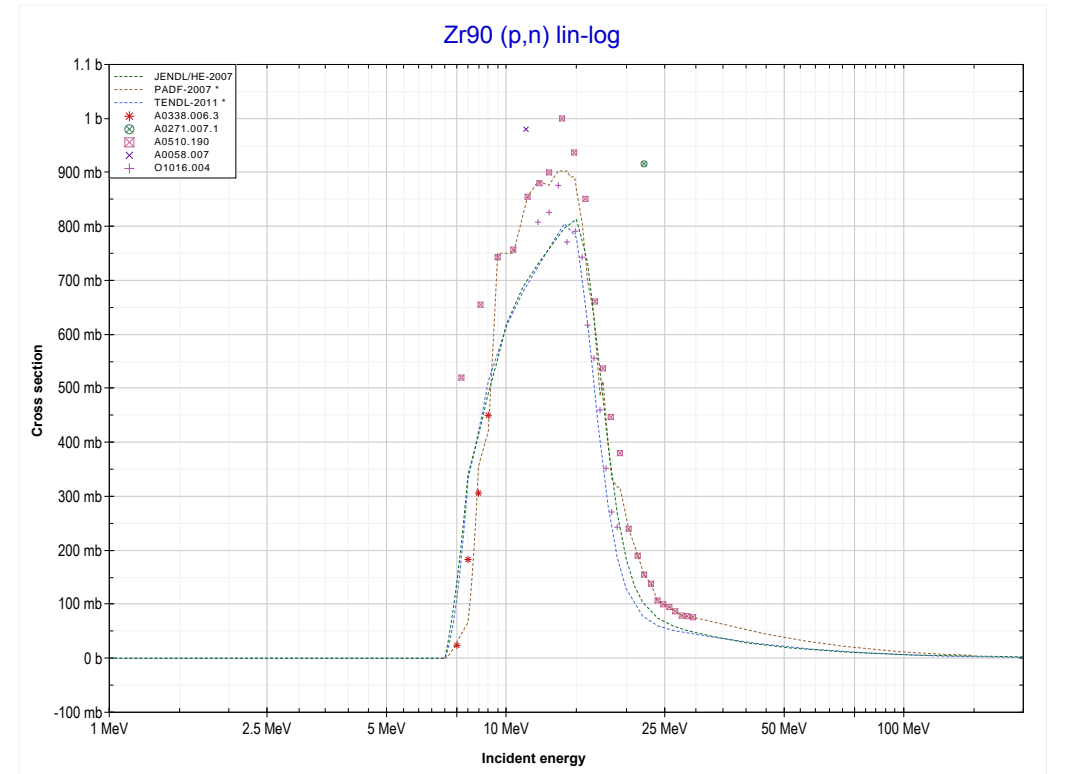
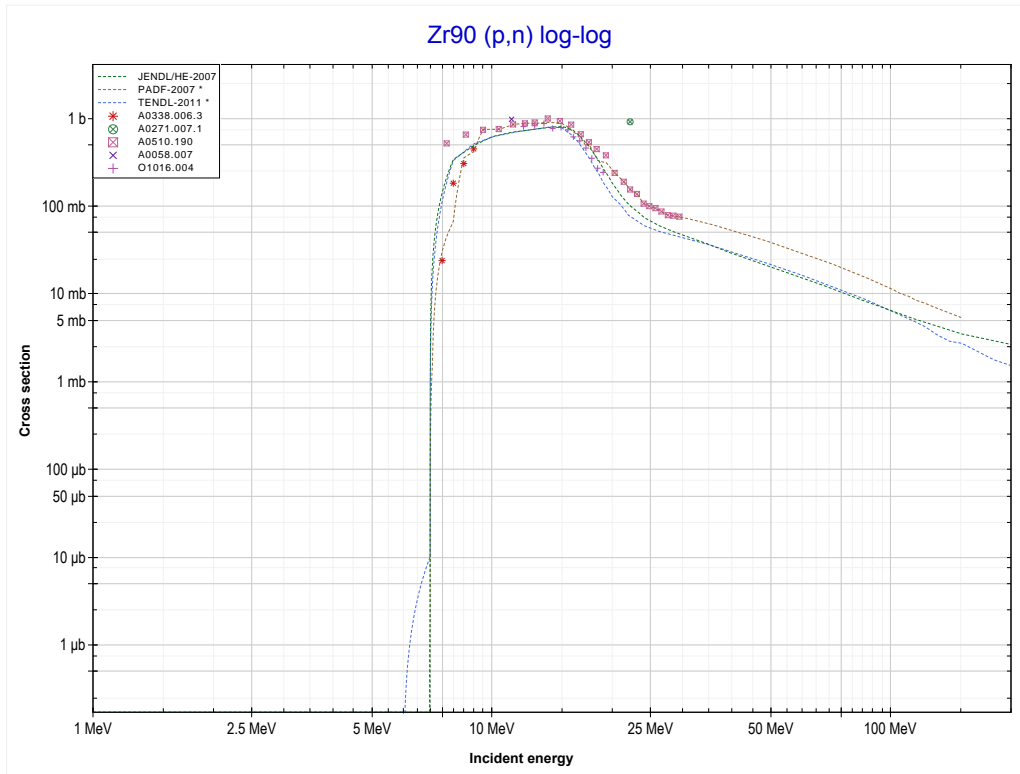
	<b>39-Y-89</b>	90-Th-232 >>
<< MT162 (p,5n+p)	<b>MT163 (p,6n+p) or MT5 (Y83 production)</b>	MT4 (p,n) >>



Reaction	Q-Value
Y89(p,4n+t)Y83	-55317.80 keV
Y89(p,5n+d)Y83	-61575.04 keV
Y89(p,6n+p)Y83	-63799.60 keV

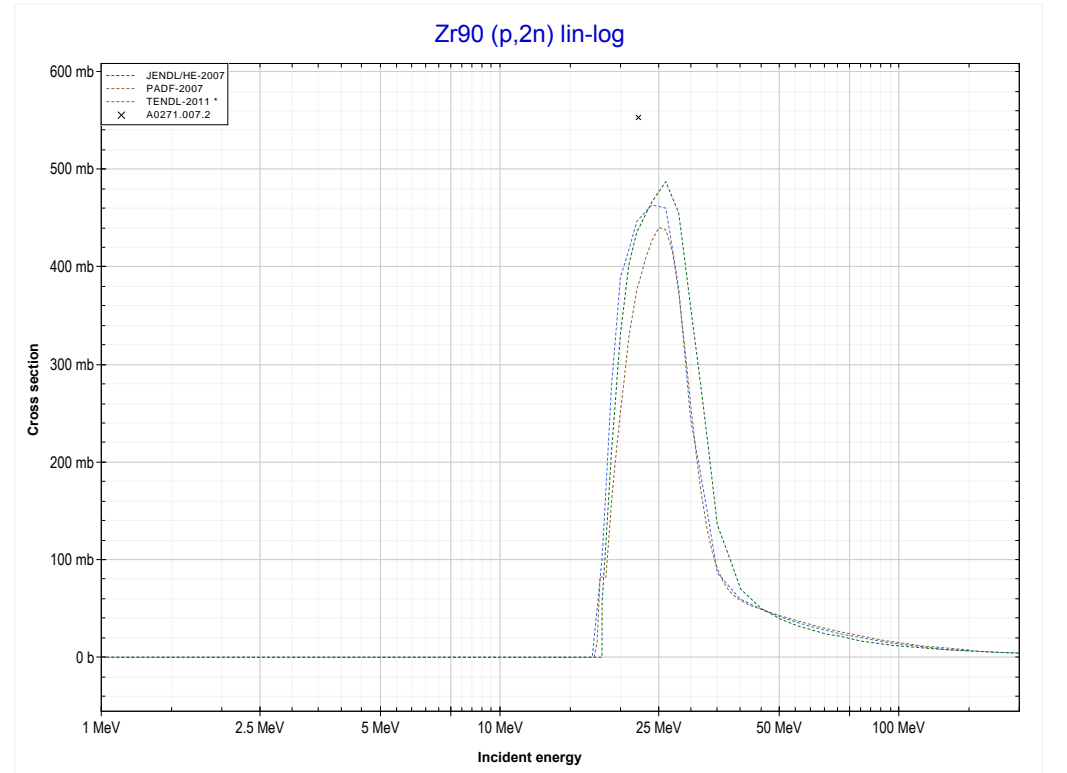
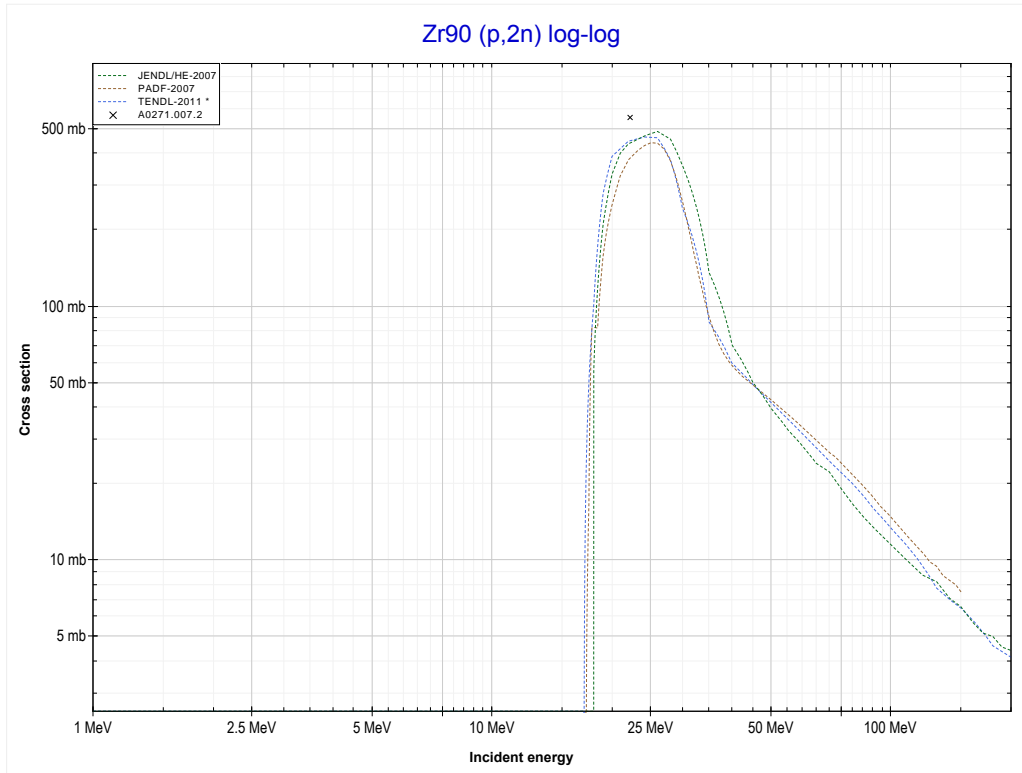


<< 39-Y-89	<b>40-Zr-90</b>	40-Zr-91 >>
<< MT163 (p,6n+p)	<b>MT4 (p,n) or MT5 (Nb90 production)</b>	MT16 (p,2n) >>



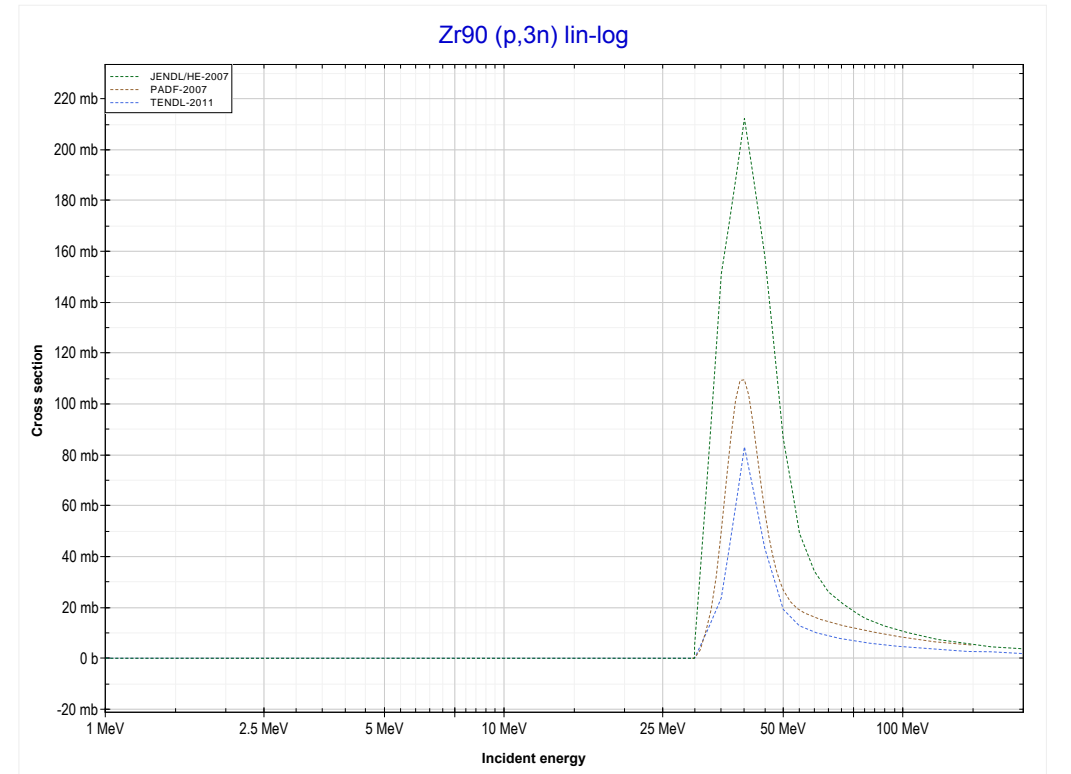
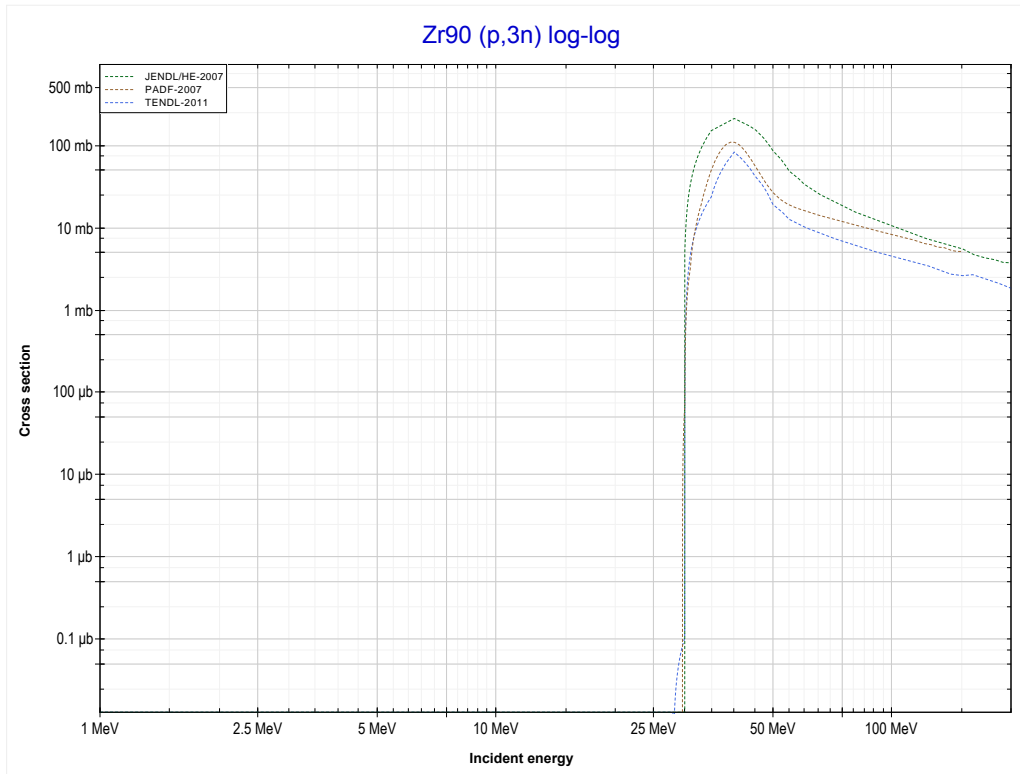
Reaction	Q-Value
Zr90(p,n)Nb90	-6893.65 keV

<< 39-Y-89	<b>40-Zr-90</b>	40-Zr-91 >>
<< MT4 (p,n)	<b>MT16 (p,2n) or MT5 (Nb89 production)</b>	MT17 (p,3n) >>



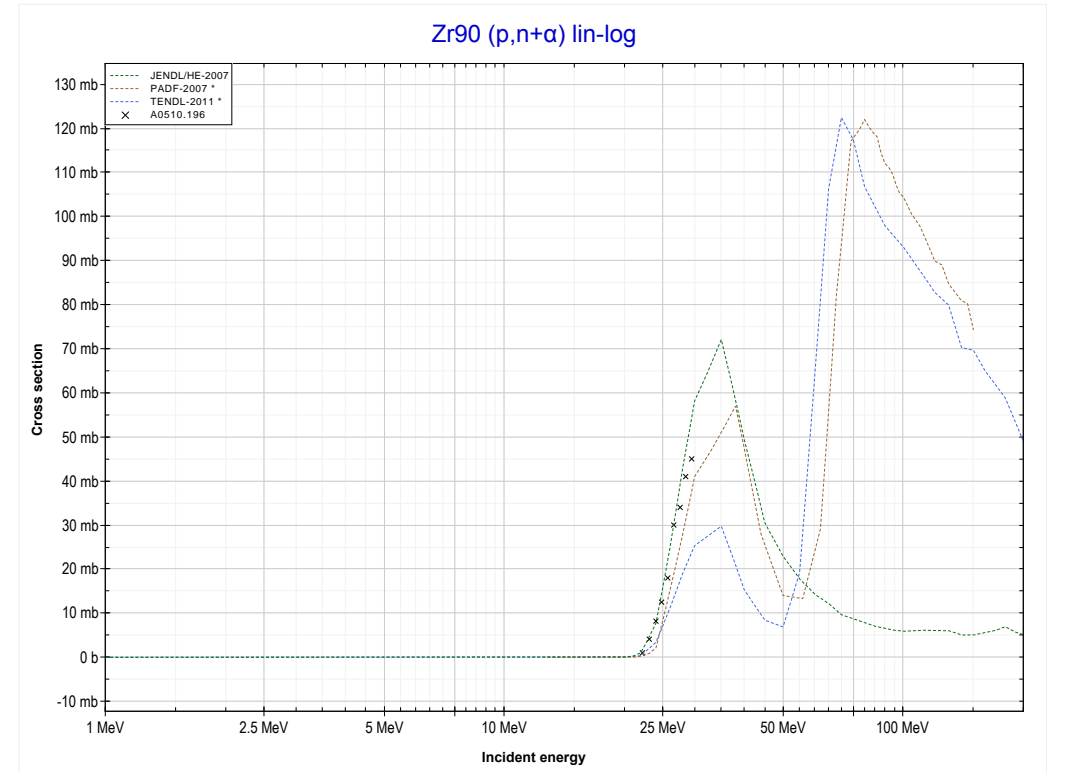
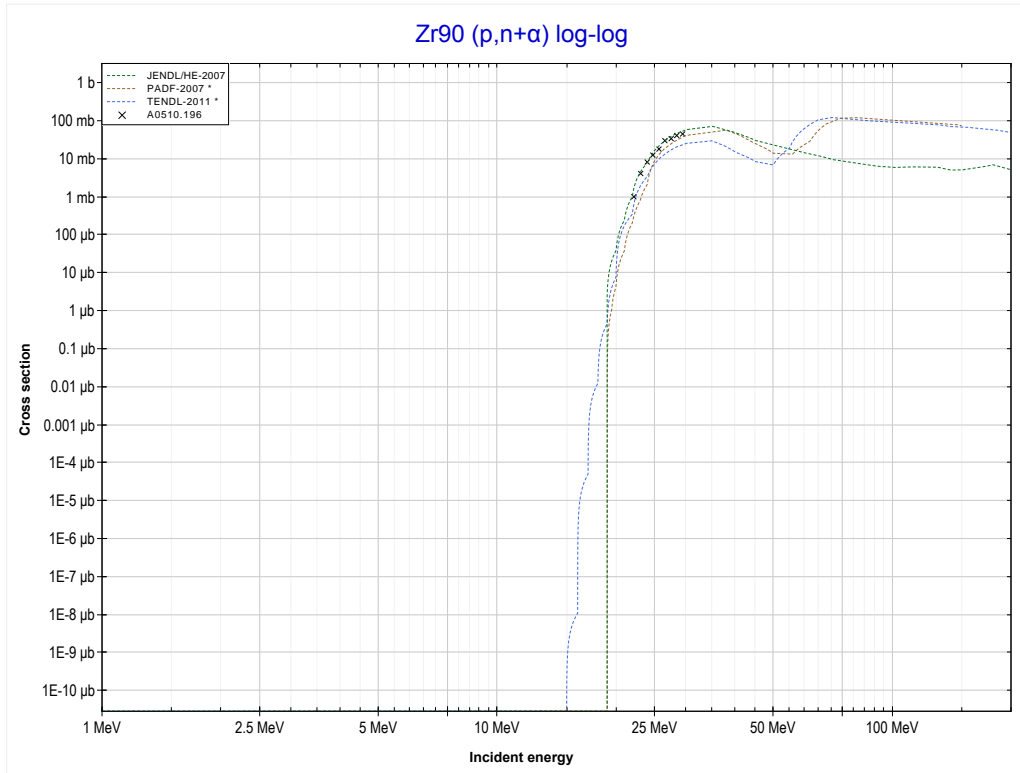
Reaction	Q-Value
Zr90(p,2n)Nb89	-16970.96 keV

<< 39-Y-89	<b>40-Zr-90</b>	40-Zr-92 >>
<< MT16 (p,2n)	<b>MT17 (p,3n) or MT5 (Nb88 production)</b>	MT22 (p,n+α) >>



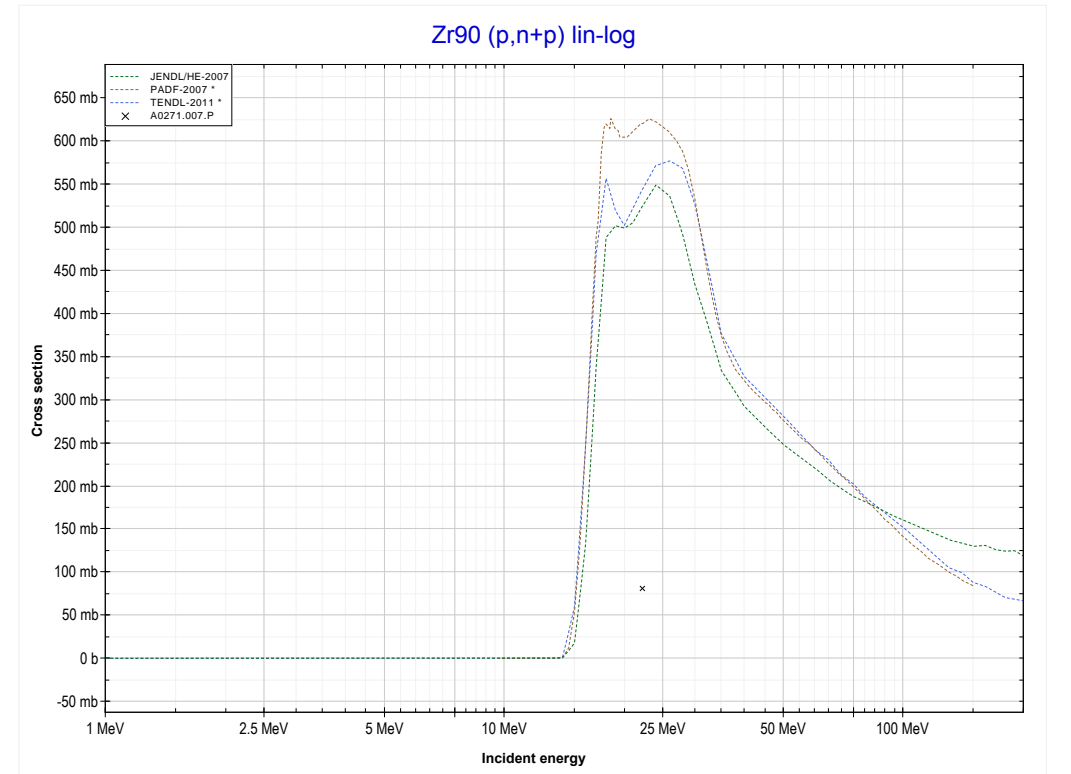
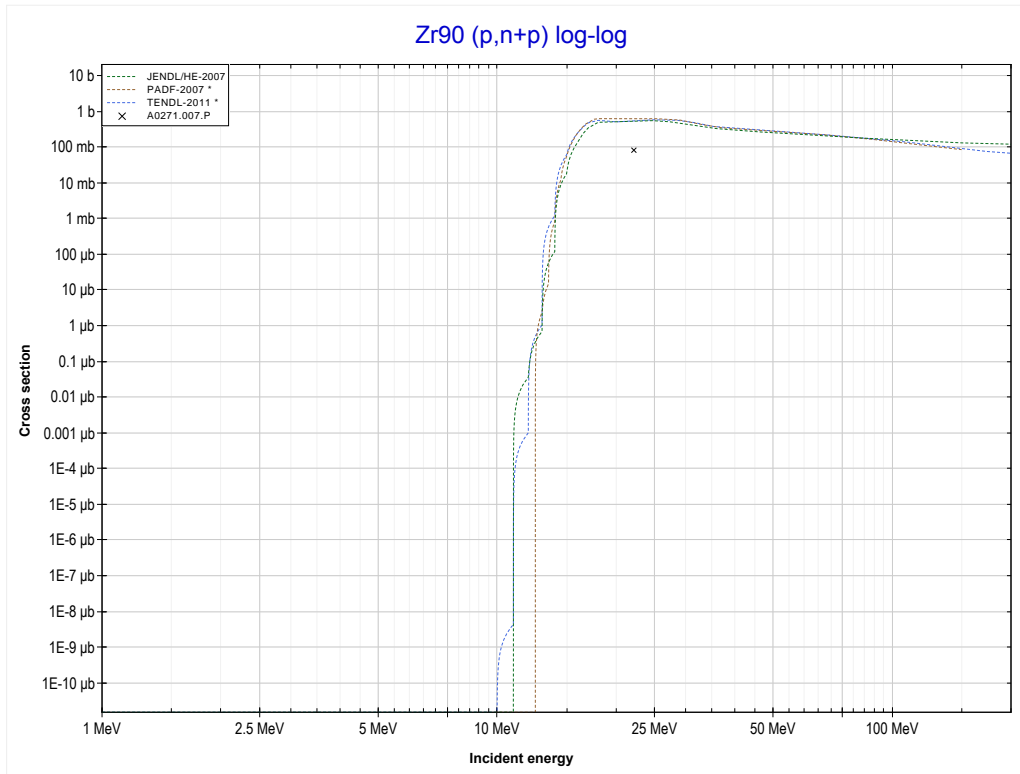
Reaction	Q-Value
Zr90(p,3n)Nb88	-29622.28 keV

<< 39-Y-89	<b>40-Zr-90</b>	40-Zr-91 >>
<< MT17 (p,3n)	<b>MT22 (p,n+α) or MT5 (Y86 production)</b>	MT28 (p,n+p) >>



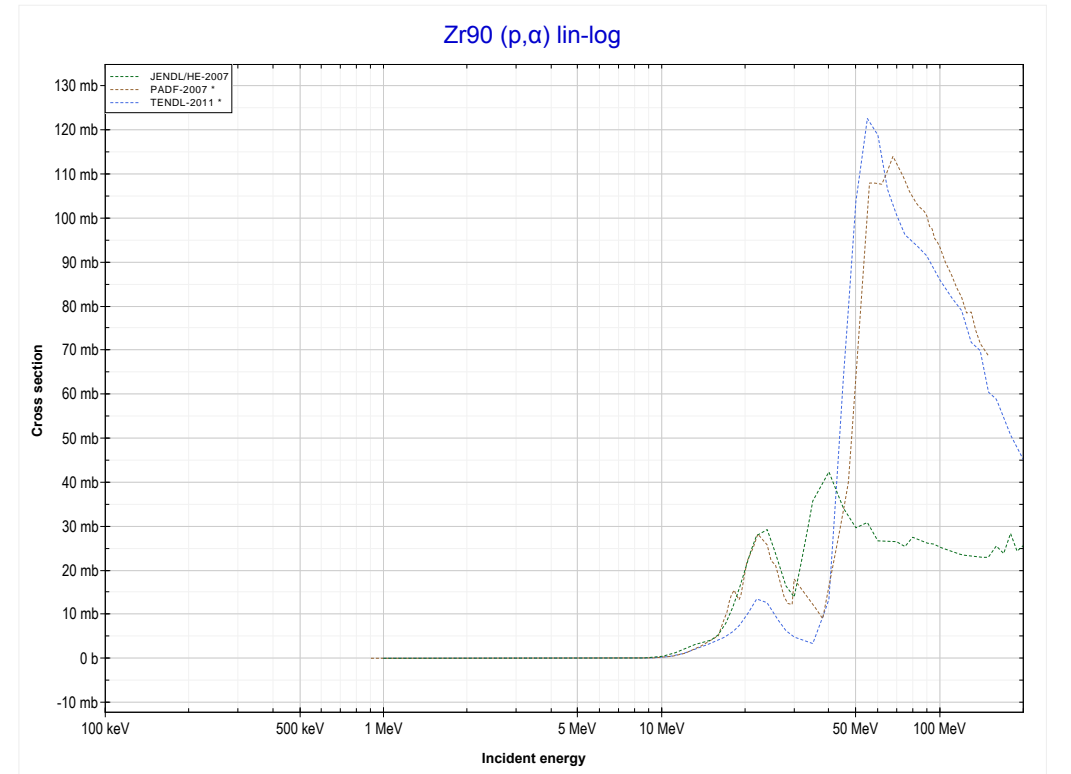
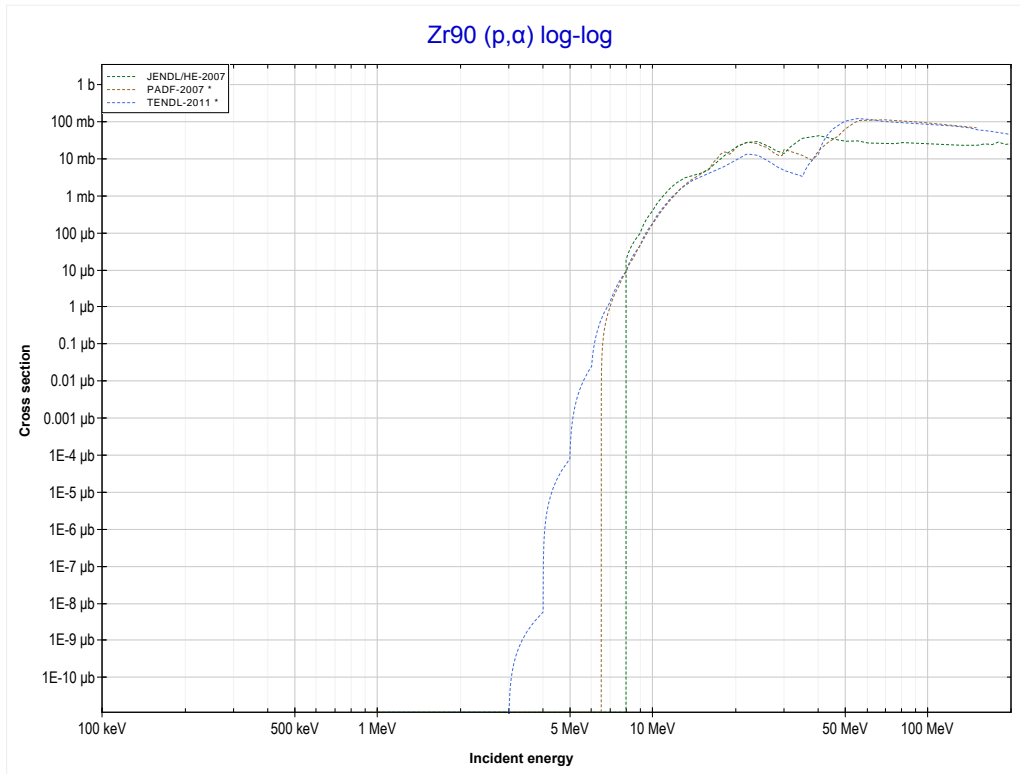
Reaction	Q-Value
Zr90(p,n+α)Y86	-12690.56 keV
Zr90(p,d+t)Y86	-30279.86 keV
Zr90(p,n+p+t)Y86	-32504.42 keV
Zr90(p,2n+He3)Y86	-33268.18 keV
Zr90(p,n+2d)Y86	-36537.09 keV
Zr90(p,2n+p+d)Y86	-38761.66 keV
Zr90(p,3n+2p)Y86	-40986.22 keV

<< 39-Y-89	<b>40-Zr-90</b>	40-Zr-91 >>
<< MT22 (p,n+α)	<b>MT28 (p,n+p) or MT5 (Zr89 production)</b>	MT107 (p,α) >>



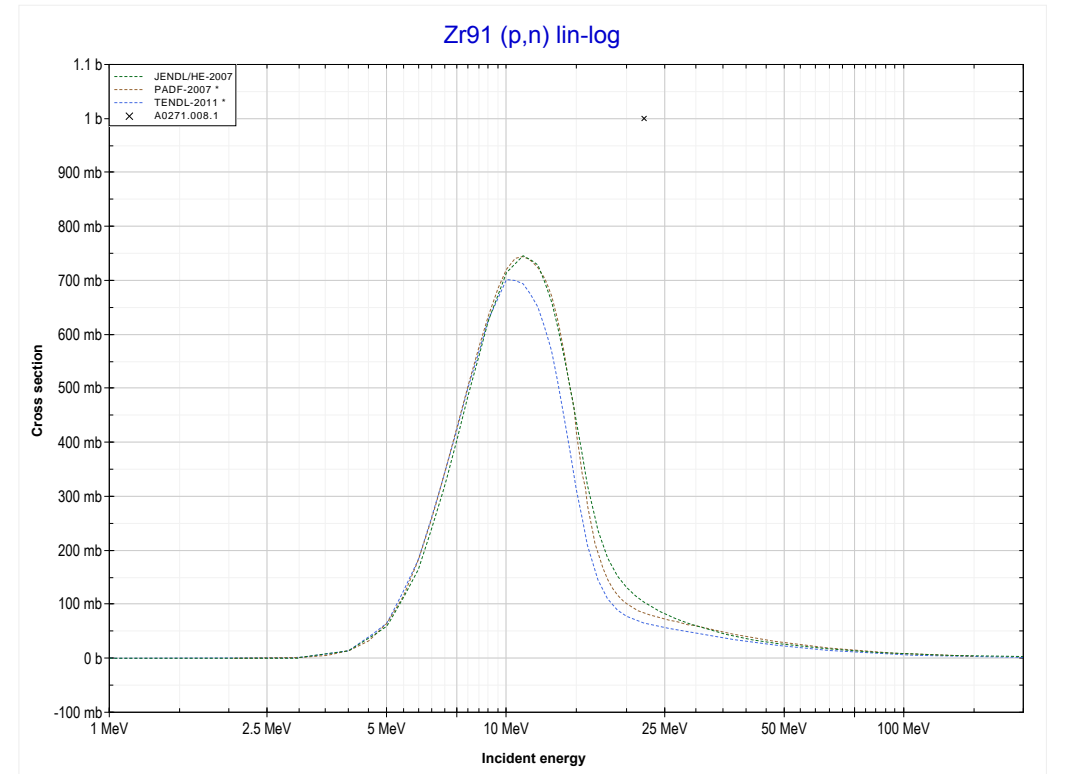
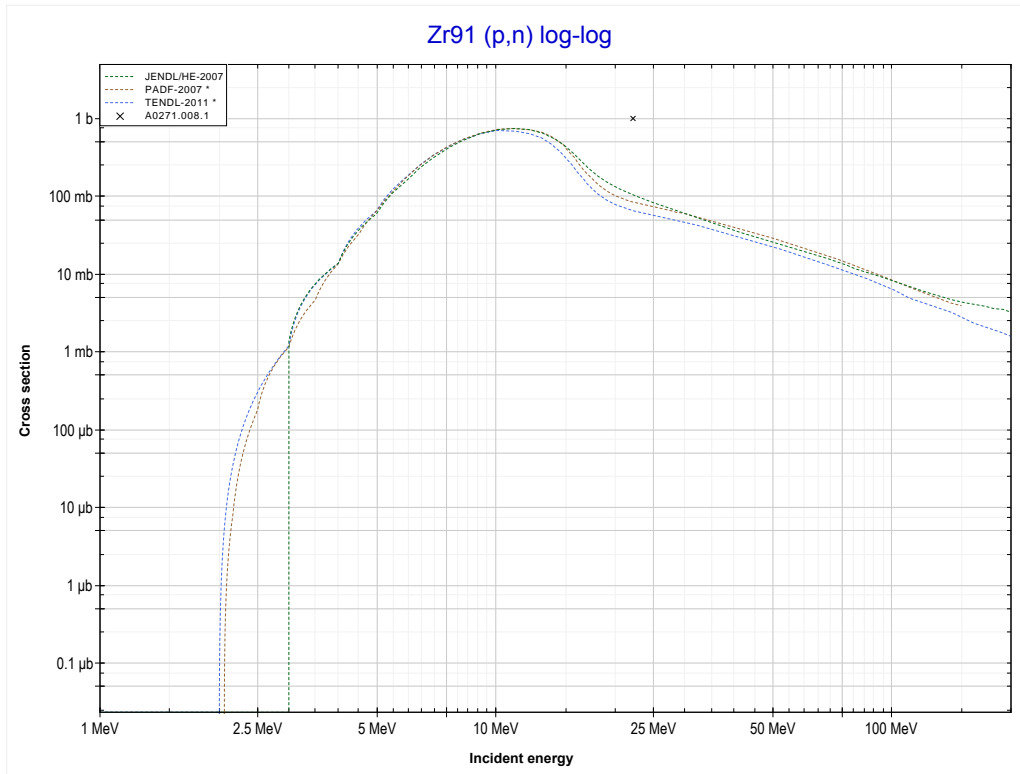
Reaction	Q-Value
Zr90(p,d)Zr89	-9745.05 keV
Zr90(p,n+p)Zr89	-11969.62 keV

<< 38-Sr-87	<b>40-Zr-90</b>	40-Zr-91 >>
<< MT28 (p,n+p)	<b>MT107 (p,<math>\alpha</math>) or MT5 (Y87 production)</b>	MT4 (p,n) >>



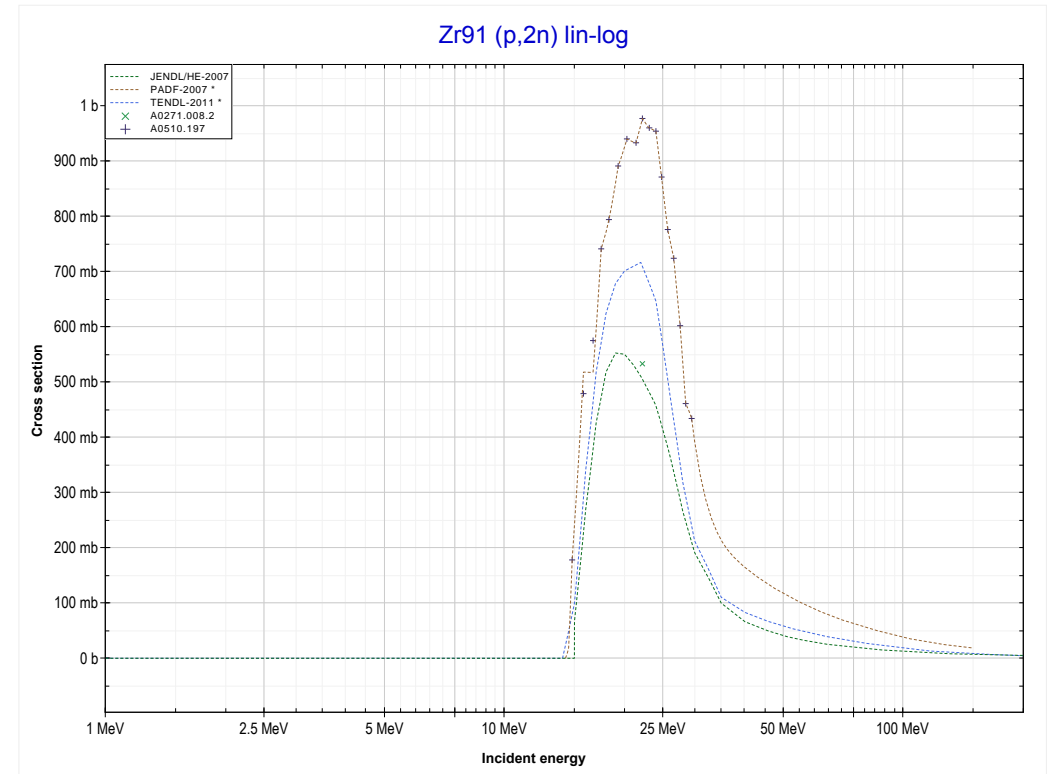
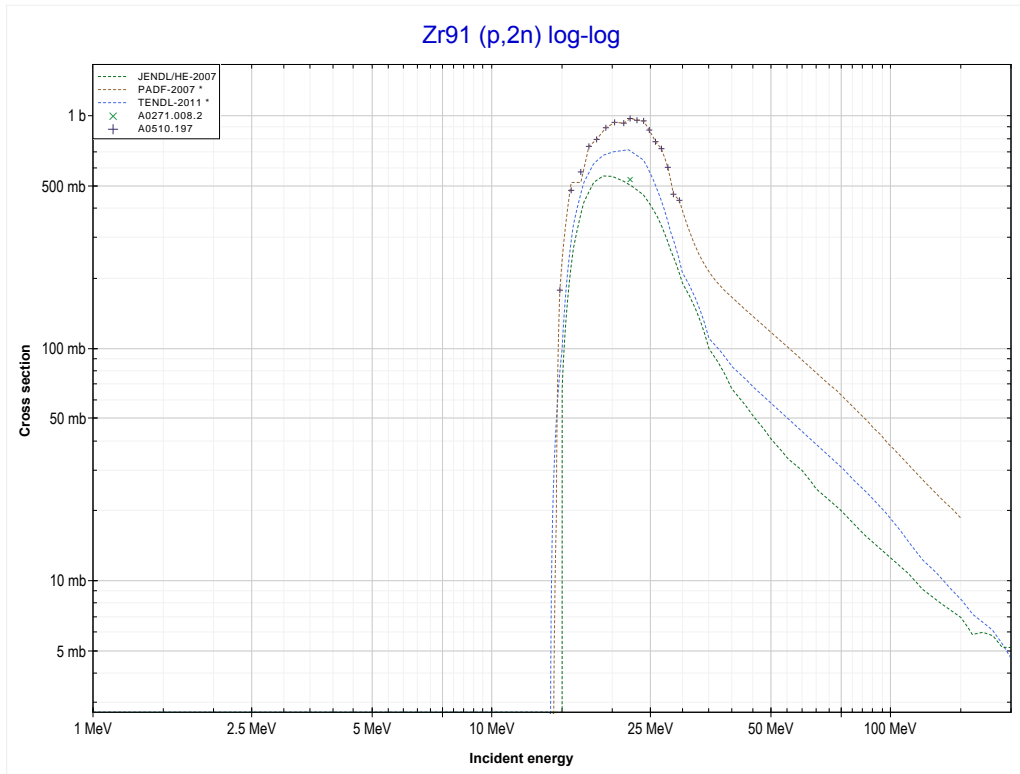
Reaction	Q-Value
Zr90(p, $\alpha$ )Y87	-884.55 keV
Zr90(p,p+t)Y87	-20698.41 keV
Zr90(p,n+He3)Y87	-21462.16 keV
Zr90(p,2d)Y87	-24731.07 keV
Zr90(p,n+p+d)Y87	-26955.64 keV
Zr90(p,2n+2p)Y87	-29180.20 keV

<< 40-Zr-90	<b>40-Zr-91</b>	40-Zr-92 >>
<< MT107 (p, $\alpha$ )	<b>MT4 (p,n) or MT5 (Nb91 production)</b>	MT16 (p,2n) >>



Reaction	Q-Value
Zr91(p,n)Nb91	-2040.75 keV

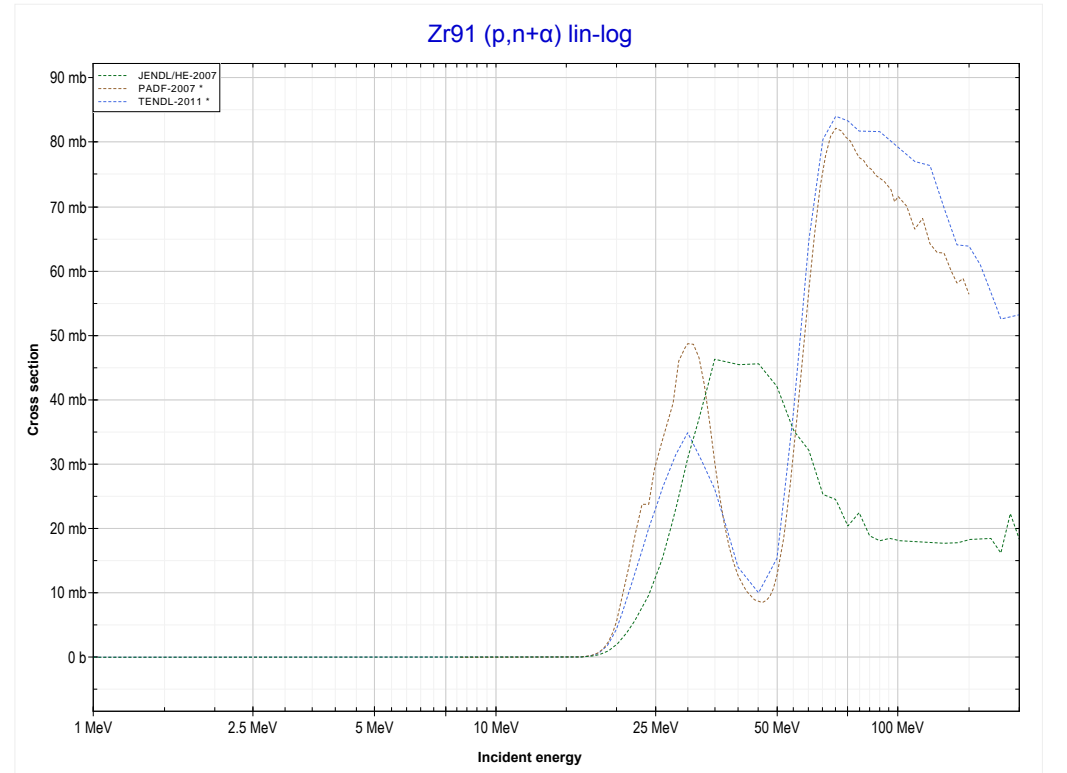
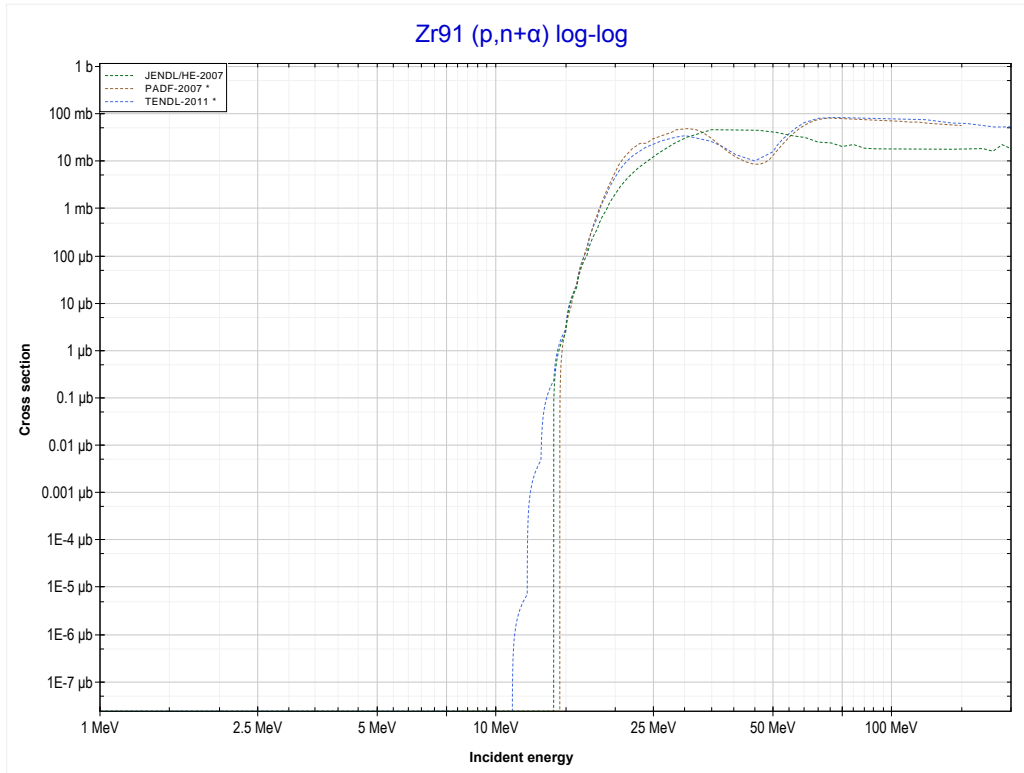
<< 40-Zr-90	<b>40-Zr-91</b>	40-Zr-94 >>
<< MT4 (p,n)	<b>MT16 (p,2n) or MT5 (Nb90 production)</b>	MT22 (p,n+α) >>



Reaction	Q-Value
Zr91(p,2n)Nb90	-14088.06 keV

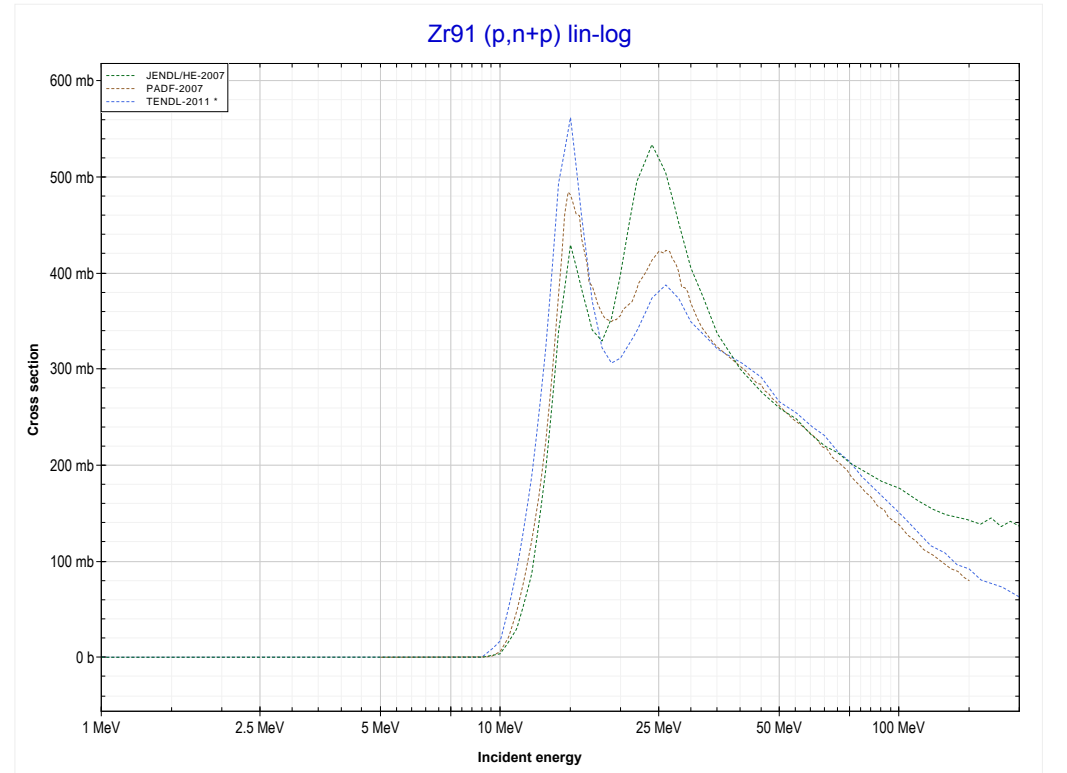
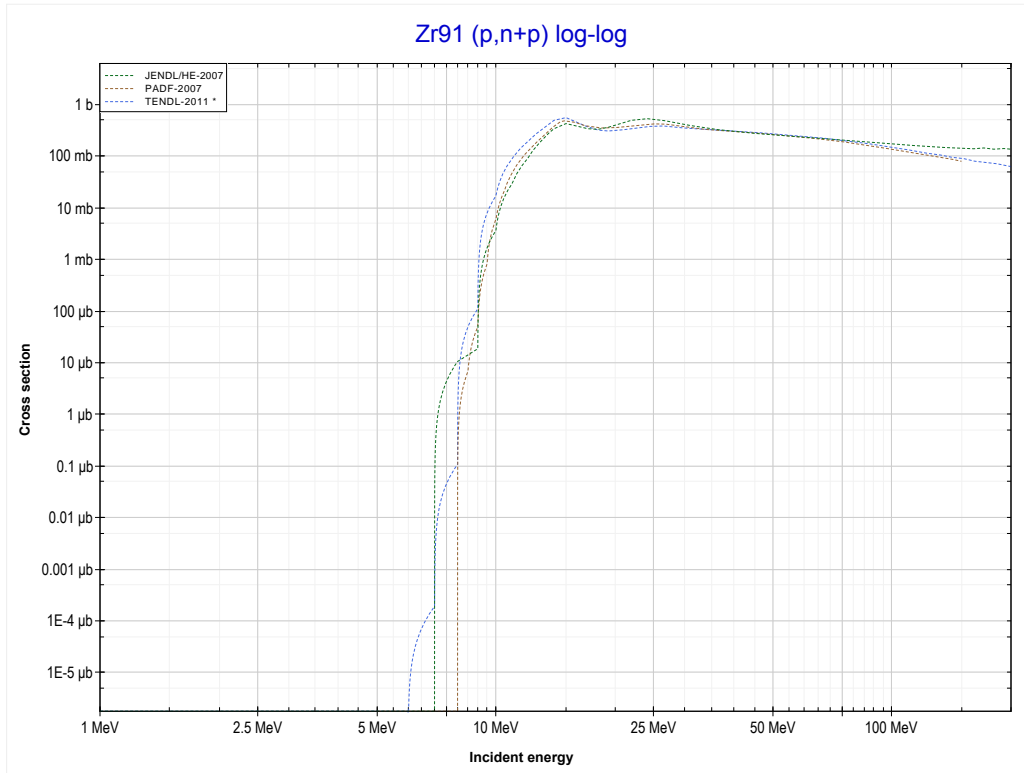


<< 40-Zr-90	<b>40-Zr-91</b>	40-Zr-92 >>
<< MT16 (p,2n)	<b>MT22 (p,n+α) or MT5 (Y87 production)</b>	MT28 (p,n+p) >>



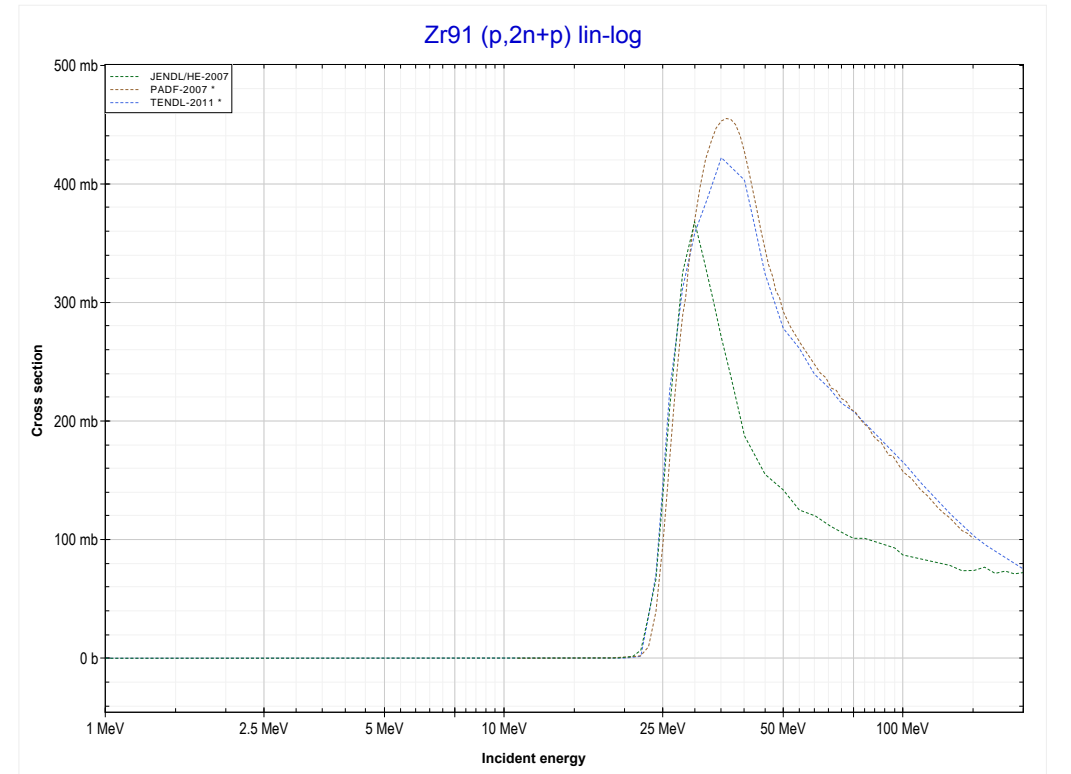
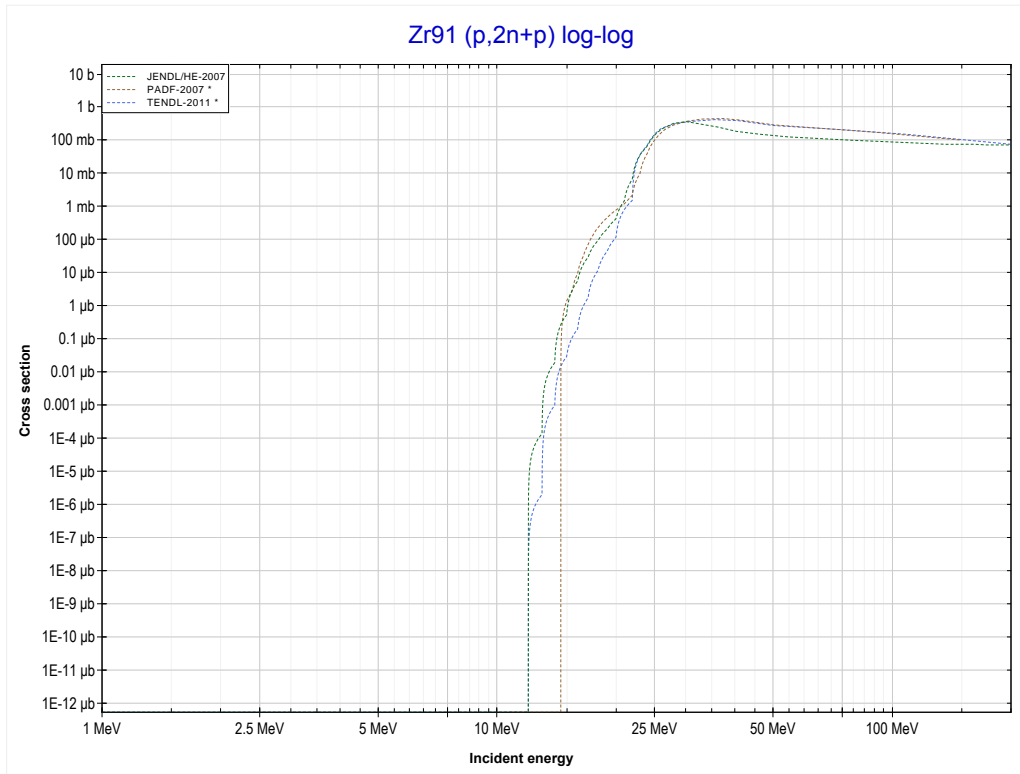
Reaction	Q-Value
Zr91(p,n+α)Y87	-8078.96 keV
Zr91(p,d+t)Y87	-25668.26 keV
Zr91(p,n+p+t)Y87	-27892.82 keV
Zr91(p,2n+He3)Y87	-28656.58 keV
Zr91(p,n+2d)Y87	-31925.49 keV
Zr91(p,2n+p+d)Y87	-34150.06 keV
Zr91(p,3n+2p)Y87	-36374.62 keV

<< 40-Zr-90	<b>40-Zr-91</b>	40-Zr-96 >>
<< MT22 (p,n+α)	<b>MT28 (p,n+p) or MT5 (Zr90 production)</b>	MT41 (p,2n+p) >>



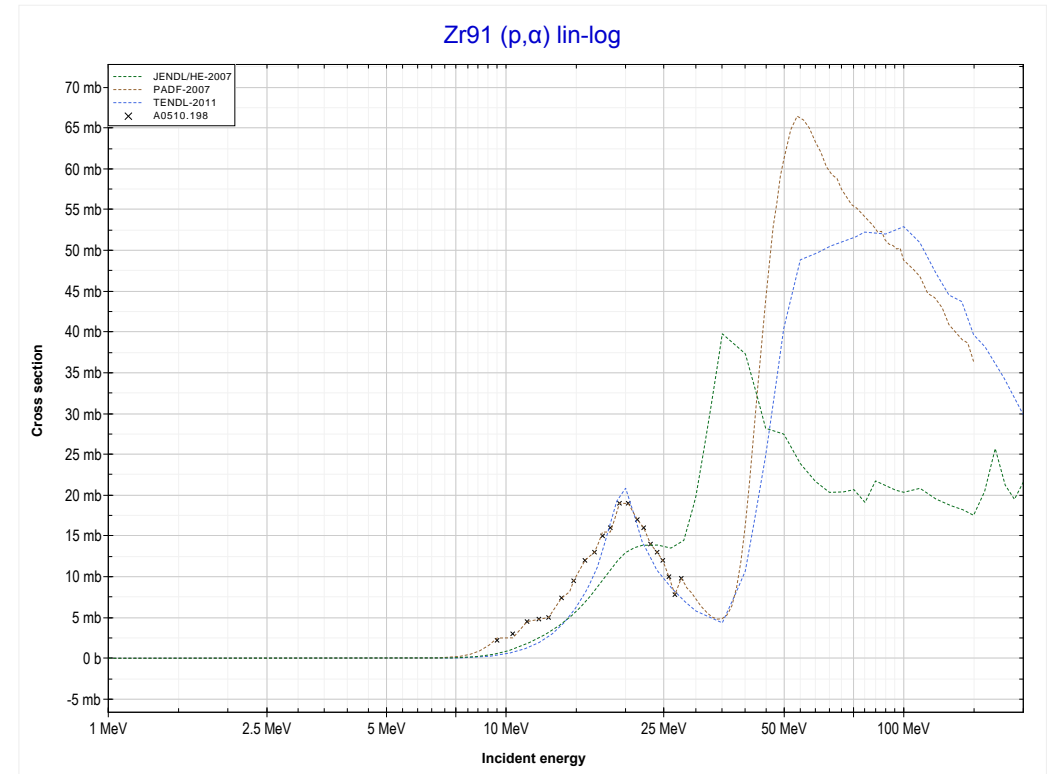
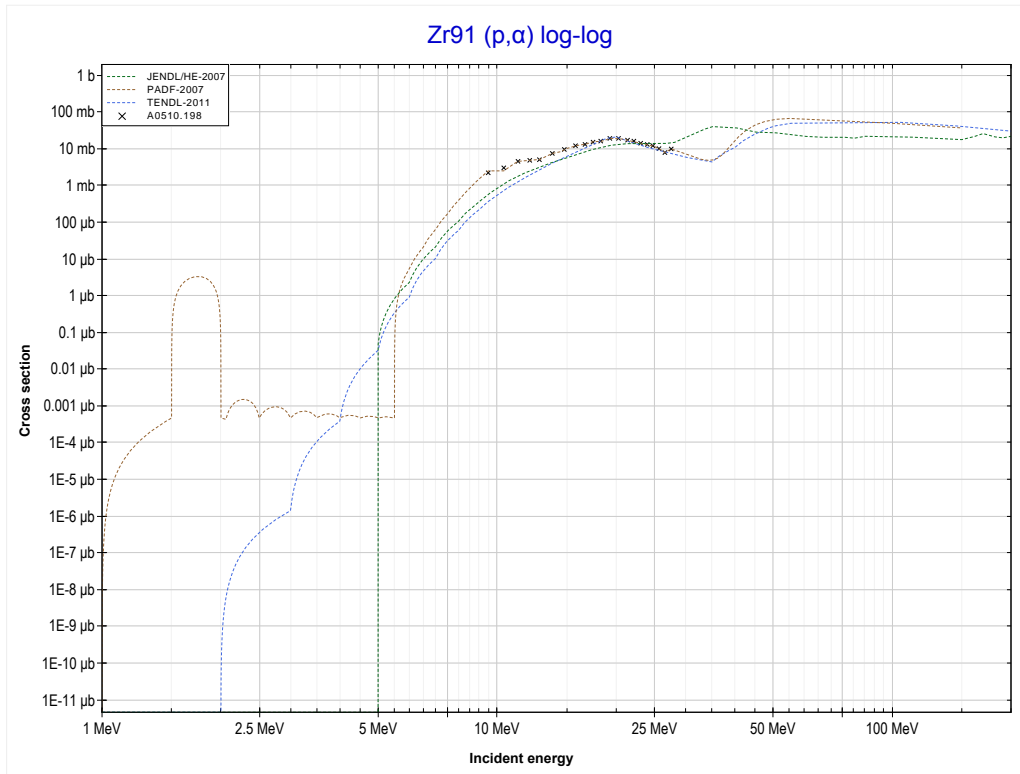
Reaction	Q-Value
Zr91(p,d)Zr90	-4969.85 keV
Zr91(p,n+p)Zr90	-7194.42 keV

<< 39-Y-89	<b>40-Zr-91</b>	42-Mo-92 >>
<< MT28 (p,n+p)	<b>MT41 (p,2n+p) or MT5 (Zr89 production)</b>	MT107 (p, $\alpha$ ) >>



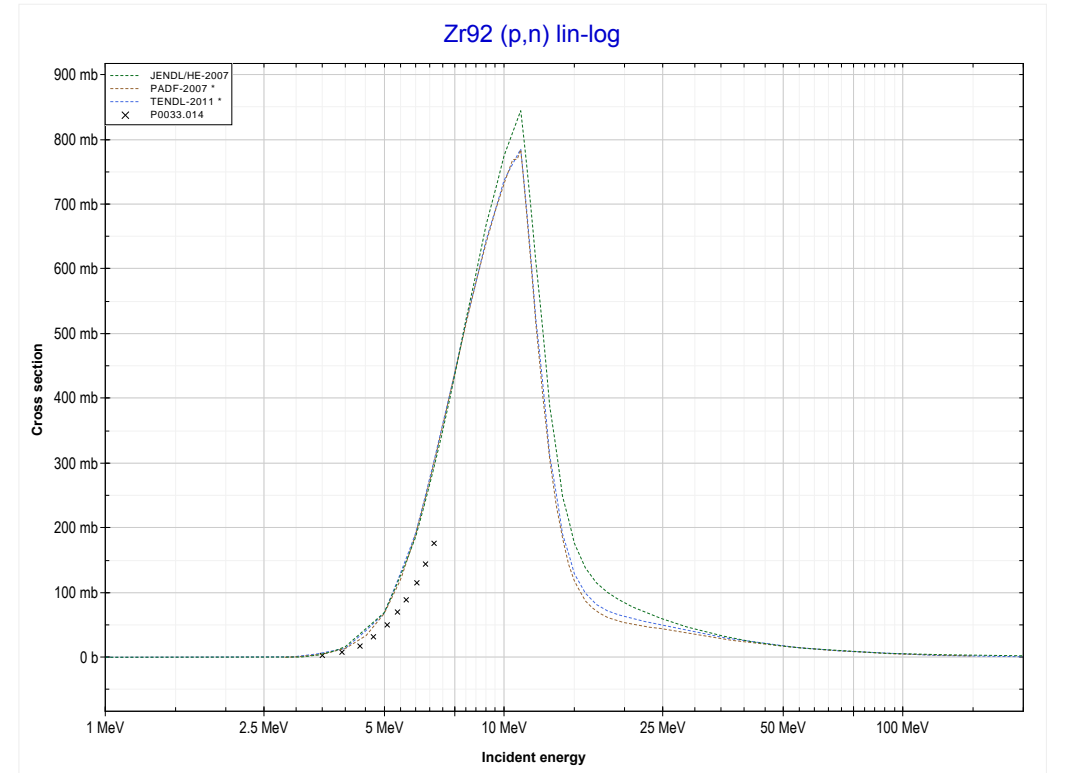
Reaction	Q-Value
Zr91(p,t)Zr89	-10682.24 keV
Zr91(p,n+d)Zr89	-16939.47 keV
Zr91(p,2n+p)Zr89	-19164.03 keV

<< 40-Zr-90	<b>40-Zr-91</b>	42-Mo-92 >>
<< MT41 (p,2n+p)	<b>MT107 (p,<math>\alpha</math>) or MT5 (Y88 production)</b>	MT4 (p,n) >>



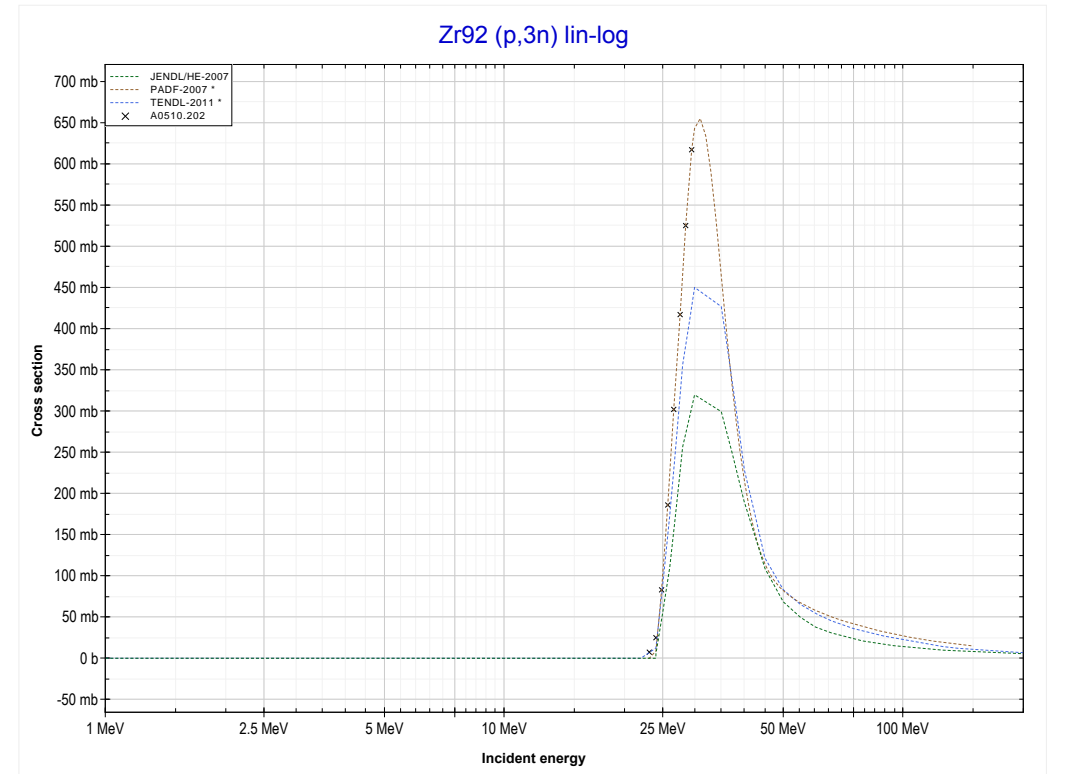
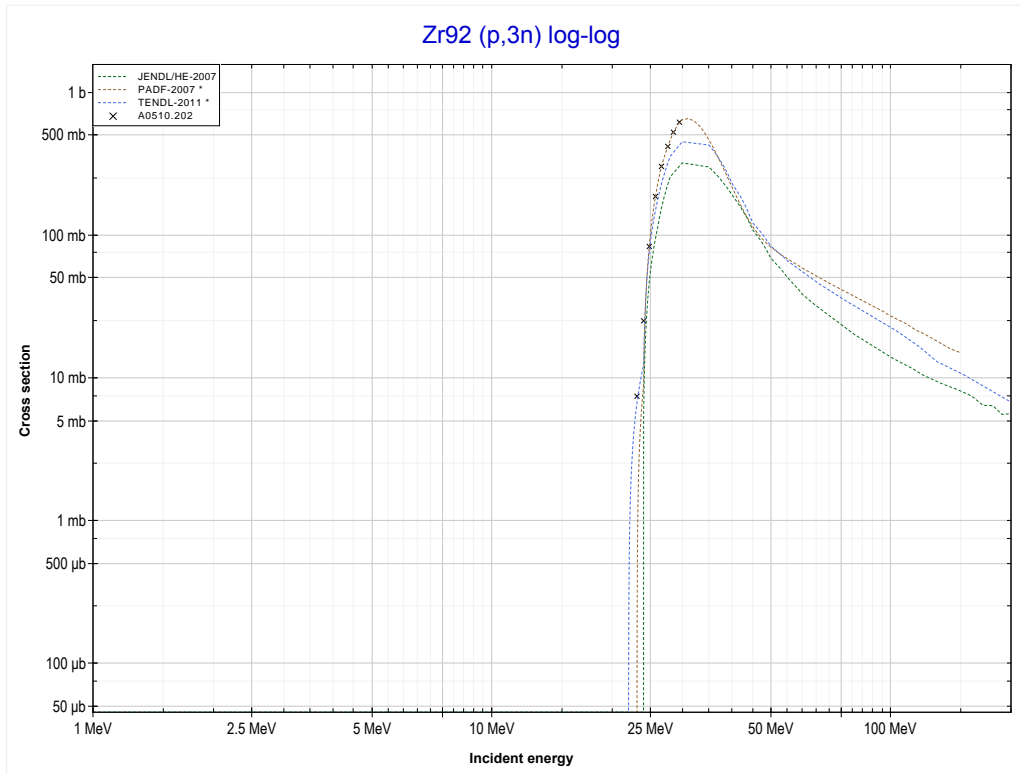
Reaction	Q-Value
Zr91(p, $\alpha$ )Y88	1272.75 keV
Zr91(p,p+t)Y88	-18541.11 keV
Zr91(p,n+He3)Y88	-19304.86 keV
Zr91(p,2d)Y88	-22573.77 keV
Zr91(p,n+p+d)Y88	-24798.34 keV
Zr91(p,2n+2p)Y88	-27022.90 keV

<< 40-Zr-91	<b>40-Zr-92</b>	40-Zr-94 >>
<< MT107 (p, $\alpha$ )	<b>MT4 (p,n) or MT5 (Nb92 production)</b>	MT17 (p,3n) >>



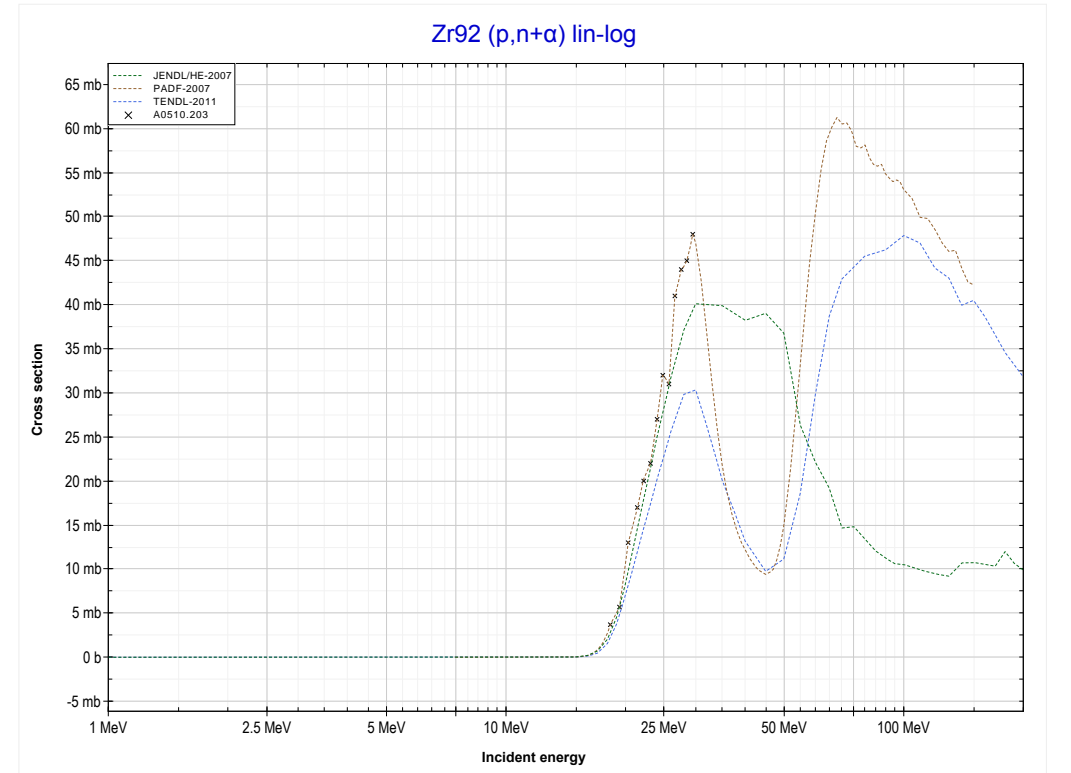
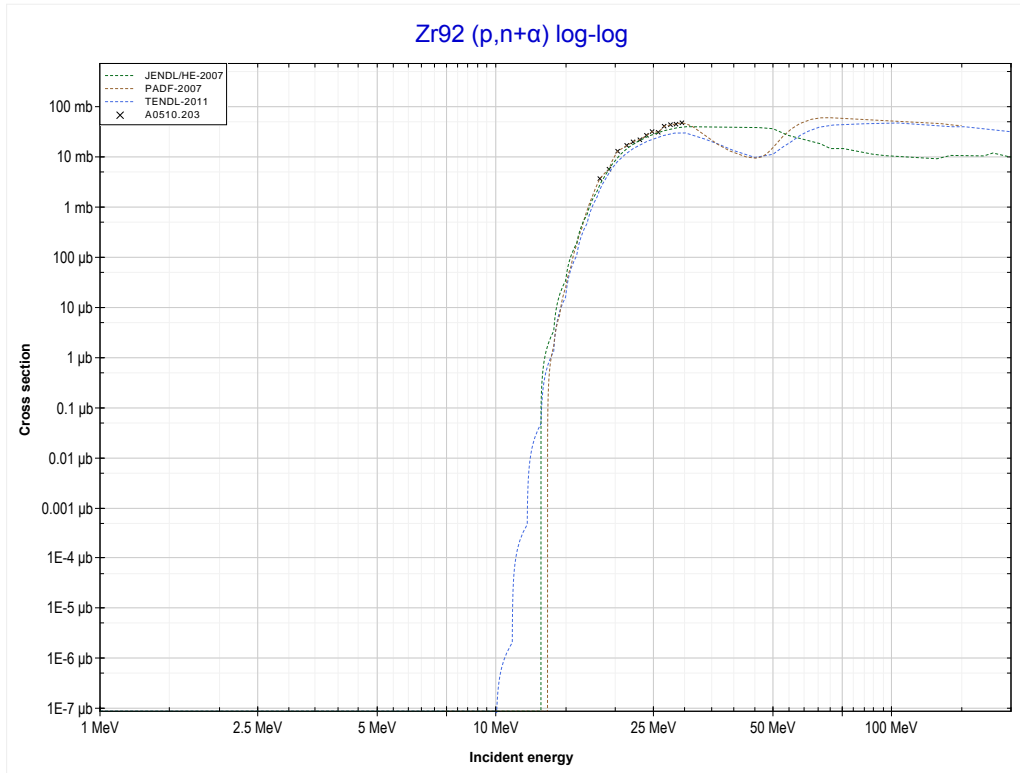
Reaction	Q-Value
Zr92(p,n)Nb92	-2787.95 keV

<< 40-Zr-90	<b>40-Zr-92</b>	40-Zr-94 >>
<< MT4 (p,n)	<b>MT17 (p,3n) or MT5 (Nb90 production)</b>	MT22 (p,n+α) >>



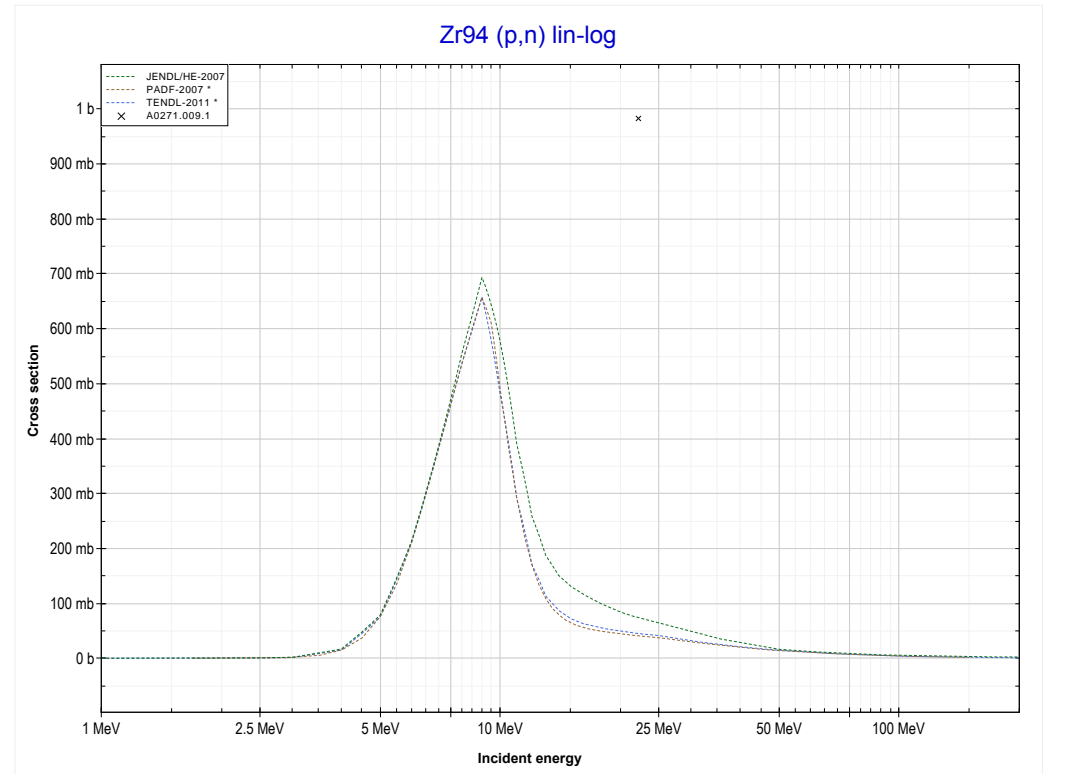
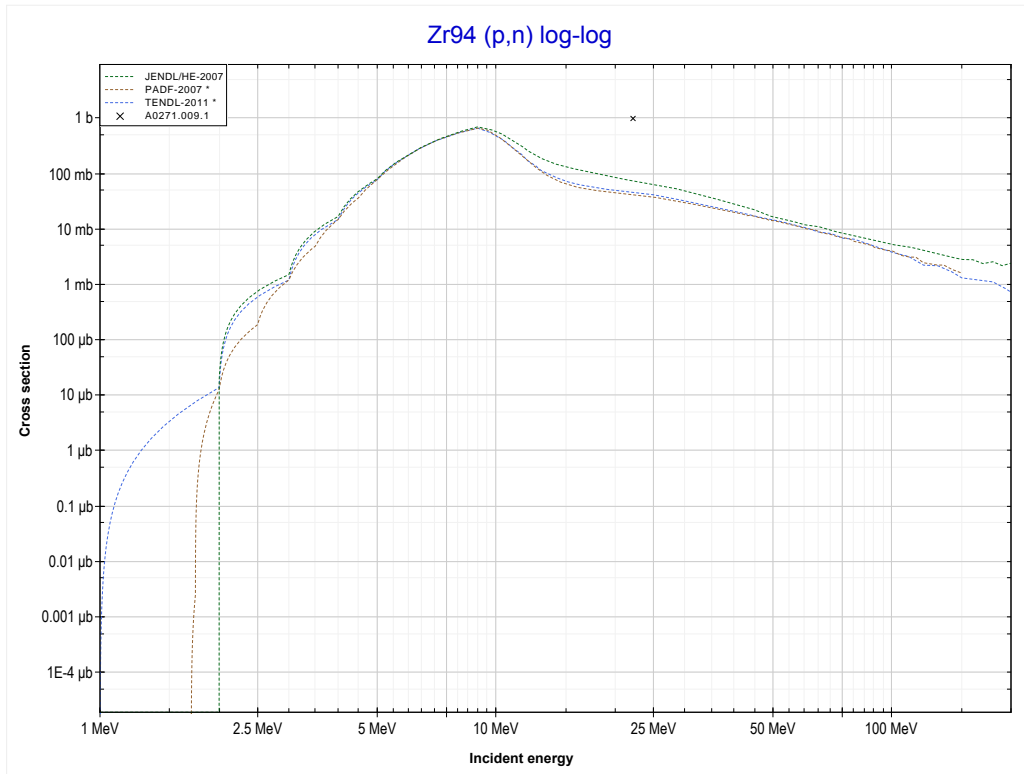
Reaction	Q-Value
Zr92(p,3n)Nb90	-22722.88 keV

<< 40-Zr-91	<b>40-Zr-92</b>	41-Nb-93 >>
<< MT17 (p,3n)	<b>MT22 (p,n+α) or MT5 (Y88 production)</b>	MT4 (p,n) >>



Reaction	Q-Value
Zr92(p,n+α)Y88	-7362.06 keV
Zr92(p,d+t)Y88	-24951.36 keV
Zr92(p,n+p+t)Y88	-27175.92 keV
Zr92(p,2n+He3)Y88	-27939.68 keV
Zr92(p,n+2d)Y88	-31208.59 keV
Zr92(p,2n+p+d)Y88	-33433.16 keV
Zr92(p,3n+2p)Y88	-35657.72 keV

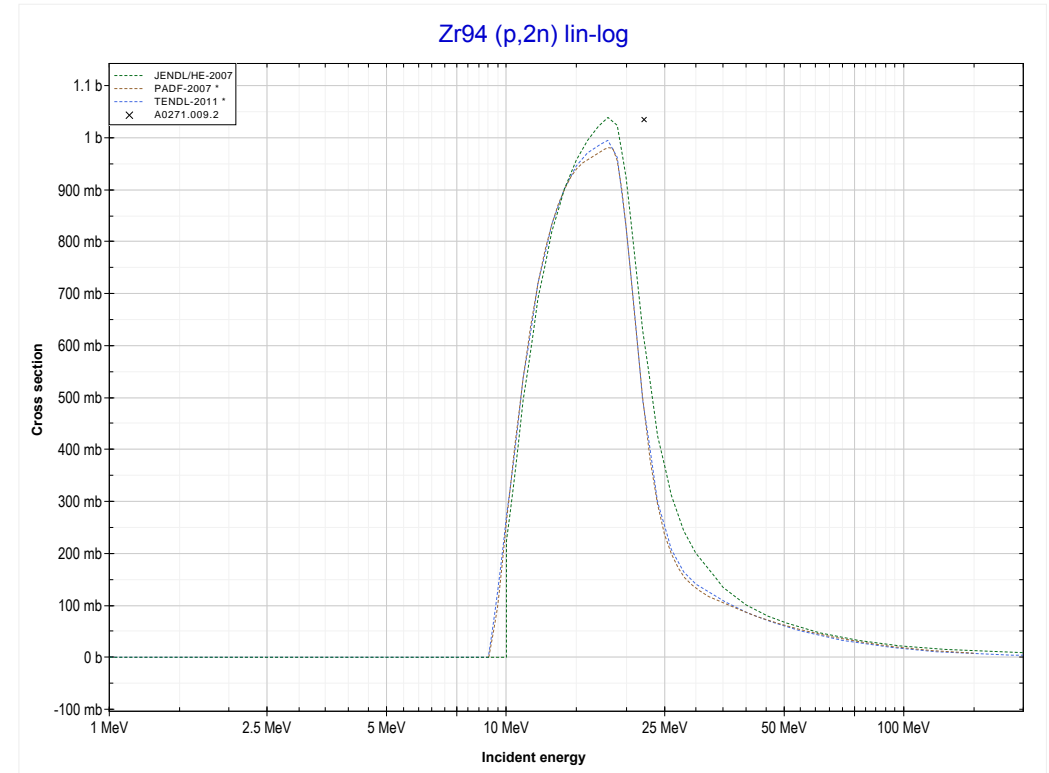
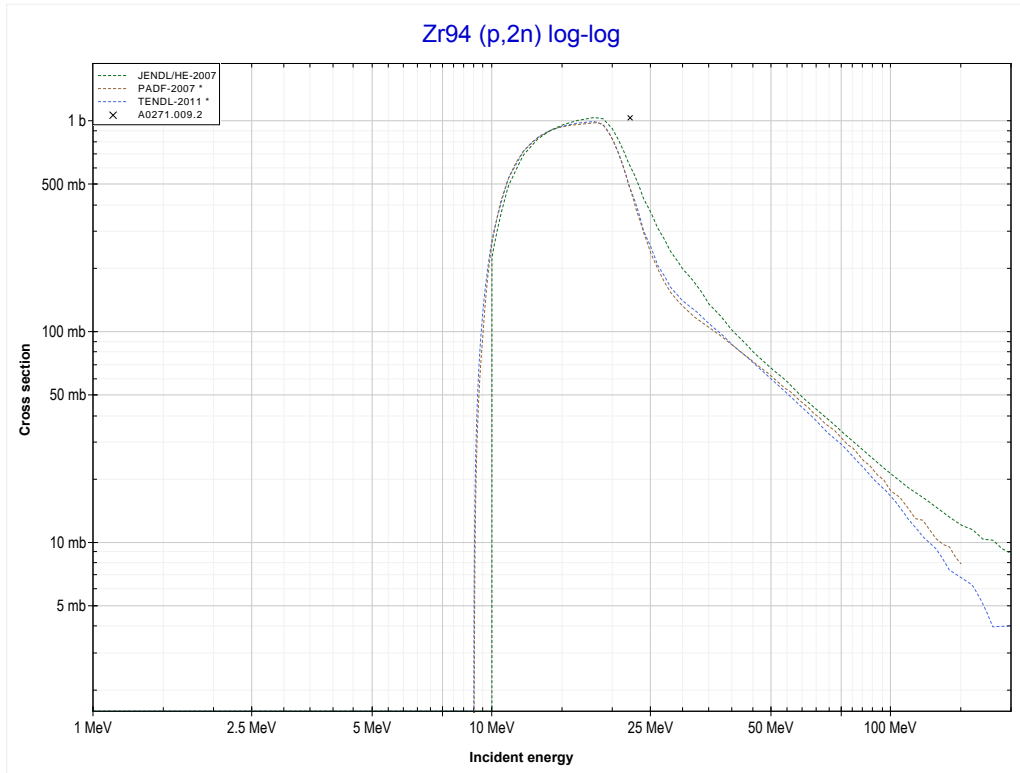
<< 40-Zr-92	<b>40-Zr-94</b>	40-Zr-96 >>
<< MT22 (p,n+α)	<b>MT4 (p,n) or MT5 (Nb94 production)</b>	MT16 (p,2n) >>



Reaction	Q-Value
Zr94(p,n)Nb94	-1684.65 keV

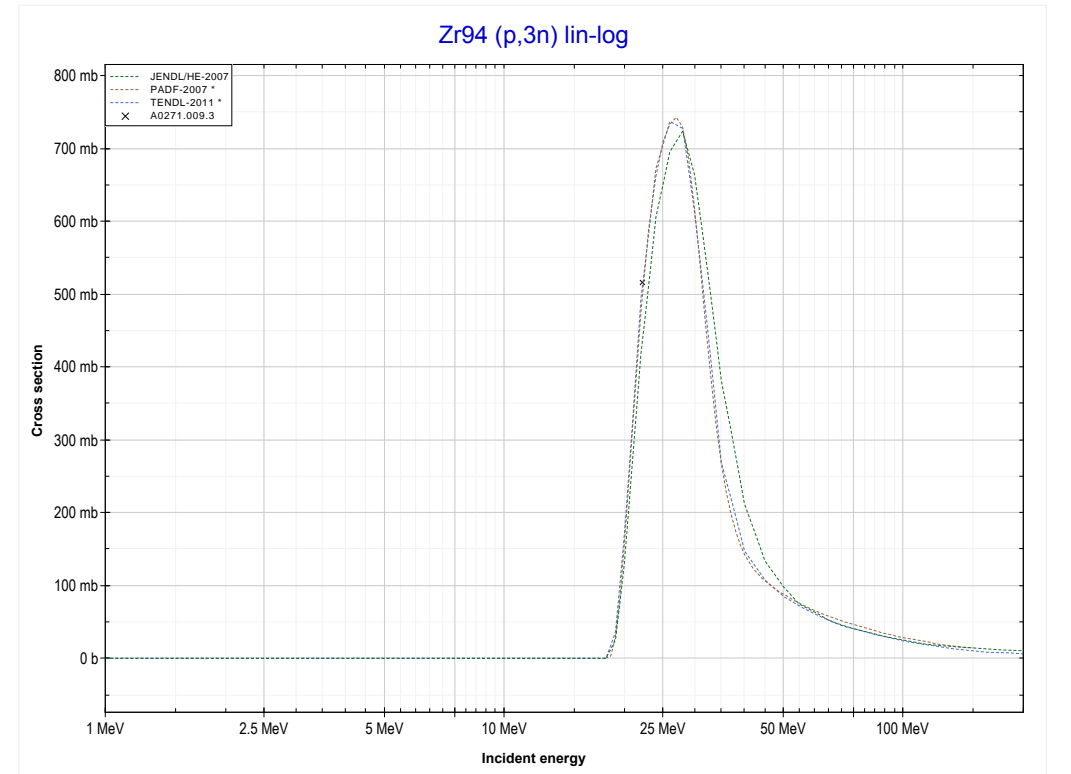
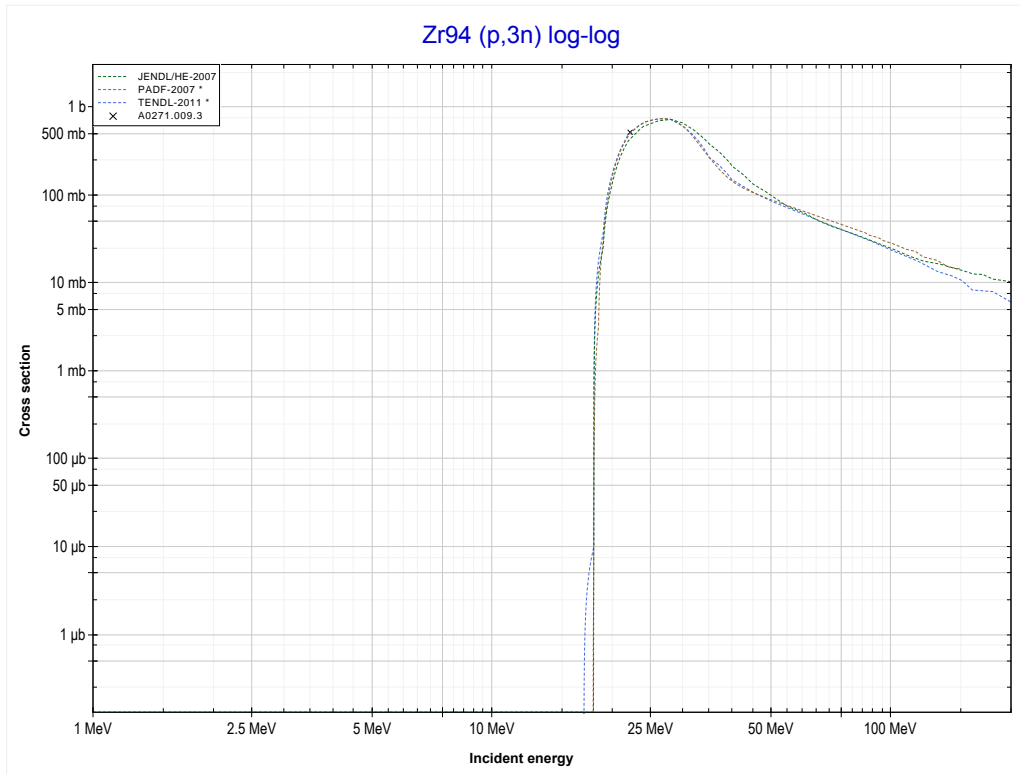


<< 40-Zr-91	<b>40-Zr-94</b>	40-Zr-96 >>
<< MT4 (p,n)	<b>MT16 (p,2n) or MT5 (Nb93 production)</b>	MT17 (p,3n) >>



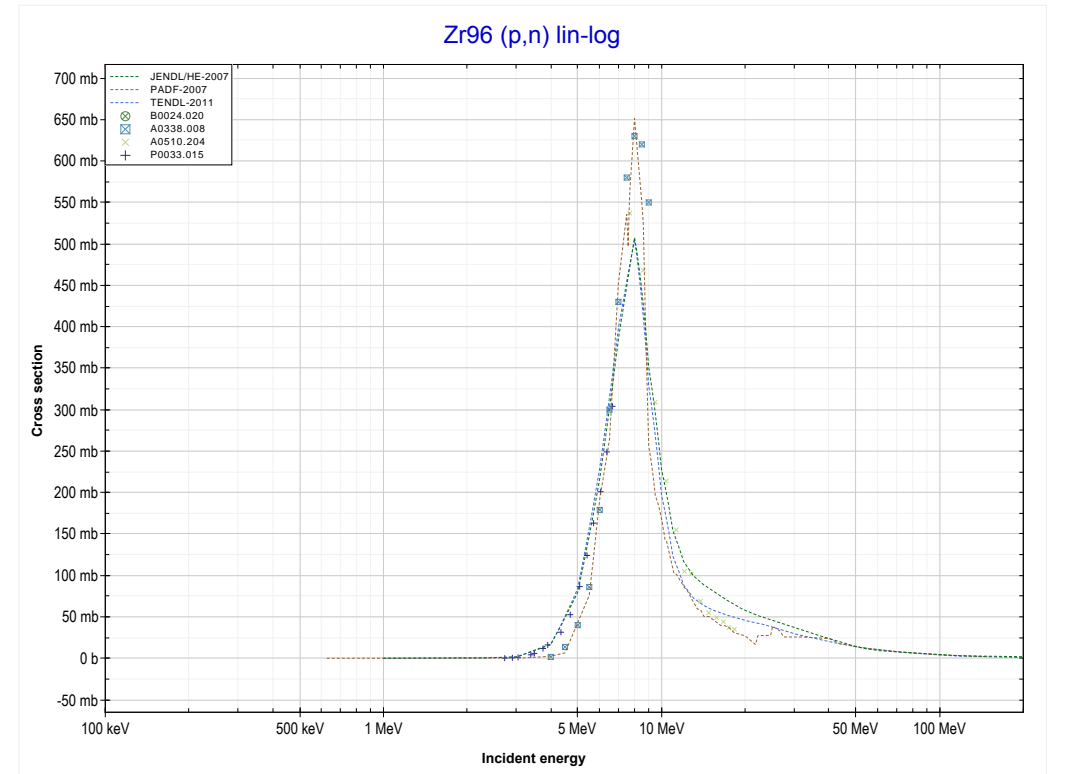
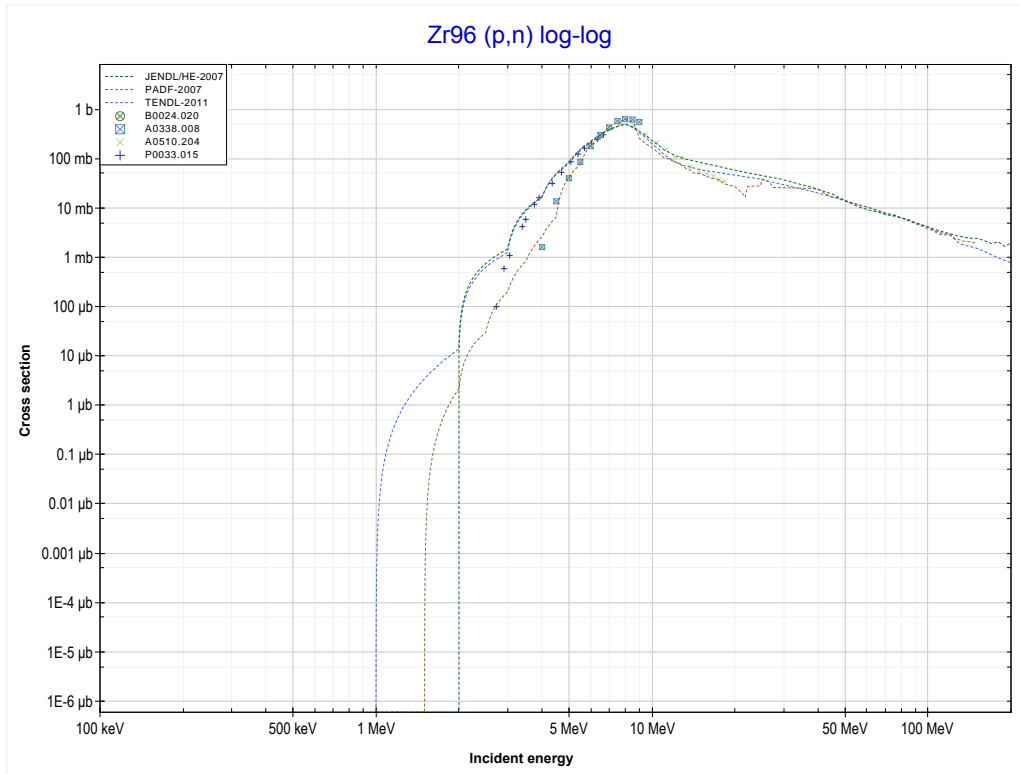
Reaction	Q-Value
Zr94(p,2n)Nb93	-8912.16 keV

<< 40-Zr-92	<b>40-Zr-94</b>	42-Mo-95 >>
<< MT16 (p,2n)	<b>MT17 (p,3n) or MT5 (Nb92 production)</b>	MT4 (p,n) >>



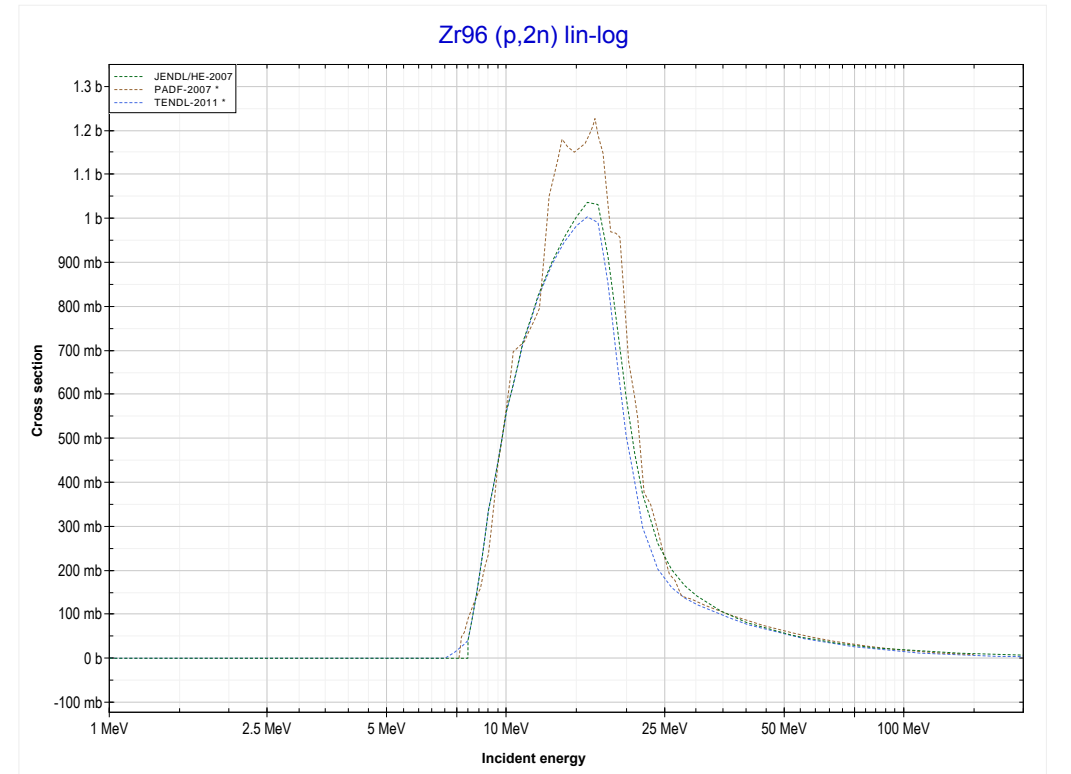
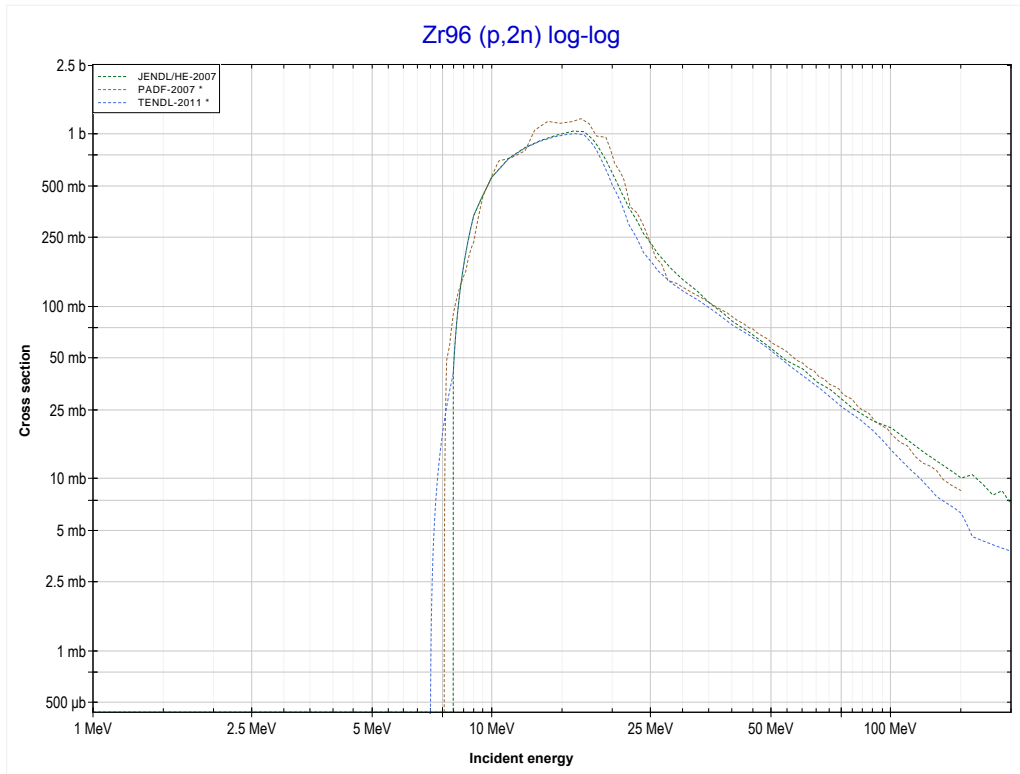
Reaction	Q-Value
Zr94(p,3n)Nb92	-17743.48 keV

<< 40-Zr-94	<b>40-Zr-96</b>	41-Nb-93 >>
<< MT17 (p,3n)	<b>MT4 (p,n) or MT5 (Nb96 production)</b>	MT16 (p,2n) >>



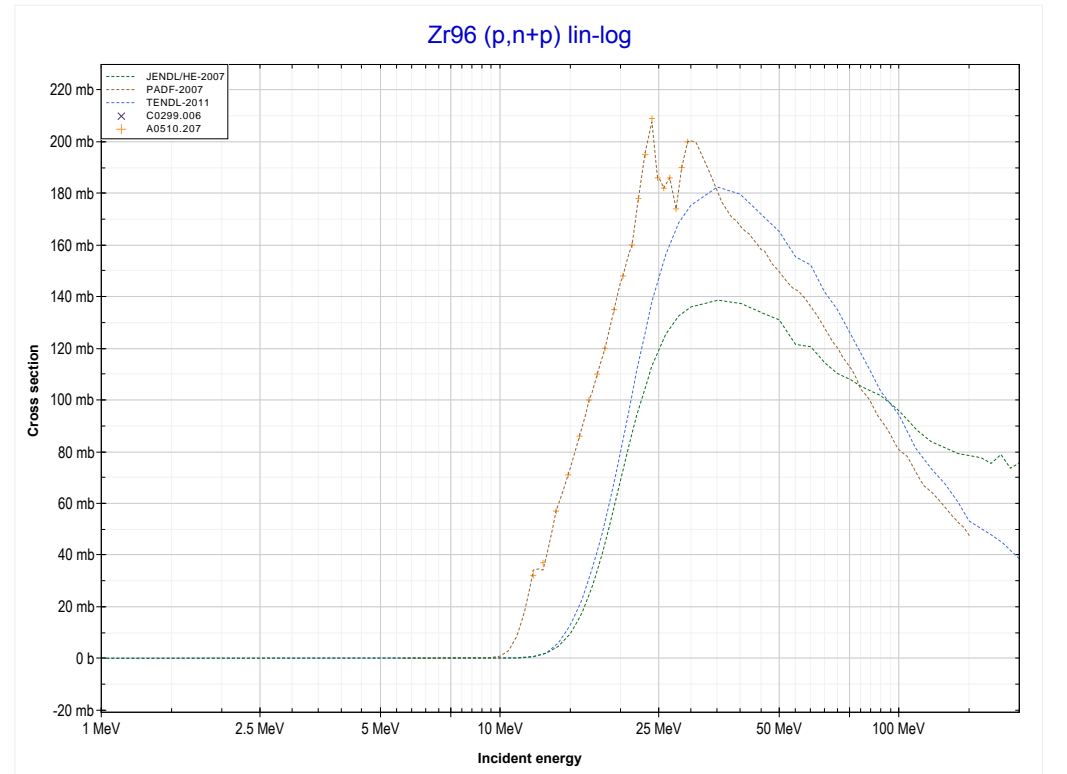
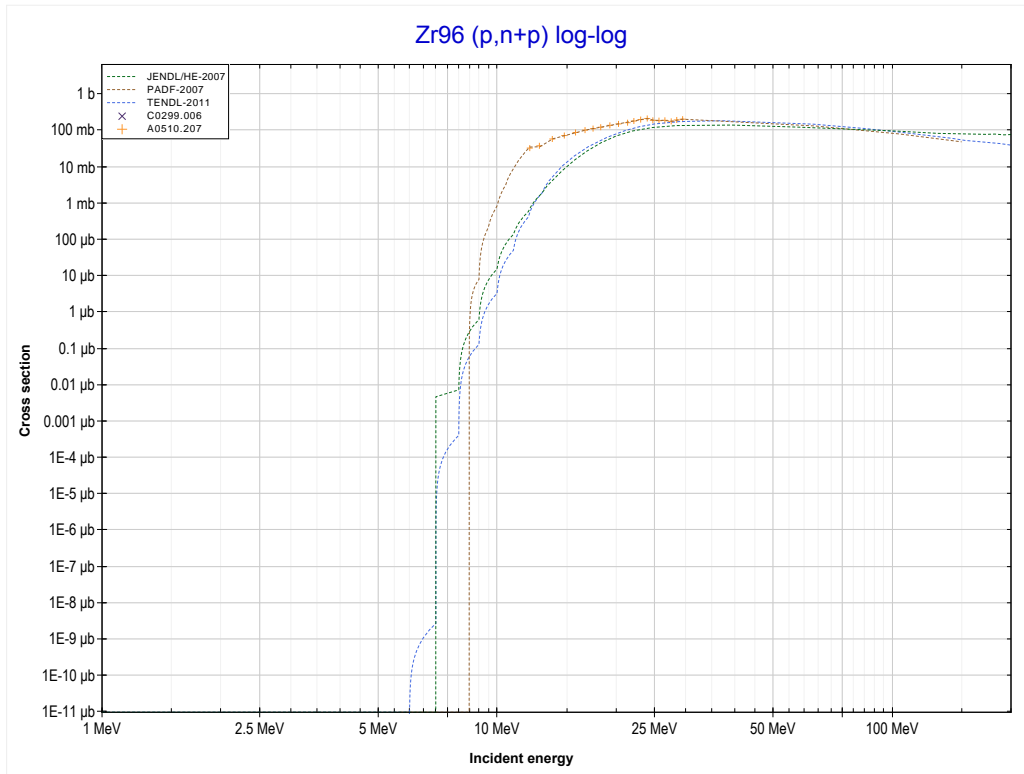
Reaction	Q-Value
Zr96(p,n)Nb96	-621.15 keV

<< 40-Zr-94	<b>40-Zr-96</b>	42-Mo-94 >>
<< MT4 (p,n)	<b>MT16 (p,2n) or MT5 (Nb95 production)</b>	MT28 (p,n+p) >>



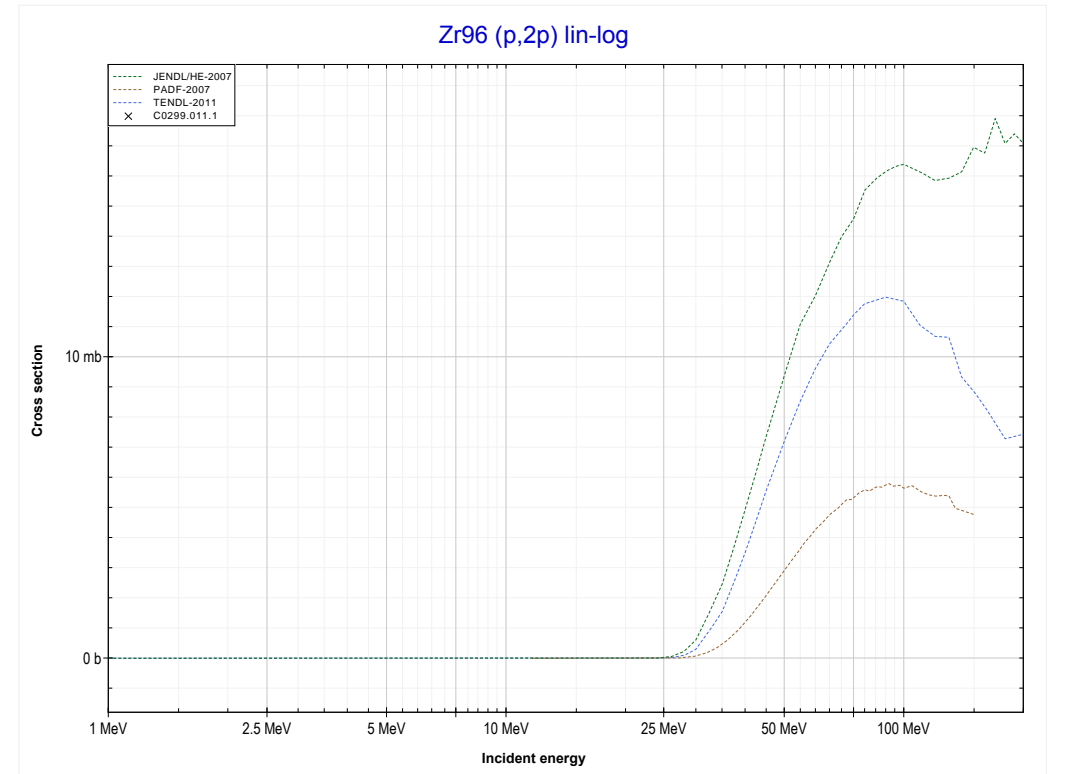
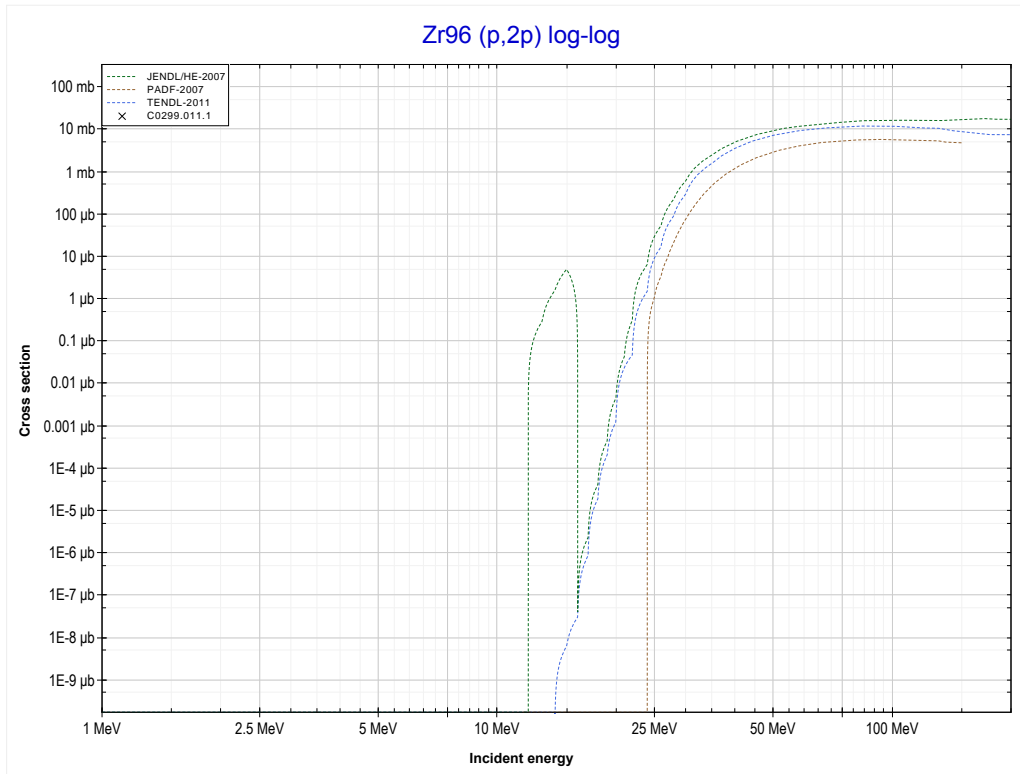
<b>Reaction</b>	<b>Q-Value</b>
Zr96(p,2n)Nb95	-7514.56 keV

<< 40-Zr-91	<b>40-Zr-96</b>	41-Nb-93 >>
<< MT16 (p,2n)	<b>MT28 (p,n+p) or MT5 (Zr95 production)</b>	MT111 (p,2p) >>



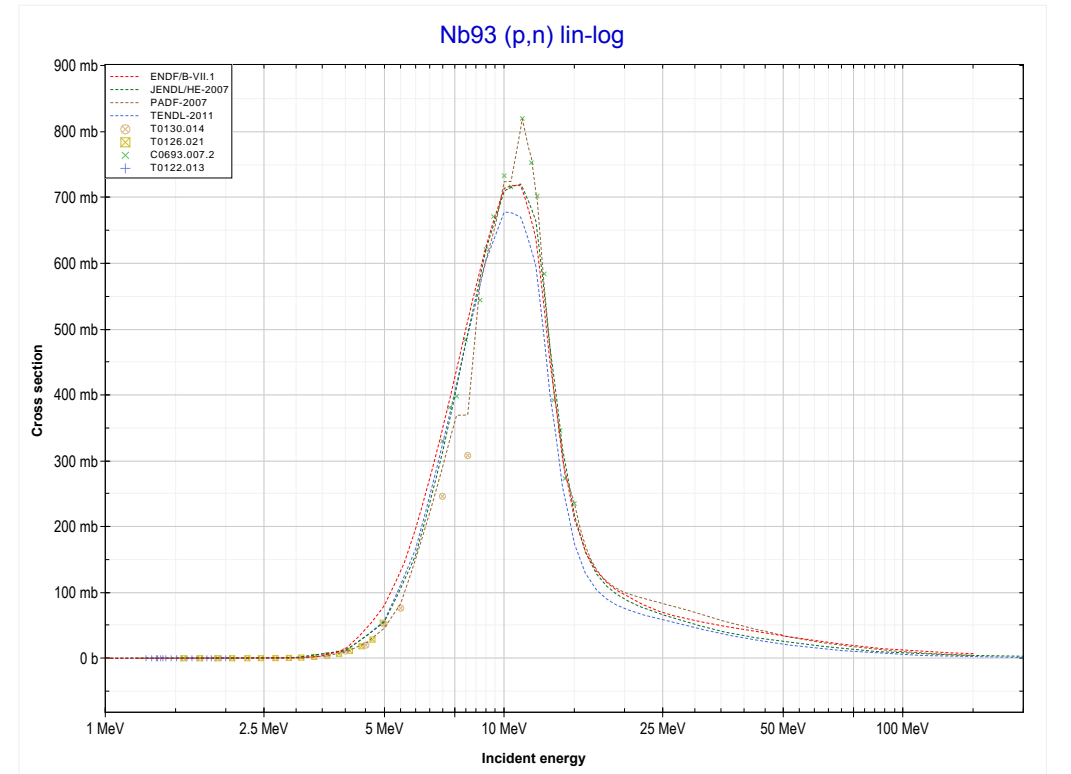
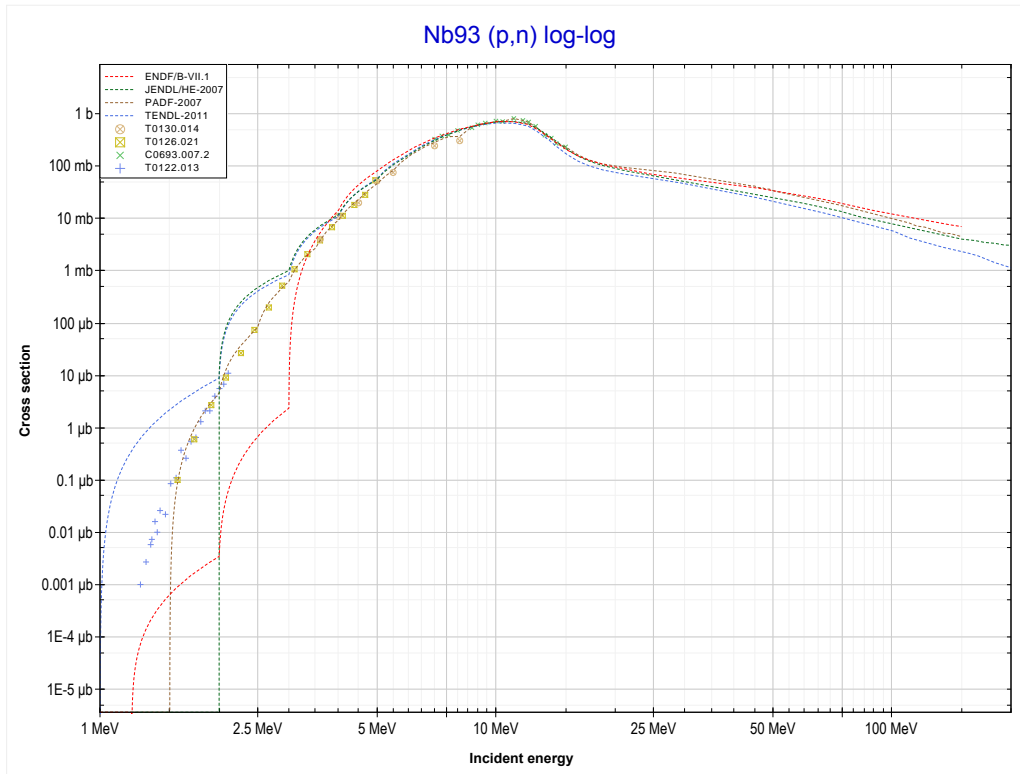
Reaction	Q-Value
Zr96(p,d)Zr95	-5631.75 keV
Zr96(p,n+p)Zr95	-7856.32 keV

<< 30-Zn-68	<b>40-Zr-96</b>	42-Mo-96 >>
<< MT28 (p,n+p)	<b>MT111 (p,2p) or MT5 (Y95 production)</b>	MT4 (p,n) >>



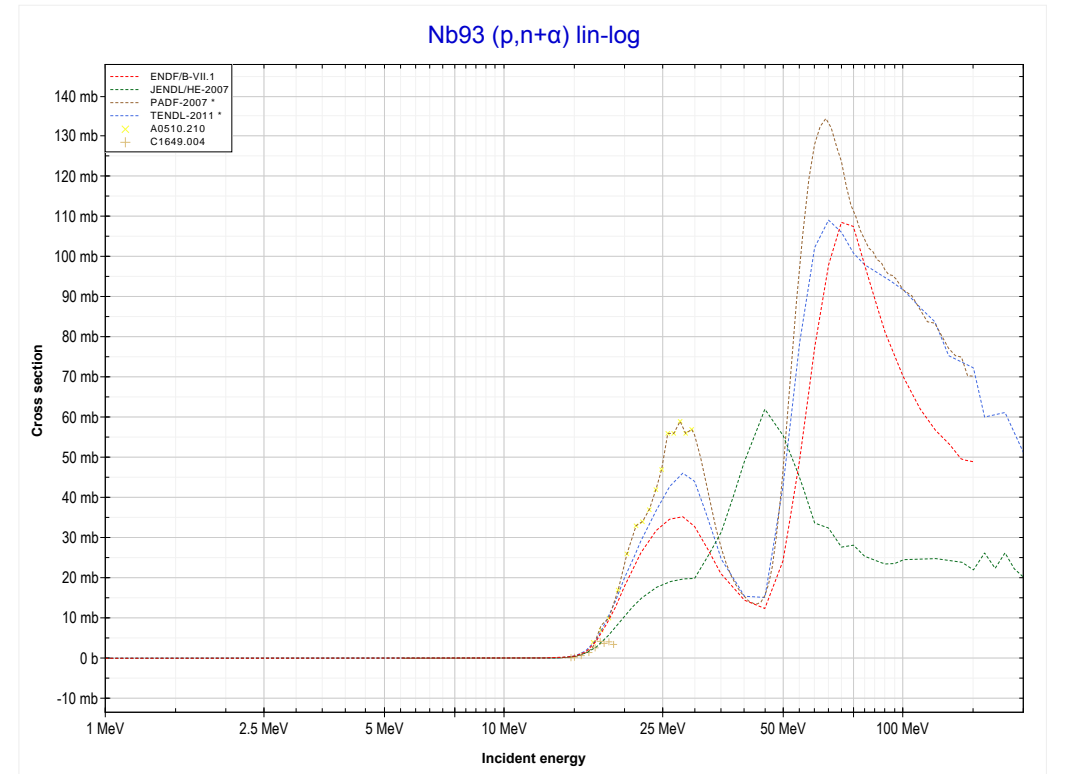
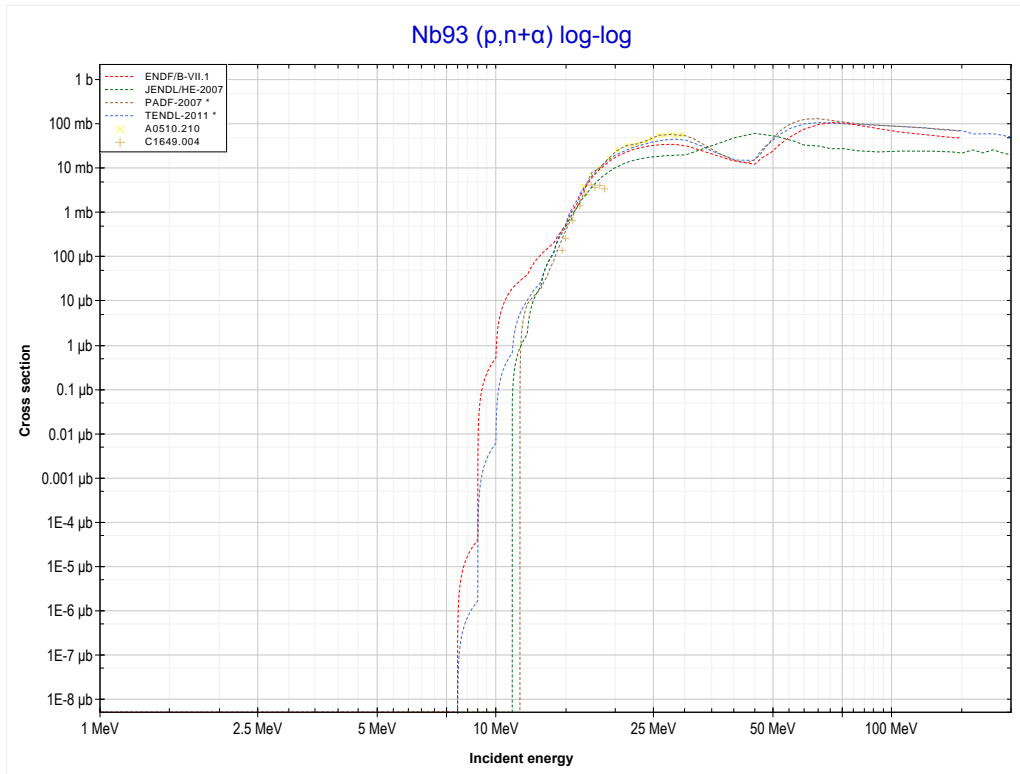
Reaction	Q-Value
Zr96(p,2p)Y95	-11524.77 keV

<< 40-Zr-96	<b>41-Nb-93</b>	42-Mo-94 >>
<< MT111 (p,2p)	<b>MT4 (p,n) or MT5 (Mo93 production)</b>	MT22 (p,n+α) >>



Reaction	Q-Value
Nb93(p,n)Mo93	-1187.65 keV

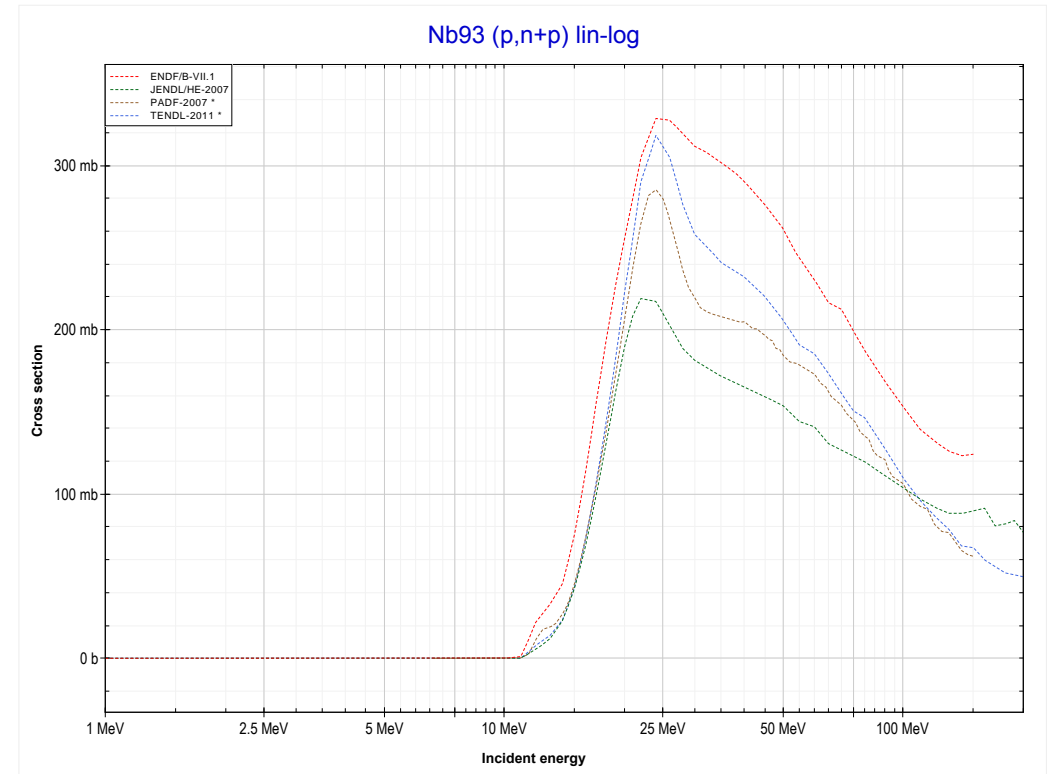
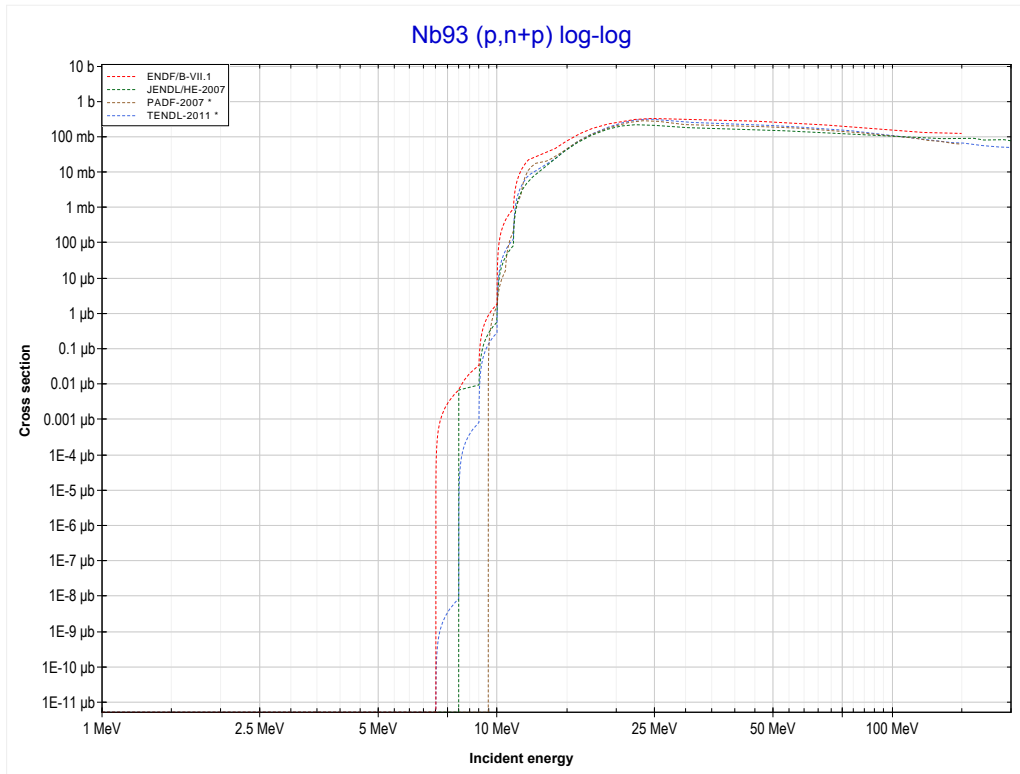
<< 40-Zr-92	<b>41-Nb-93</b>	42-Mo-92 >>
<< MT4 (p,n)	<b>MT22 (p,n+α) or MT5 (Zr89 production)</b>	MT28 (p,n+p) >>



Reaction	Q-Value
Nb93(p,n+α)Zr89	-5546.56 keV
Nb93(p,d+t)Zr89	-23135.86 keV
Nb93(p,n+p+t)Zr89	-25360.42 keV
Nb93(p,2n+He3)Zr89	-26124.18 keV
Nb93(p,n+2d)Zr89	-29393.09 keV
Nb93(p,2n+p+d)Zr89	-31617.66 keV
Nb93(p,3n+2p)Zr89	-33842.22 keV

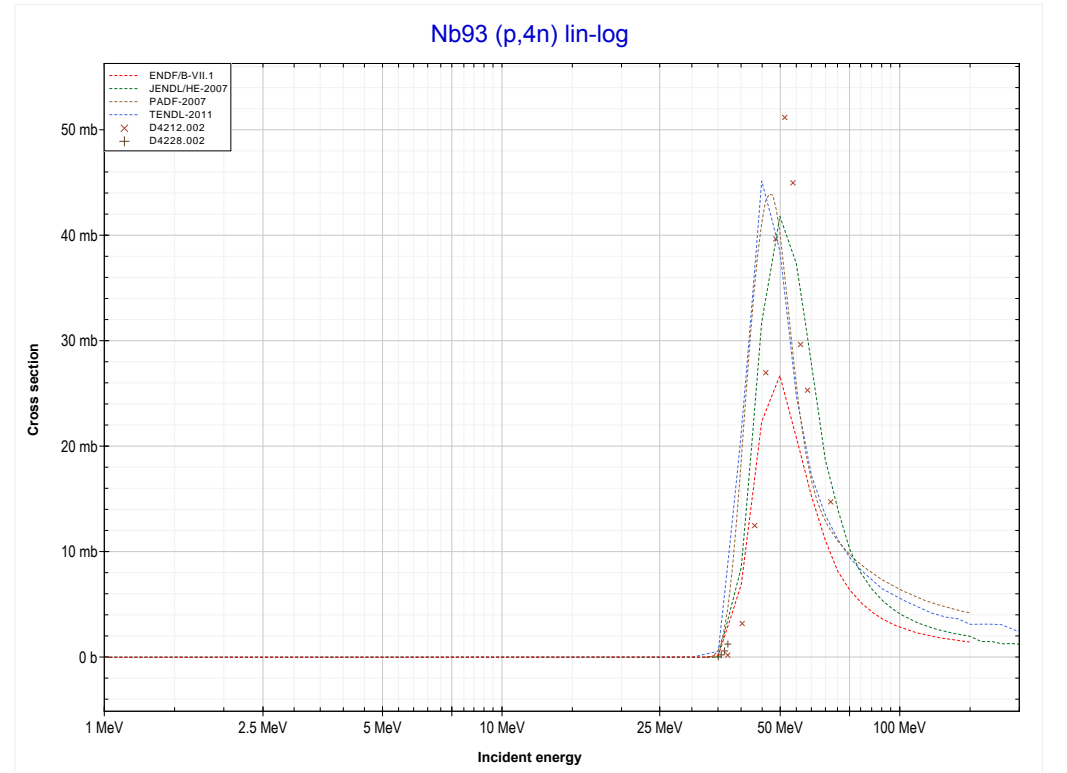
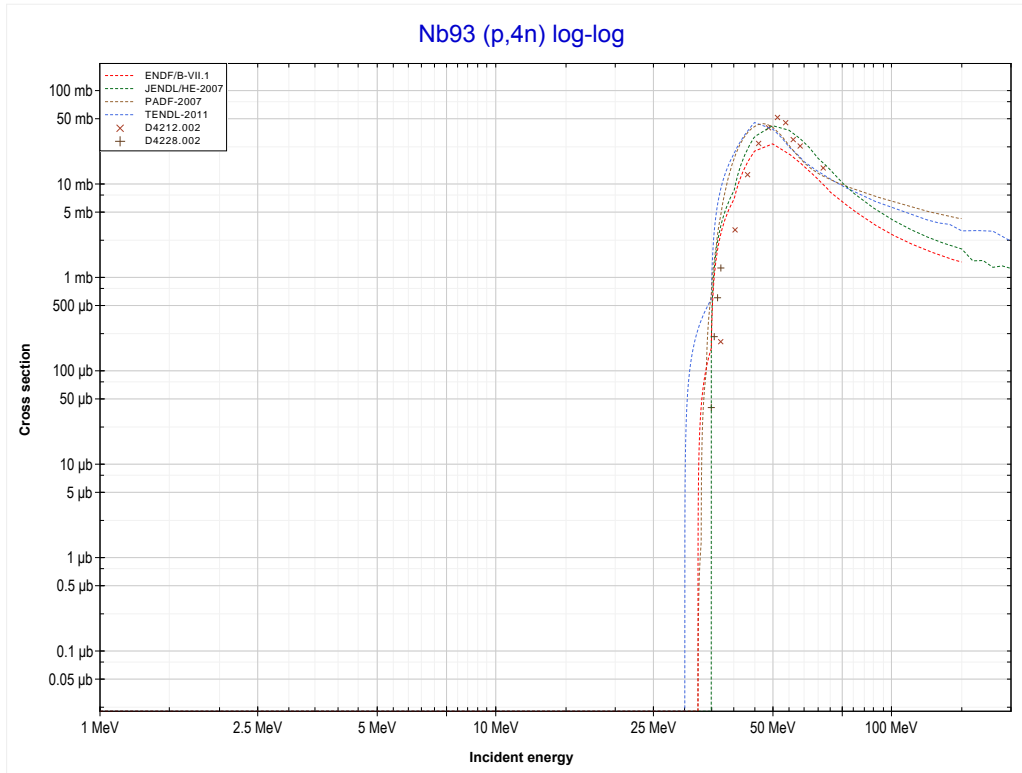


<< 40-Zr-96	<b>41-Nb-93</b>	42-Mo-94 >>
<< MT22 (p,n+α)	<b>MT28 (p,n+p) or MT5 (Nb92 production)</b>	MT37 (p,4n) >>



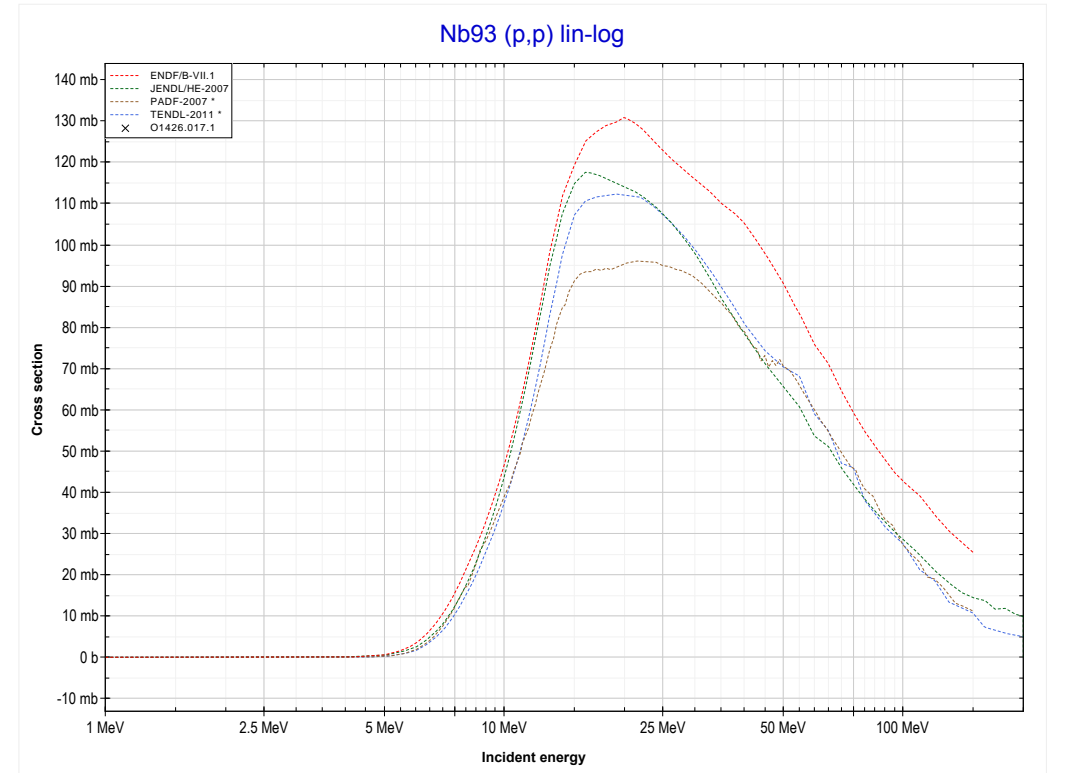
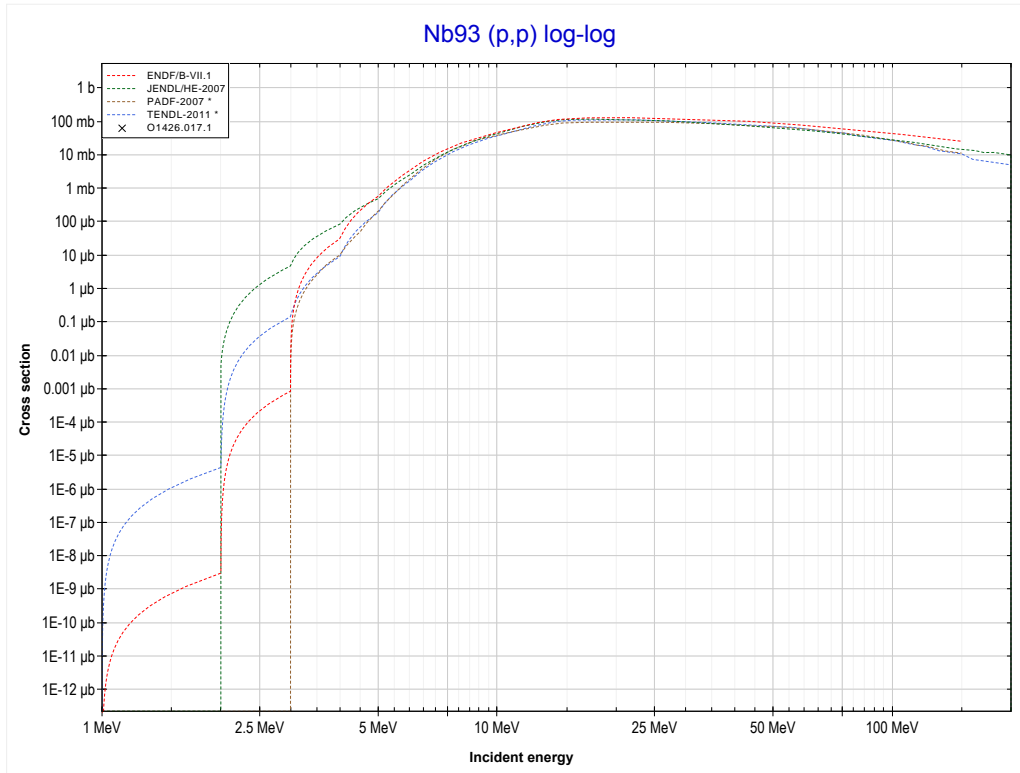
Reaction	Q-Value
Nb93(p,d)Nb92	-6606.75 keV
Nb93(p,n+p)Nb92	-8831.32 keV

<< 39-Y-89	<b>41-Nb-93</b>	42-Mo-96 >>
<< MT28 (p,n+p)	<b>MT37 (p,4n) or MT5 (Mo90 production)</b>	MT103 (p,p) >>



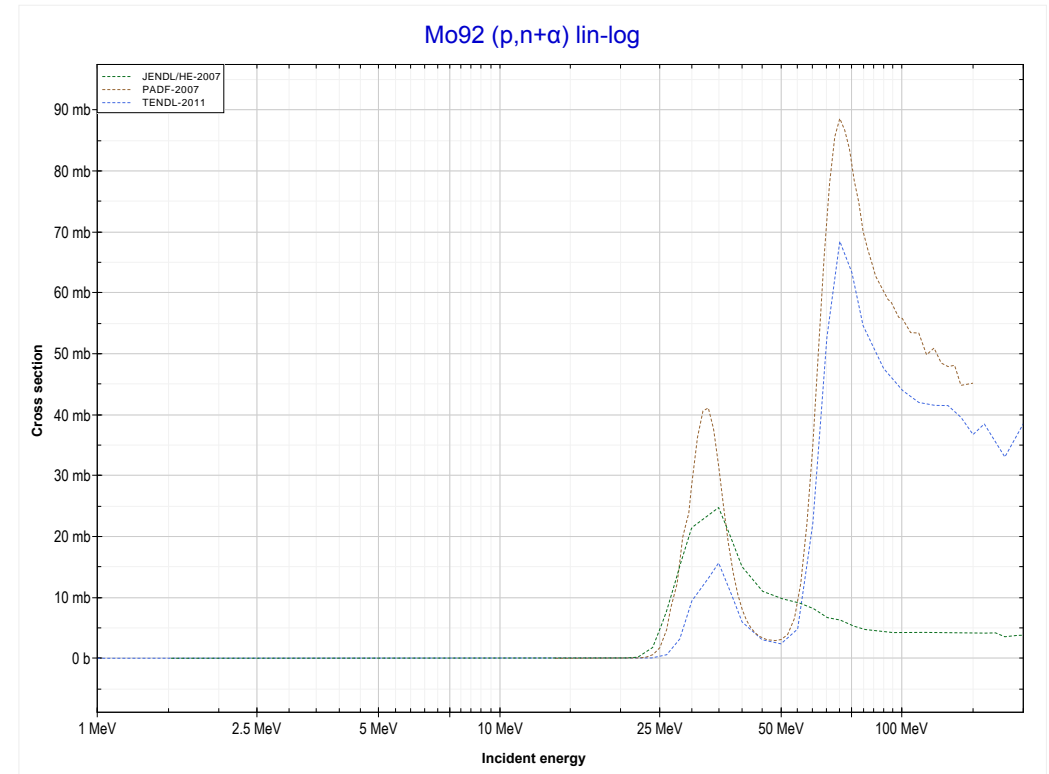
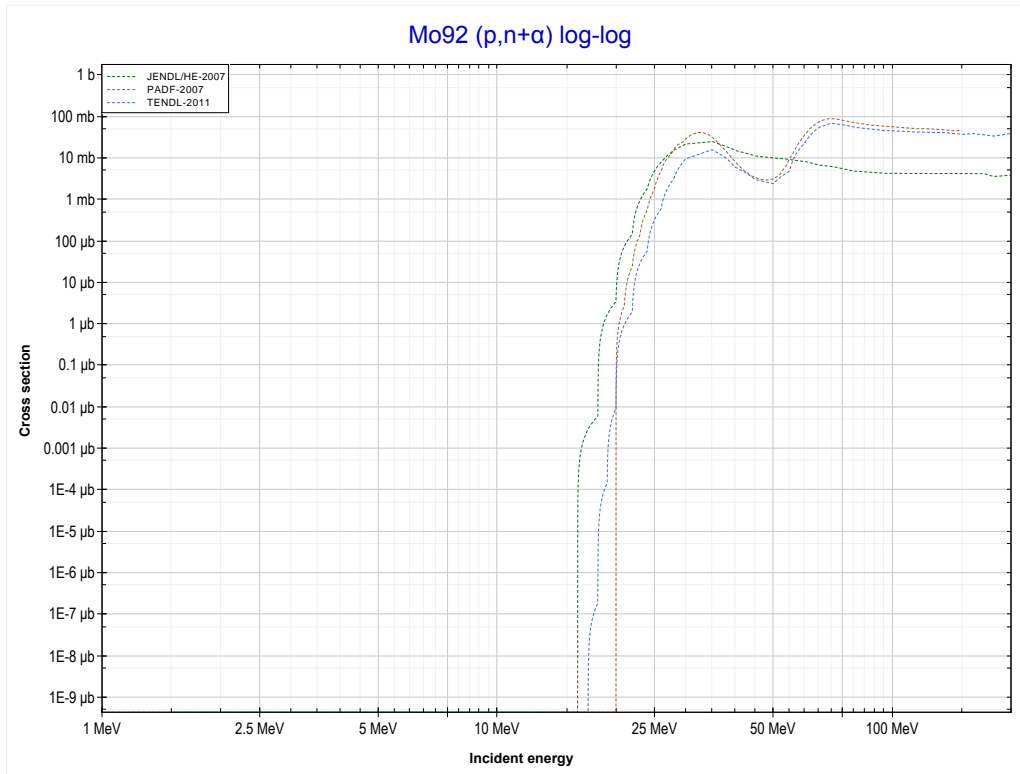
Reaction	Q-Value
Nb93(p,4n)Mo90	-32037.60 keV

<< 29-Cu-65	<b>41-Nb-93</b>	49-In-115 >>
<< MT37 (p,4n)	<b>MT103 (p,p) or MT5 (Nb93 production)</b>	MT22 (p,n+α) >>



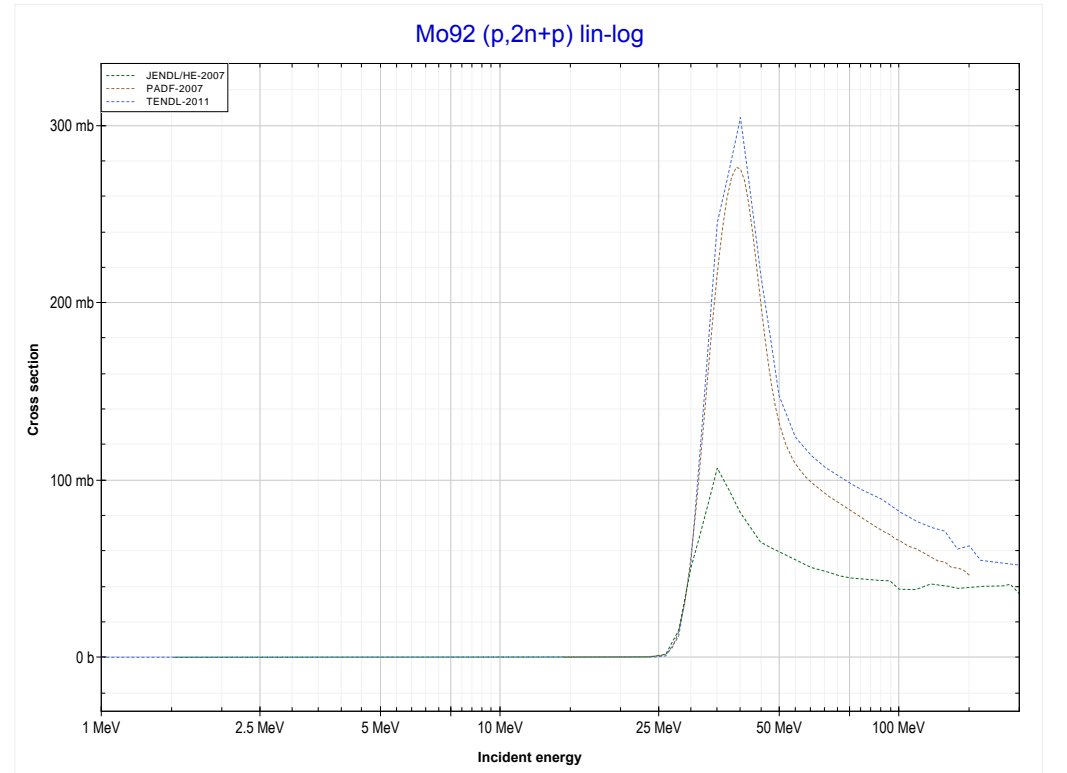
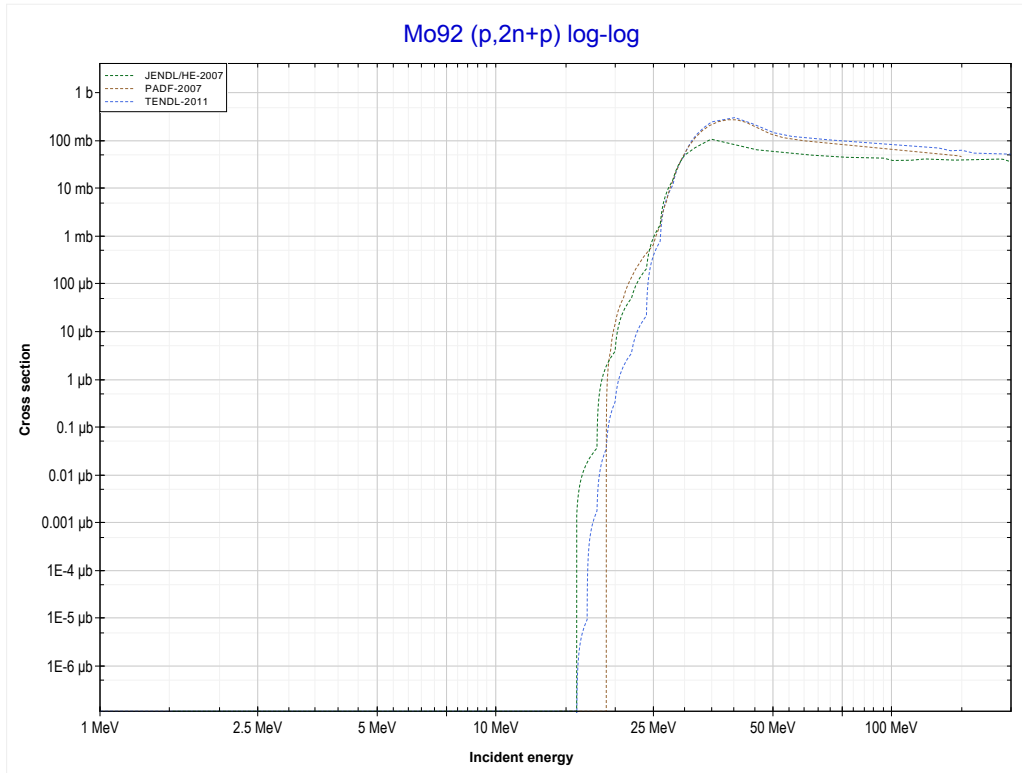
Reaction	Q-Value
Nb93(p,p)Nb93	0.00 keV

<< 41-Nb-93	<b>42-Mo-92</b>	42-Mo-94 >>
<< MT103 (p,p)	<b>MT22 (p,n+α) or MT5 (Nb88 production)</b>	MT41 (p,2n+p) >>



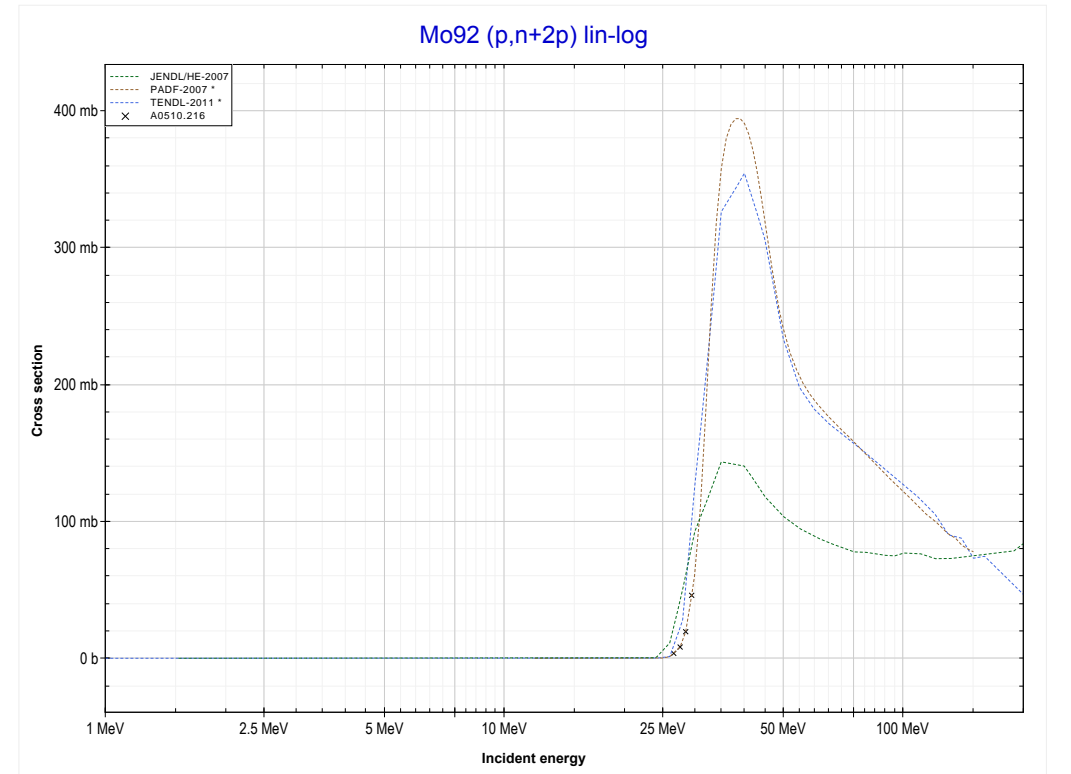
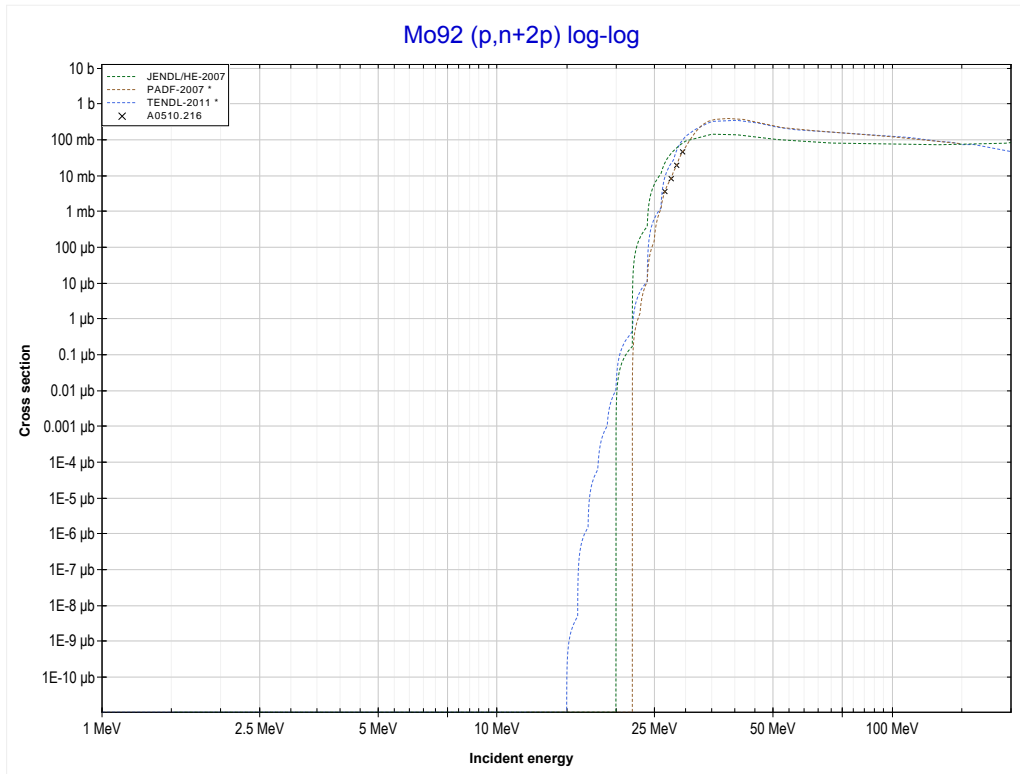
Reaction	Q-Value
Mo92(p,n+α)Nb88	-13942.26 keV
Mo92(p,d+t)Nb88	-31531.56 keV
Mo92(p,n+p+t)Nb88	-33756.12 keV
Mo92(p,2n+He3)Nb88	-34519.88 keV
Mo92(p,n+2d)Nb88	-37788.79 keV
Mo92(p,2n+p+d)Nb88	-40013.36 keV
Mo92(p,3n+2p)Nb88	-42237.92 keV

<< 40-Zr-91	<b>42-Mo-92</b>	79-Au-197 >>
<< MT22 (p,n+α)	<b>MT41 (p,2n+p) or MT5 (Mo90 production)</b>	MT44 (p,n+2p) >>



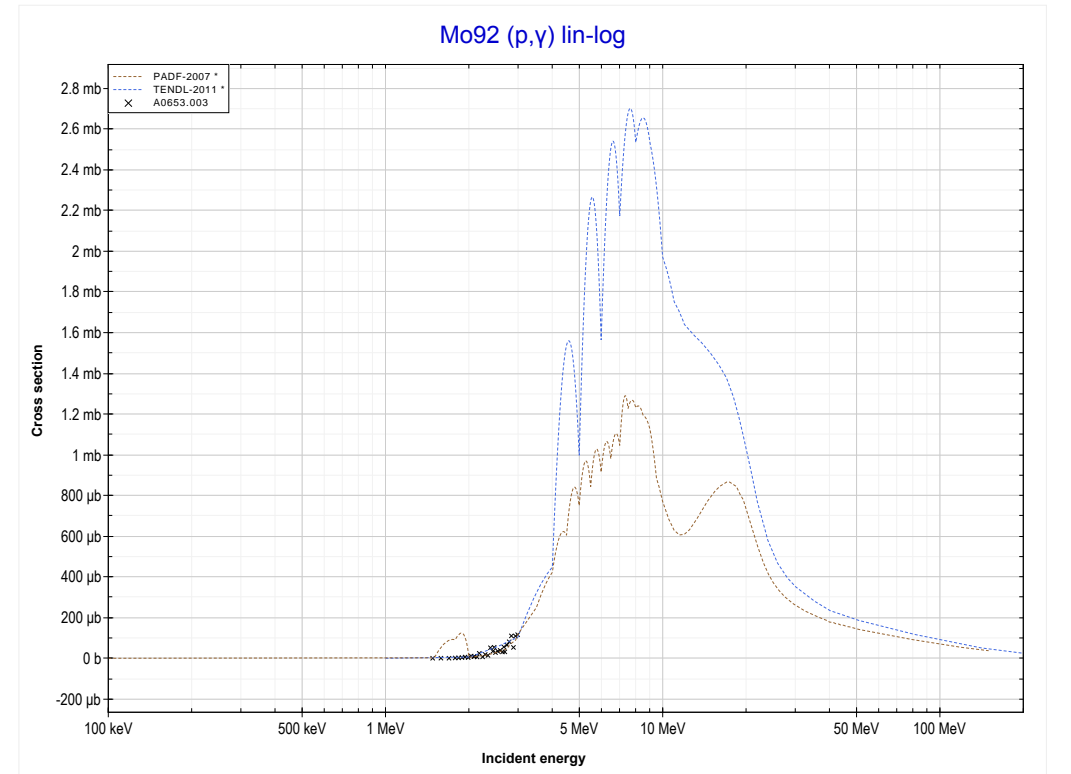
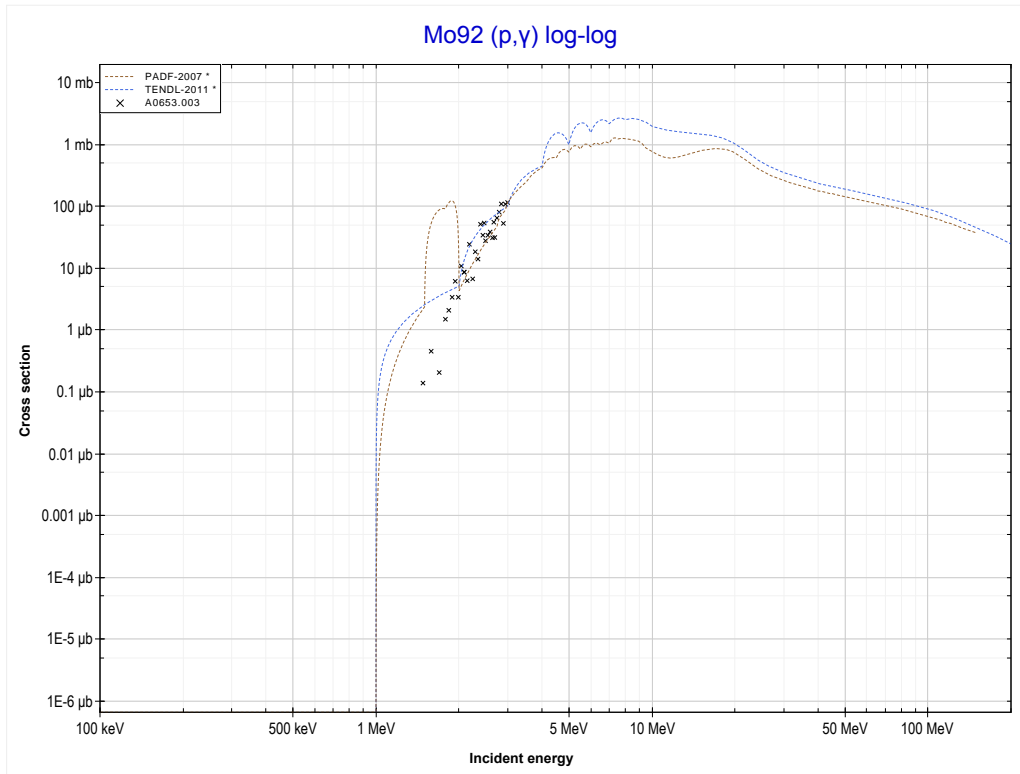
Reaction	Q-Value
Mo92(p,t)Mo90	-14298.84 keV
Mo92(p,n+d)Mo90	-20556.07 keV
Mo92(p,2n+p)Mo90	-22780.63 keV

<< 34-Se-74	<b>42-Mo-92</b>	42-Mo-98 >>
<< MT41 (p,2n+p)	<b>MT44 (p,n+2p) or MT5 (Nb90 production)</b>	MT102 (p, $\gamma$ ) >>



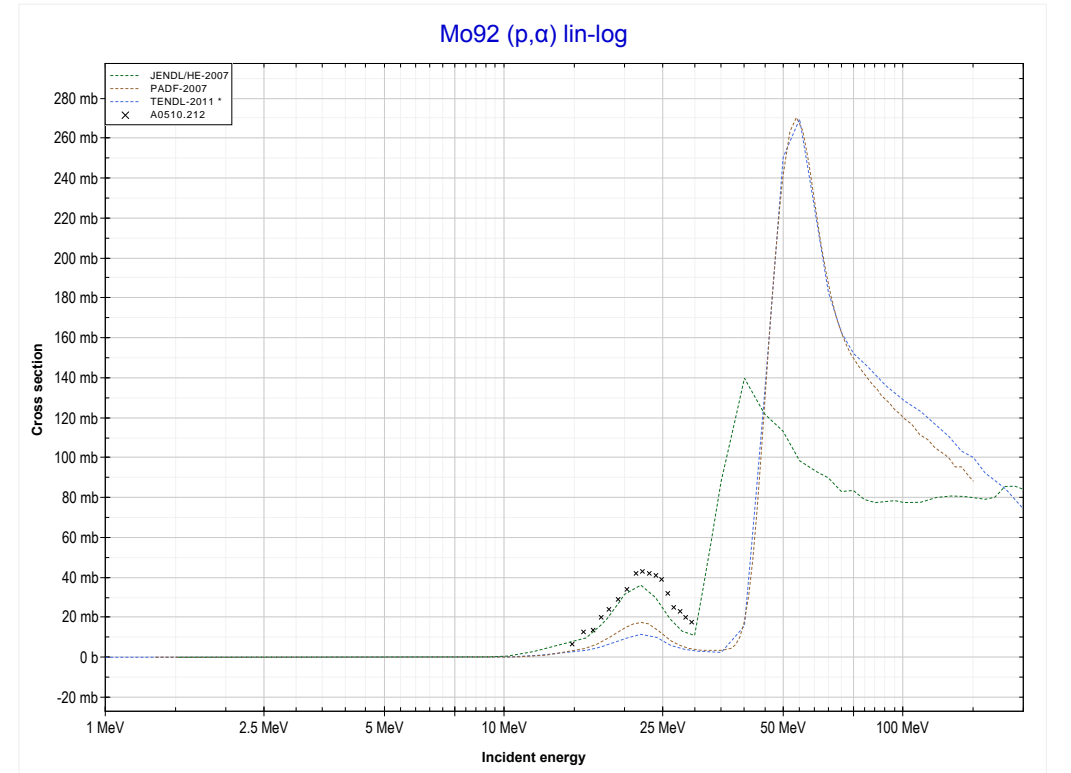
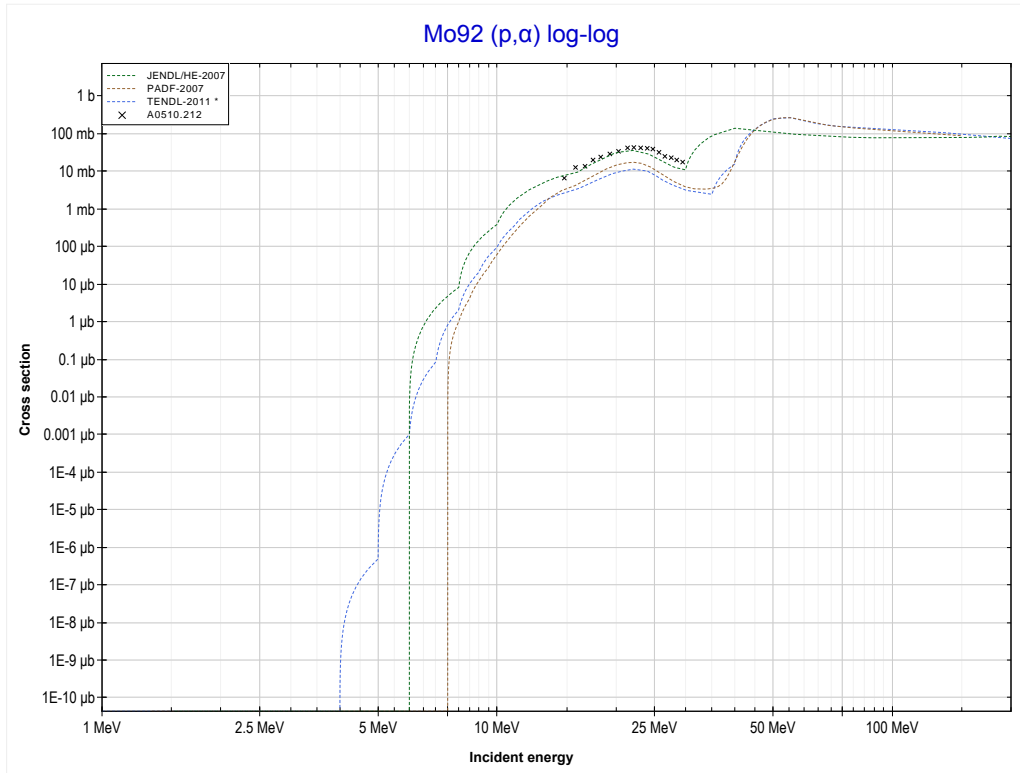
Reaction	Q-Value
Mo92(p,He3)Nb90	-11791.24 keV
Mo92(p,p+d)Nb90	-17284.72 keV
Mo92(p,n+2p)Nb90	-19509.29 keV

<< 38-Sr-87	<b>42-Mo-92</b>	42-Mo-94 >>
<< MT44 (p,n+2p)	<b>MT102 (p,<math>\gamma</math>) or MT5 (Tc93 production)</b>	MT107 (p, $\alpha$ ) >>



<b>Reaction</b>	<b>Q-Value</b>
Mo92(p, $\gamma$ )Tc93	4086.97 keV

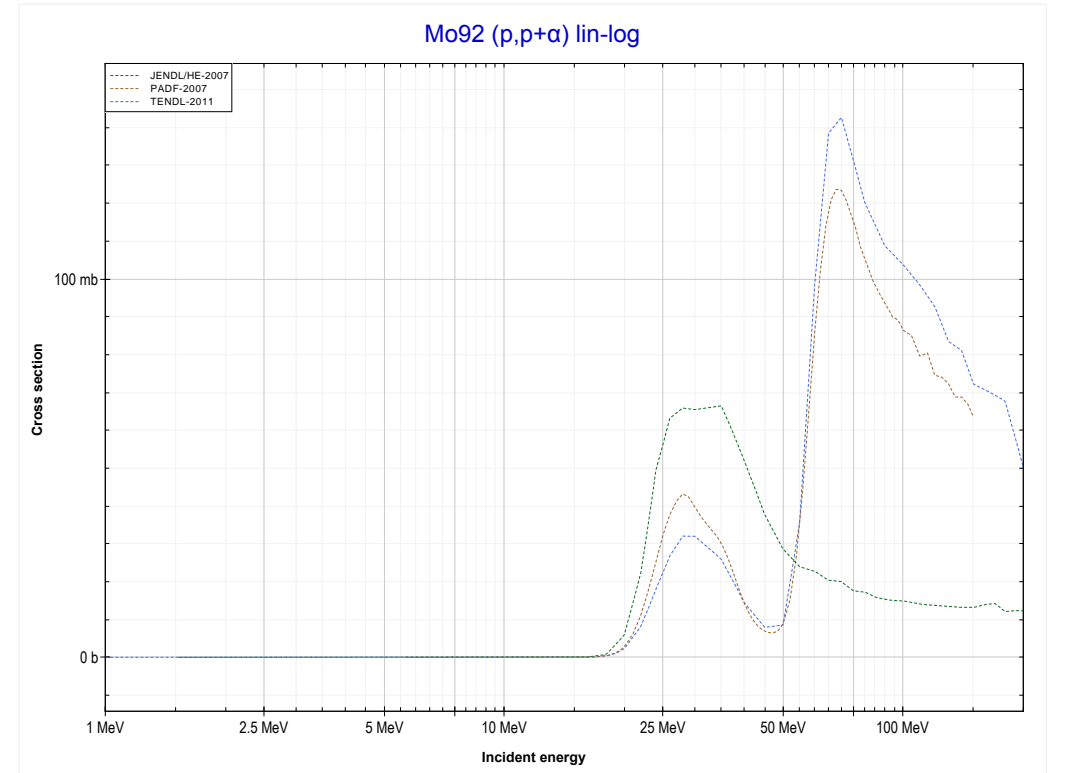
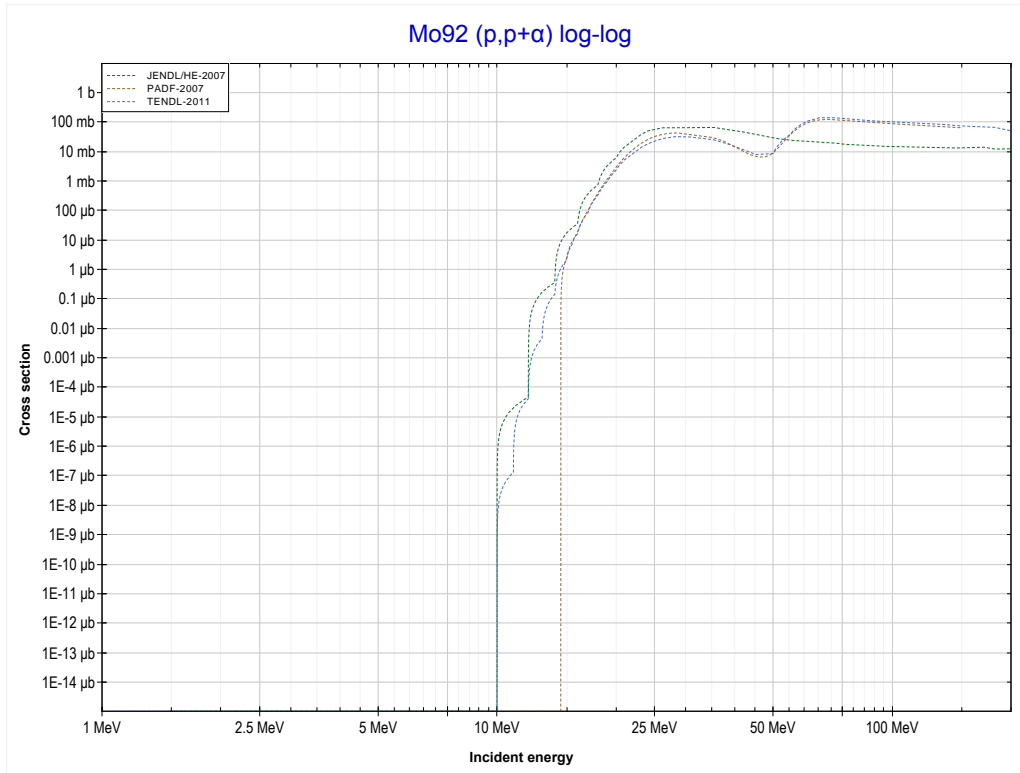
<< 40-Zr-91	<b>42-Mo-92</b>	42-Mo-95 >>
<< MT102 (p, $\gamma$ )	<b>MT107 (p,<math>\alpha</math>) or MT5 (Nb89 production)</b>	MT112 (p,p+ $\alpha$ ) >>



Reaction	Q-Value
Mo92(p, $\alpha$ )Nb89	-1290.95 keV
Mo92(p,p+t)Nb89	-21104.81 keV
Mo92(p,n+He3)Nb89	-21868.56 keV
Mo92(p,2d)Nb89	-25137.47 keV
Mo92(p,n+p+d)Nb89	-27362.04 keV
Mo92(p,2n+2p)Nb89	-29586.60 keV

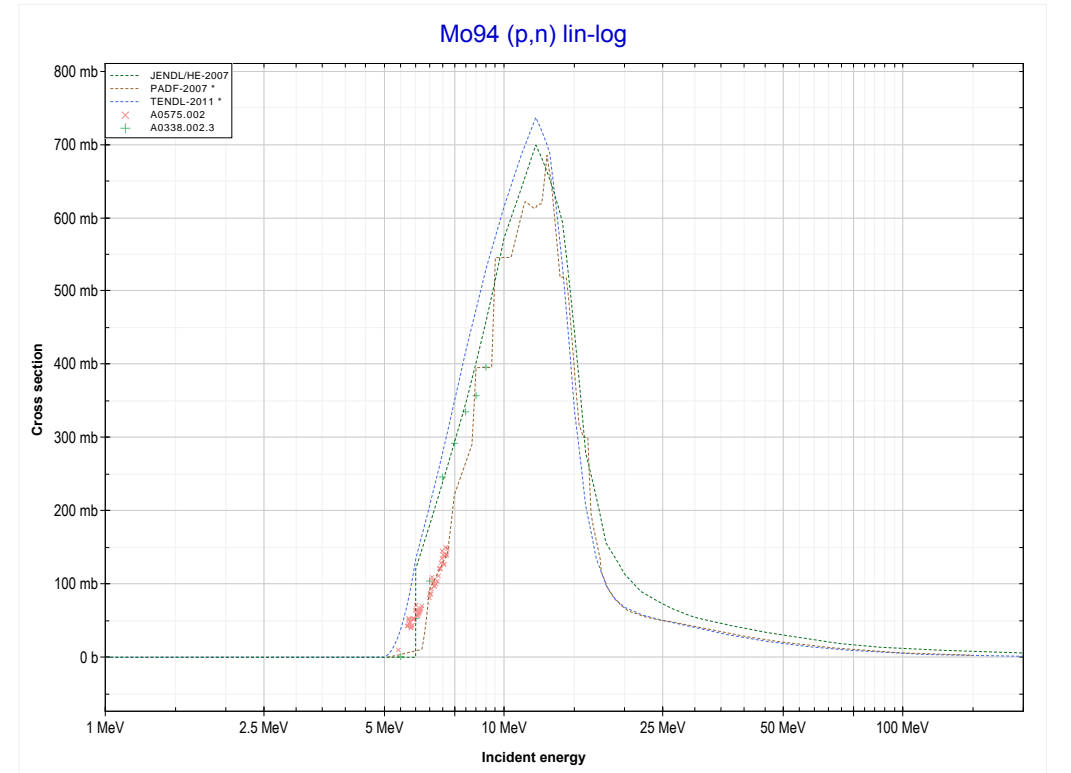
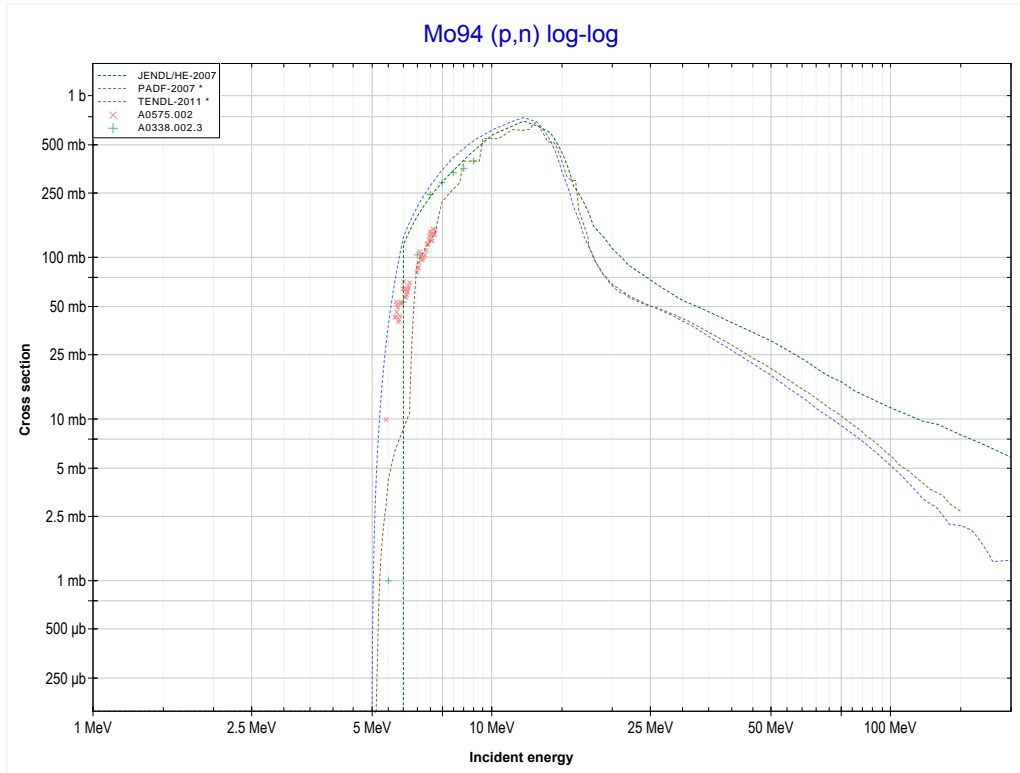


<< 23-V-51	<b>42-Mo-92</b>	
<< MT107 (p, $\alpha$ )	<b>MT112 (p,p<math>\alpha</math>) or MT5 (Zr88 production)</b>	MT4 (p,n) >>



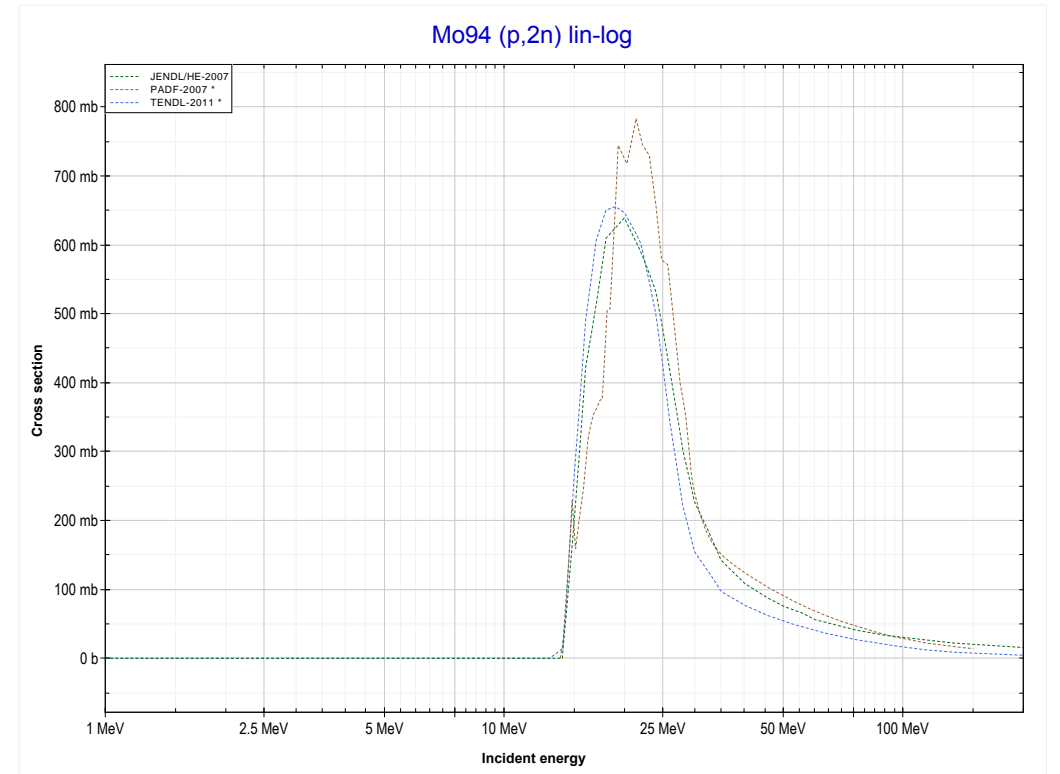
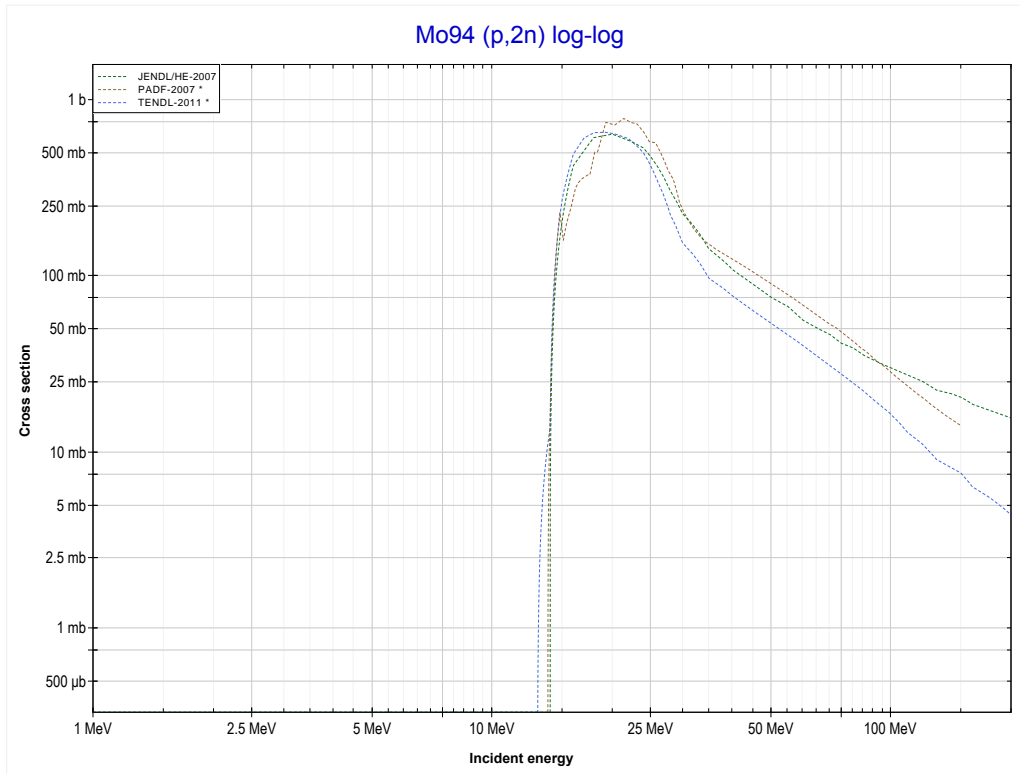
Reaction	Q-Value
Mo92(p,p $\alpha$ )Zr88	-5606.92 keV
Mo92(p,d+He3)Zr88	-23959.97 keV
Mo92(p,2p+t)Zr88	-25420.78 keV
Mo92(p,n+p+He3)Zr88	-26184.53 keV
Mo92(p,p+2d)Zr88	-29453.44 keV
Mo92(p,n+2p+d)Zr88	-31678.01 keV
Mo92(p,2n+3p)Zr88	-33902.58 keV

<< 41-Nb-93	<b>42-Mo-94</b>	42-Mo-95 >>
<< MT112 (p,p+α)	<b>MT4 (p,n) or MT5 (Tc94 production)</b>	MT16 (p,2n) >>



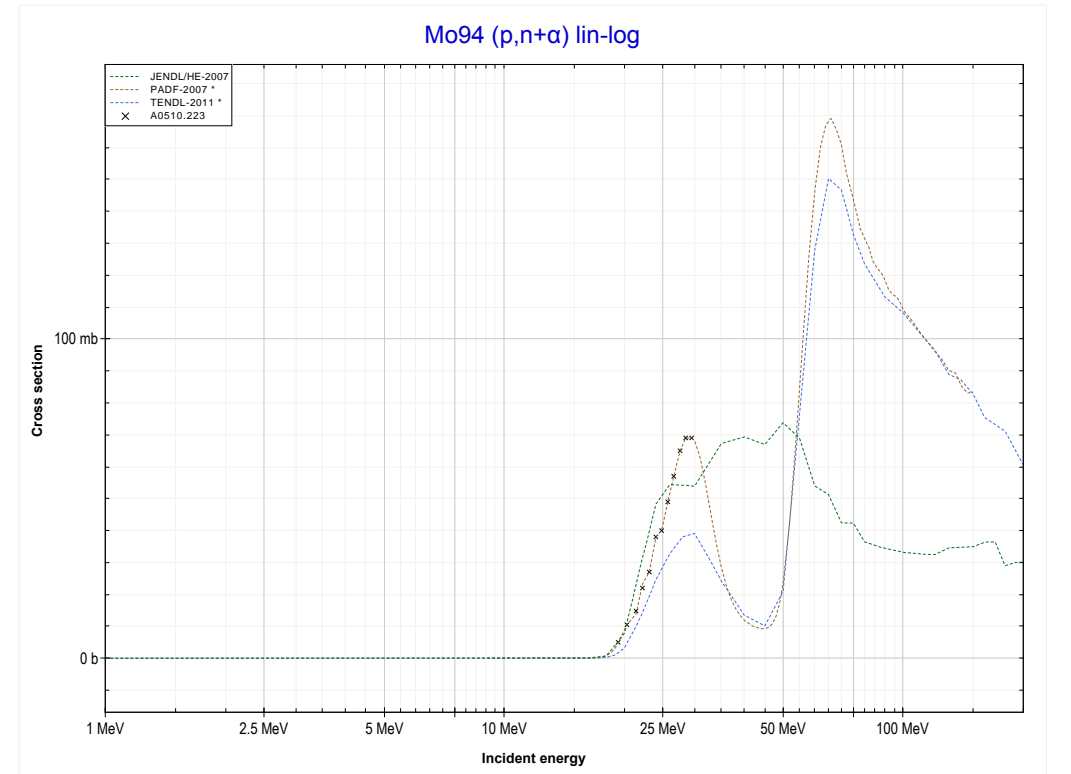
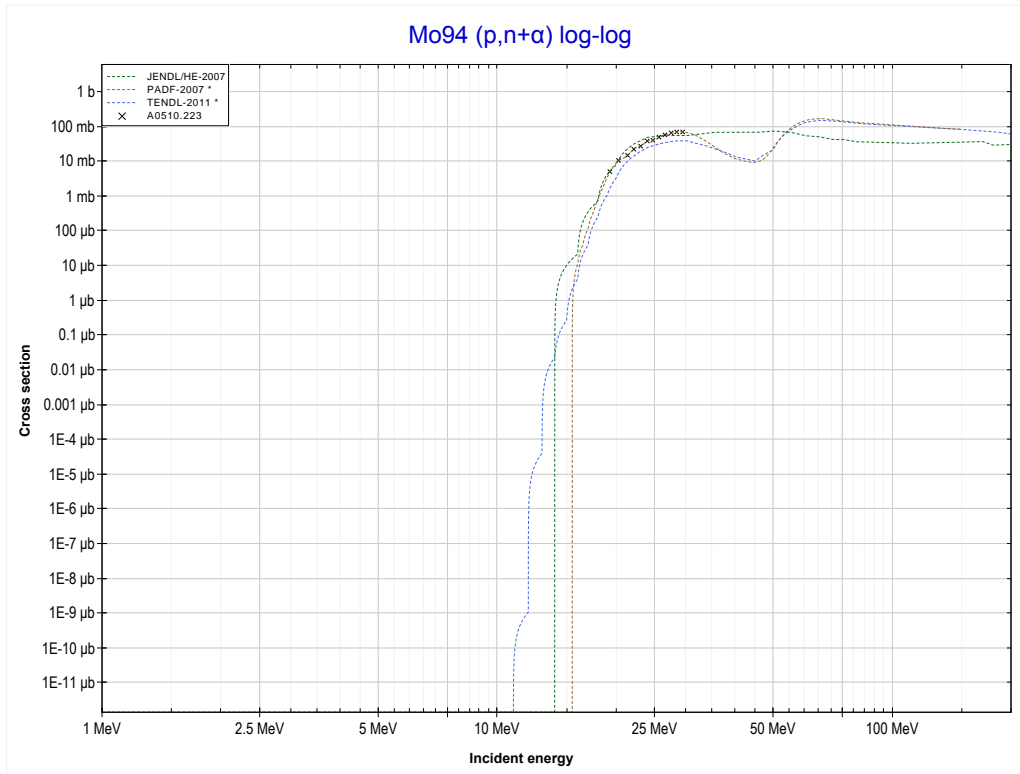
Reaction	Q-Value
Mo94(p,n)Tc94	-5038.05 keV

<< 40-Zr-96	<b>42-Mo-94</b>	42-Mo-95 >>
<< MT4 (p,n)	<b>MT16 (p,2n) or MT5 (Tc93 production)</b>	MT22 (p,n+α) >>



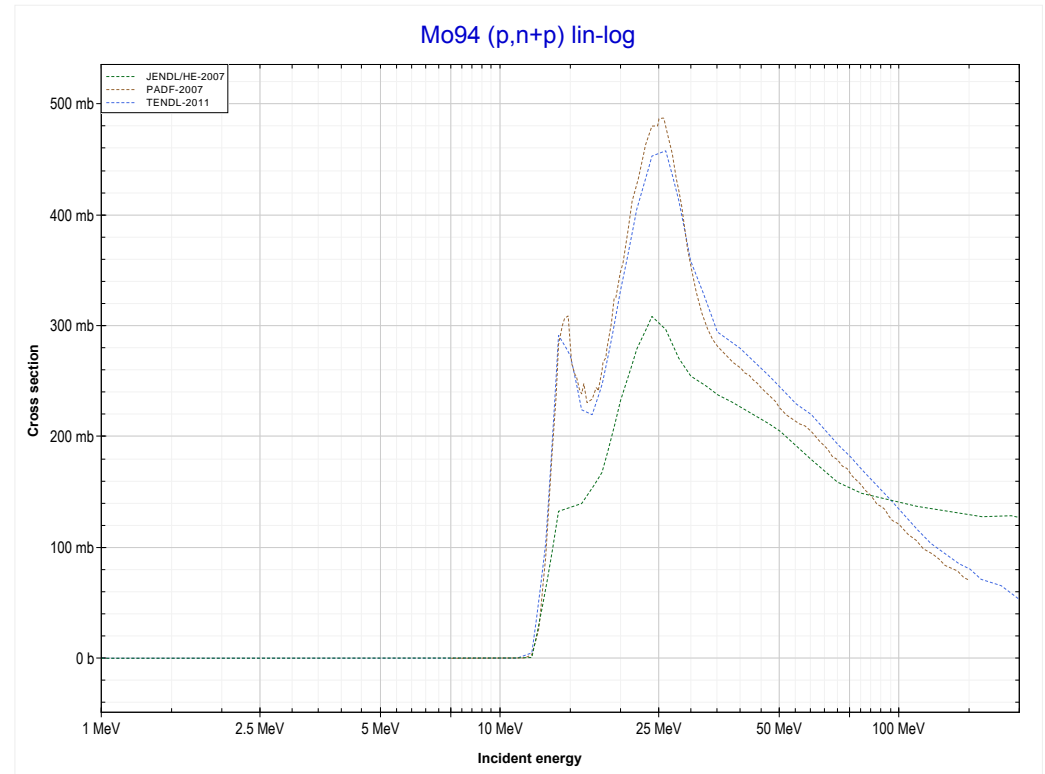
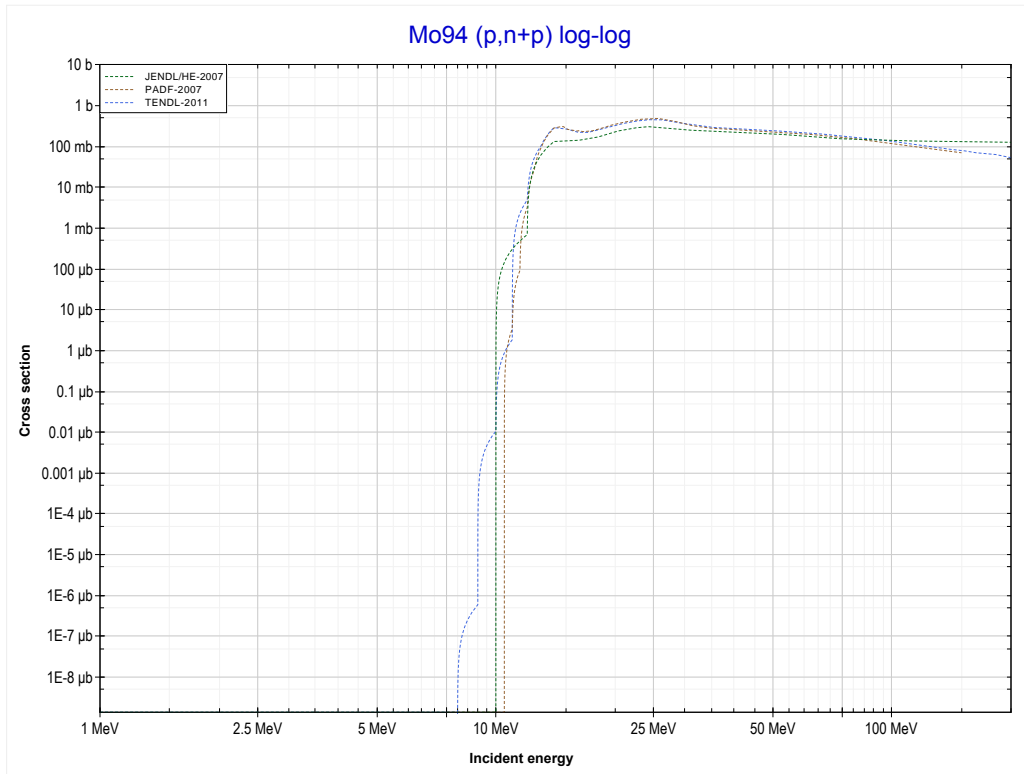
Reaction	Q-Value
Mo94(p,2n)Tc93	-13660.36 keV

<< 42-Mo-92	<b>42-Mo-94</b>	42-Mo-96 >>
<< MT16 (p,2n)	<b>MT22 (p,n+α) or MT5 (Nb90 production)</b>	MT28 (p,n+p) >>



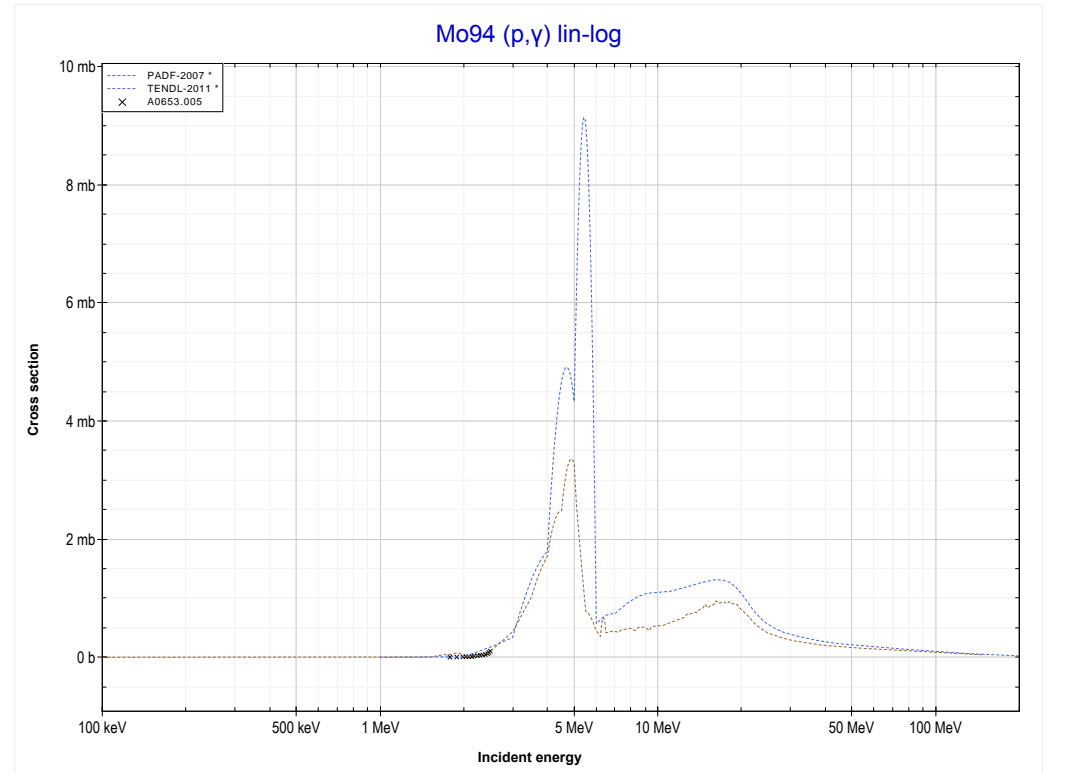
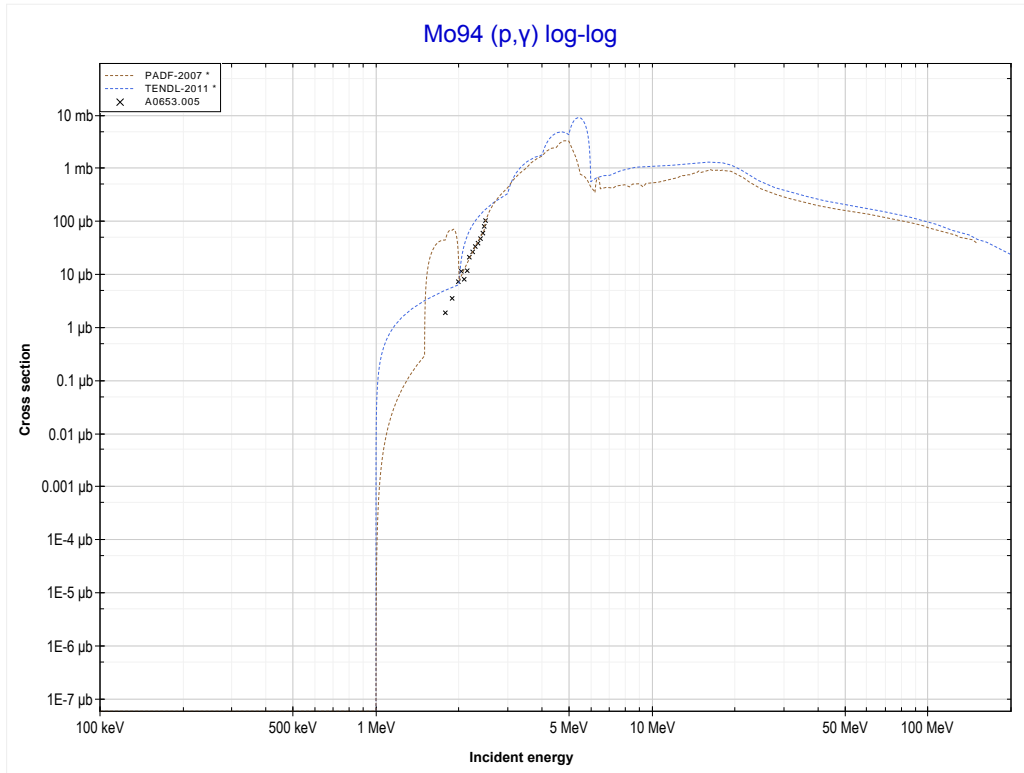
Reaction	Q-Value
Mo94(p,n+α)Nb90	-8960.96 keV
Mo94(p,d+t)Nb90	-26550.26 keV
Mo94(p,n+p+t)Nb90	-28774.82 keV
Mo94(p,2n+He3)Nb90	-29538.58 keV
Mo94(p,n+2d)Nb90	-32807.49 keV
Mo94(p,2n+p+d)Nb90	-35032.06 keV
Mo94(p,3n+2p)Nb90	-37256.62 keV

<< 41-Nb-93	<b>42-Mo-94</b>	42-Mo-100 >>
<< MT22 (p,n+α)	<b>MT28 (p,n+p) or MT5 (Mo93 production)</b>	MT102 (p,γ) >>



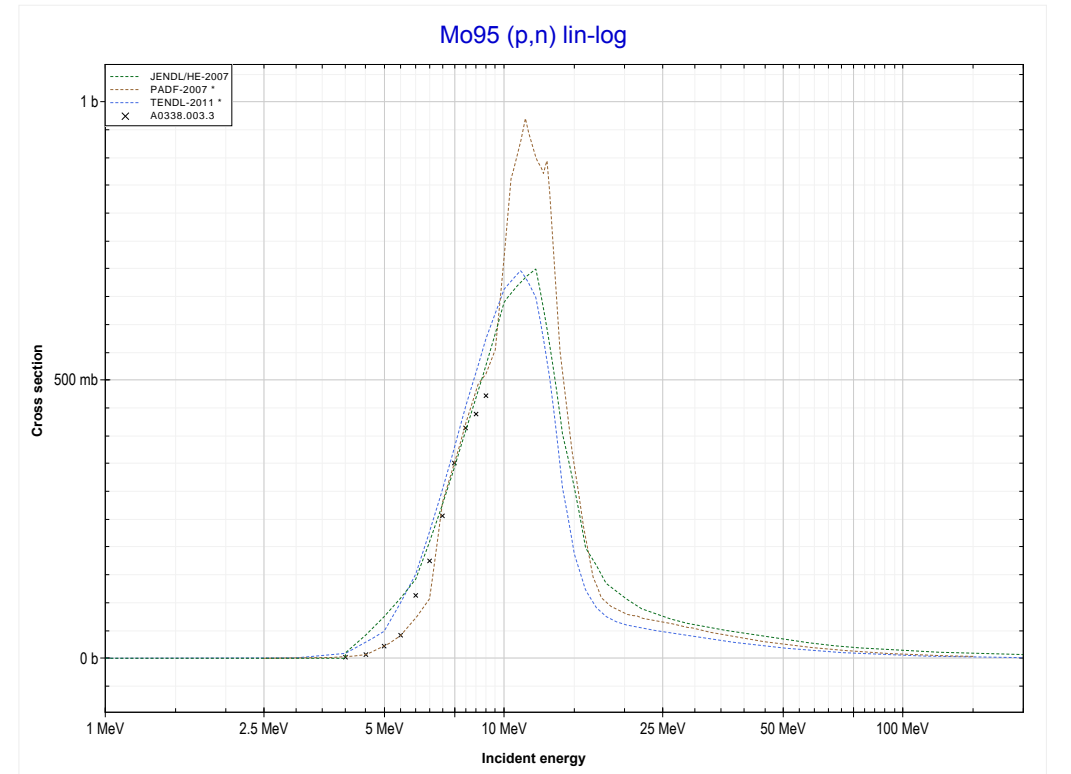
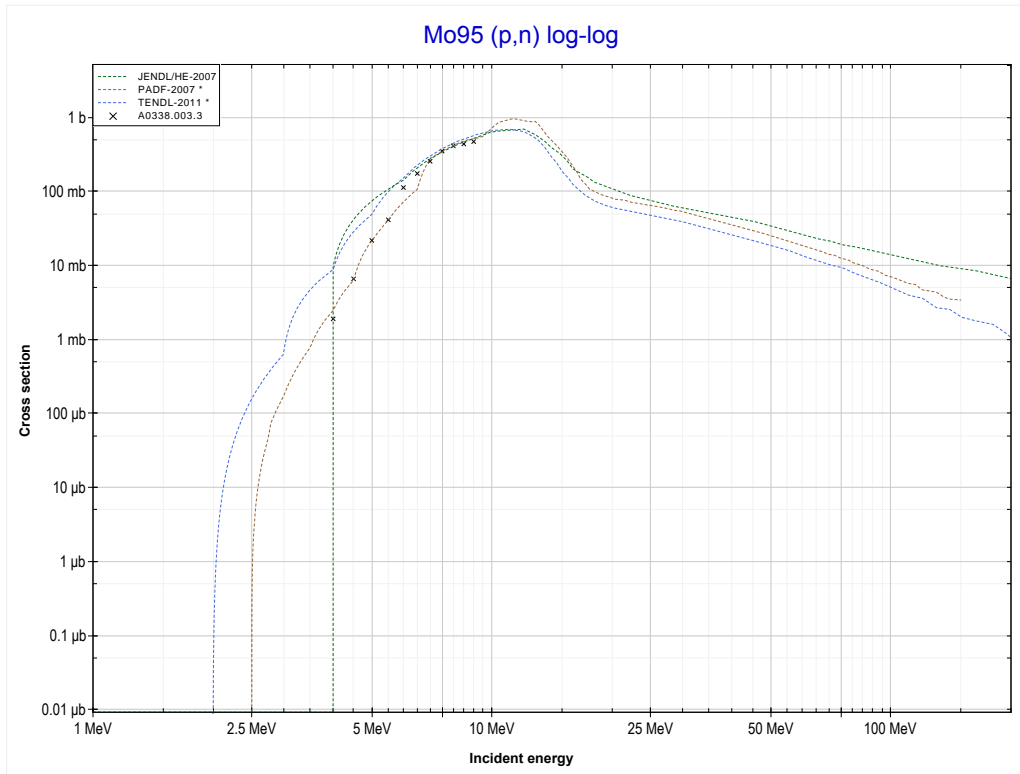
Reaction	Q-Value
Mo94(p,d)Mo93	-7453.45 keV
Mo94(p,n+p)Mo93	-9678.02 keV

<< 42-Mo-92	<b>42-Mo-94</b>	42-Mo-98 >>
<< MT28 (p,n+p)	<b>MT102 (p,<math>\gamma</math>) or MT5 (Tc95 production)</b>	MT4 (p,n) >>



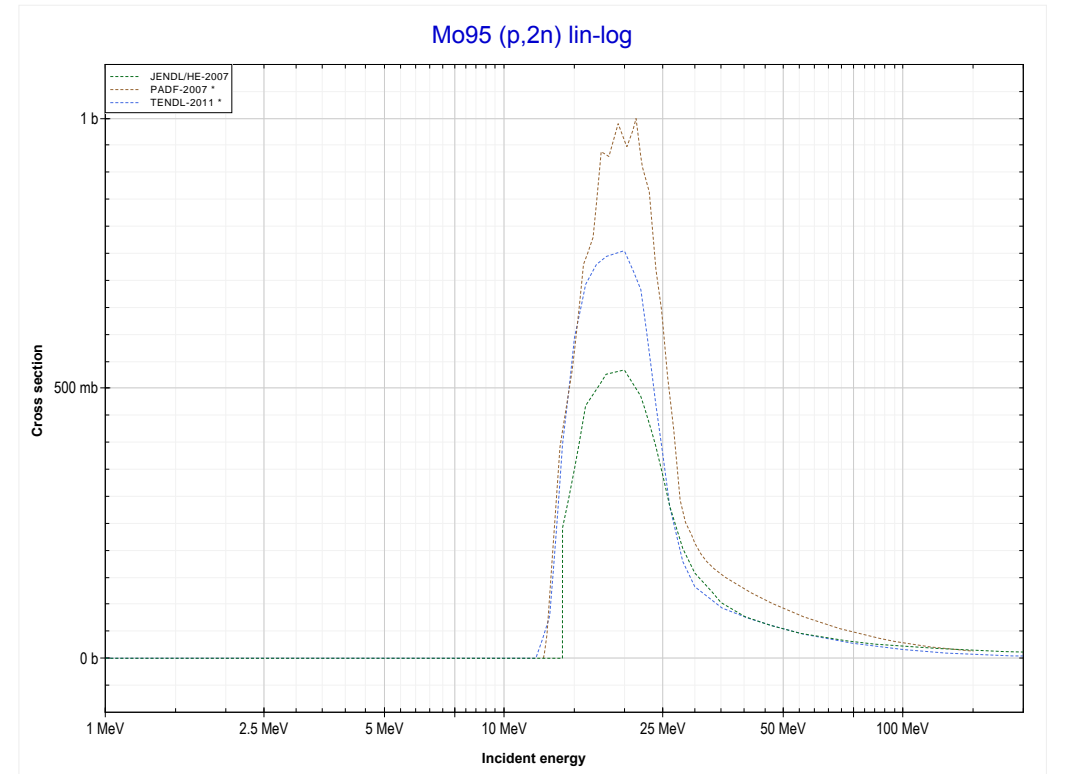
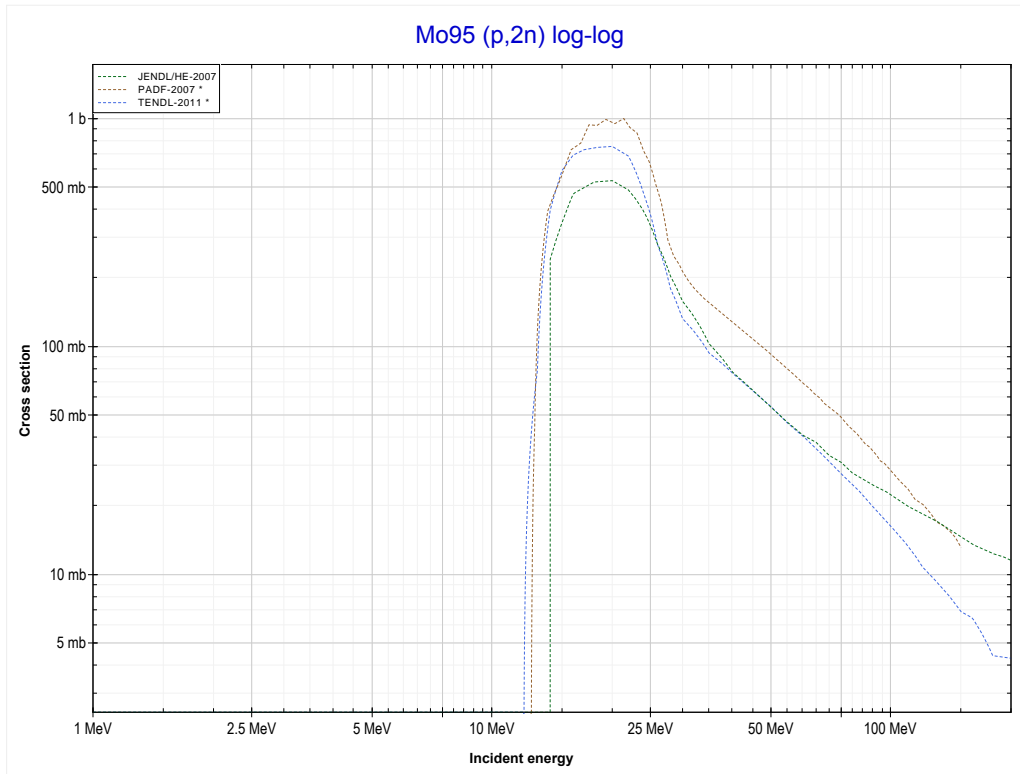
Reaction	Q-Value
Mo94(p, $\gamma$ )Tc95	4896.27 keV

<< 42-Mo-94	<b>42-Mo-95</b>	42-Mo-96 >>
<< MT102 (p, $\gamma$ )	<b>MT4 (p,n) or MT5 (Tc95 production)</b>	MT16 (p,2n) >>



Reaction	Q-Value
Mo95(p,n)Tc95	-2472.85 keV

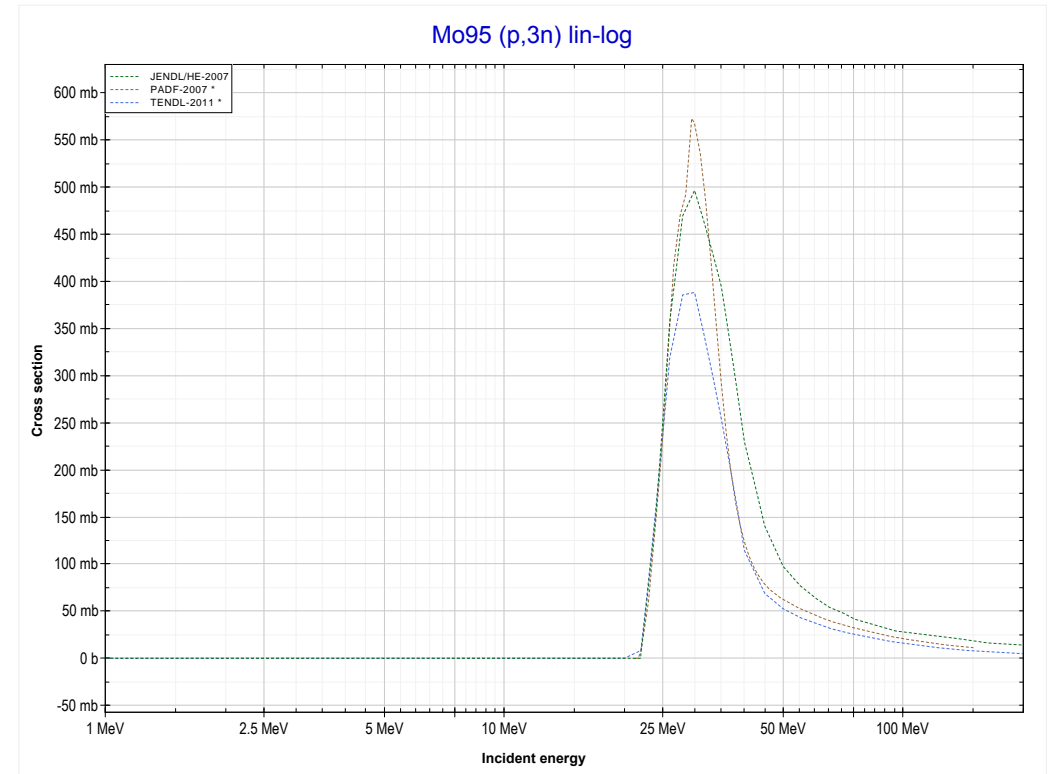
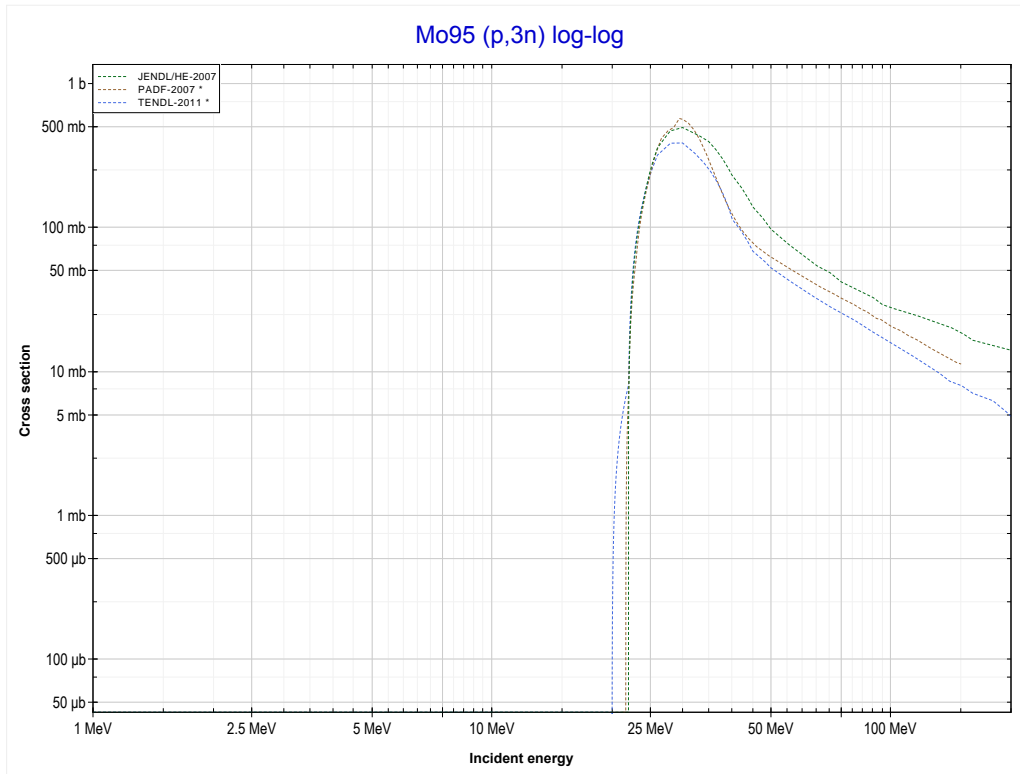
<< 42-Mo-94	<b>42-Mo-95</b>	42-Mo-96 >>
<< MT4 (p,n)	<b>MT16 (p,2n) or MT5 (Tc94 production)</b>	MT17 (p,3n) >>



Reaction	Q-Value
Mo95(p,2n)Tc94	-12407.16 keV

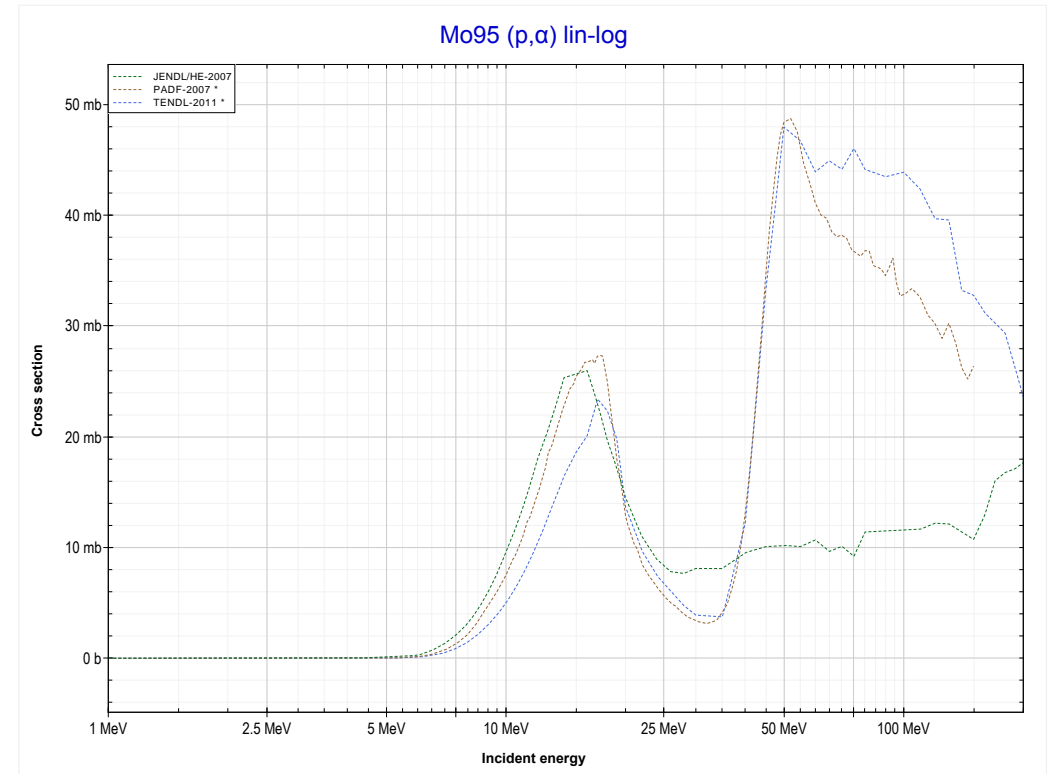
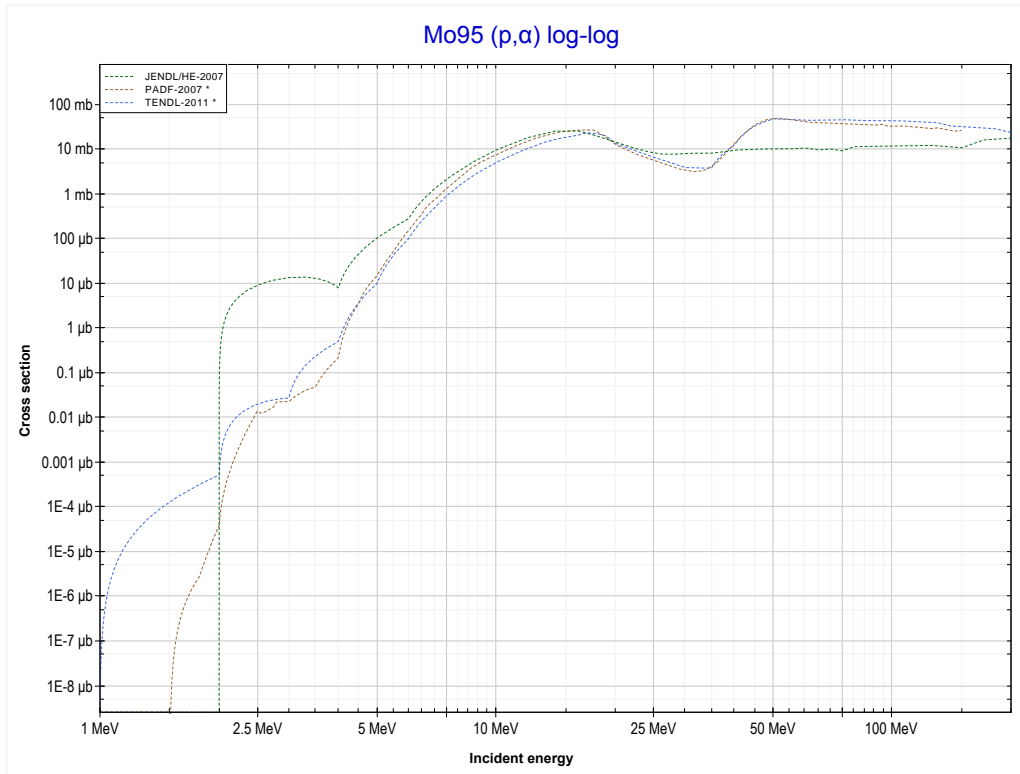


<< 40-Zr-94	<b>42-Mo-95</b>	42-Mo-96 >>
<< MT16 (p,2n)	<b>MT17 (p,3n) or MT5 (Tc93 production)</b>	MT107 (p, $\alpha$ ) >>



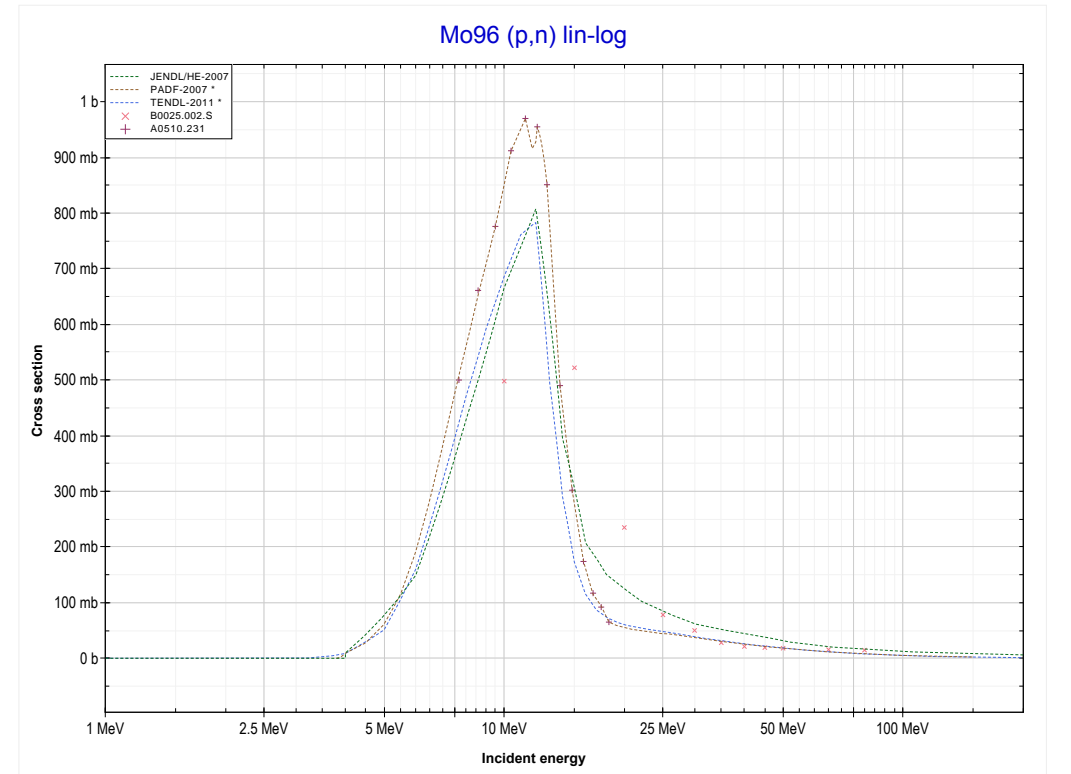
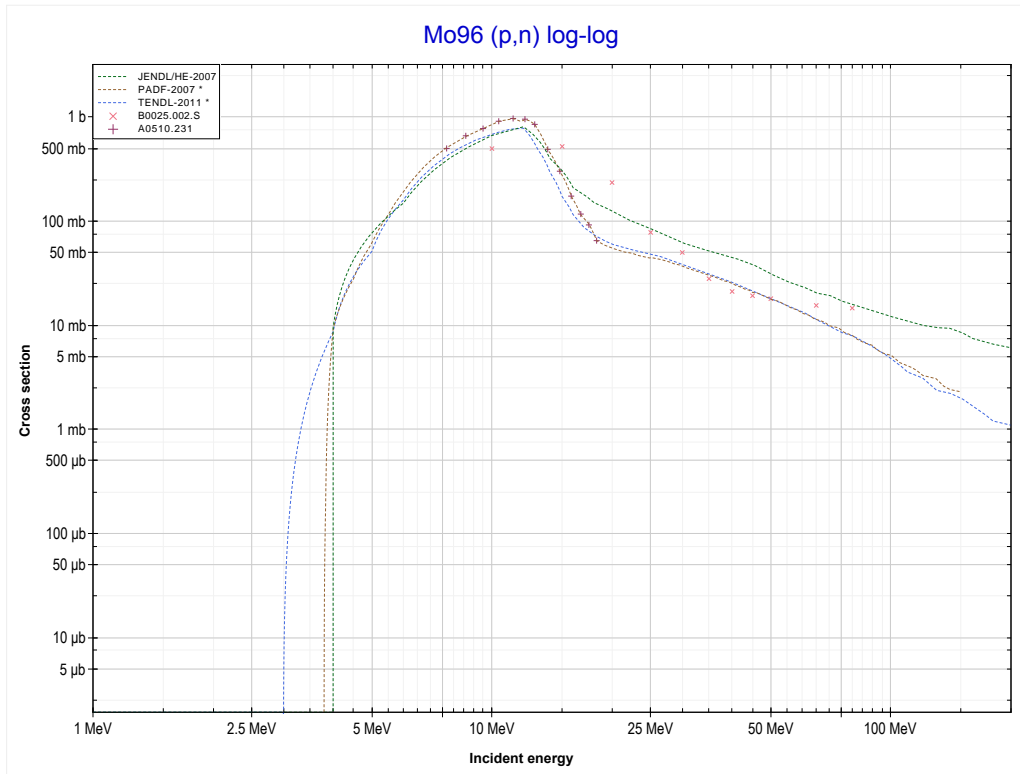
Reaction	Q-Value
Mo95(p,3n)Tc93	-21029.48 keV

<< 42-Mo-92	<b>42-Mo-95</b>	42-Mo-98 >>
<< MT17 (p,3n)	<b>MT107 (p,<math>\alpha</math>) or MT5 (Nb92 production)</b>	MT4 (p,n) >>



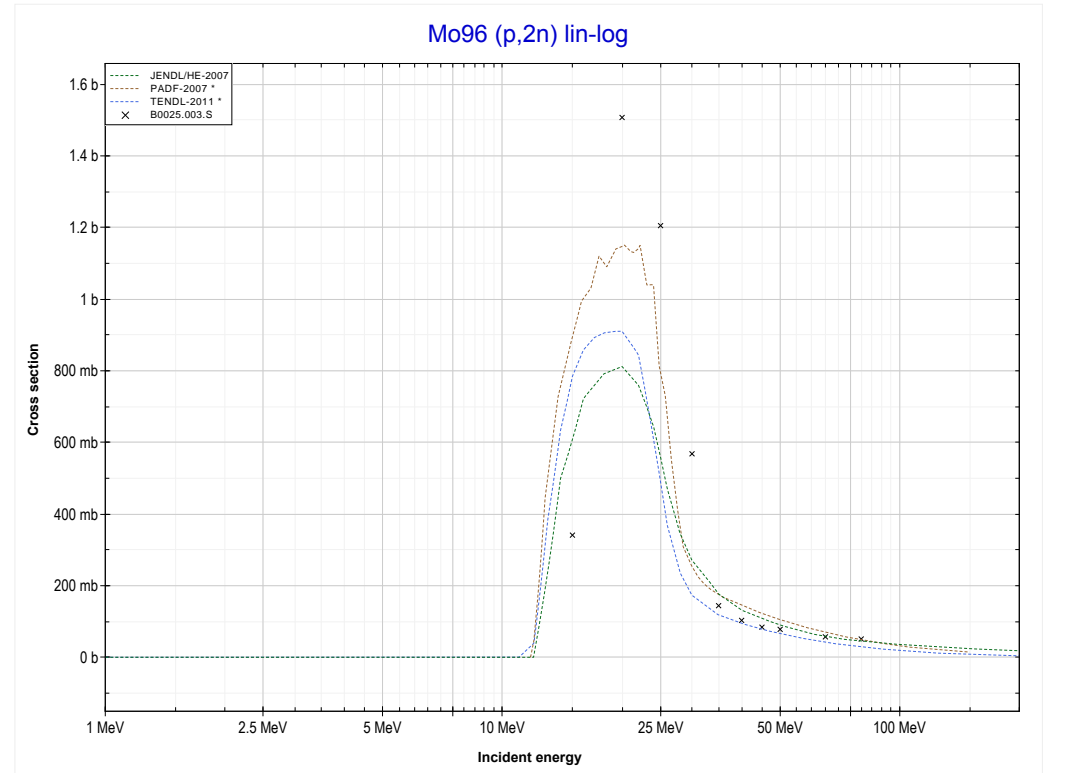
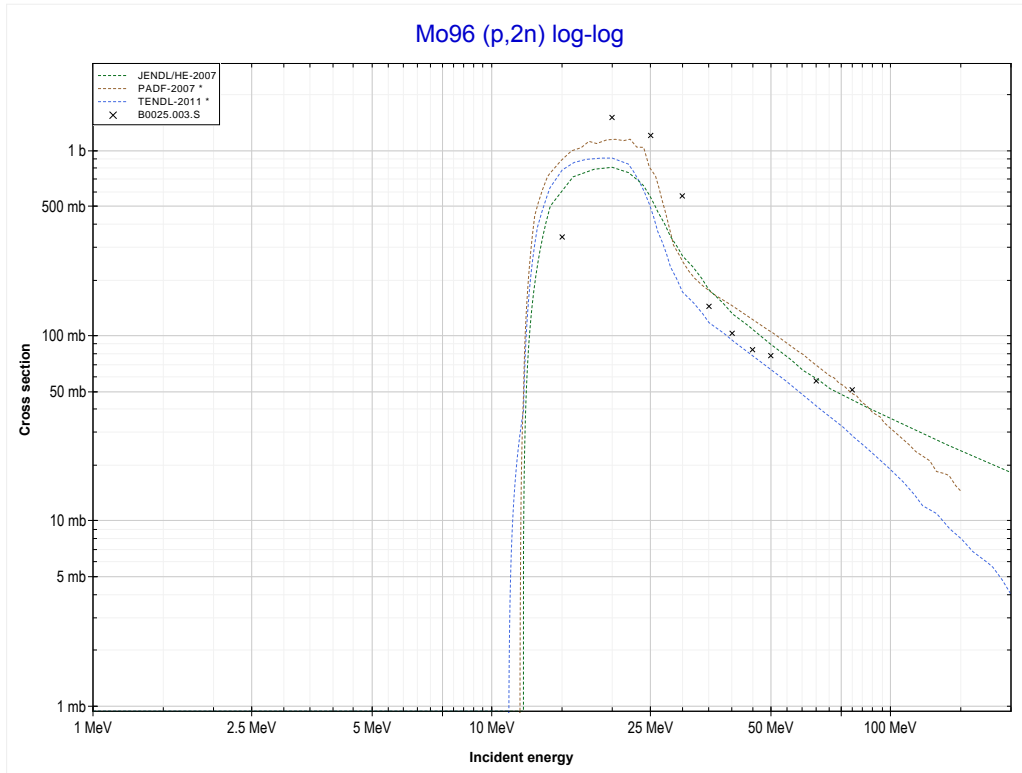
Reaction	Q-Value
Mo95(p, $\alpha$ )Nb92	3604.85 keV
Mo95(p,p+t)Nb92	-16209.01 keV
Mo95(p,n+He3)Nb92	-16972.76 keV
Mo95(p,2d)Nb92	-20241.67 keV
Mo95(p,n+p+d)Nb92	-22466.24 keV
Mo95(p,2n+2p)Nb92	-24690.80 keV

<< 42-Mo-95	<b>42-Mo-96</b>	42-Mo-100 >>
<< MT107 (p, $\alpha$ )	<b>MT4 (p,n) or MT5 (Tc96 production)</b>	MT16 (p,2n) >>



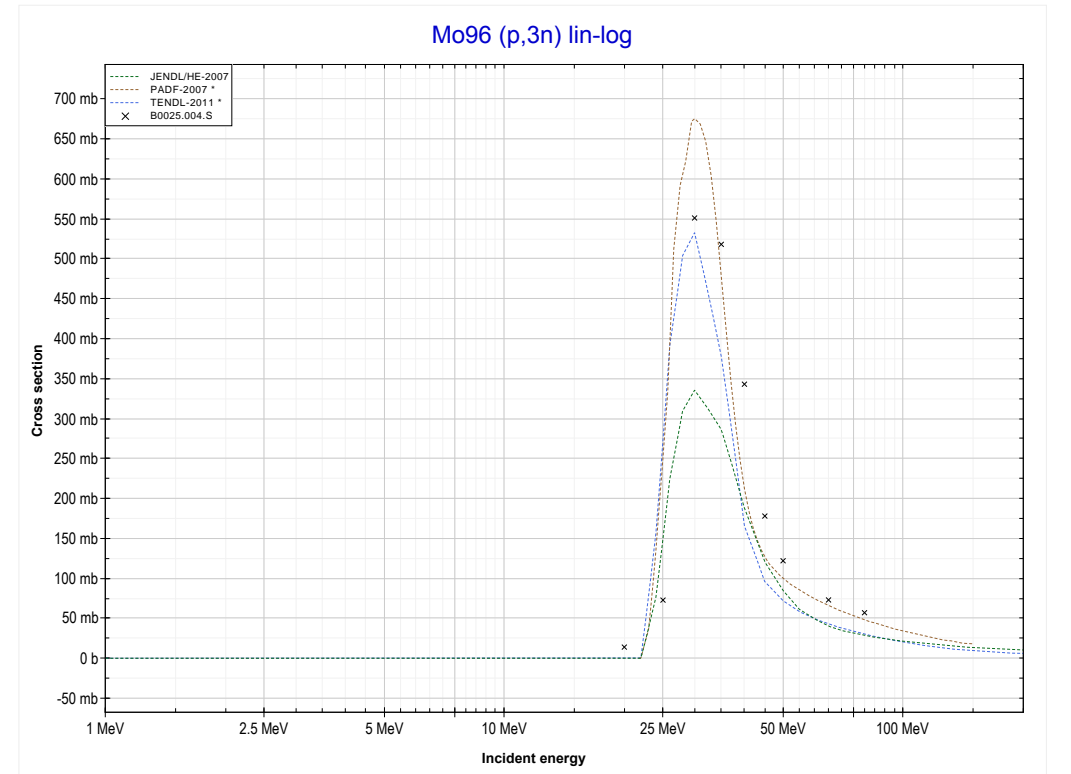
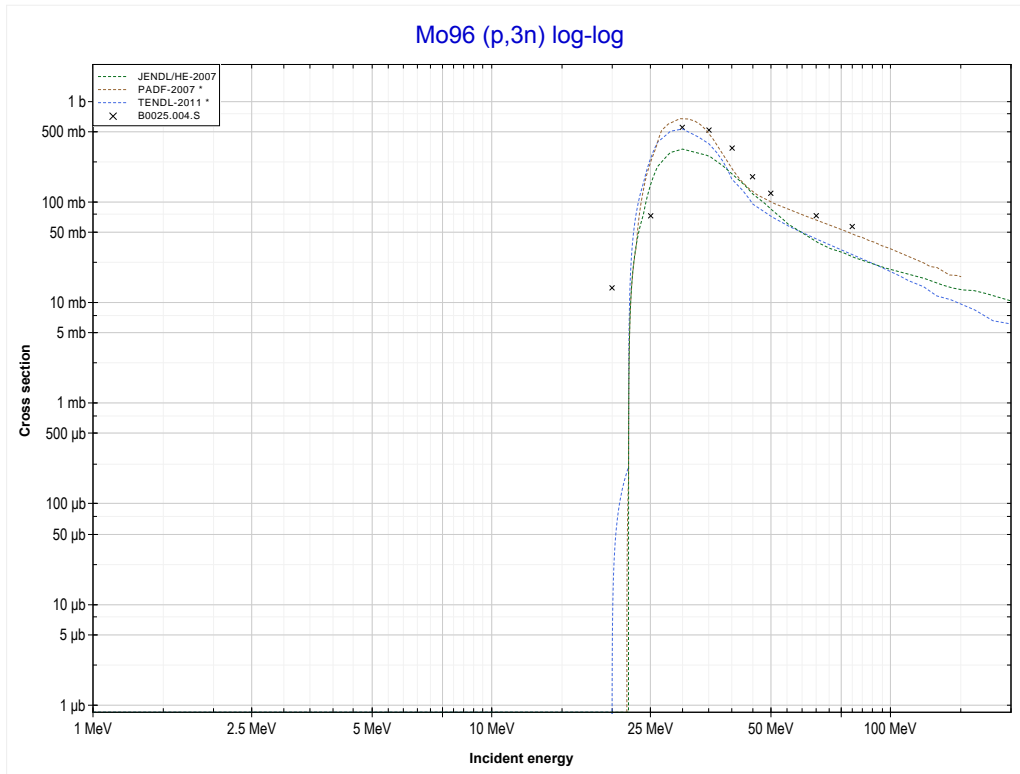
<b>Reaction</b>	<b>Q-Value</b>
Mo96(p,n)Tc96	-3755.85 keV

<< 42-Mo-95	<b>42-Mo-96</b>	42-Mo-97 >>
<< MT4 (p,n)	<b>MT16 (p,2n) or MT5 (Tc95 production)</b>	MT17 (p,3n) >>



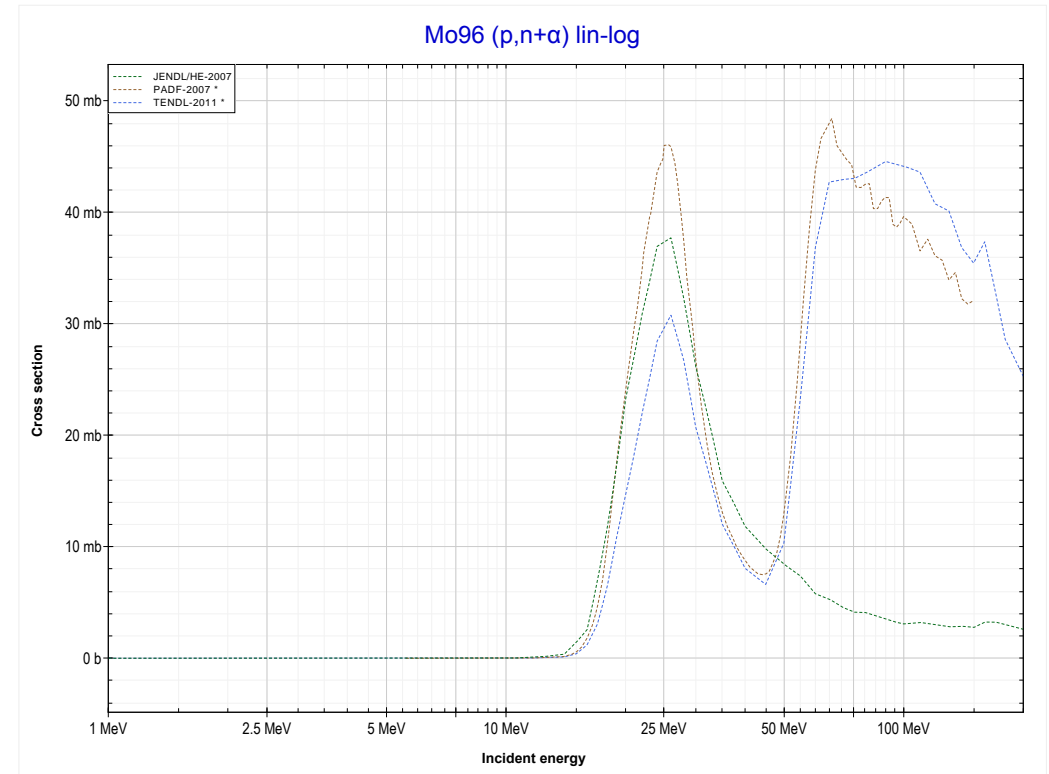
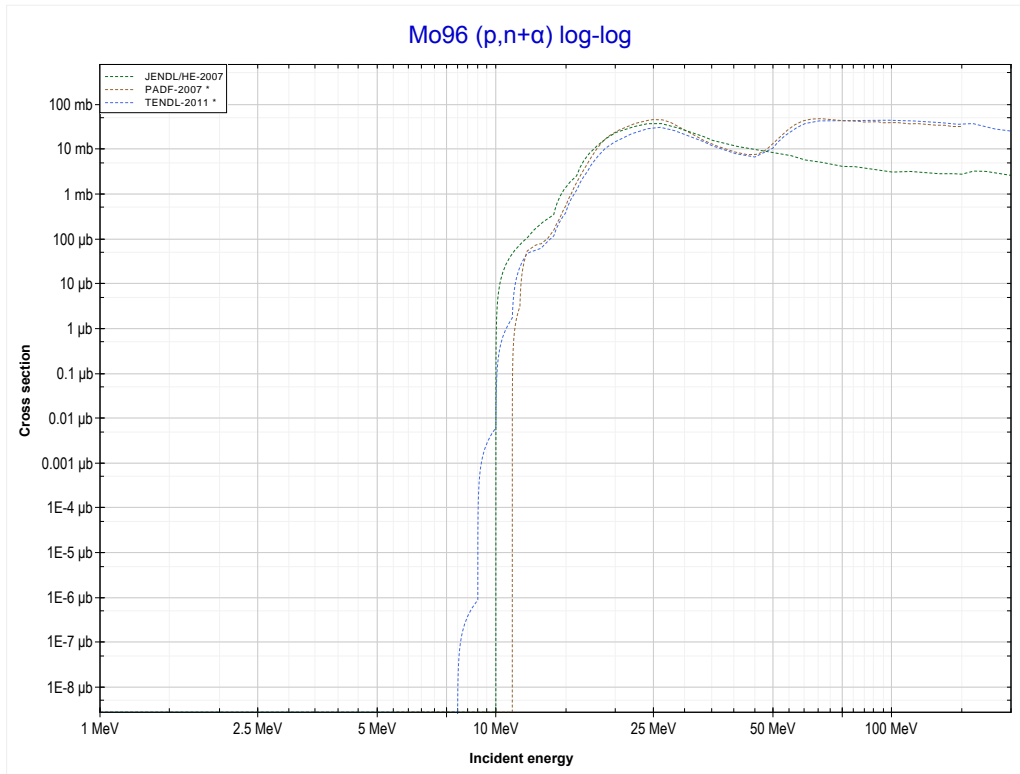
Reaction	Q-Value
Mo96(p,2n)Tc95	-11627.16 keV

<< 42-Mo-95	<b>42-Mo-96</b>	42-Mo-97 >>
<< MT16 (p,2n)	<b>MT17 (p,3n) or MT5 (Tc94 production)</b>	MT22 (p,n+α) >>



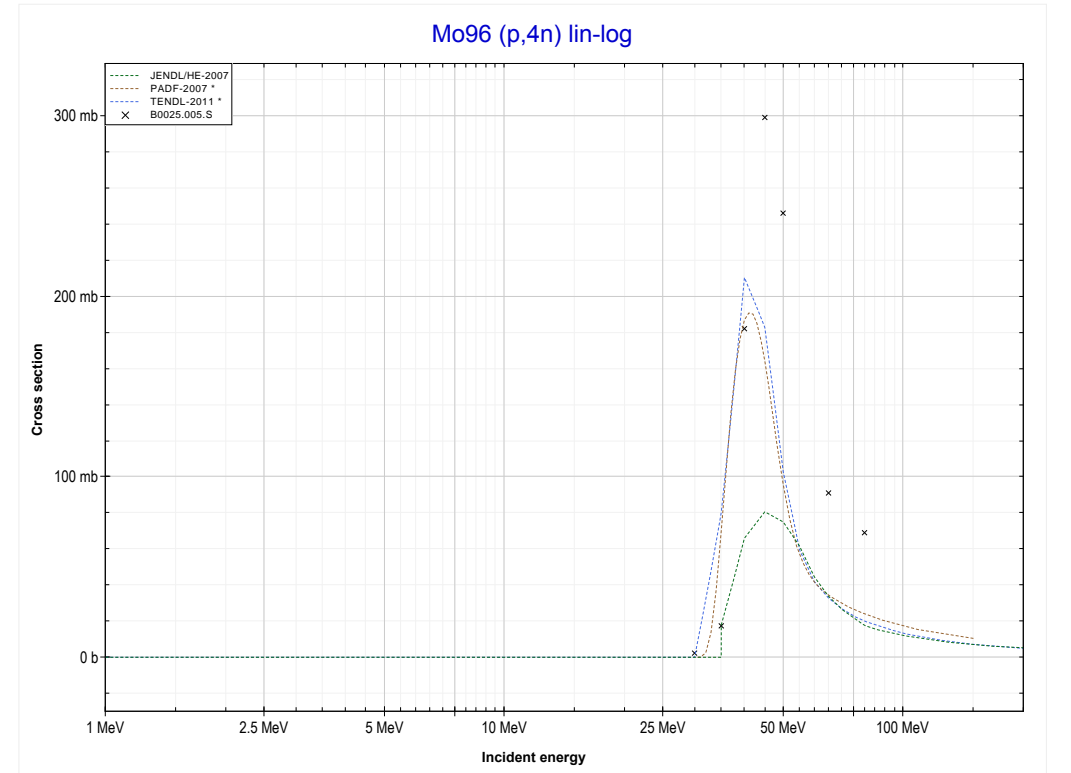
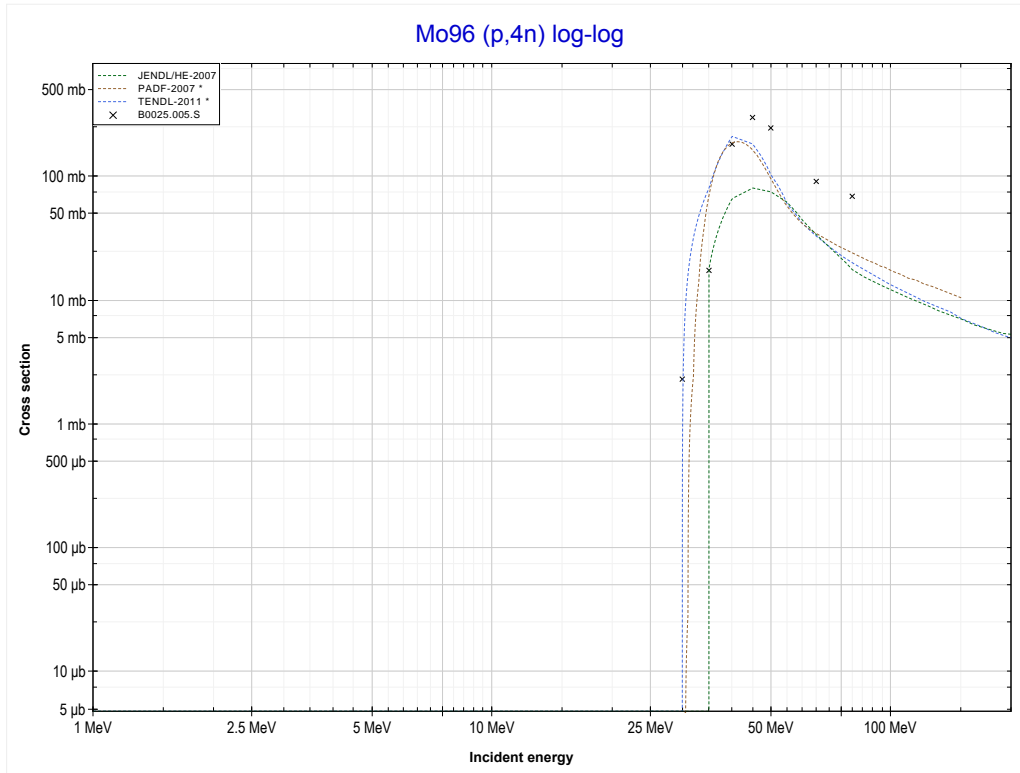
Reaction	Q-Value
Mo96(p,3n)Tc94	-21561.48 keV

<< 42-Mo-94	<b>42-Mo-96</b>	42-Mo-100 >>
<< MT17 (p,3n)	<b>MT22 (p,n+α) or MT5 (Nb92 production)</b>	MT37 (p,4n) >>



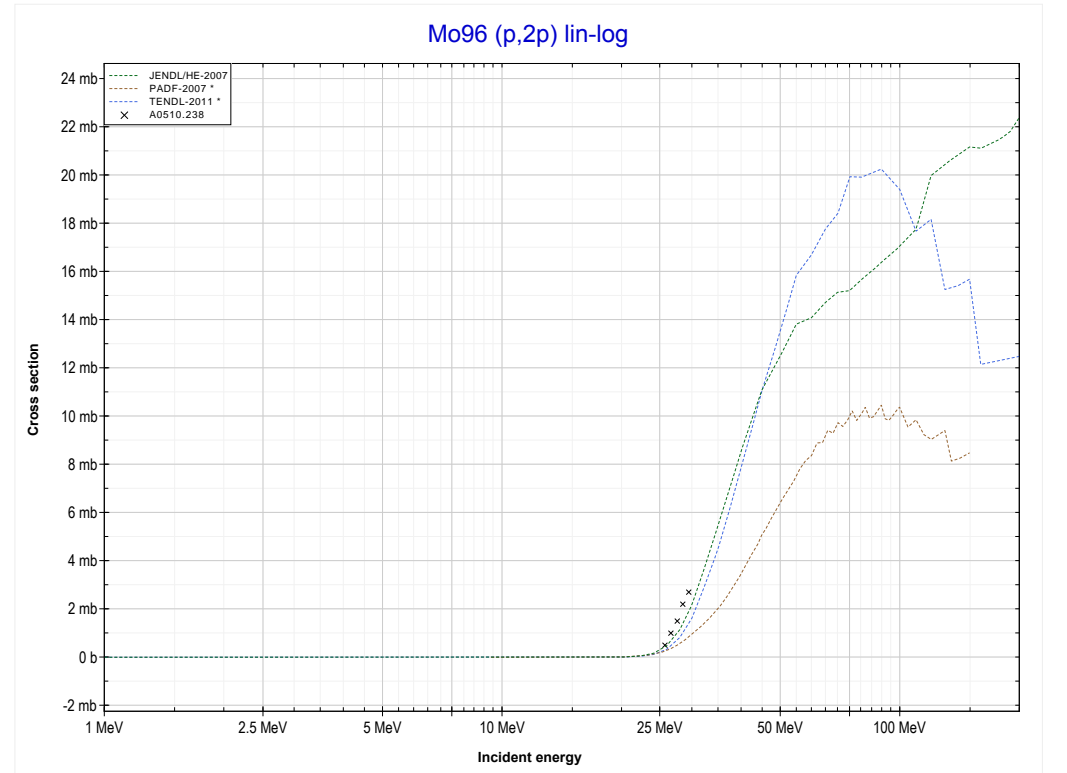
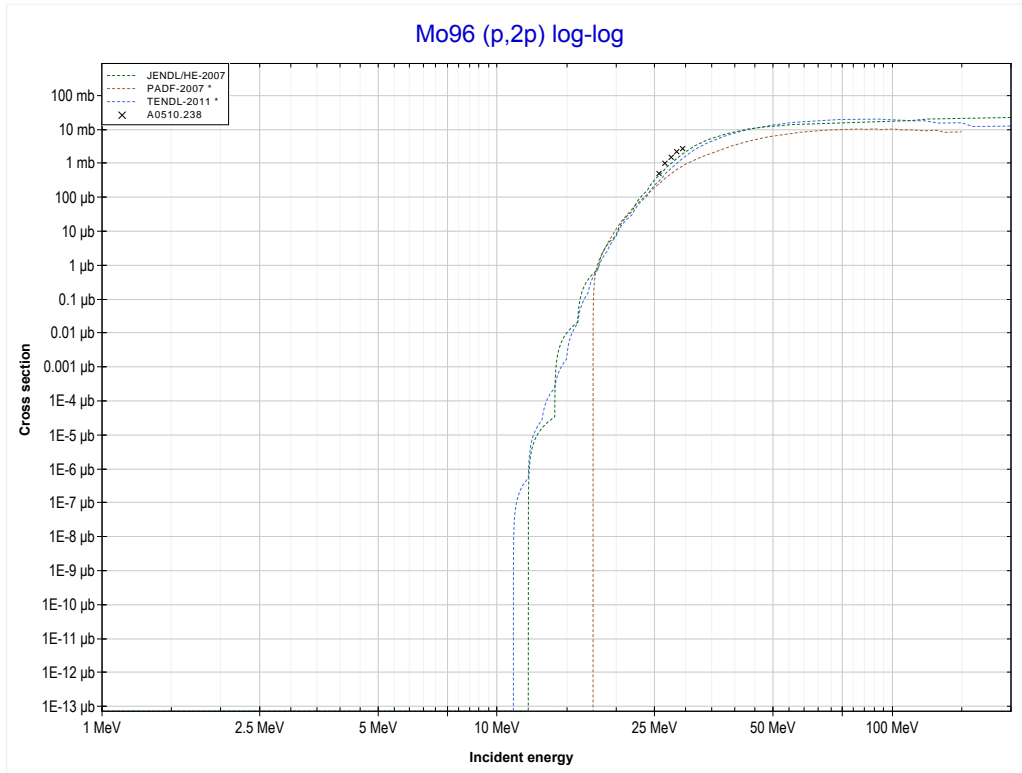
Reaction	Q-Value
Mo96(p,n+α)Nb92	-5549.46 keV
Mo96(p,d+t)Nb92	-23138.76 keV
Mo96(p,n+p+t)Nb92	-25363.32 keV
Mo96(p,2n+He3)Nb92	-26127.08 keV
Mo96(p,n+2d)Nb92	-29395.99 keV
Mo96(p,2n+p+d)Nb92	-31620.56 keV
Mo96(p,3n+2p)Nb92	-33845.12 keV

<< 41-Nb-93	<b>42-Mo-96</b>	45-Rh-103 >>
<< MT22 (p,n+α)	<b>MT37 (p,4n) or MT5 (Tc93 production)</b>	MT111 (p,2p) >>



Reaction	Q-Value
Mo96(p,4n)Tc93	-30183.80 keV

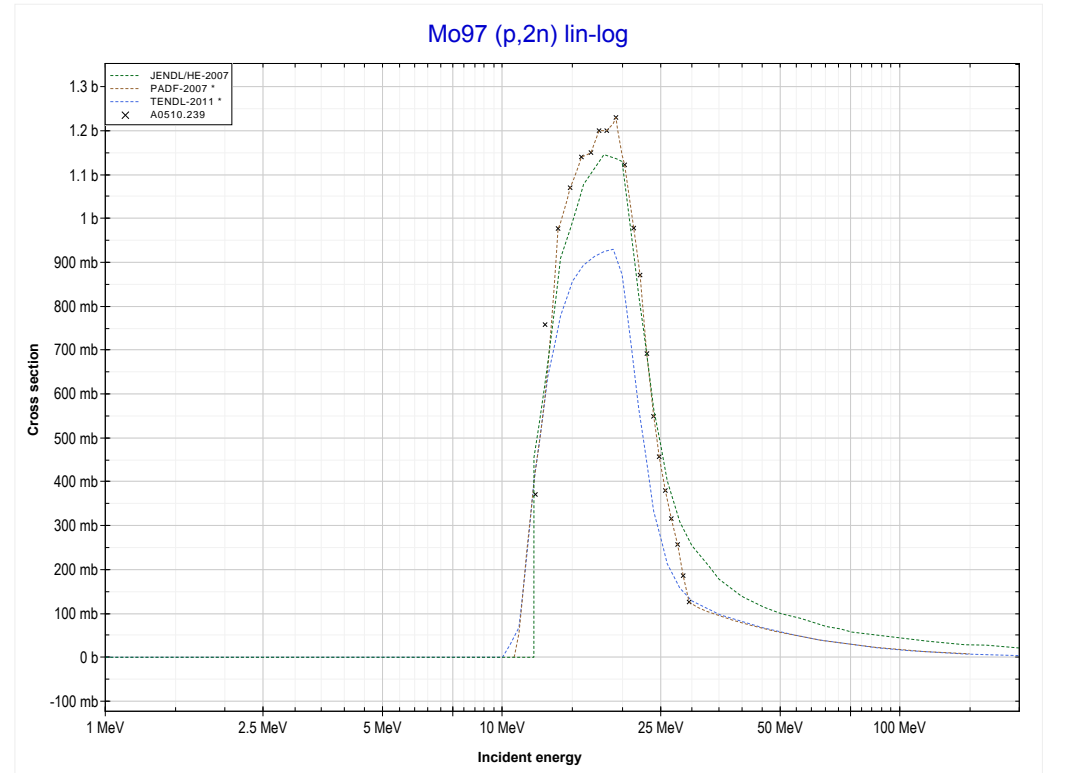
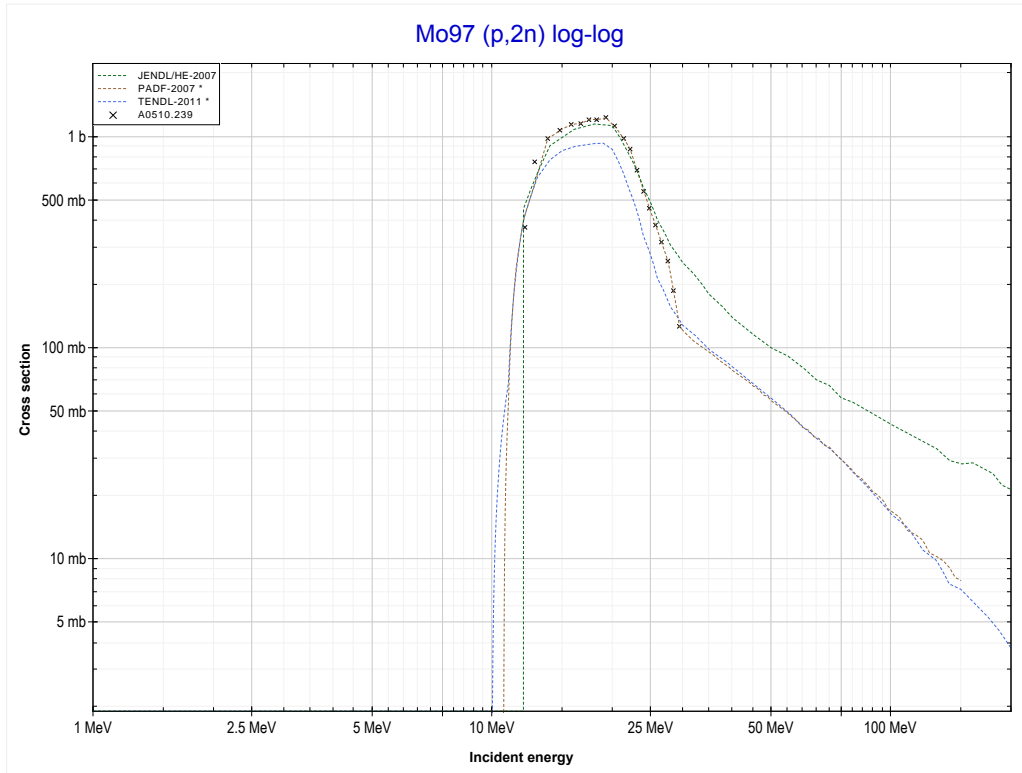
<< 40-Zr-96	<b>42-Mo-96</b>	42-Mo-97 >>
<< MT37 (p,4n)	<b>MT111 (p,2p) or MT5 (Nb95 production)</b>	MT16 (p,2n) >>



Reaction	Q-Value
Mo96(p,2p)Nb95	-9297.57 keV

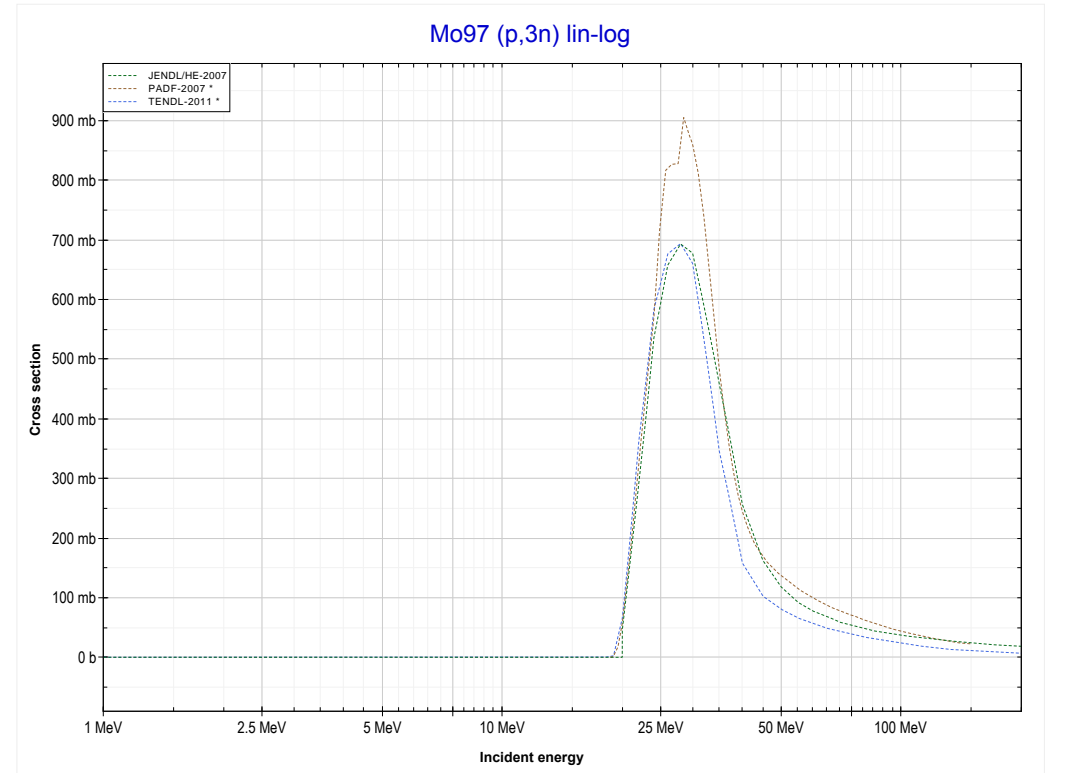
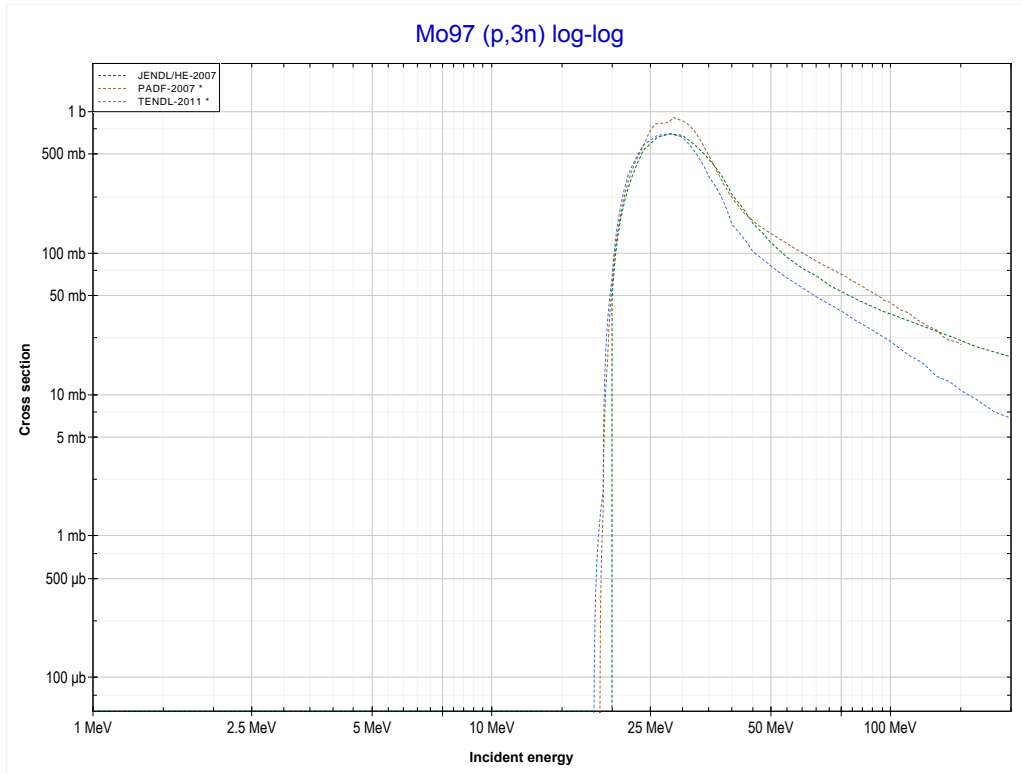


<< 42-Mo-96	<b>42-Mo-97</b>	42-Mo-100 >>
<< MT111 (p,2p)	<b>MT16 (p,2n) or MT5 (Tc96 production)</b>	MT17 (p,3n) >>



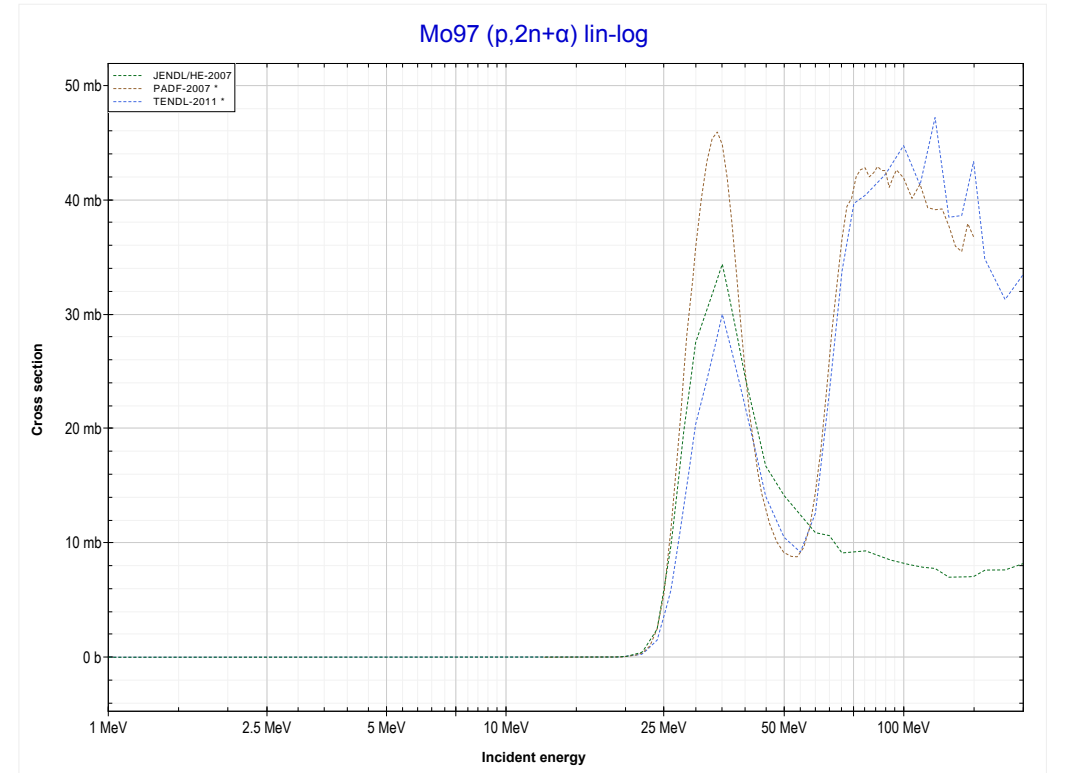
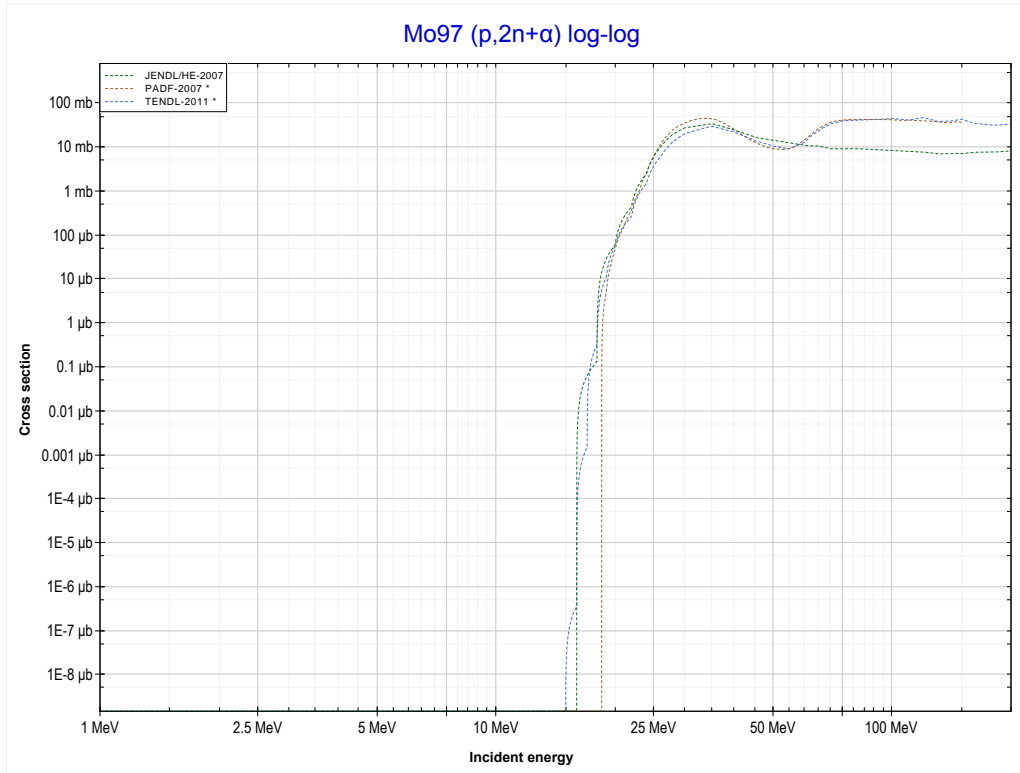
Reaction	Q-Value
Mo97(p,2n)Tc96	-10577.06 keV

<< 42-Mo-96	<b>42-Mo-97</b>	42-Mo-98 >>
<< MT16 (p,2n)	<b>MT17 (p,3n) or MT5 (Tc95 production)</b>	MT24 (p,2n+α) >>



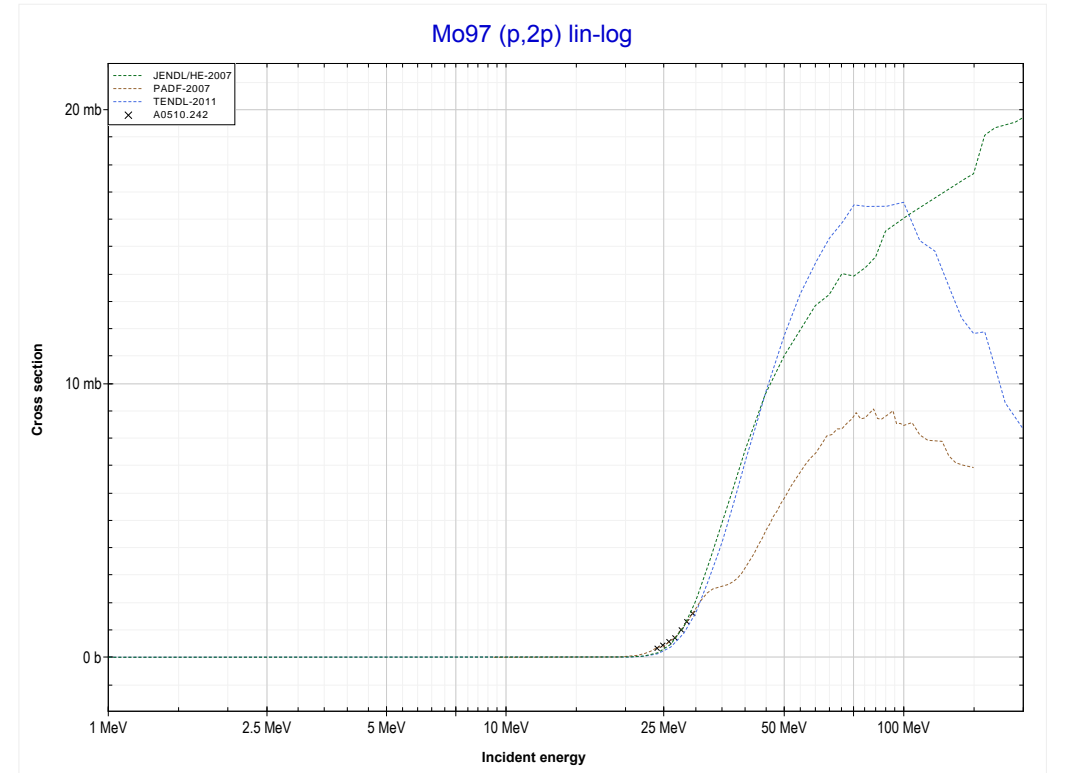
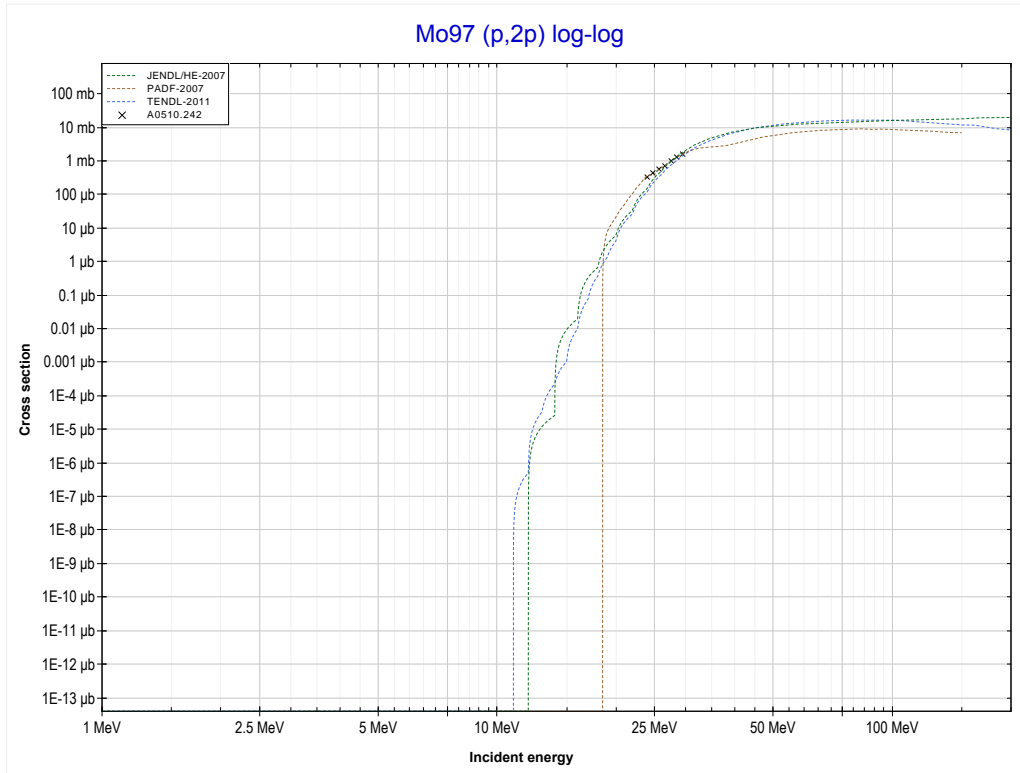
Reaction	Q-Value
Mo97(p,3n)Tc95	-18448.38 keV

<< 34-Se-76	<b>42-Mo-97</b>	42-Mo-100 >>
<< MT17 (p,3n)	<b>MT24 (p,2n+α) or MT5 (Nb92 production)</b>	MT111 (p,2p) >>



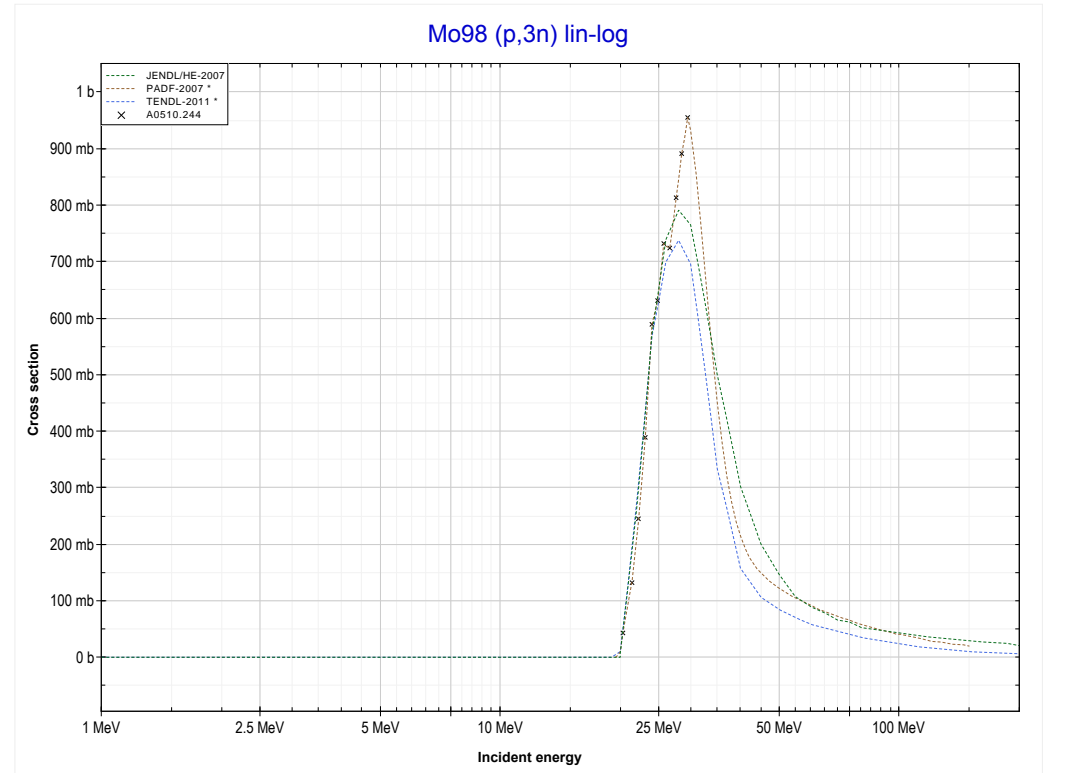
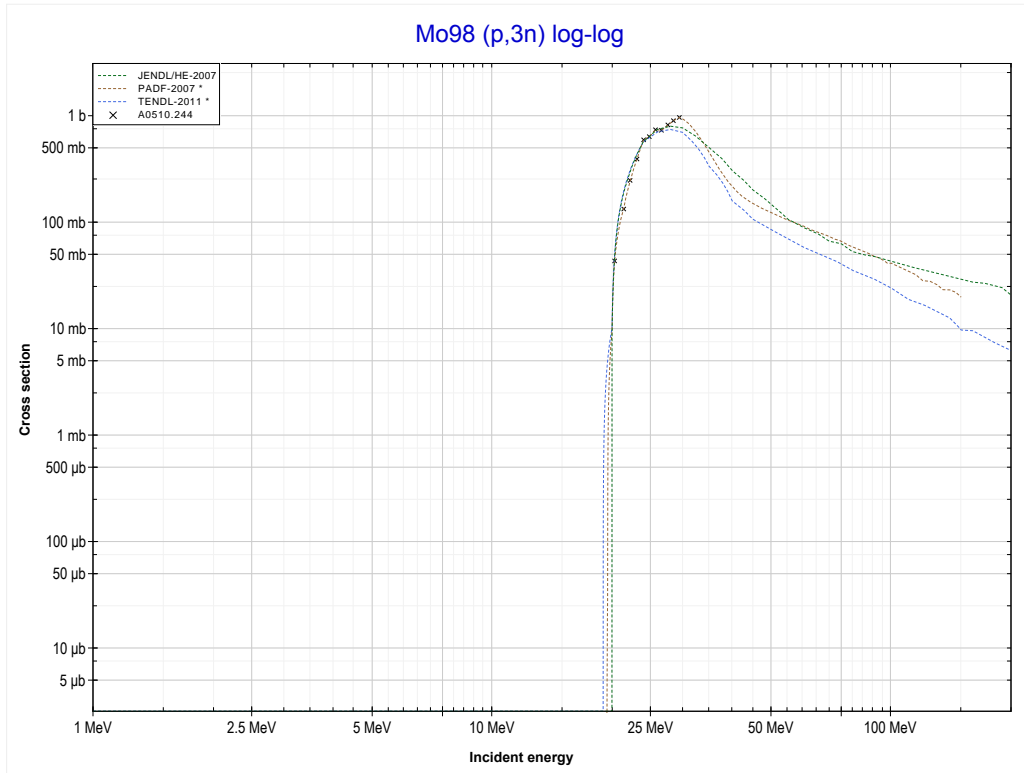
Reaction	Q-Value
Mo97(p,2n+α)Nb92	-12370.68 keV
Mo97(p,2t)Nb92	-23702.74 keV
Mo97(p,n+d+t)Nb92	-29959.97 keV
Mo97(p,2n+p+t)Nb92	-32184.54 keV
Mo97(p,3n+He3)Nb92	-32948.30 keV
Mo97(p,2n+2d)Nb92	-36217.21 keV
Mo97(p,3n+p+d)Nb92	-38441.77 keV
Mo97(p,4n+2p)Nb92	-40666.34 keV

<< 42-Mo-96	<b>42-Mo-97</b>	42-Mo-98 >>
<< MT24 (p,2n+α)	<b>MT111 (p,2p) or MT5 (Nb96 production)</b>	MT17 (p,3n) >>



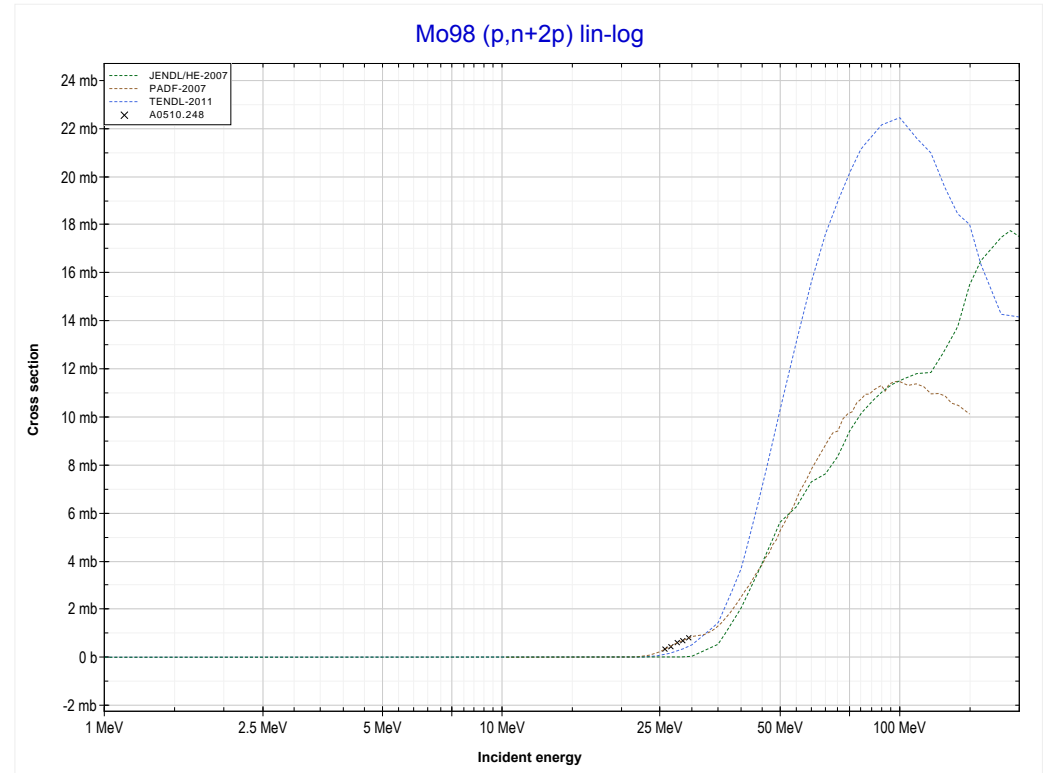
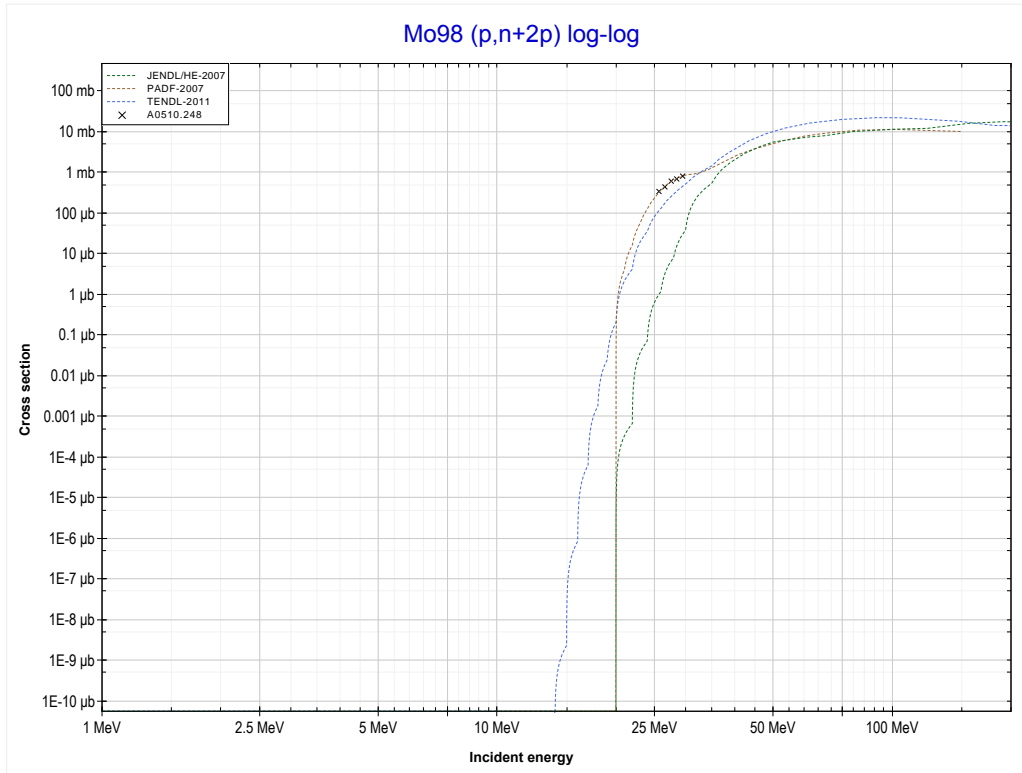
Reaction	Q-Value
Mo97(p,2p)Nb96	-9225.37 keV

<< 42-Mo-97	<b>42-Mo-98</b>	43-Tc-99 >>
<< MT111 (p,2p)	<b>MT17 (p,3n) or MT5 (Tc96 production)</b>	MT44 (p,n+2p) >>



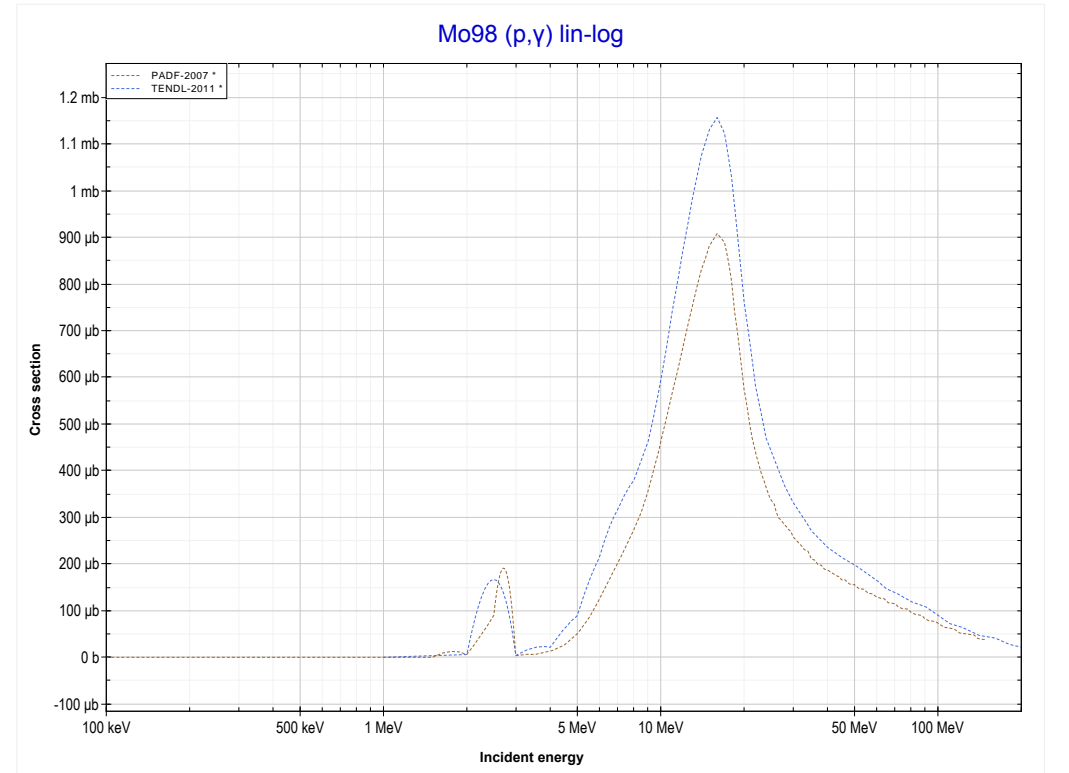
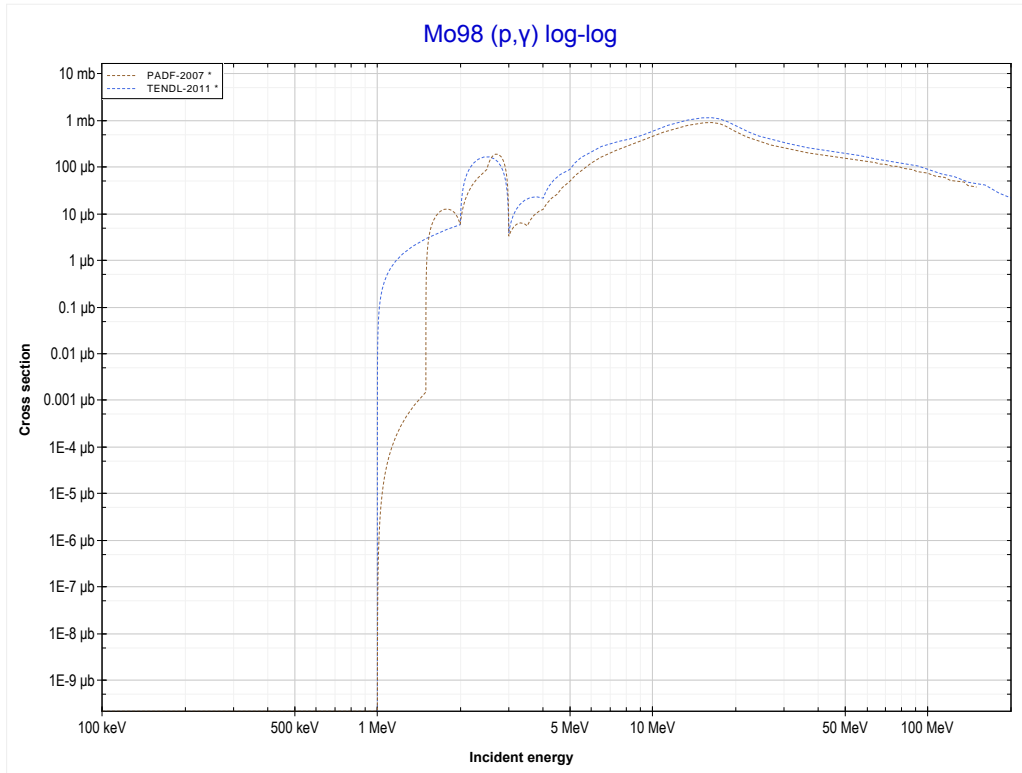
Reaction	Q-Value
Mo98(p,3n)Tc96	-19219.68 keV

<< 42-Mo-92	<b>42-Mo-98</b>	
<< MT17 (p,3n)	<b>MT44 (p,n+2p) or MT5 (Nb96 production)</b>	MT102 (p, $\gamma$ ) >>



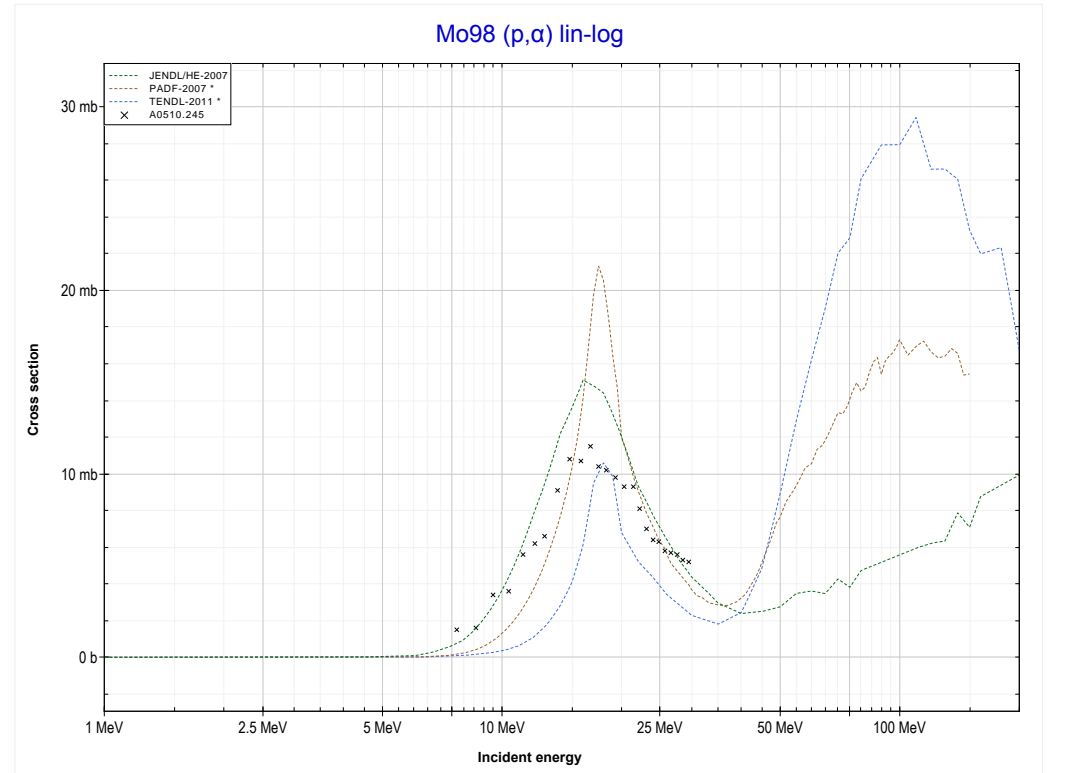
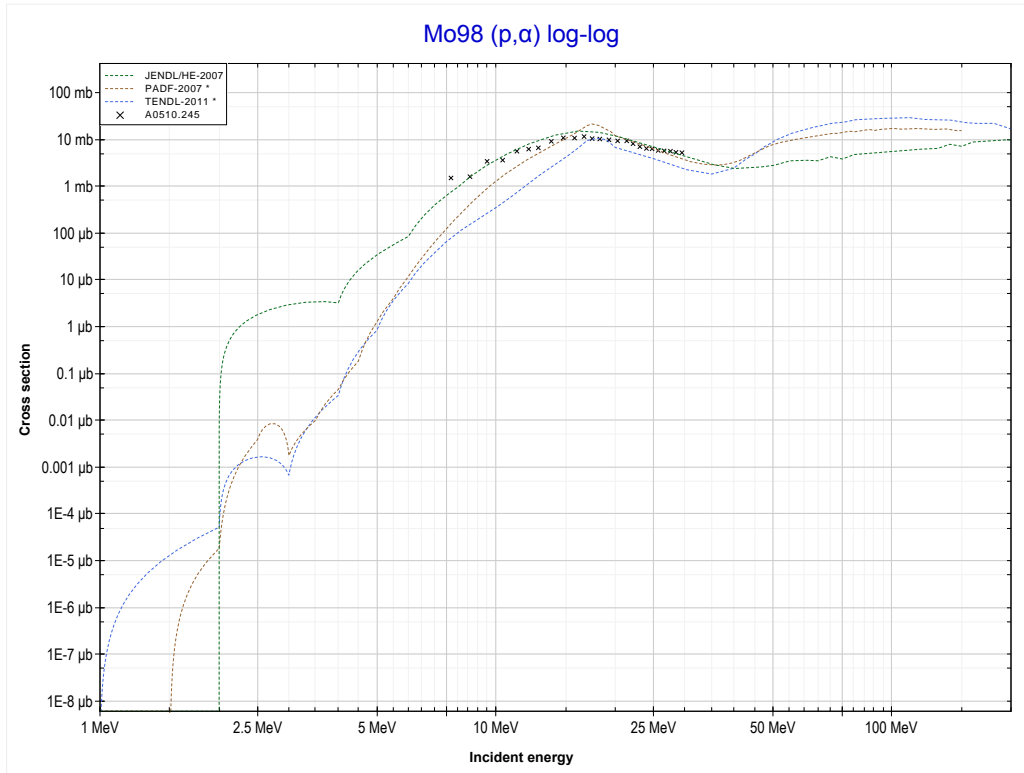
Reaction	Q-Value
Mo98(p,He3)Nb96	-10149.94 keV
Mo98(p,p+d)Nb96	-15643.42 keV
Mo98(p,n+2p)Nb96	-17867.99 keV

<< 42-Mo-94	<b>42-Mo-98</b>	42-Mo-100 >>
<< MT44 (p,n+2p)	<b>MT102 (p,<math>\gamma</math>) or MT5 (Tc99 production)</b>	MT107 (p, $\alpha$ ) >>



Reaction	Q-Value
Mo98(p, $\gamma$ )Tc99	6500.37 keV

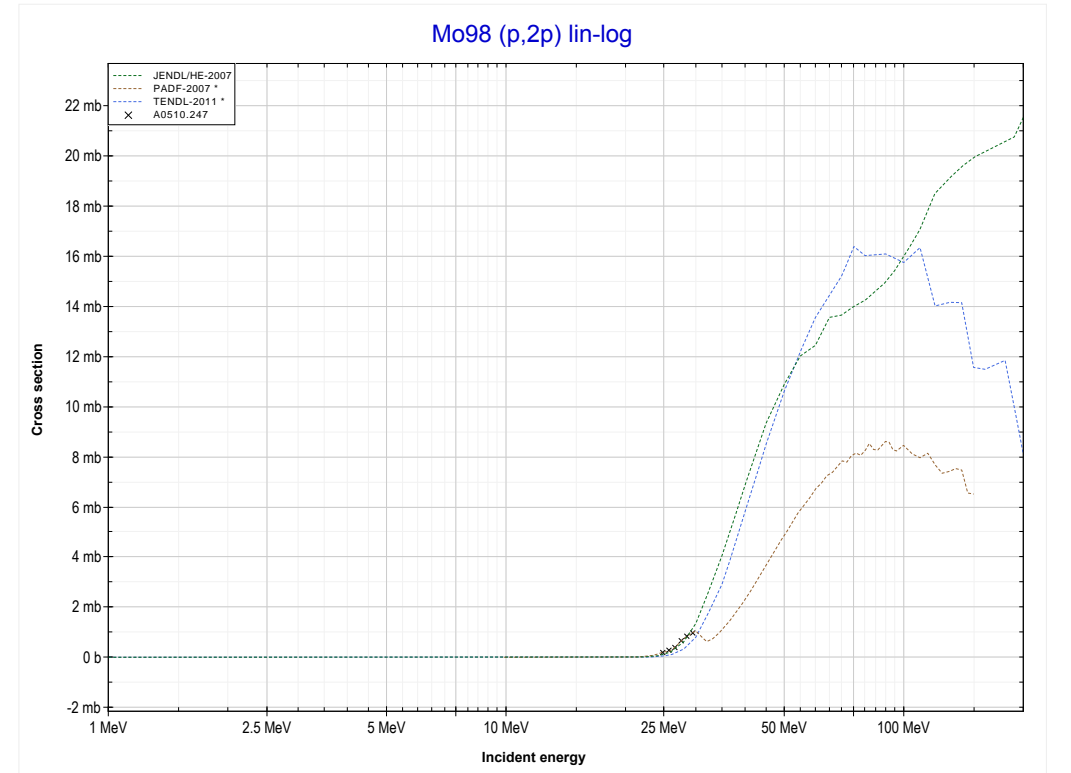
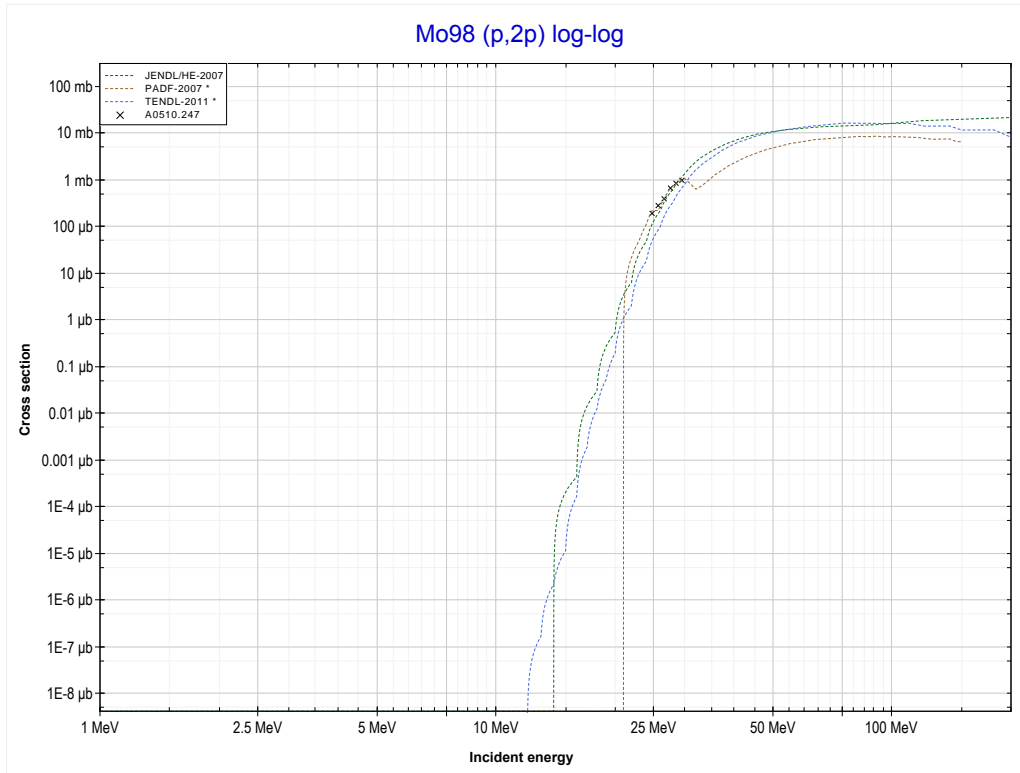
<< 42-Mo-95	<b>42-Mo-98</b>	42-Mo-100 >>
<< MT102 (p, $\gamma$ )	<b>MT107 (p,<math>\alpha</math>) or MT5 (Nb95 production)</b>	MT111 (p,2p) >>



Reaction	Q-Value
Mo98(p, $\alpha$ )Nb95	3534.25 keV
Mo98(p,p+t)Nb95	-16279.61 keV
Mo98(p,n+He3)Nb95	-17043.36 keV
Mo98(p,2d)Nb95	-20312.27 keV
Mo98(p,n+p+d)Nb95	-22536.84 keV
Mo98(p,2n+2p)Nb95	-24761.40 keV

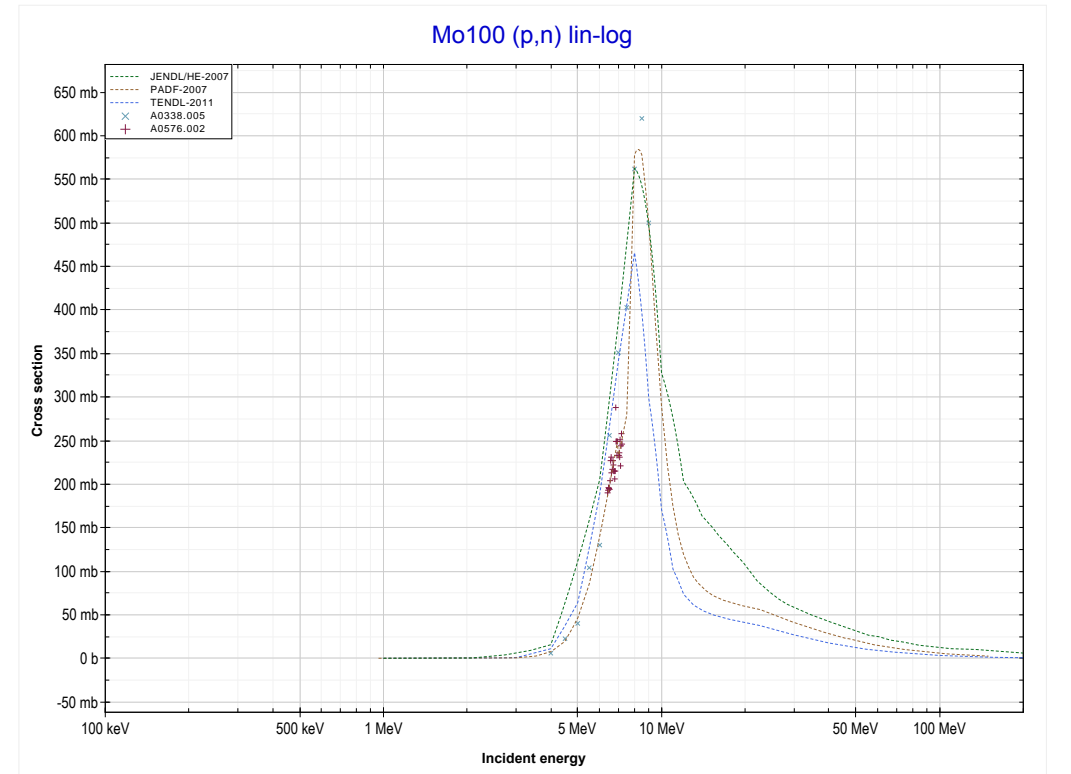
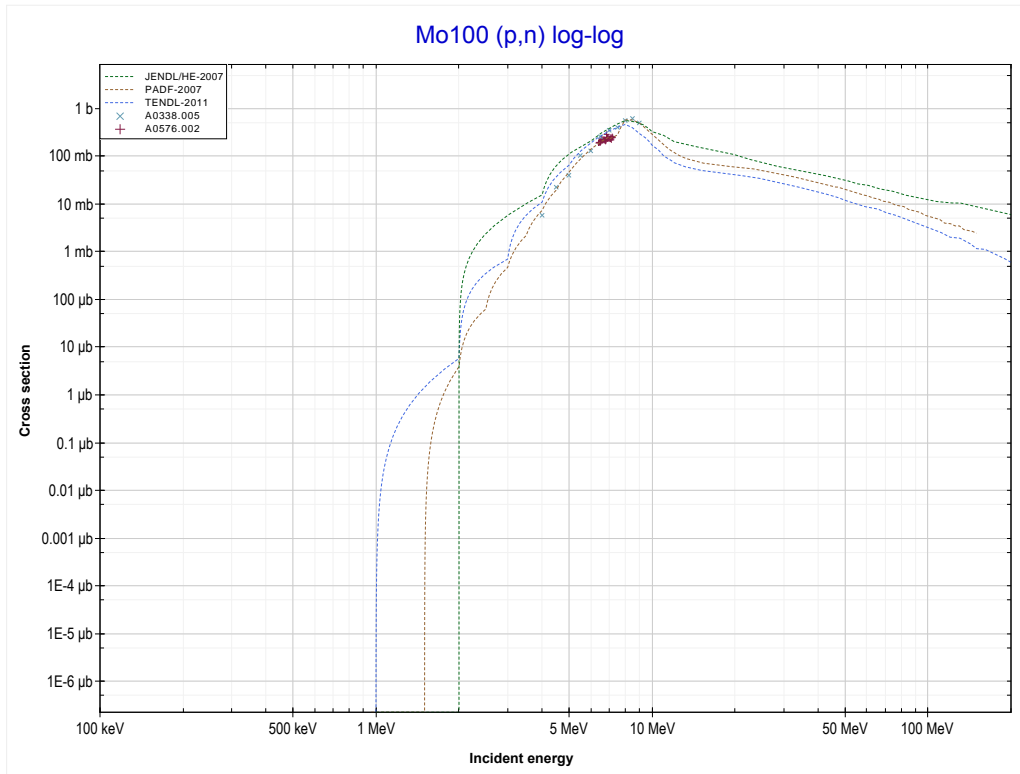


<< 42-Mo-97	<b>42-Mo-98</b>	48-Cd-106 >>
<< MT107 (p, $\alpha$ )	<b>MT111 (p,2p) or MT5 (Nb97 production)</b>	MT4 (p,n) >>



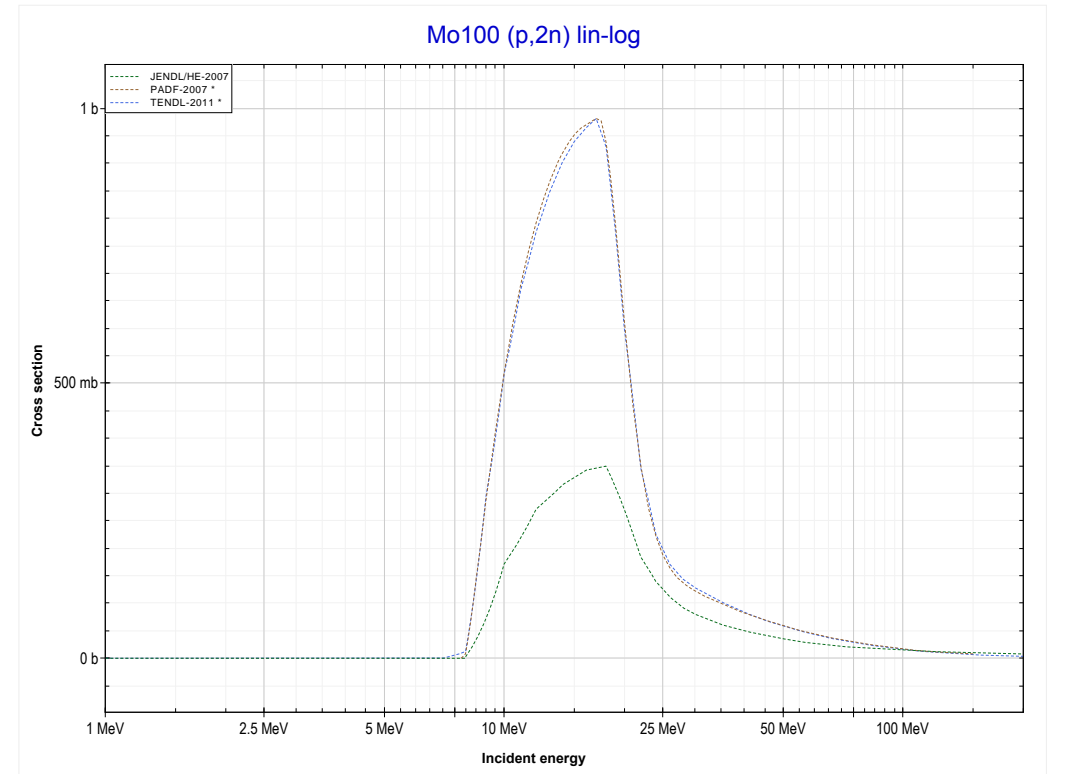
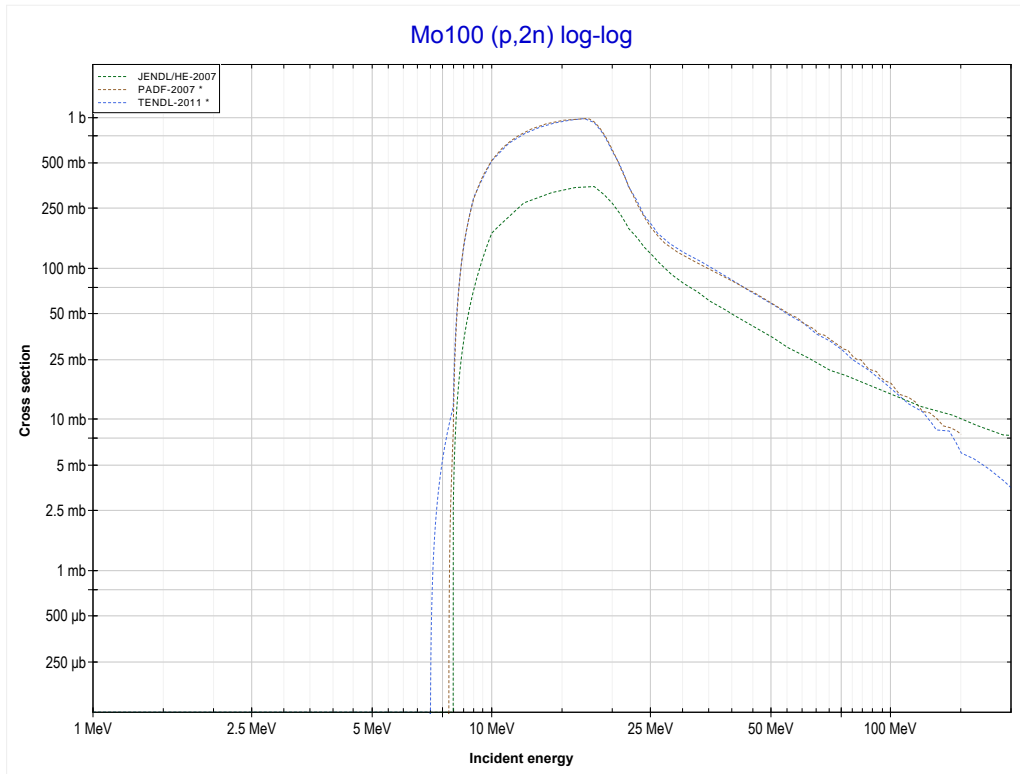
Reaction	Q-Value
Mo98(p,2p)Nb97	-9795.07 keV

<< 42-Mo-96	<b>42-Mo-100</b>	44-Ru-99 >>
<< MT111 (p,2p)	<b>MT4 (p,n) or MT5 (Tc100 production)</b>	MT16 (p,2n) >>



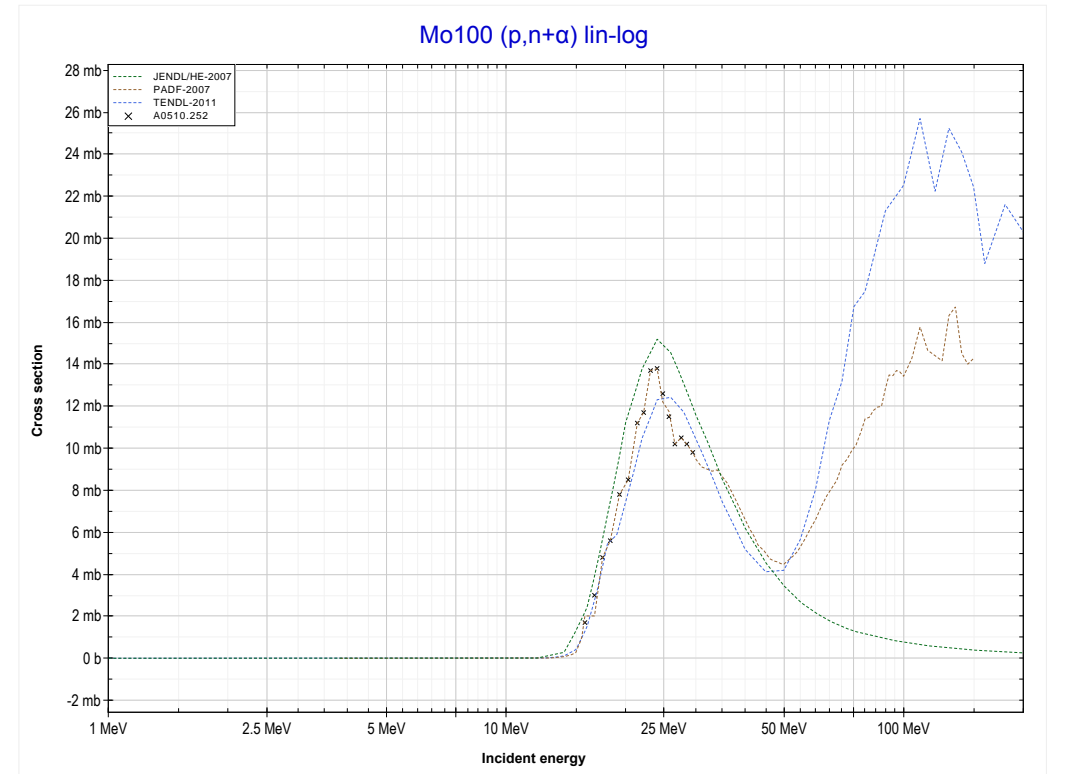
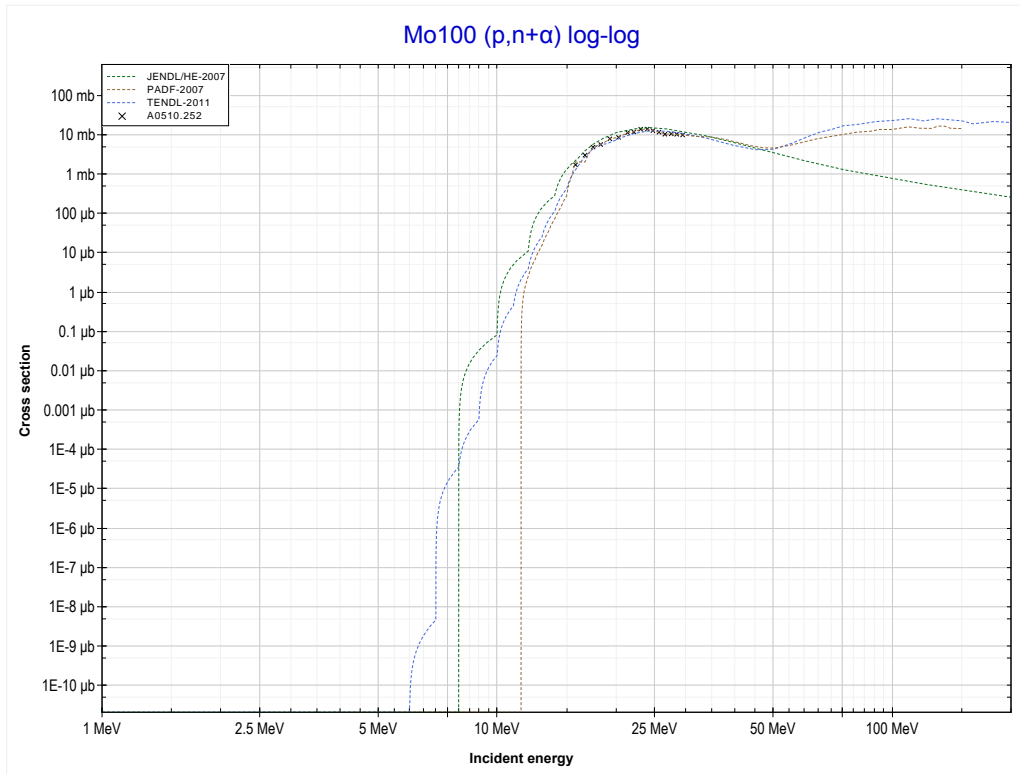
Reaction	Q-Value
Mo100(p,n)Tc100	-950.15 keV

<< 42-Mo-97	<b>42-Mo-100</b>	48-Cd-108 >>
<< MT4 (p,n)	<b>MT16 (p,2n) or MT5 (Tc99 production)</b>	MT22 (p,n+α) >>



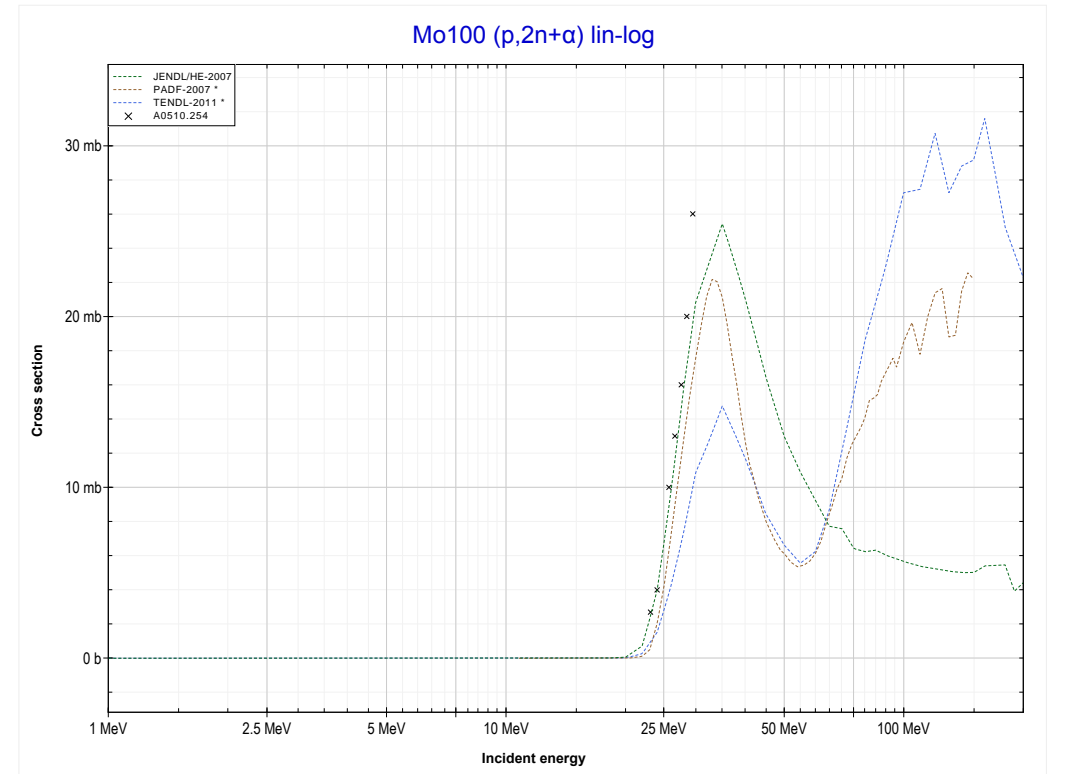
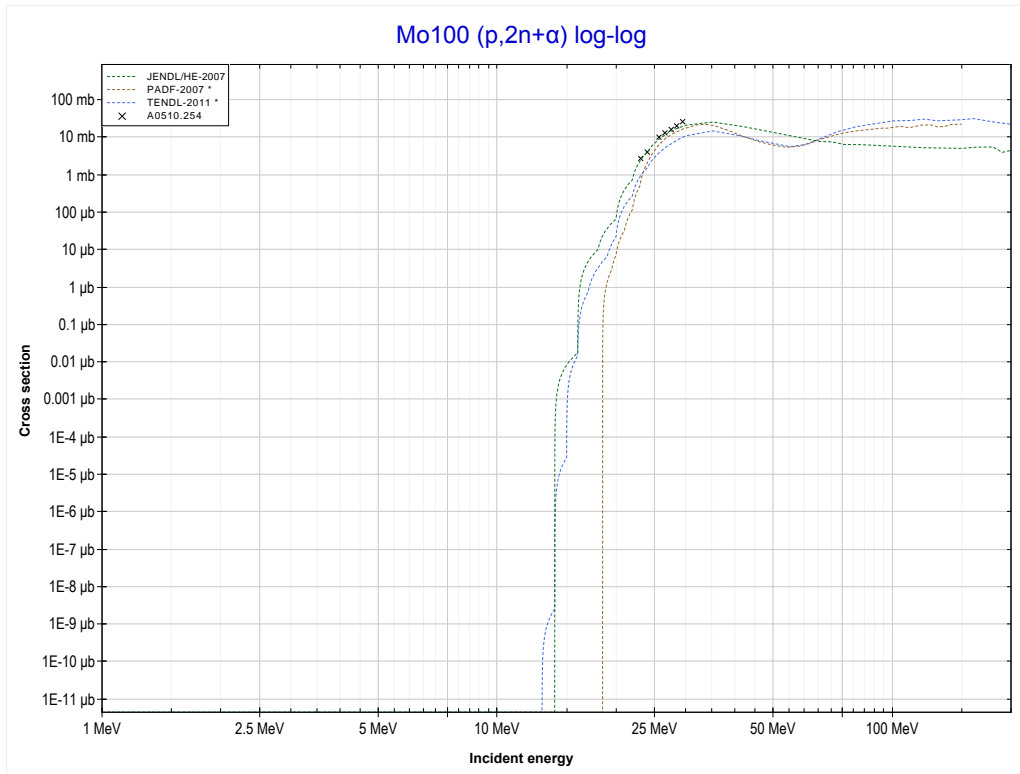
Reaction	Q-Value
Mo100(p,2n)Tc99	-7714.56 keV

<< 42-Mo-96	<b>42-Mo-100</b>	48-Cd-114 >>
<< MT16 (p,2n)	<b>MT22 (p,n+α) or MT5 (Nb96 production)</b>	MT24 (p,2n+α) >>



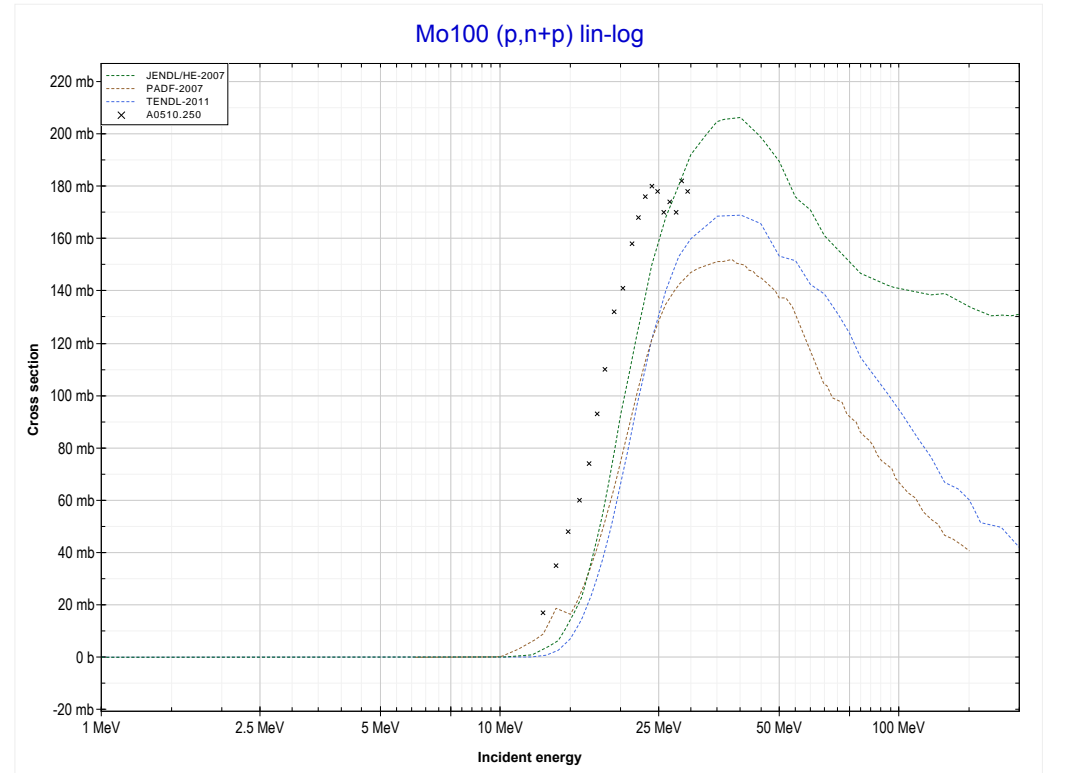
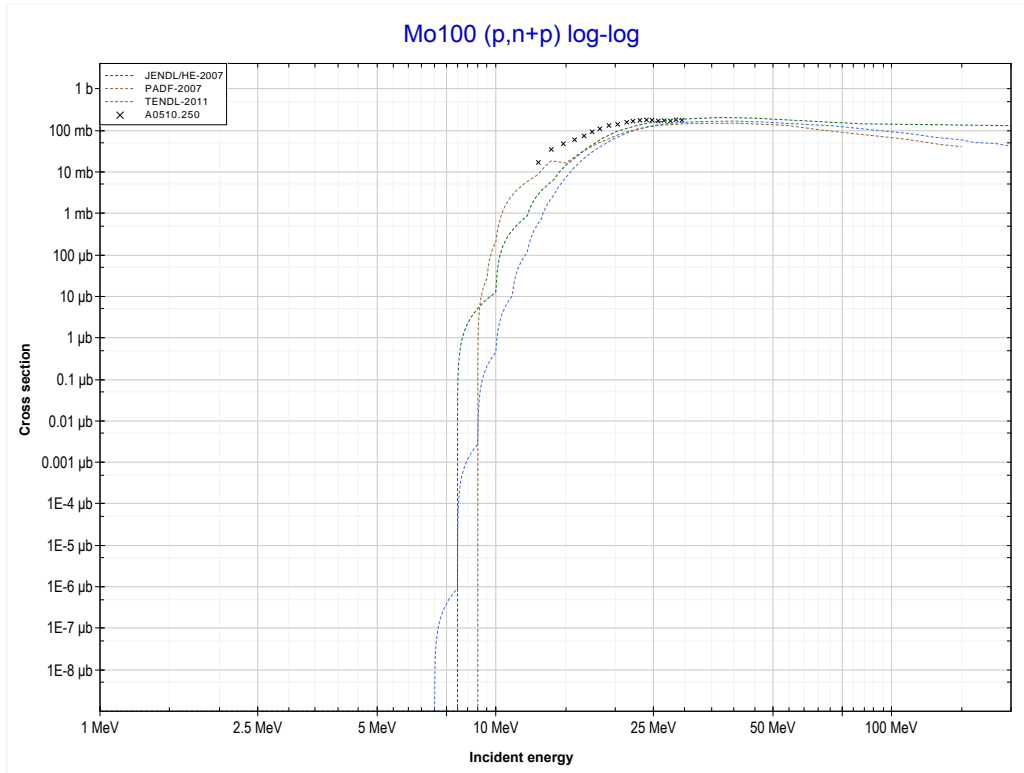
Reaction	Q-Value
Mo100(p,n+α)Nb96	-3787.26 keV
Mo100(p,d+t)Nb96	-21376.56 keV
Mo100(p,n+p+t)Nb96	-23601.12 keV
Mo100(p,2n+He3)Nb96	-24364.88 keV
Mo100(p,n+2d)Nb96	-27633.79 keV
Mo100(p,2n+p+d)Nb96	-29858.36 keV
Mo100(p,3n+2p)Nb96	-32082.92 keV

<< 42-Mo-97	<b>42-Mo-100</b>	54-Xe-124 >>
<< MT22 (p,n+α)	<b>MT24 (p,2n+α) or MT5 (Nb95 production)</b>	MT28 (p,n+p) >>



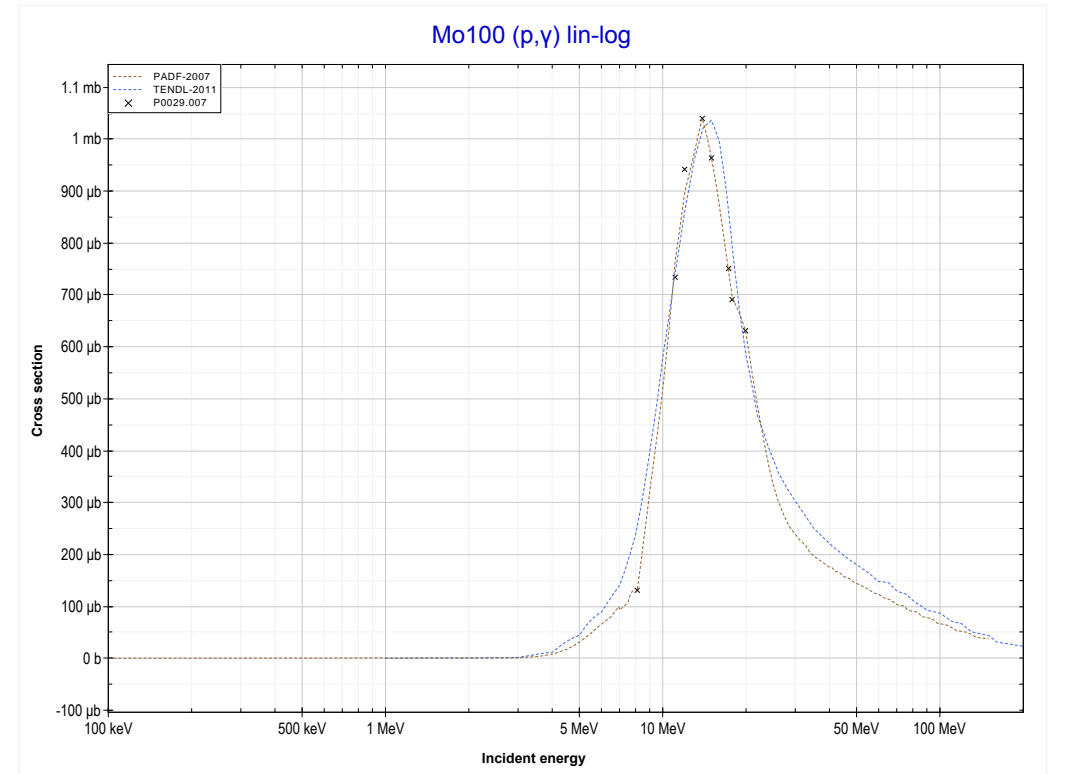
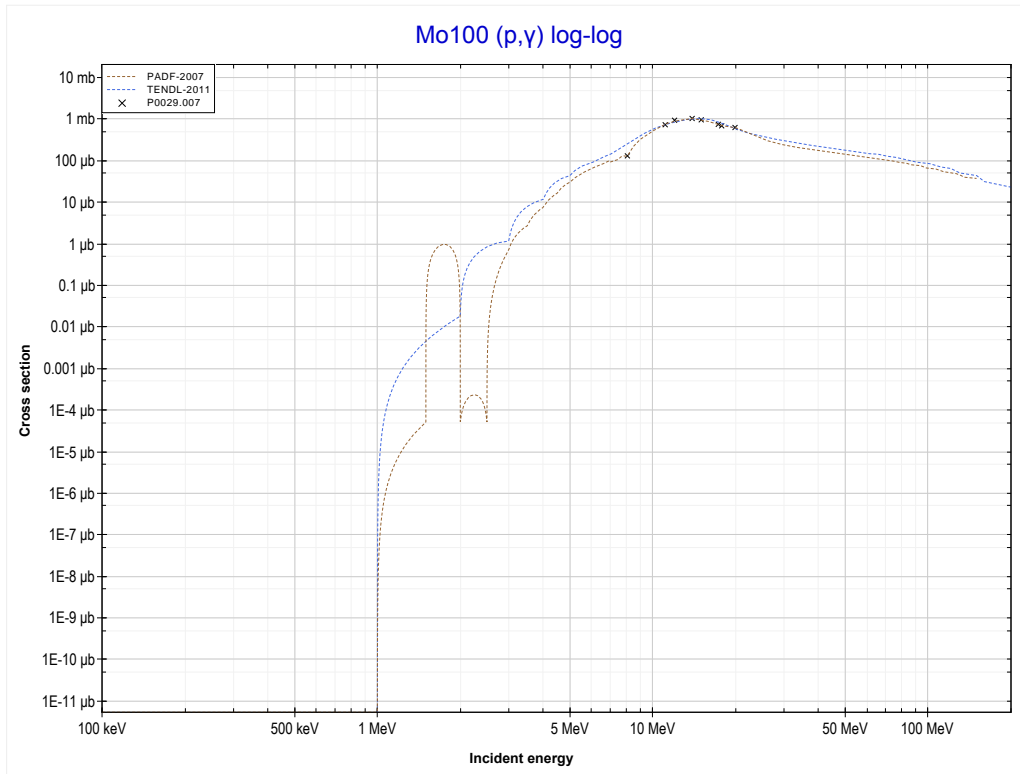
Reaction	Q-Value
Mo100(p,2n+α)Nb95	-10680.68 keV
Mo100(p,2t)Nb95	-22012.74 keV
Mo100(p,n+d+t)Nb95	-28269.97 keV
Mo100(p,2n+p+t)Nb95	-30494.54 keV
Mo100(p,3n+He3)Nb95	-31258.30 keV
Mo100(p,2n+2d)Nb95	-34527.21 keV
Mo100(p,3n+p+d)Nb95	-36751.77 keV
Mo100(p,4n+2p)Nb95	-38976.34 keV

<< 42-Mo-94	<b>42-Mo-100</b>	47-Ag-107 >>
<< MT24 (p,2n+α)	<b>MT28 (p,n+p) or MT5 (Mo99 production)</b>	MT102 (p,γ) >>



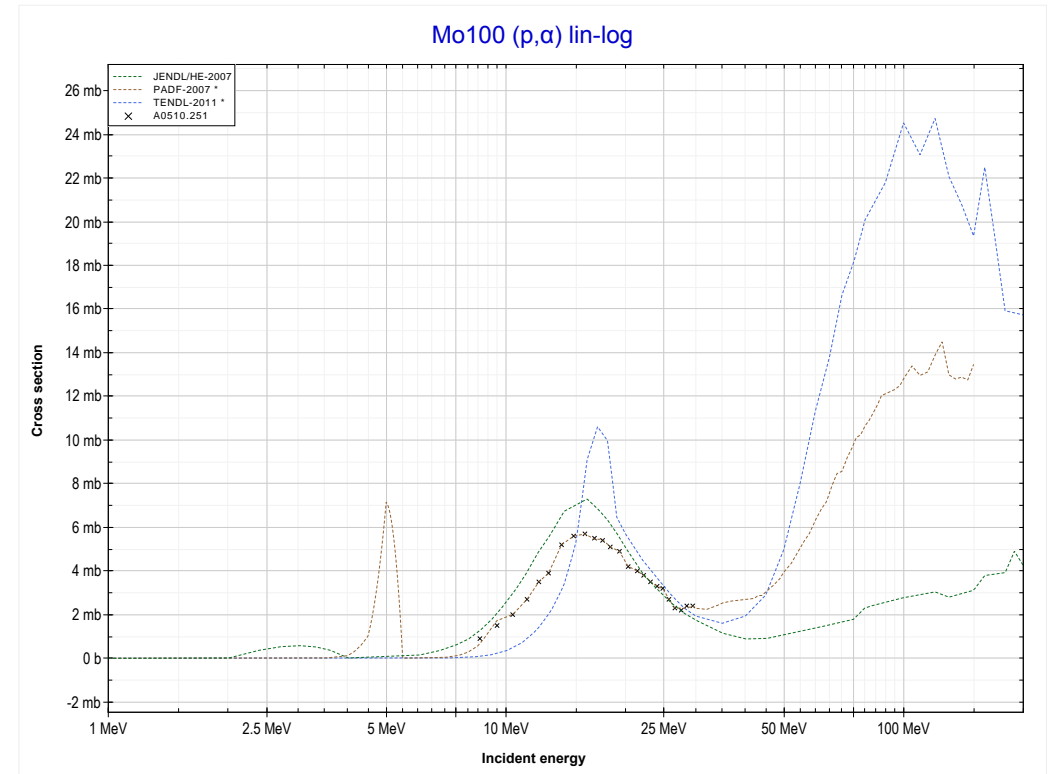
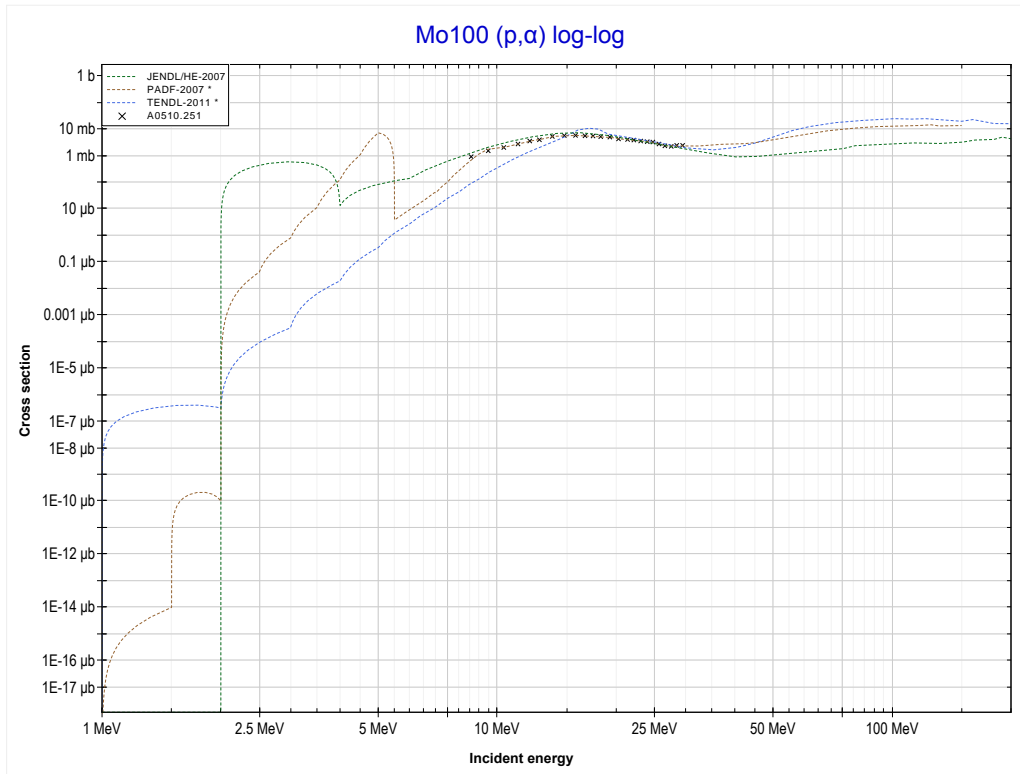
Reaction	Q-Value
Mo100(p,d)Mo99	-6064.95 keV
Mo100(p,n+p)Mo99	-8289.52 keV

<< 42-Mo-98	<b>42-Mo-100</b>	44-Ru-96 >>
<< MT28 (p,n+p)	<b>MT102 (p,<math>\gamma</math>) or MT5 (Tc101 production)</b>	MT107 (p, $\alpha$ ) >>



Reaction	Q-Value
Mo100(p, $\gamma$ )Tc101	7440.97 keV

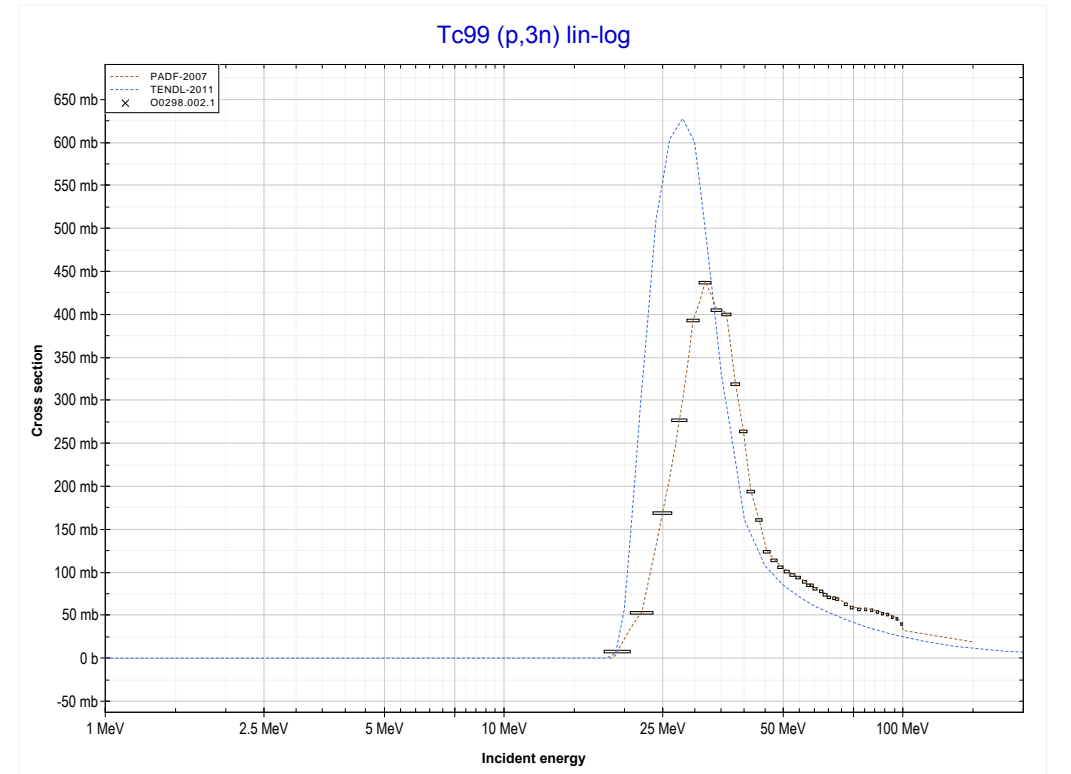
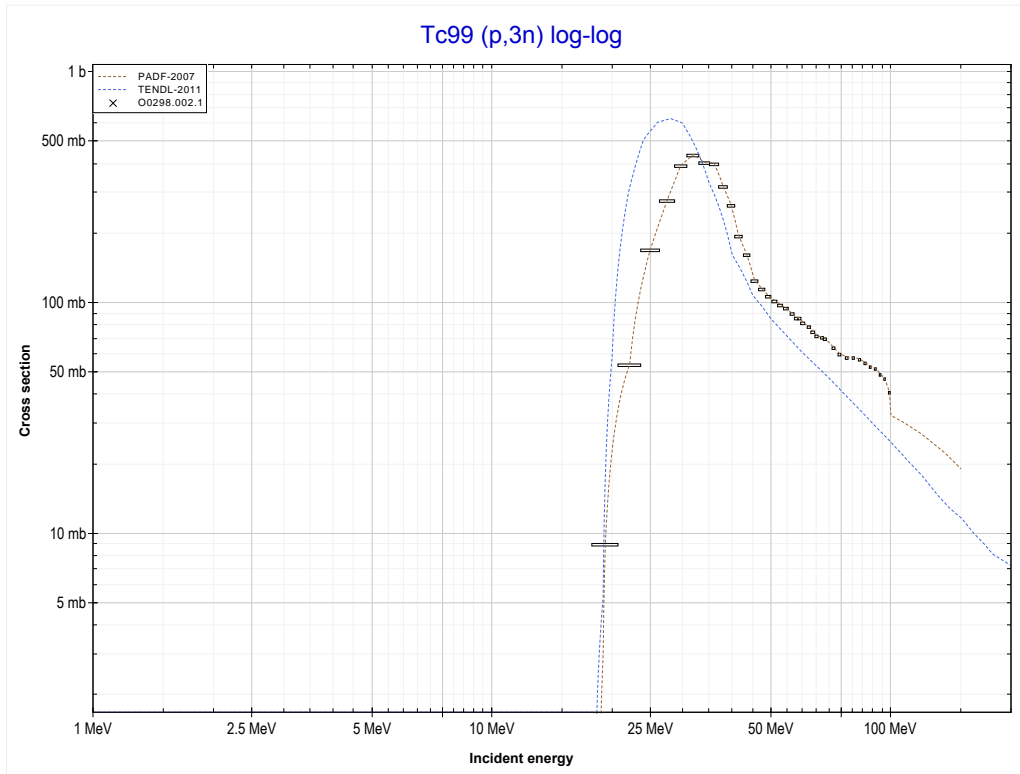
<< 42-Mo-98	<b>42-Mo-100</b>	48-Cd-114 >>
<< MT102 (p, $\gamma$ )	<b>MT107 (p,<math>\alpha</math>) or MT5 (Nb97 production)</b>	MT17 (p,3n) >>



Reaction	Q-Value
Mo100(p, $\alpha$ )Nb97	4285.65 keV
Mo100(p,p+t)Nb97	-15528.21 keV
Mo100(p,n+He3)Nb97	-16291.96 keV
Mo100(p,2d)Nb97	-19560.87 keV
Mo100(p,n+p+d)Nb97	-21785.44 keV
Mo100(p,2n+2p)Nb97	-24010.00 keV

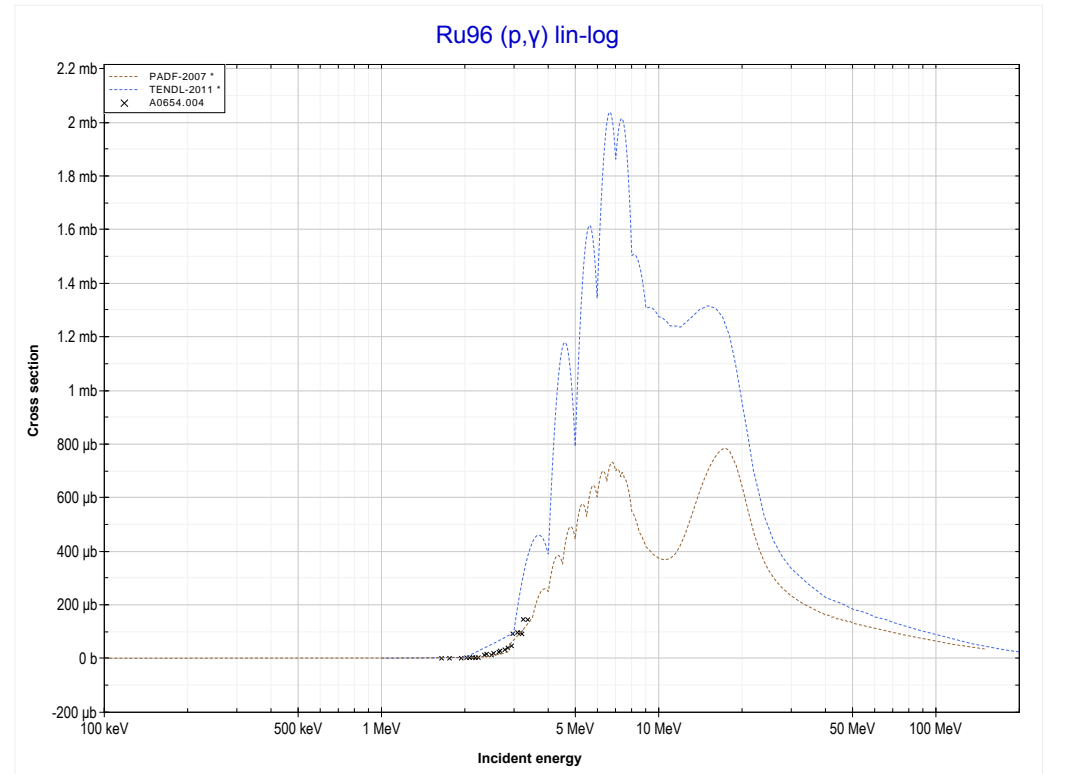
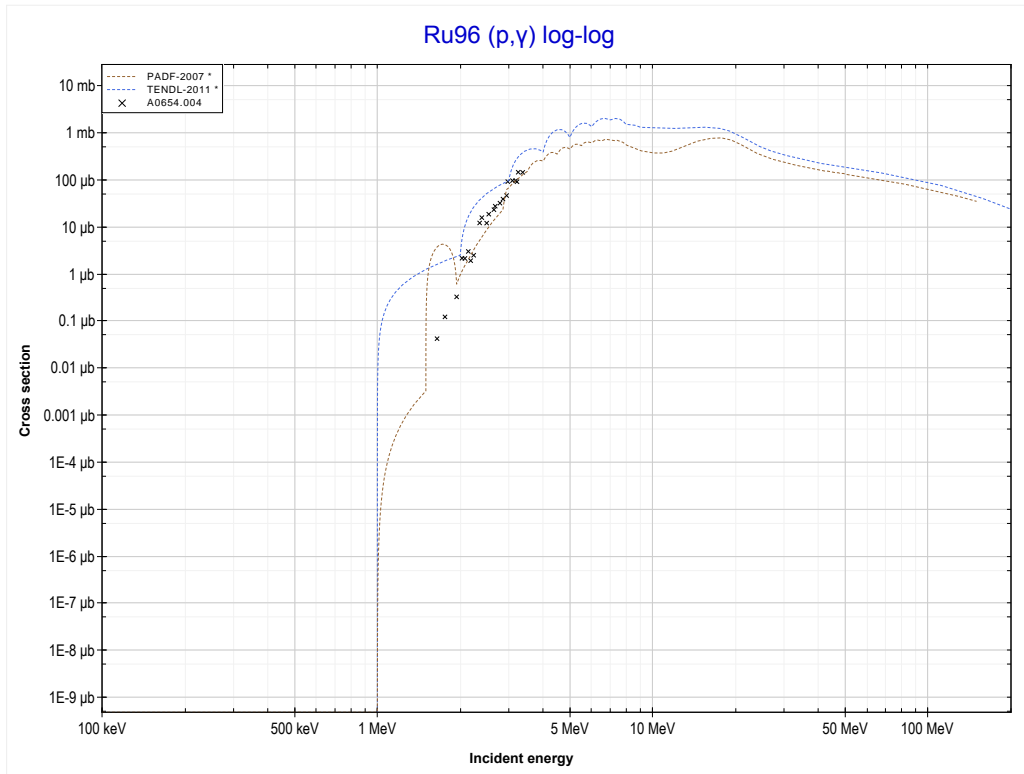


<< 42-Mo-98	<b>43-Tc-99</b>	45-Rh-103 >>
<< MT107 (p, $\alpha$ )	<b>MT17 (p,3n) or MT5 (Ru97 production)</b>	MT102 (p, $\gamma$ ) >>



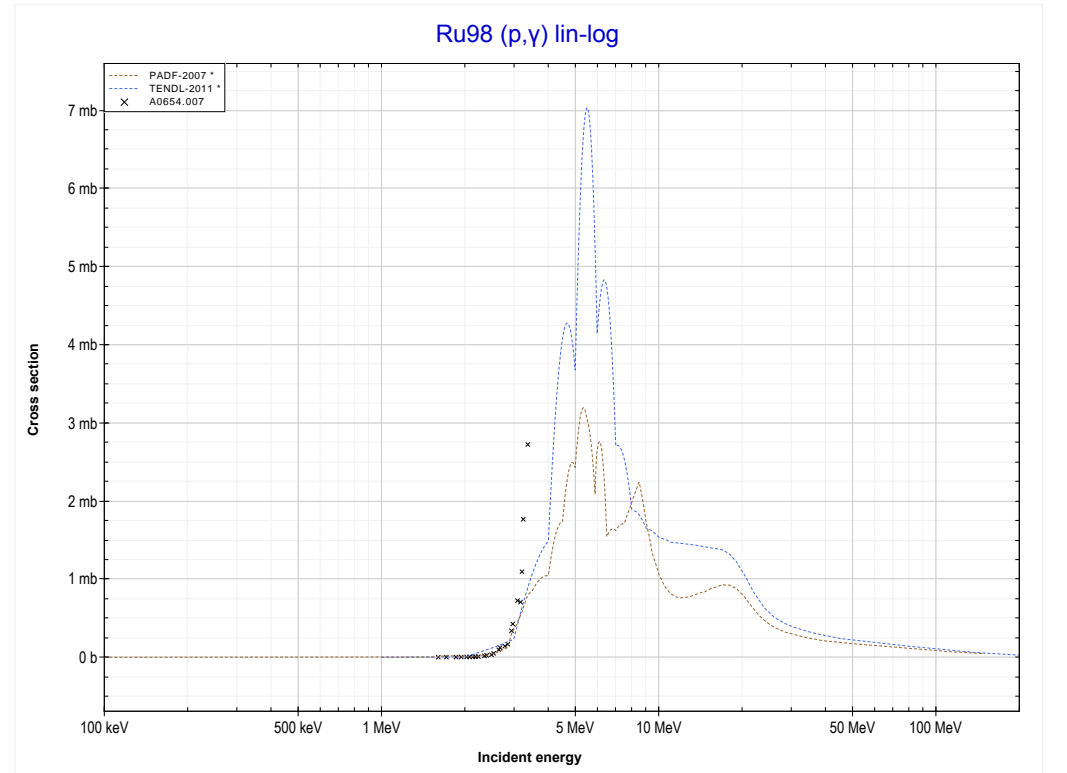
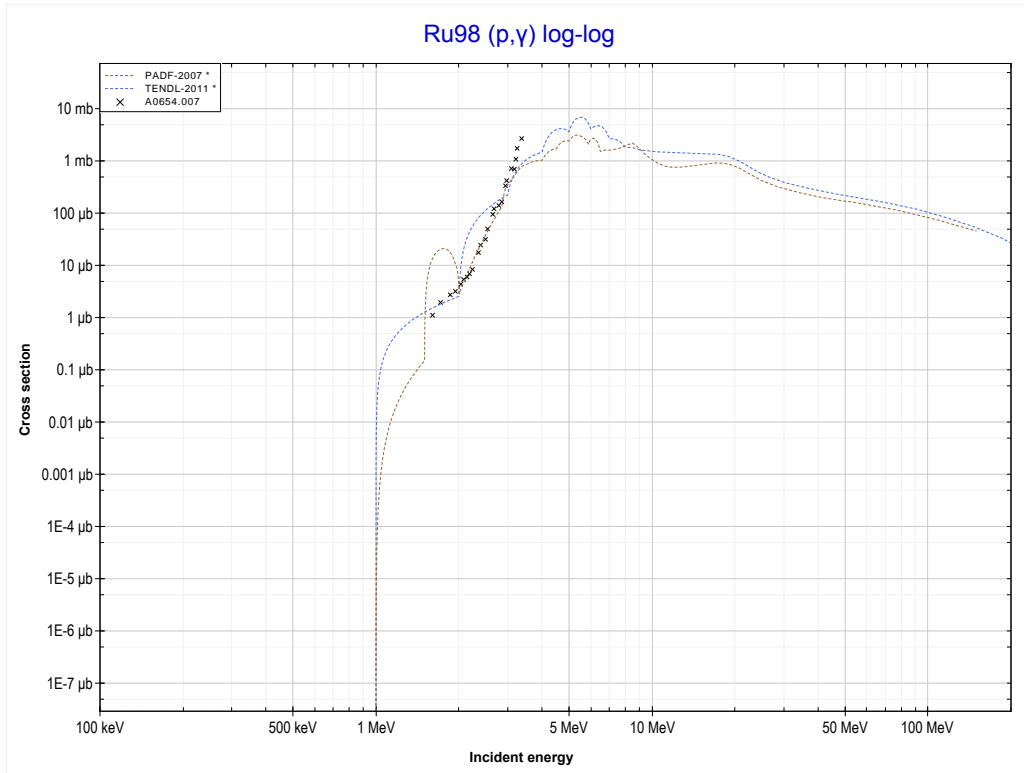
Reaction	Q-Value
Tc99(p,3n)Ru97	-18136.08 keV

<< 42-Mo-100	<b>44-Ru-96</b>	44-Ru-98 >>
<< MT17 (p,3n)	<b>MT102 (p,<math>\gamma</math>) or MT5 (Rh97 production)</b>	MT102 (p, $\gamma$ ) >>



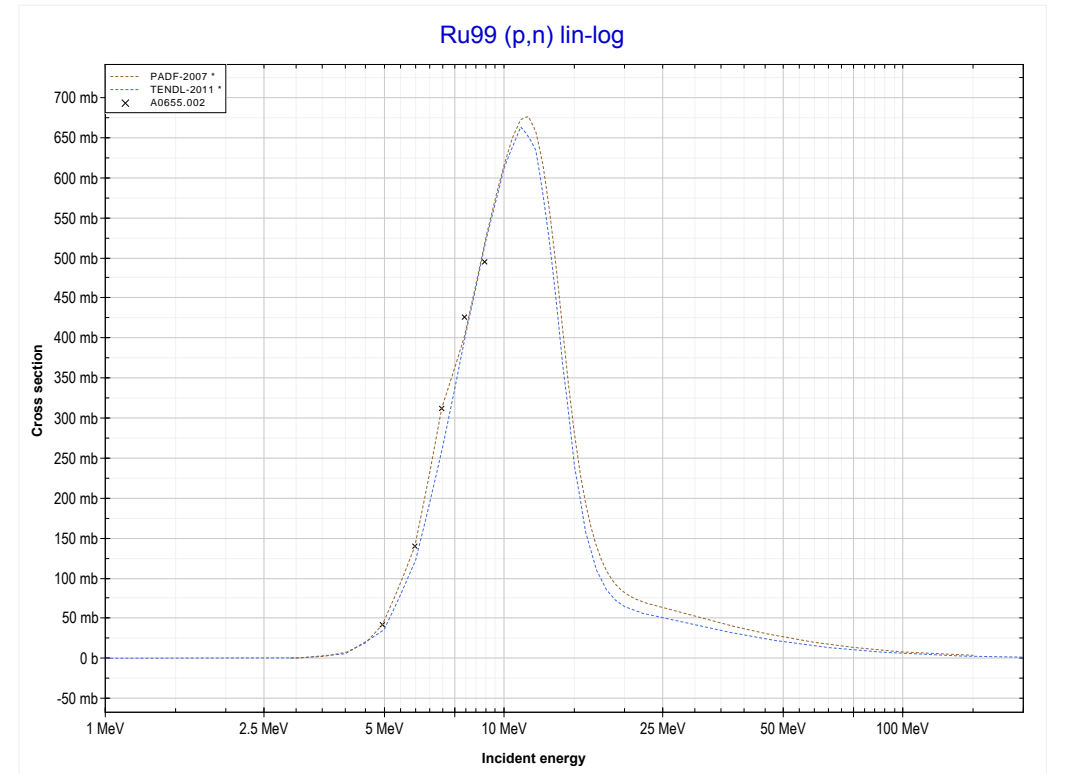
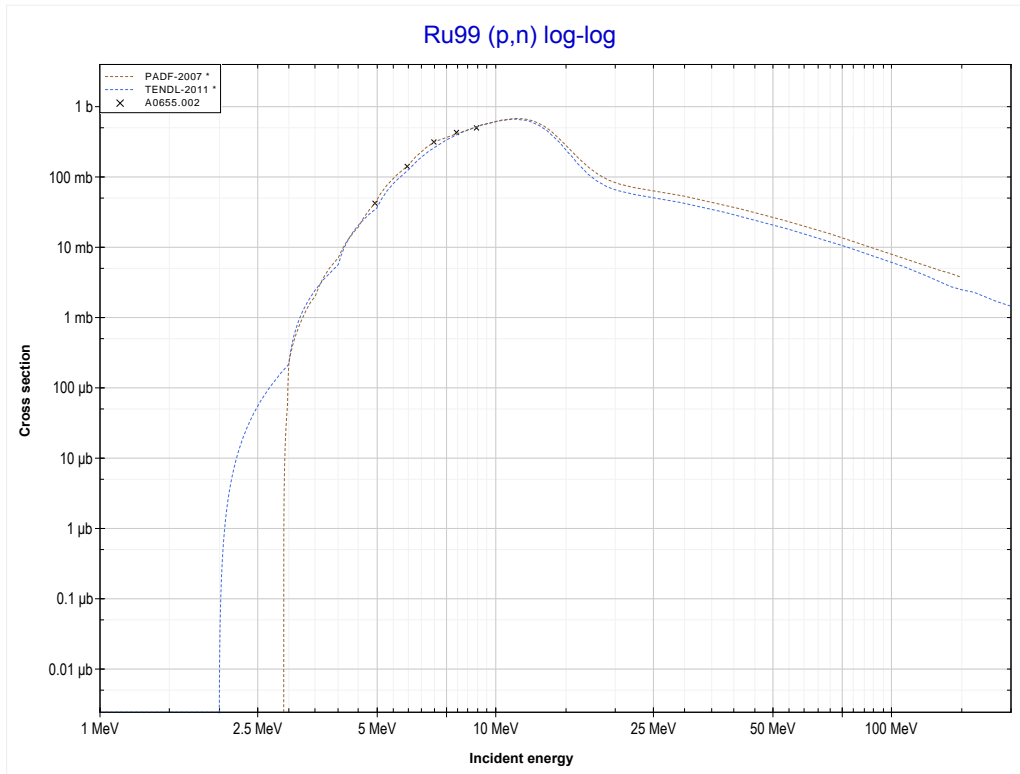
Reaction	Q-Value
Ru96(p, $\gamma$ )Rh97	3806.97 keV

<< 44-Ru-96	<b>44-Ru-98</b>	46-Pd-102 >>
<< MT102 (p, $\gamma$ )	<b>MT102 (p,<math>\gamma</math>) or MT5 (Rh99 production)</b>	MT4 (p,n) >>



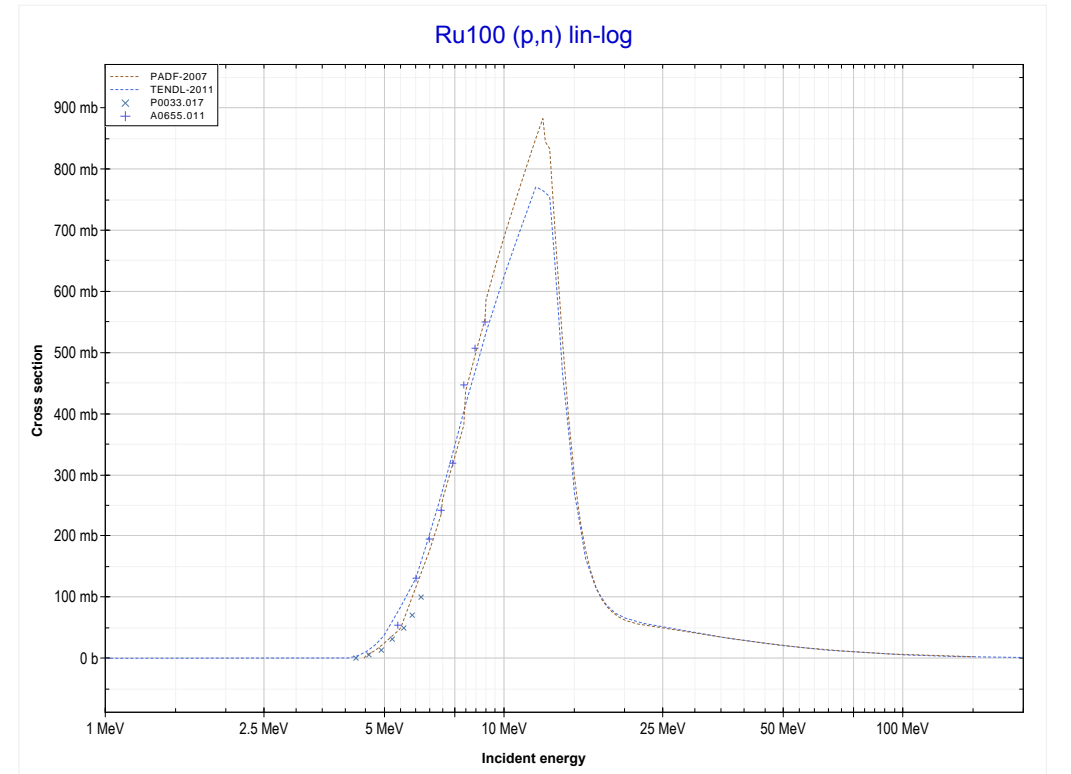
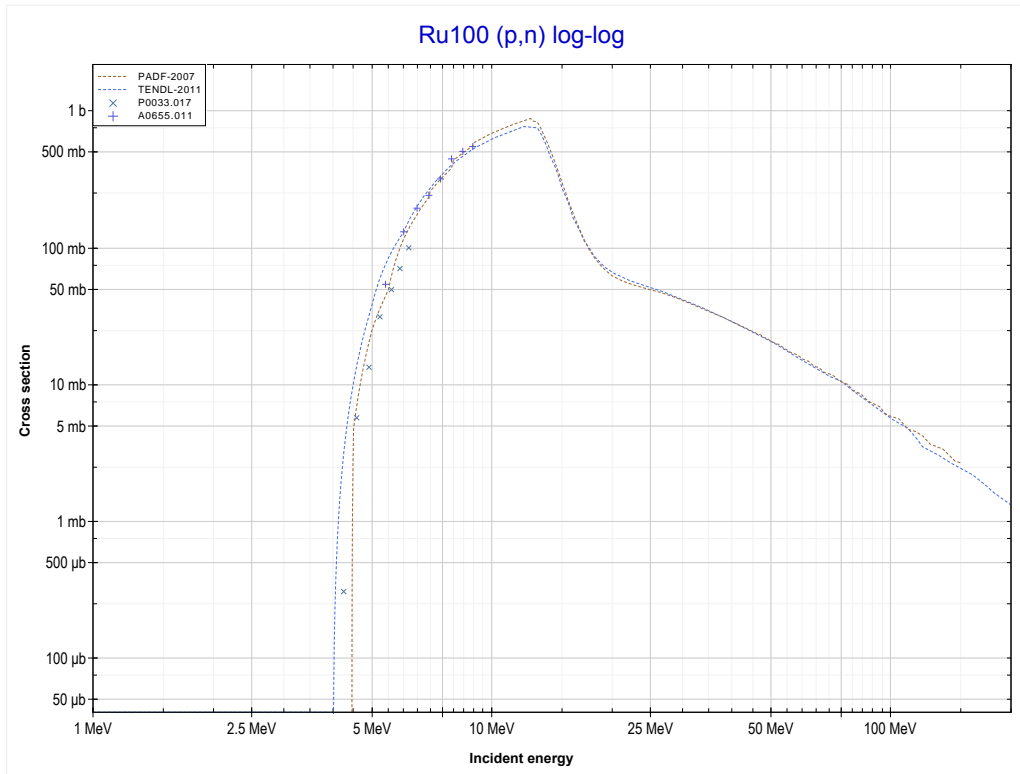
<b>Reaction</b>	<b>Q-Value</b>
Ru98(p, $\gamma$ )Rh99	4638.97 keV

<< 42-Mo-100	<b>44-Ru-99</b>	44-Ru-100 >>
<< MT102 (p, $\gamma$ )	<b>MT4 (p,n) or MT5 (Rh99 production)</b>	MT4 (p,n) >>



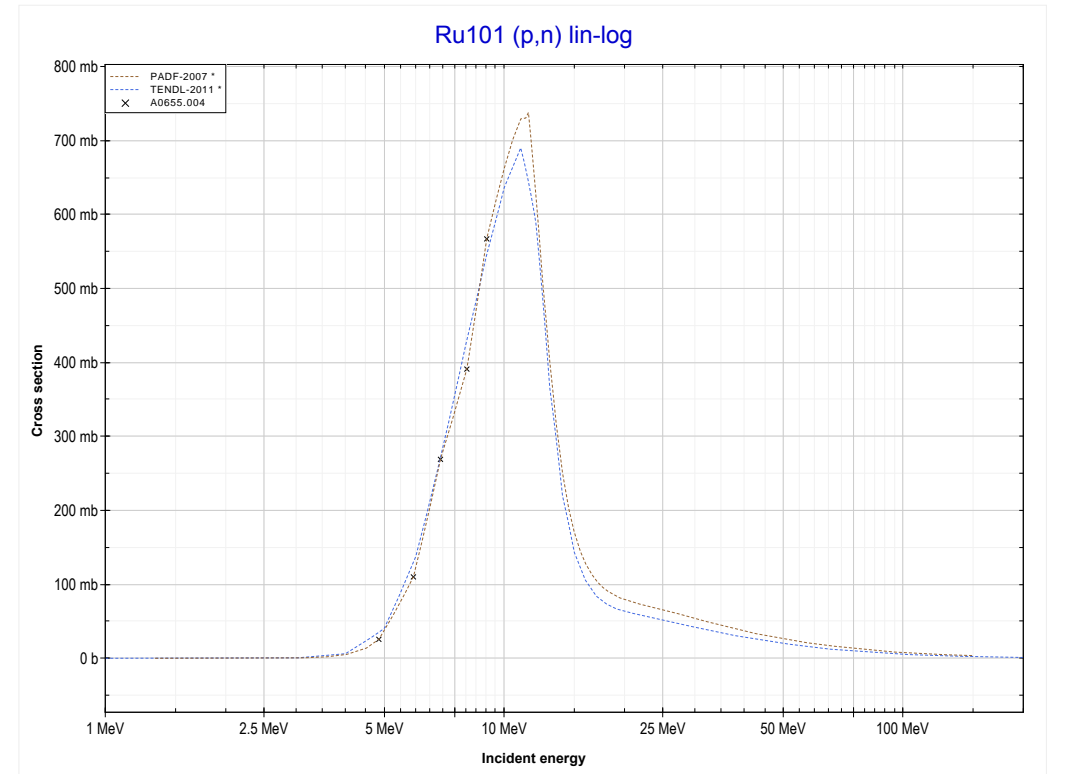
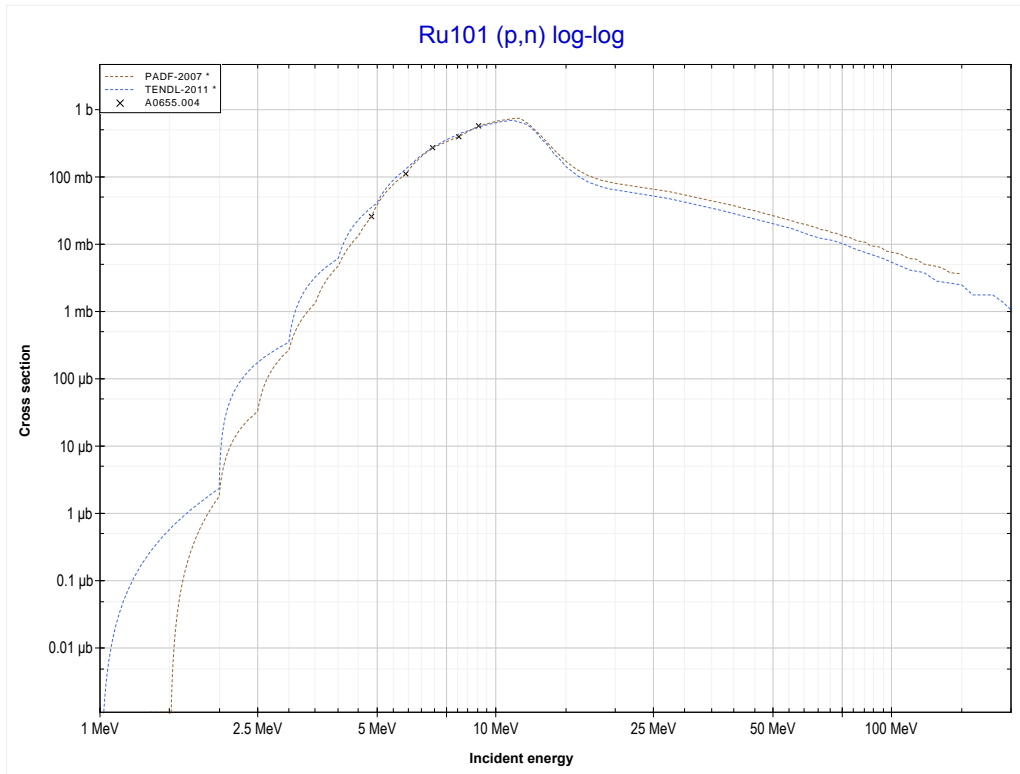
<b>Reaction</b>	<b>Q-Value</b>
Ru99(p,n)Rh99	-2825.35 keV

<< 44-Ru-99	<b>44-Ru-100</b>	44-Ru-101 >>
<< MT4 (p,n)	<b>MT4 (p,n) or MT5 (Rh100 production)</b>	MT4 (p,n) >>



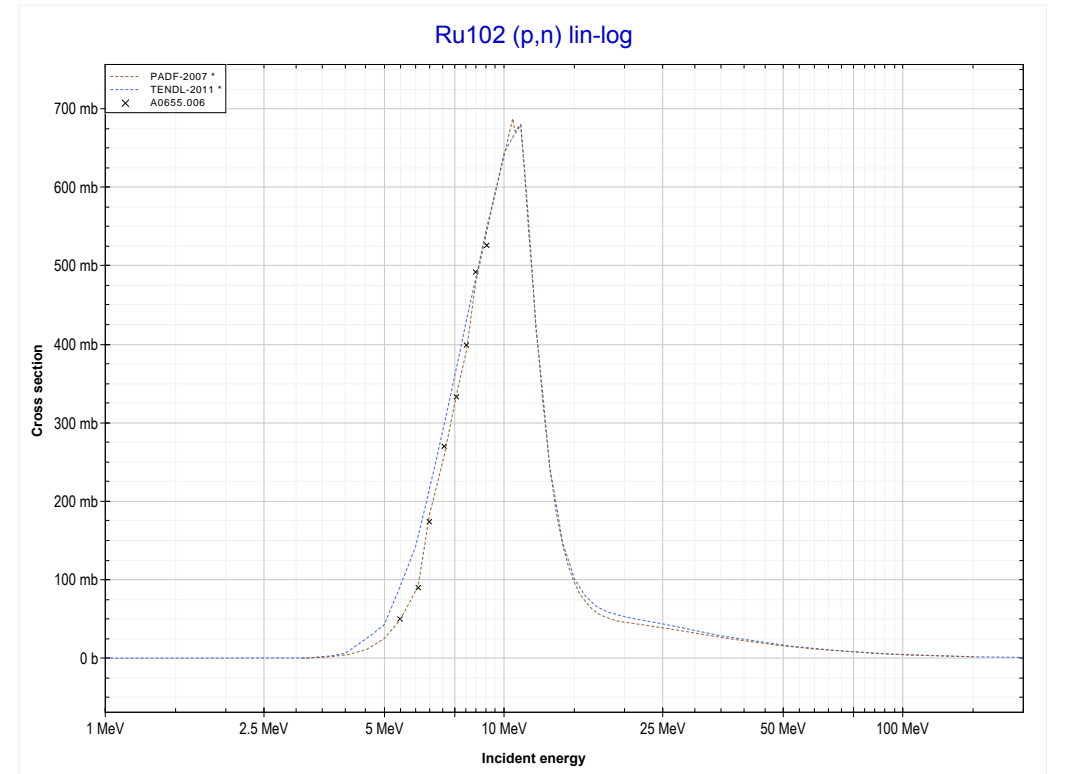
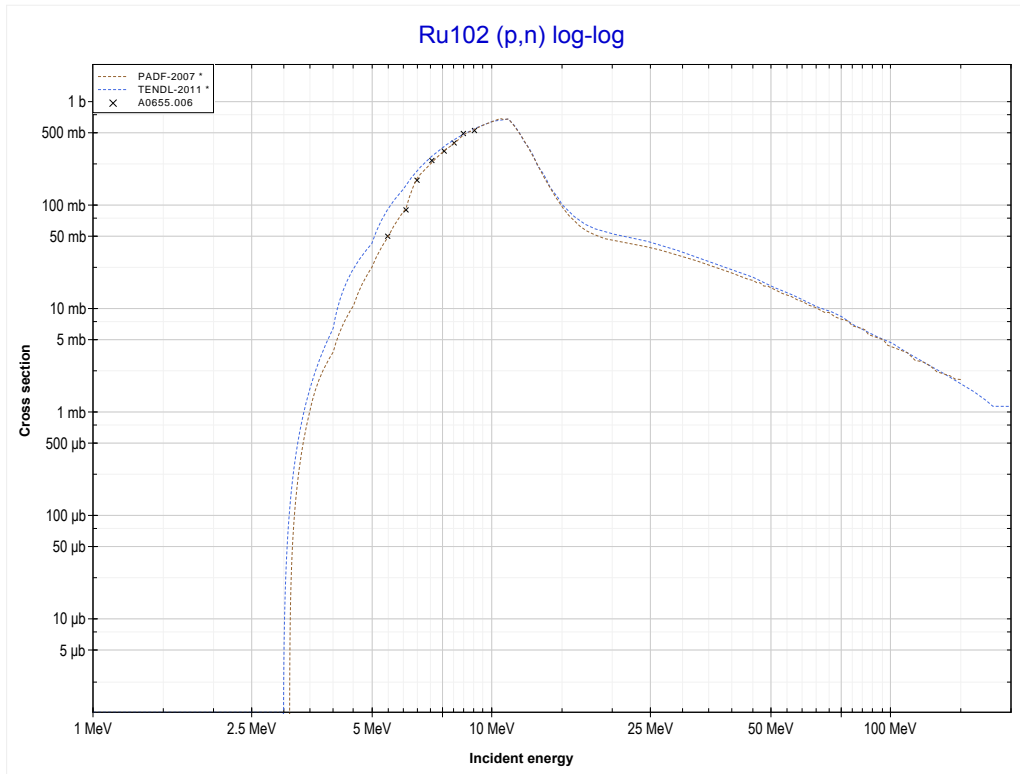
Reaction	Q-Value
Ru100(p,n)Rh100	-4417.35 keV

<< 44-Ru-100	<b>44-Ru-101</b>	44-Ru-102 >>
<< MT4 (p,n)	<b>MT4 (p,n) or MT5 (Rh101 production)</b>	MT4 (p,n) >>



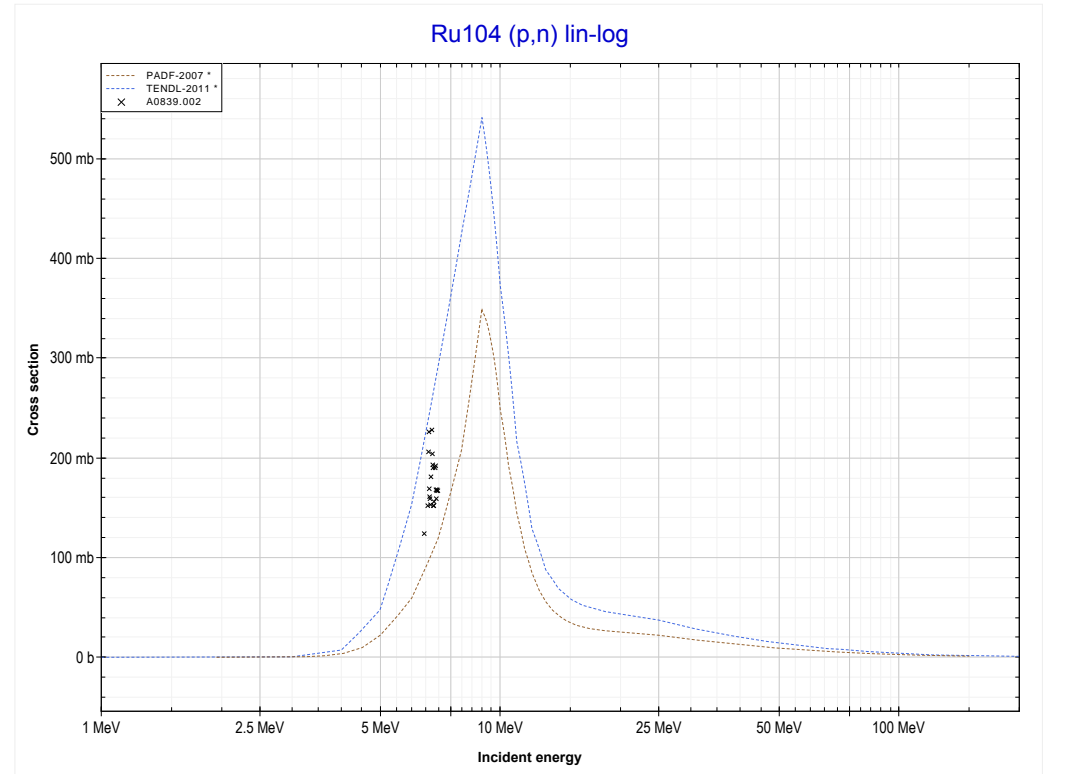
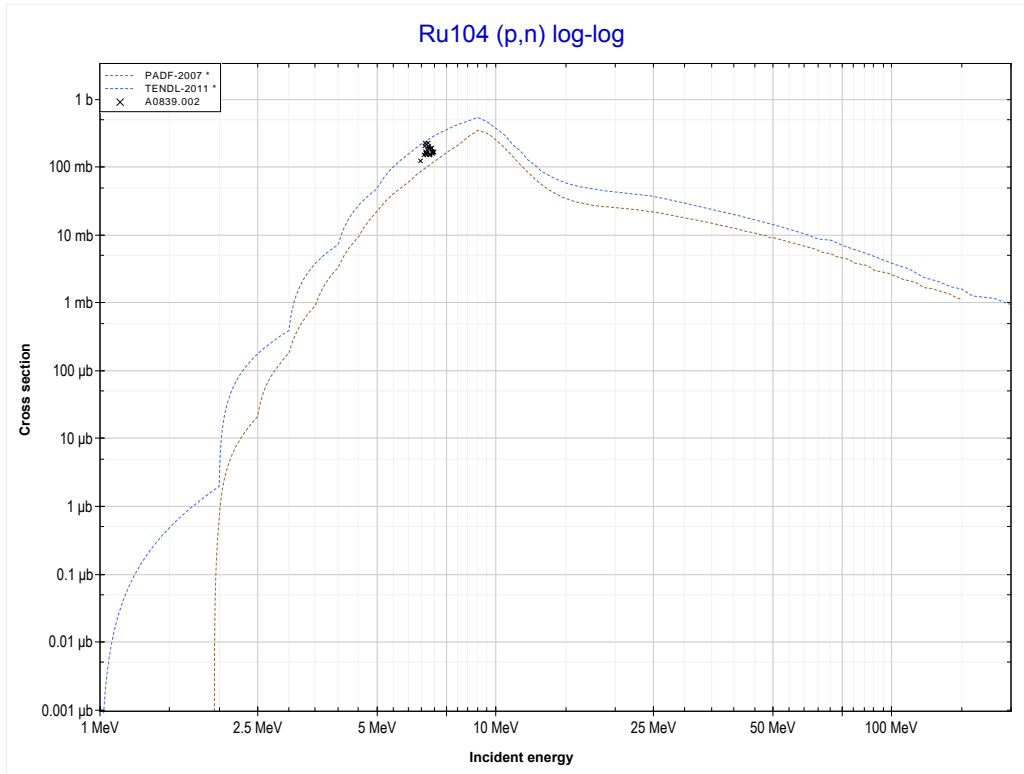
Reaction	Q-Value
Ru101(p,n)Rh101	-1324.05 keV

<< 44-Ru-101	<b>44-Ru-102</b>	44-Ru-104 >>
<< MT4 (p,n)	<b>MT4 (p,n) or MT5 (Rh102 production)</b>	MT4 (p,n) >>



Reaction	Q-Value
Ru102(p,n)Rh102	-3105.35 keV

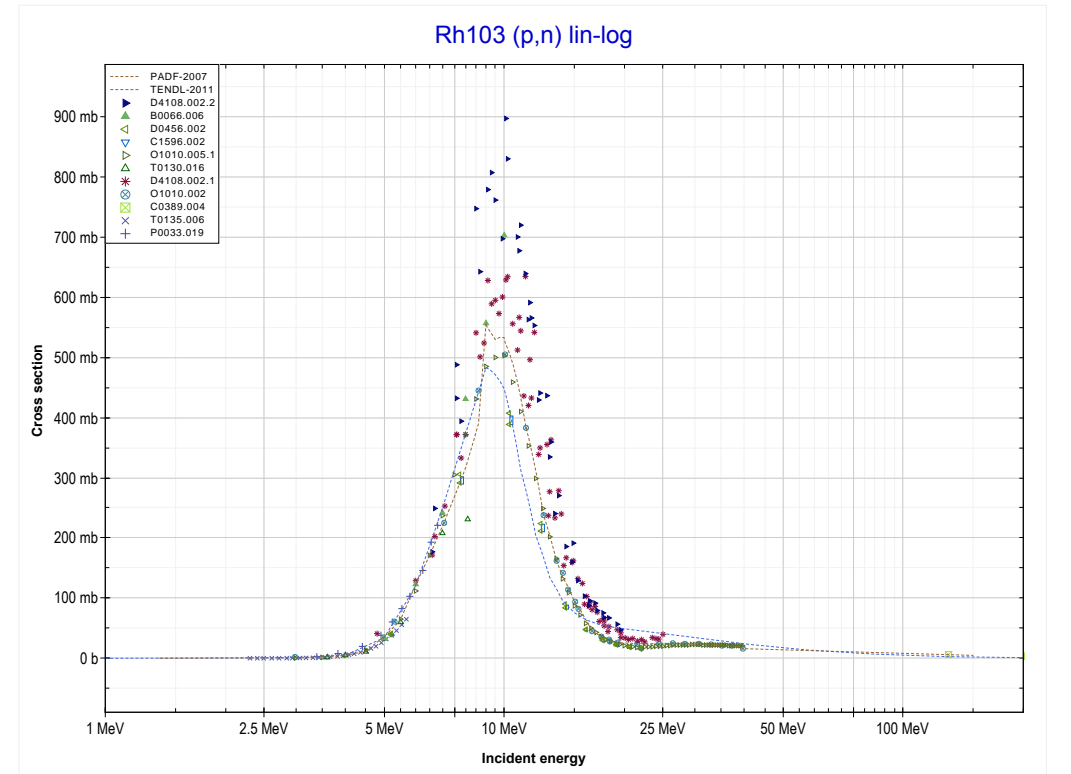
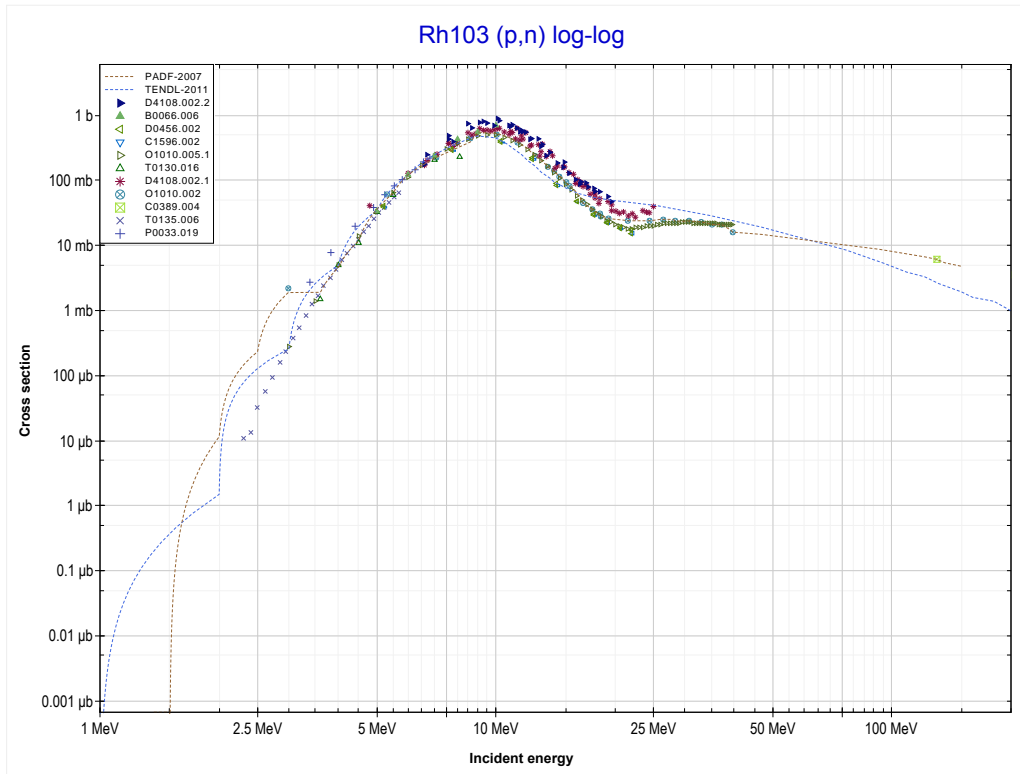
<< 44-Ru-102	<b>44-Ru-104</b>	45-Rh-103 >>
<< MT4 (p,n)	<b>MT4 (p,n) or MT5 (Rh104 production)</b>	MT4 (p,n) >>



Reaction	Q-Value
Ru104(p,n)Rh104	-1921.55 keV

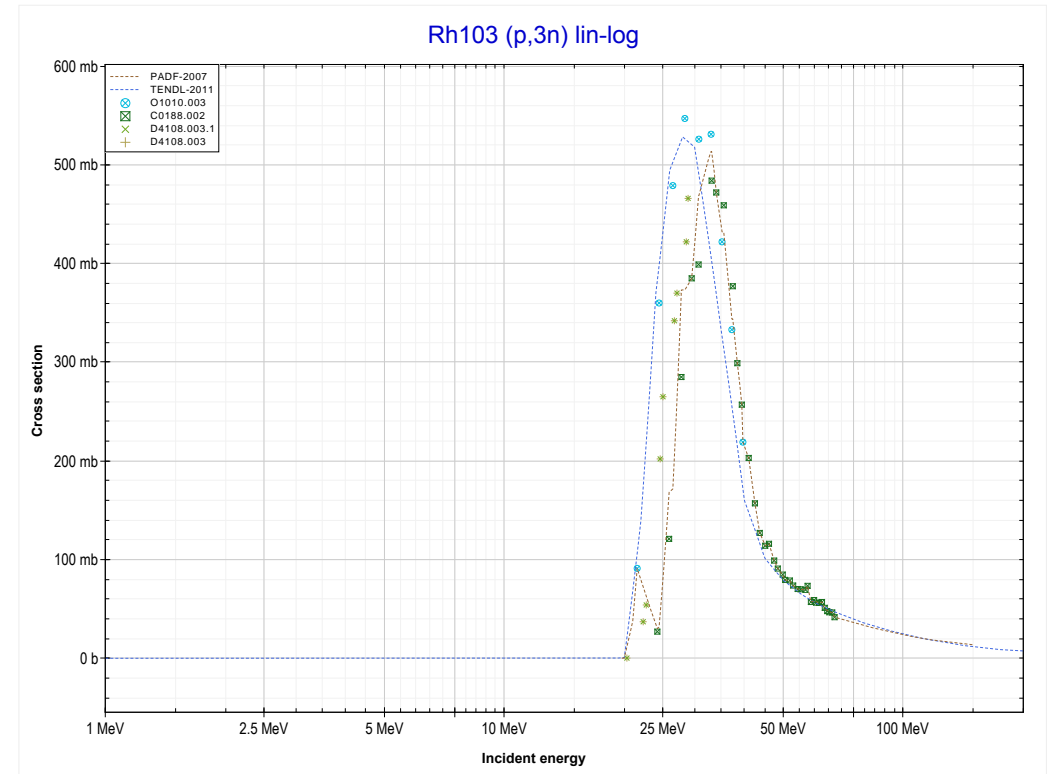
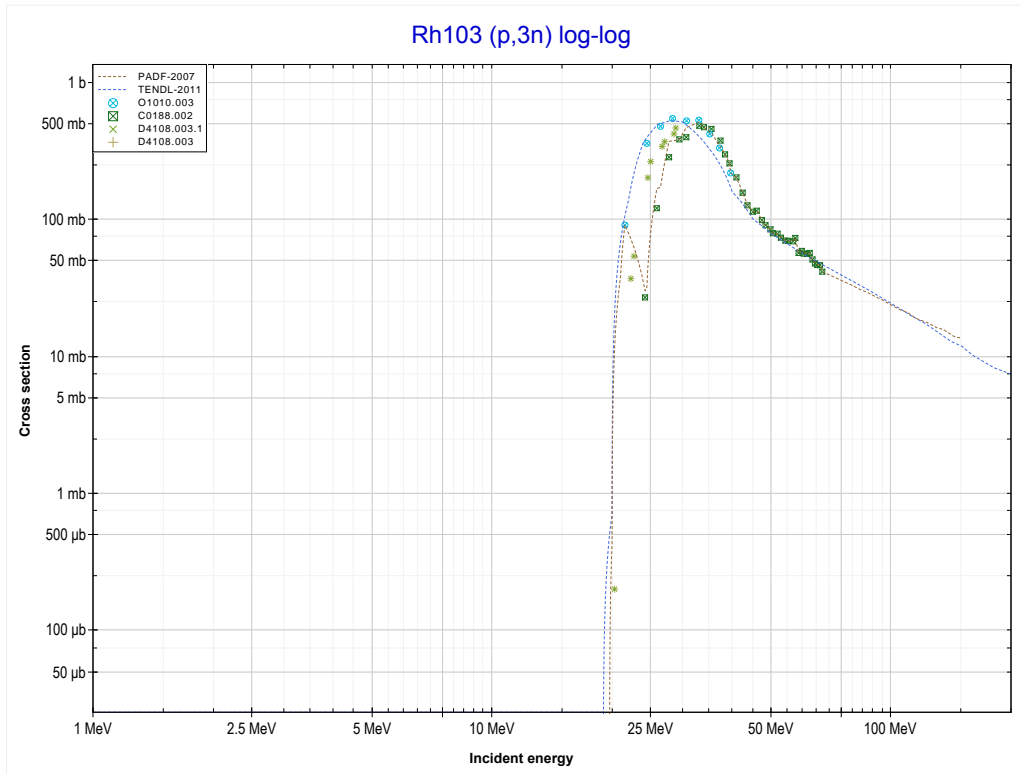


<< 44-Ru-104	<b>45-Rh-103</b>	46-Pd-104 >>
<< MT4 (p,n)	<b>MT4 (p,n) or MT5 (Pd103 production)</b>	MT17 (p,3n) >>



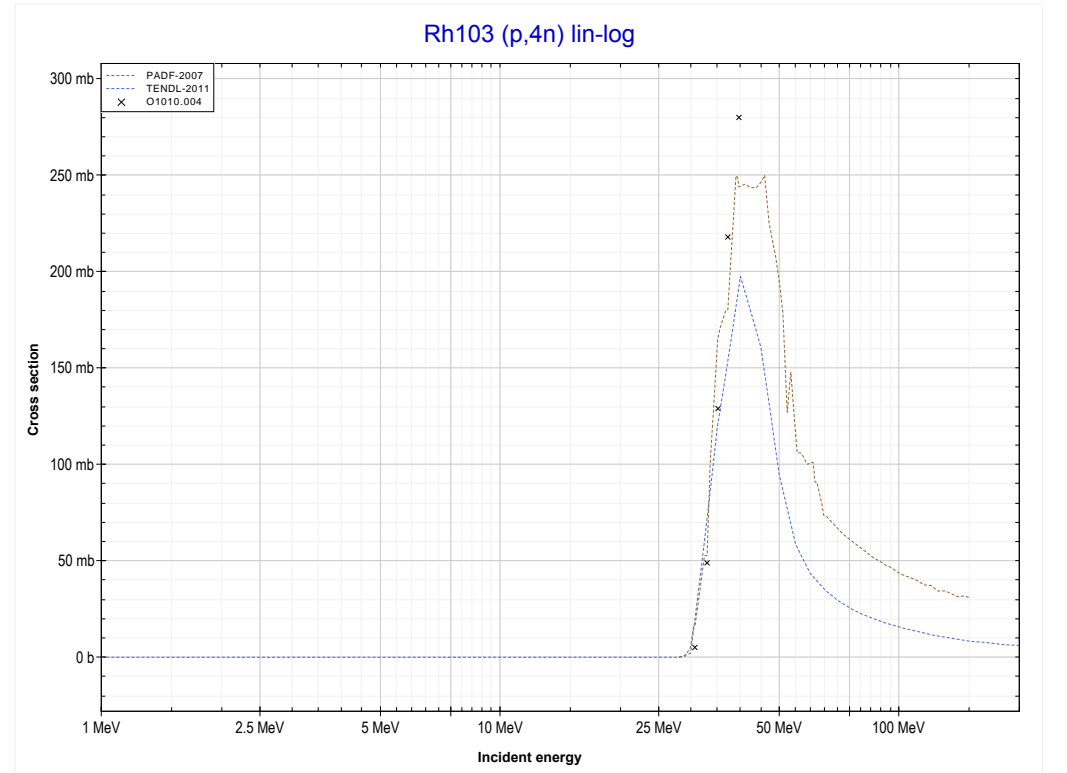
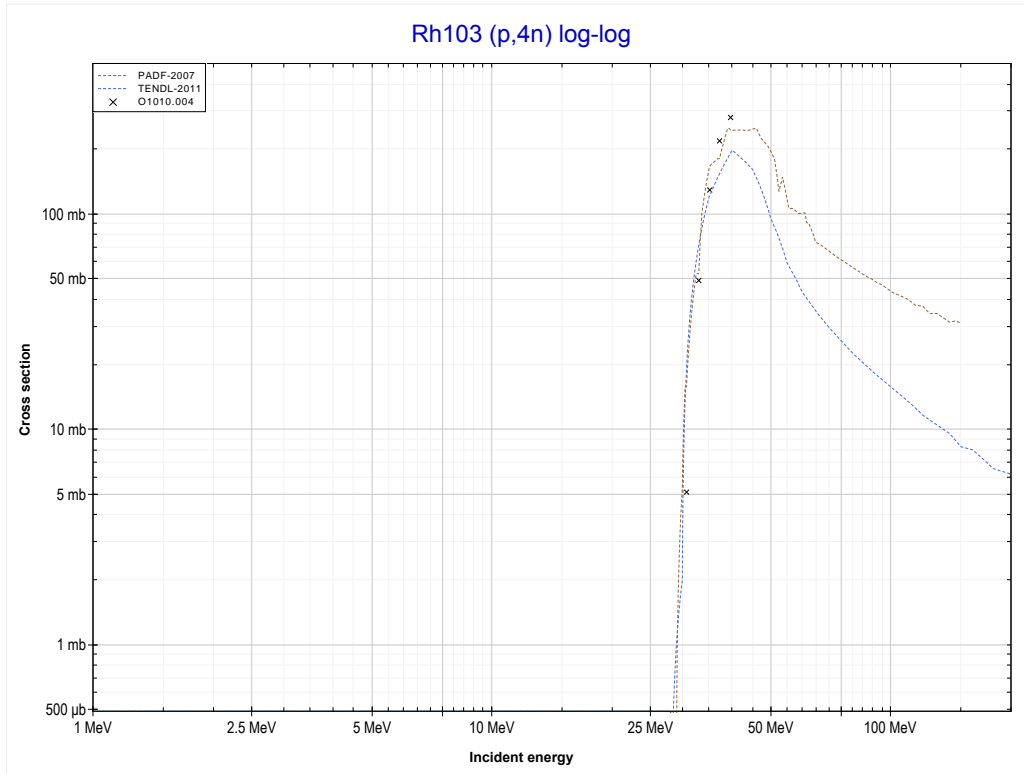
Reaction	Q-Value
Rh103(p,n)Pd103	-1325.45 keV

<< 43-Tc-99	<b>45-Rh-103</b>	48-Cd-111 >>
<< MT4 (p,n)	<b>MT17 (p,3n) or MT5 (Pd101 production)</b>	MT37 (p,4n) >>



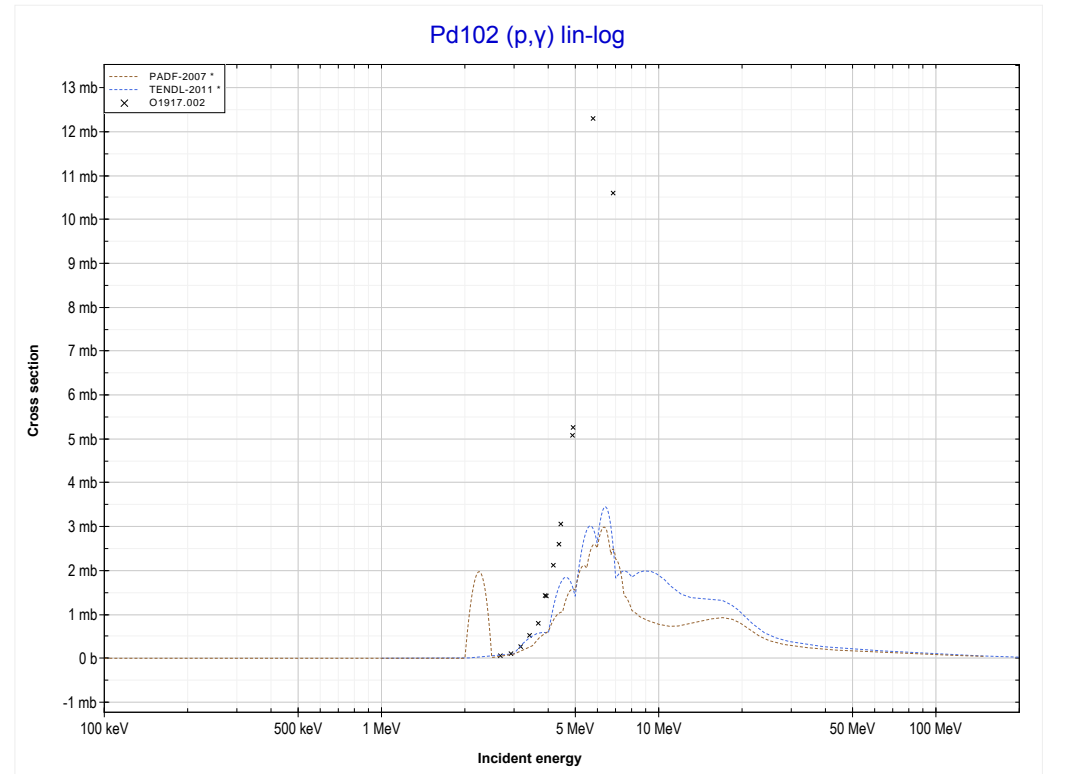
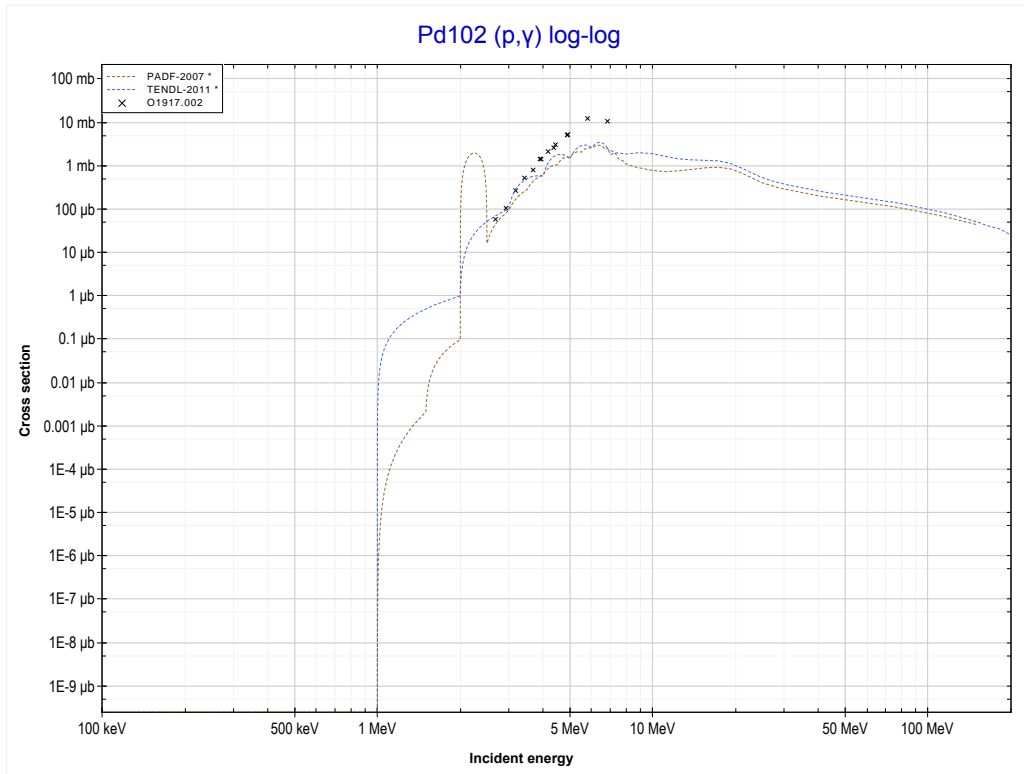
Reaction	Q-Value
Rh103(p,3n)Pd101	-19519.18 keV

<< 42-Mo-96	<b>45-Rh-103</b>	48-Cd-111 >>
<< MT17 (p,3n)	<b>MT37 (p,4n) or MT5 (Pd100 production)</b>	MT102 (p, $\gamma$ ) >>



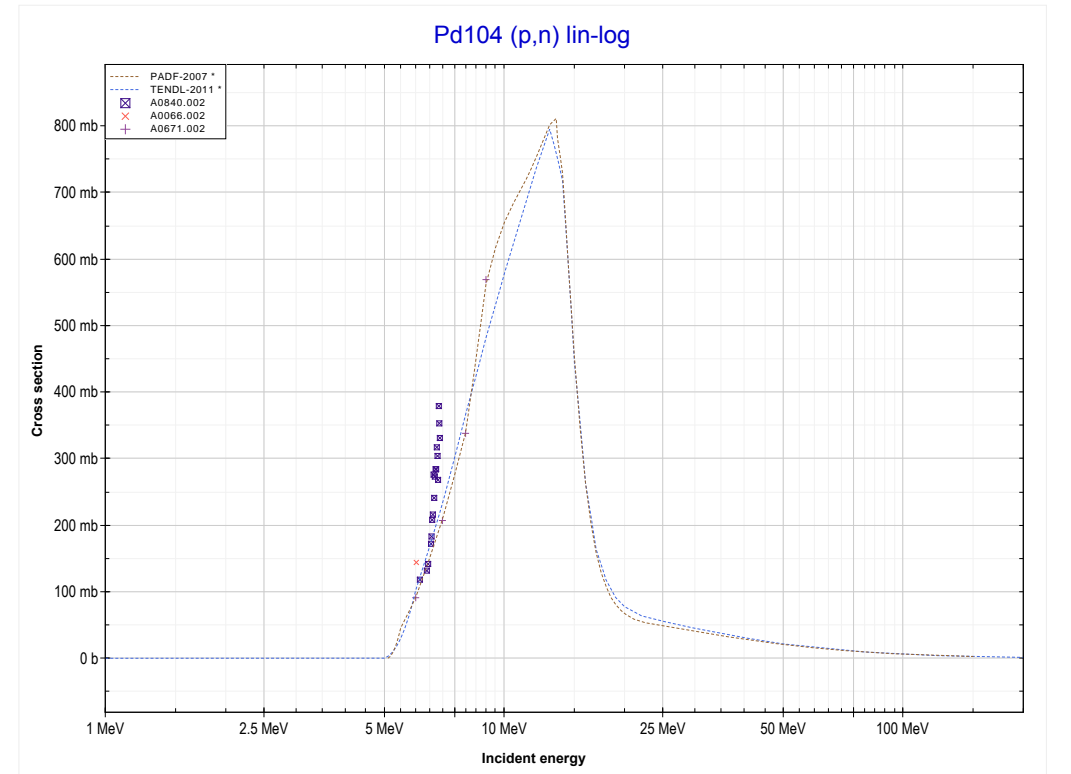
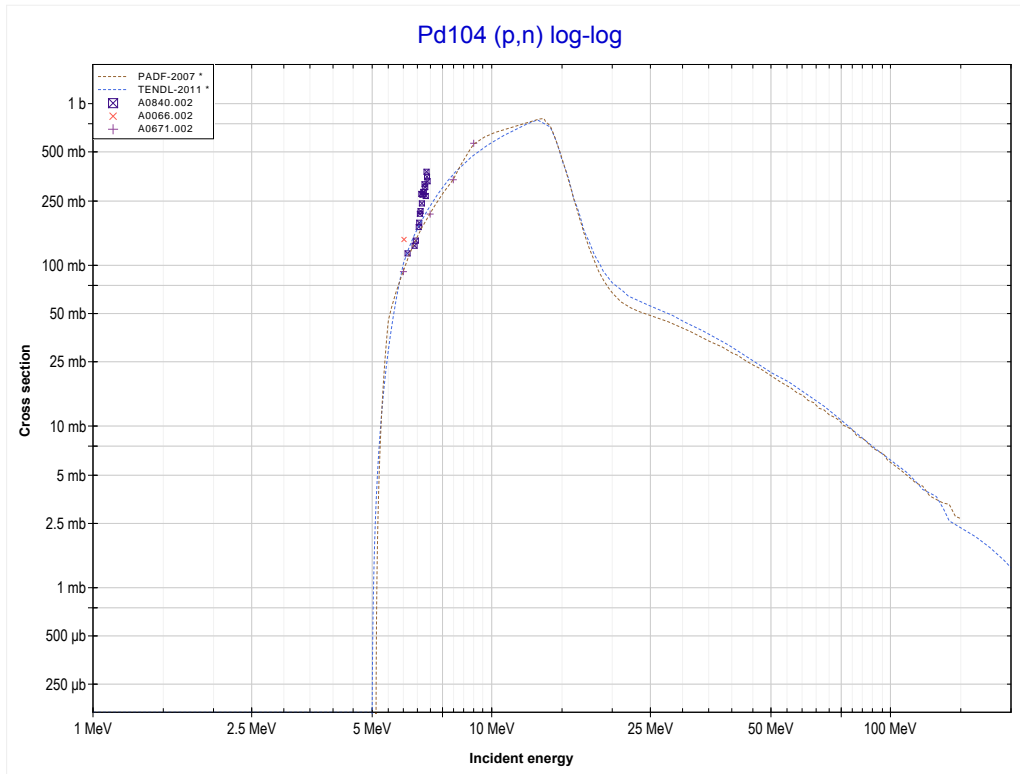
Reaction	Q-Value
Rh103(p,4n)Pd100	-27792.50 keV

<< 44-Ru-98	<b>46-Pd-102</b>	46-Pd-104 >>
<< MT37 (p,4n)	<b>MT102 (p,<math>\gamma</math>) or MT5 (Ag103 production)</b>	MT4 (p,n) >>



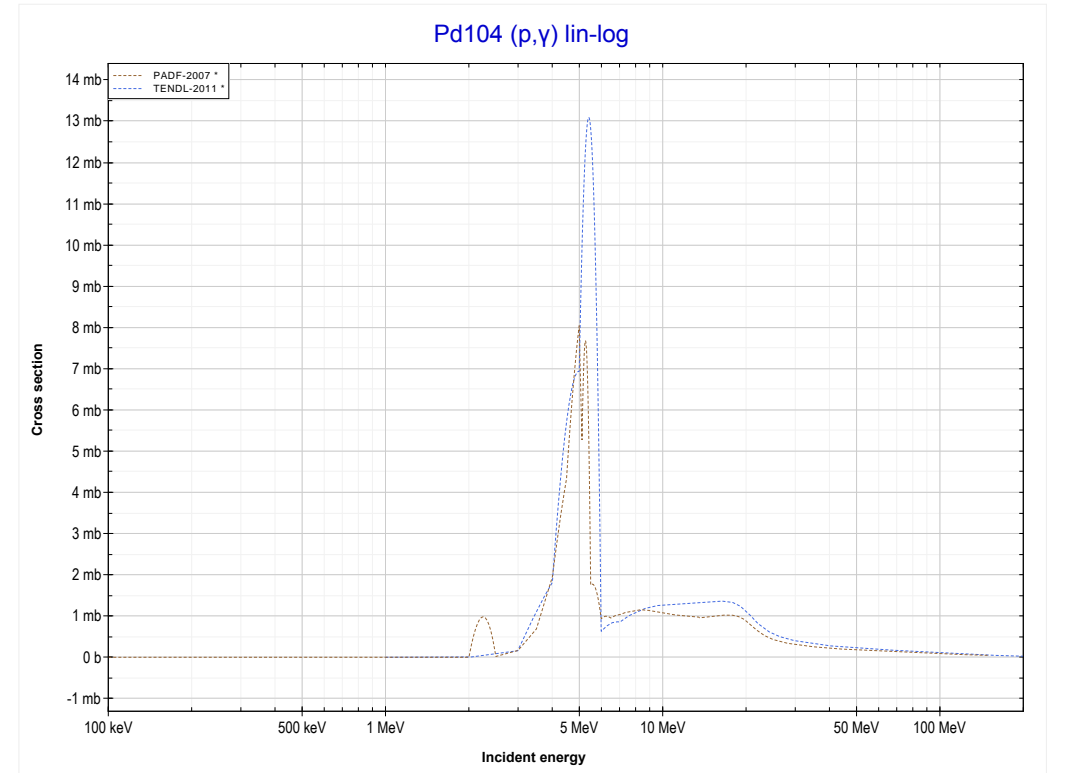
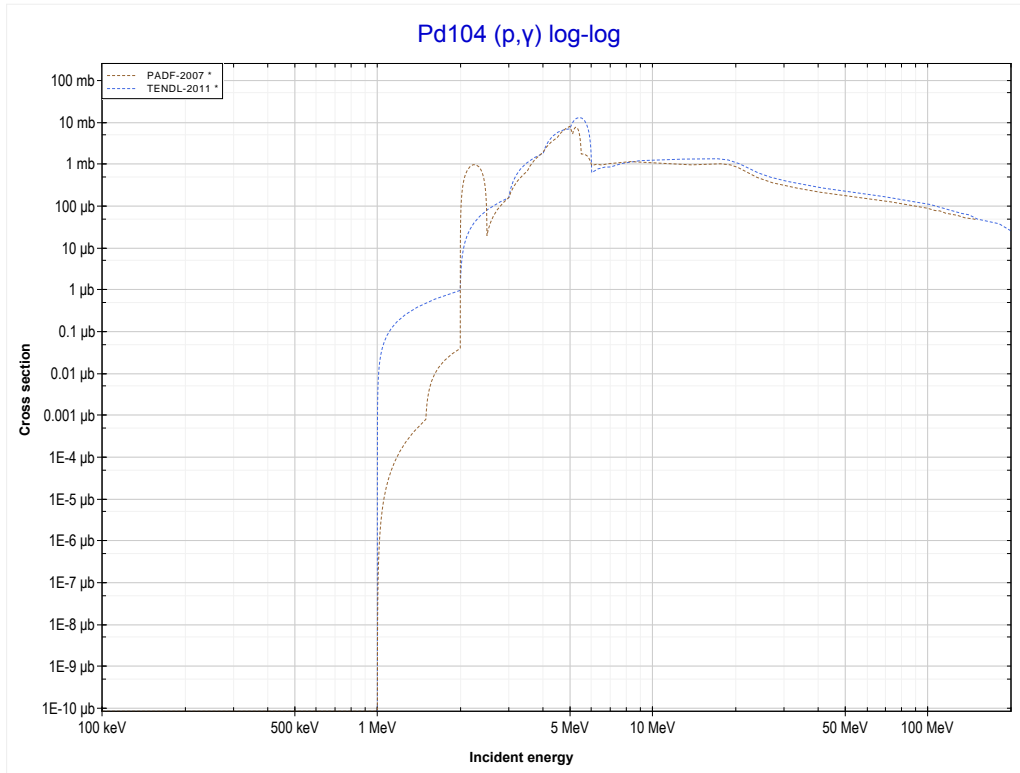
Reaction	Q-Value
Pd102(p, $\gamma$ )Ag103	4154.87 keV

<< 45-Rh-103	<b>46-Pd-104</b>	46-Pd-105 >>
<< MT102 (p, $\gamma$ )	<b>MT4 (p,n) or MT5 (Ag104 production)</b>	MT102 (p, $\gamma$ ) >>



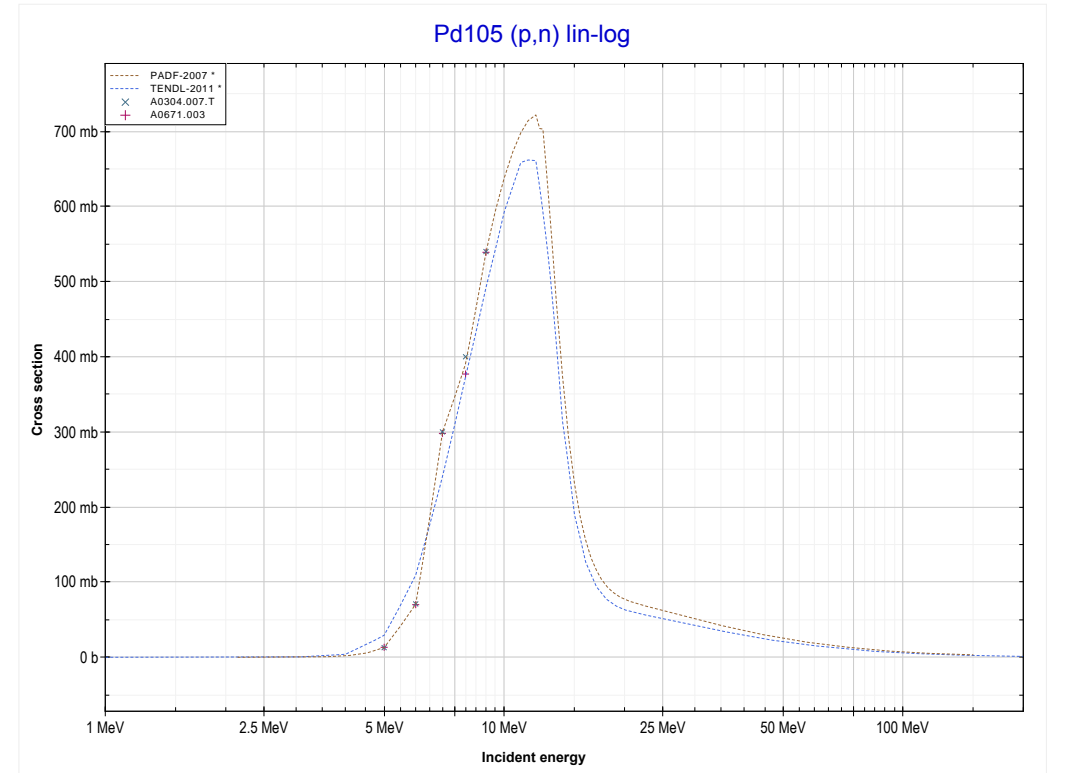
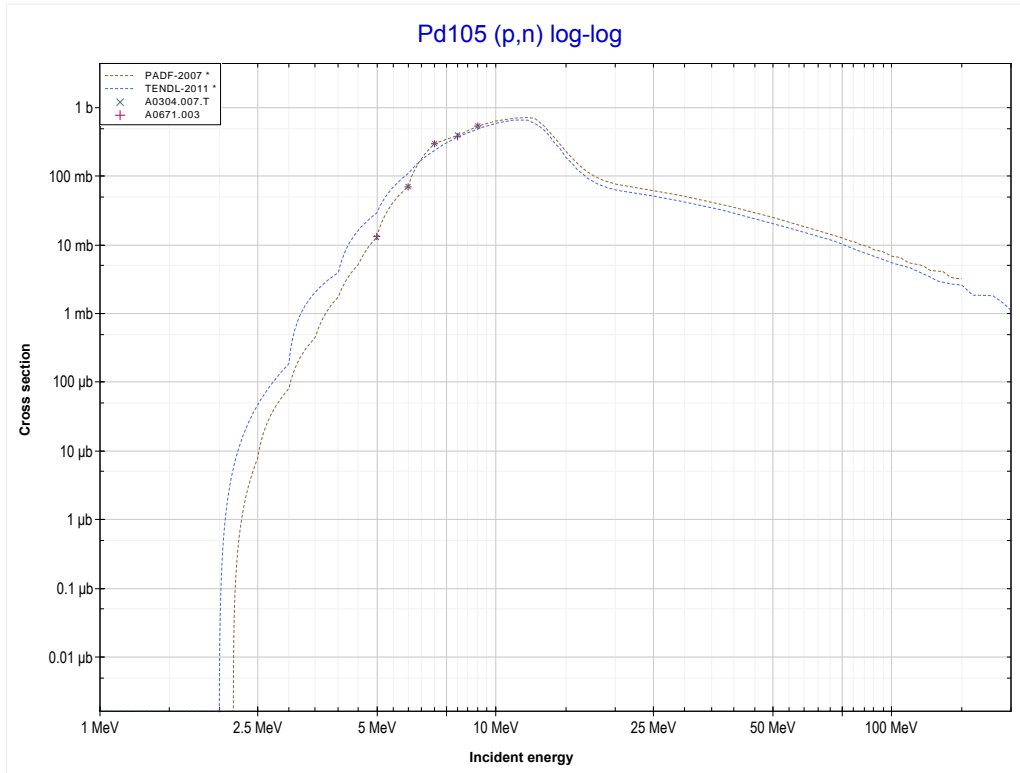
Reaction	Q-Value
Pd104(p,n)Ag104	-5061.35 keV

<< 46-Pd-102	<b>46-Pd-104</b>	46-Pd-105 >>
<< MT4 (p,n)	<b>MT102 (p,<math>\gamma</math>) or MT5 (Ag105 production)</b>	MT4 (p,n) >>



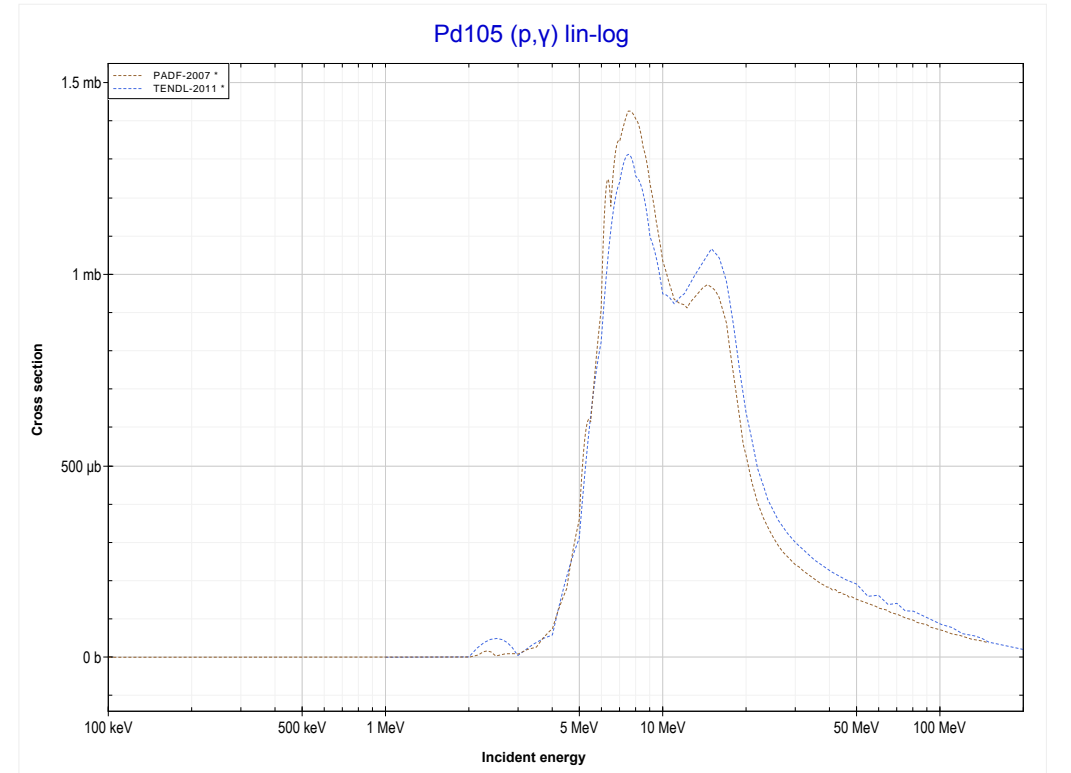
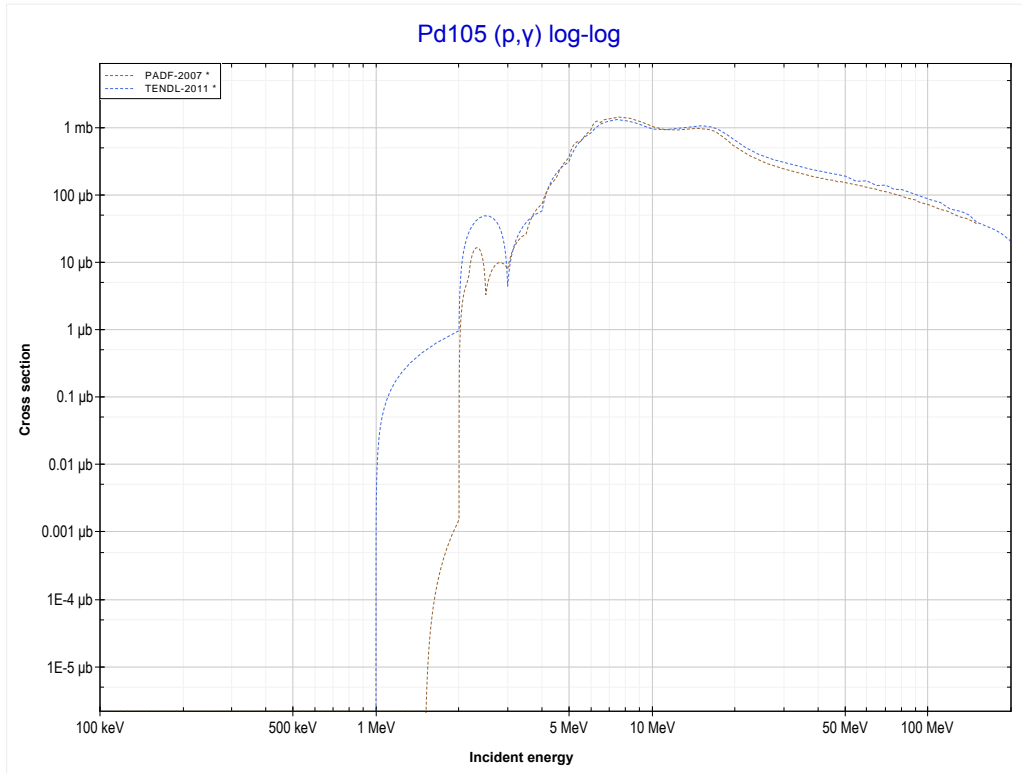
Reaction	Q-Value
Pd104(p, $\gamma$ )Ag105	4966.97 keV

<< 46-Pd-104	<b>46-Pd-105</b>	46-Pd-106 >>
<< MT102 (p, $\gamma$ )	<b>MT4 (p,n) or MT5 (Ag105 production)</b>	MT102 (p, $\gamma$ ) >>



Reaction	Q-Value
Pd105(p,n)Ag105	-2127.35 keV

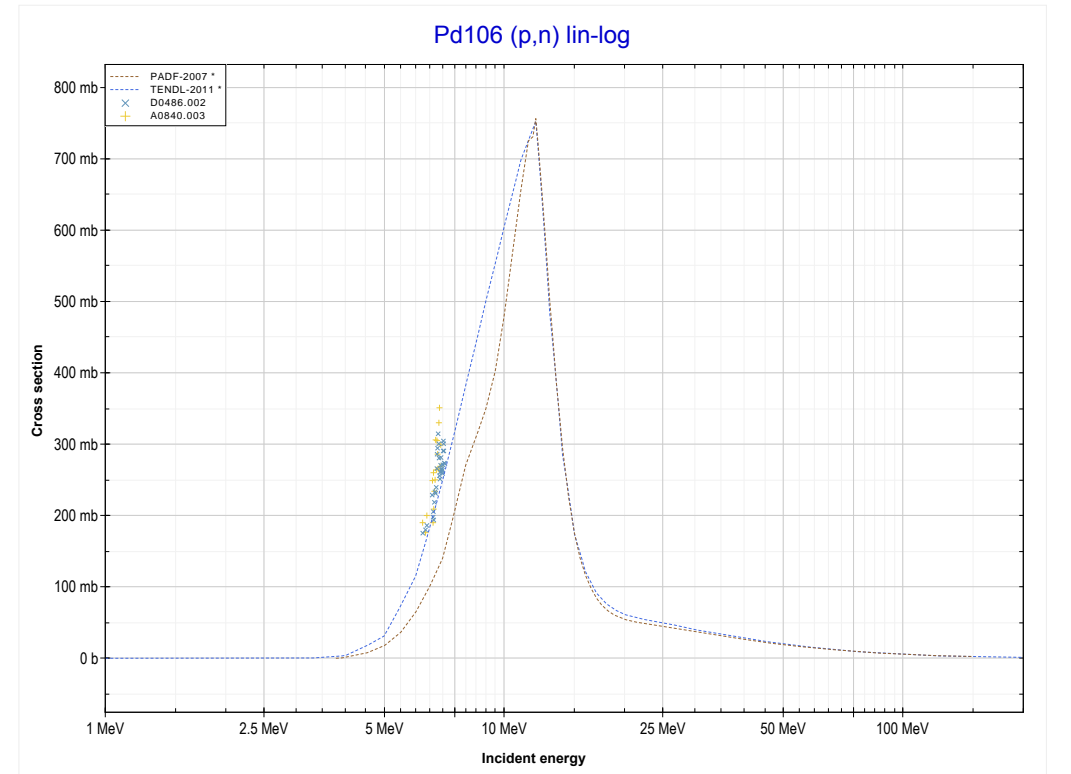
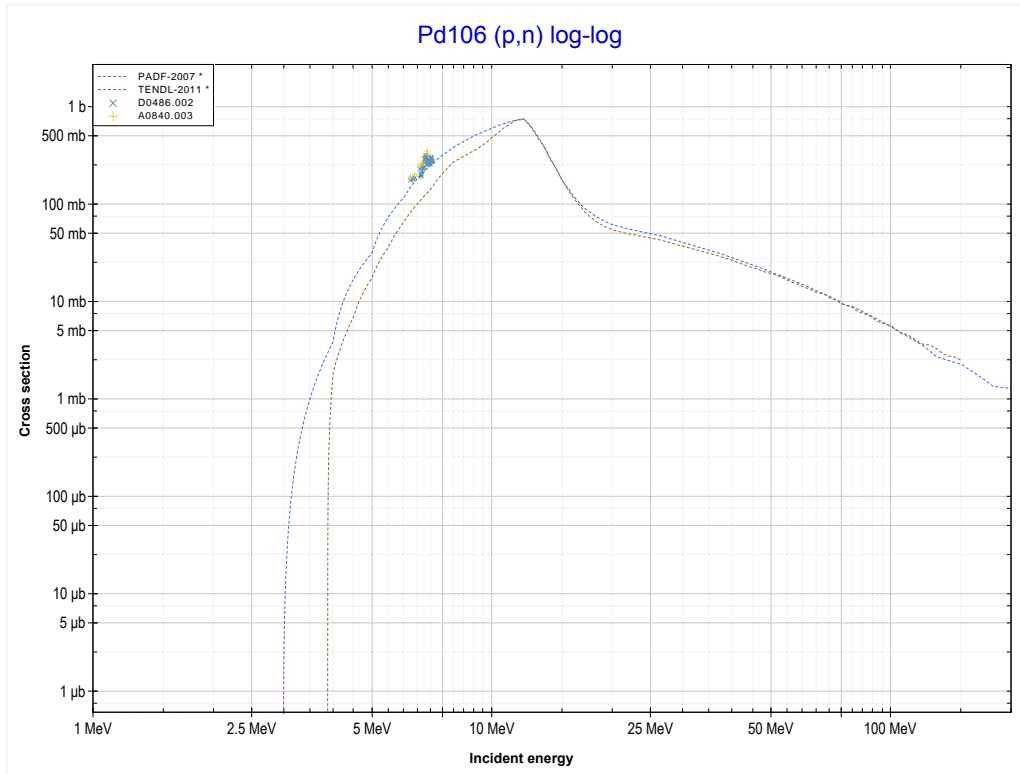
<< 46-Pd-104	<b>46-Pd-105</b>	48-Cd-114 >>
<< MT4 (p,n)	<b>MT102 (p,<math>\gamma</math>) or MT5 (Ag106 production)</b>	MT4 (p,n) >>



Reaction	Q-Value
Pd105(p, $\gamma$ )Ag106	5812.97 keV

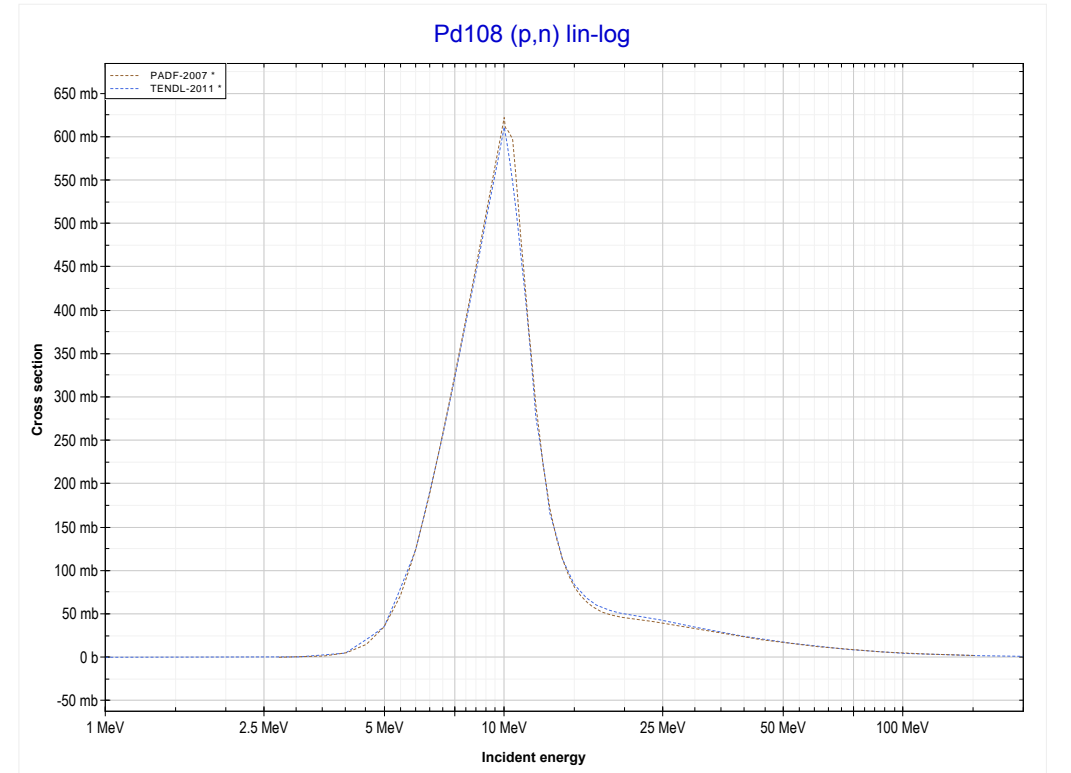
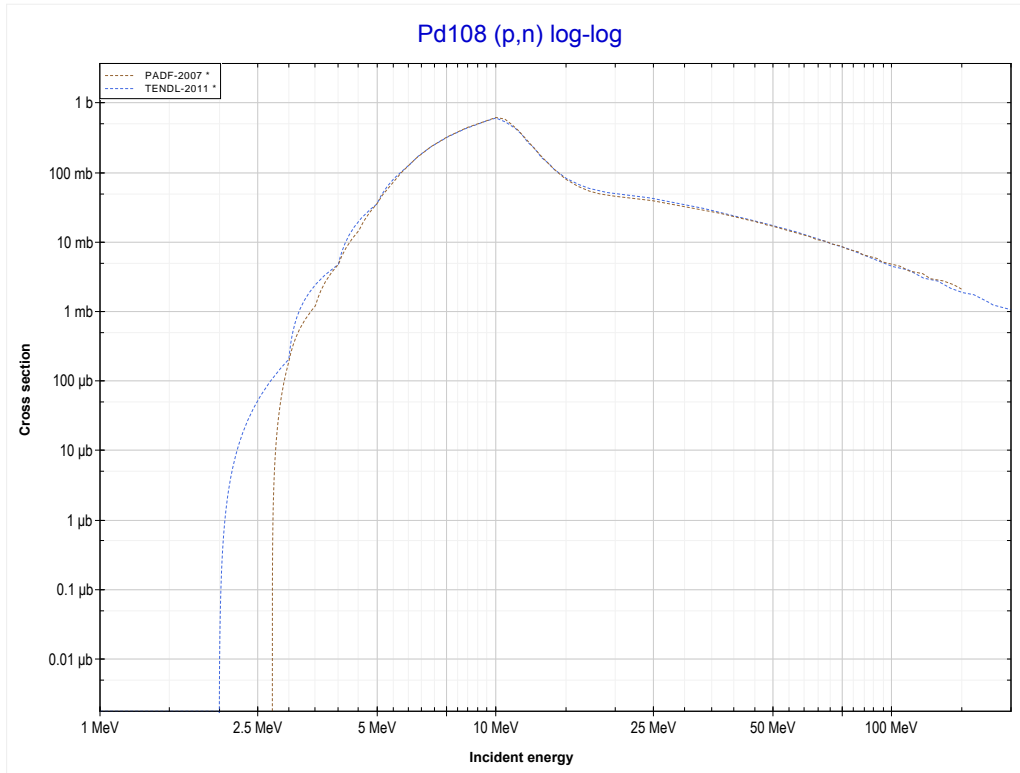


<< 46-Pd-105	<b>46-Pd-106</b>	46-Pd-108 >>
<< MT102 (p, $\gamma$ )	<b>MT4 (p,n) or MT5 (Ag106 production)</b>	MT4 (p,n) >>



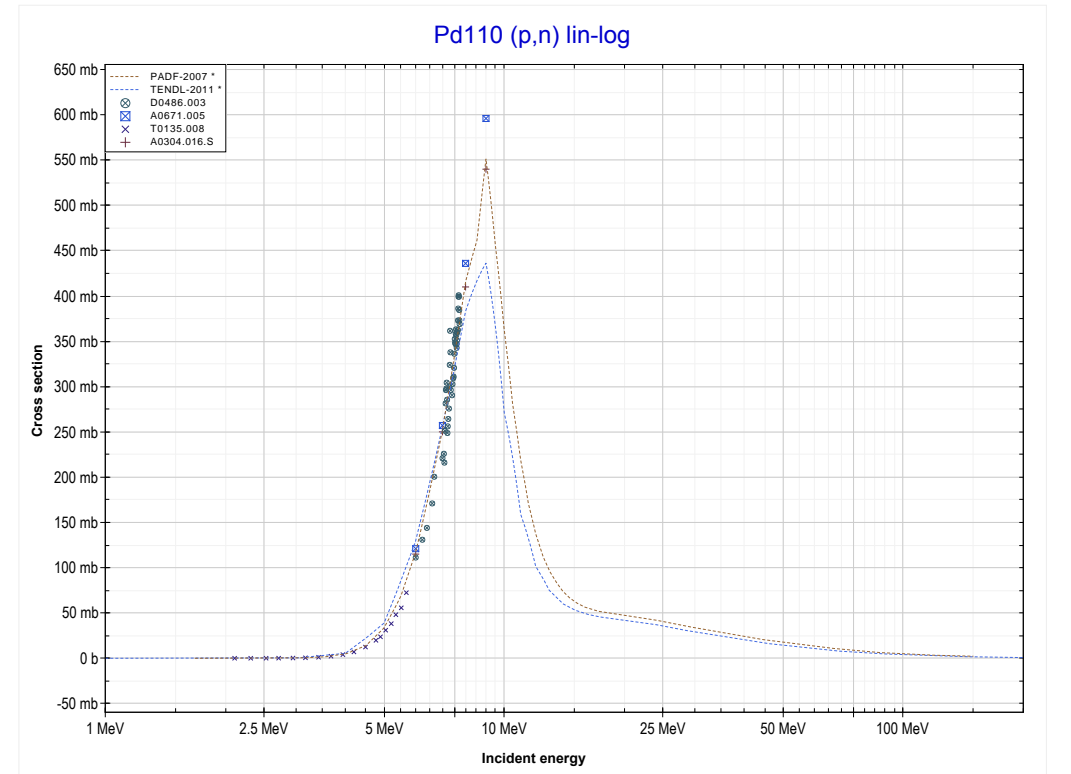
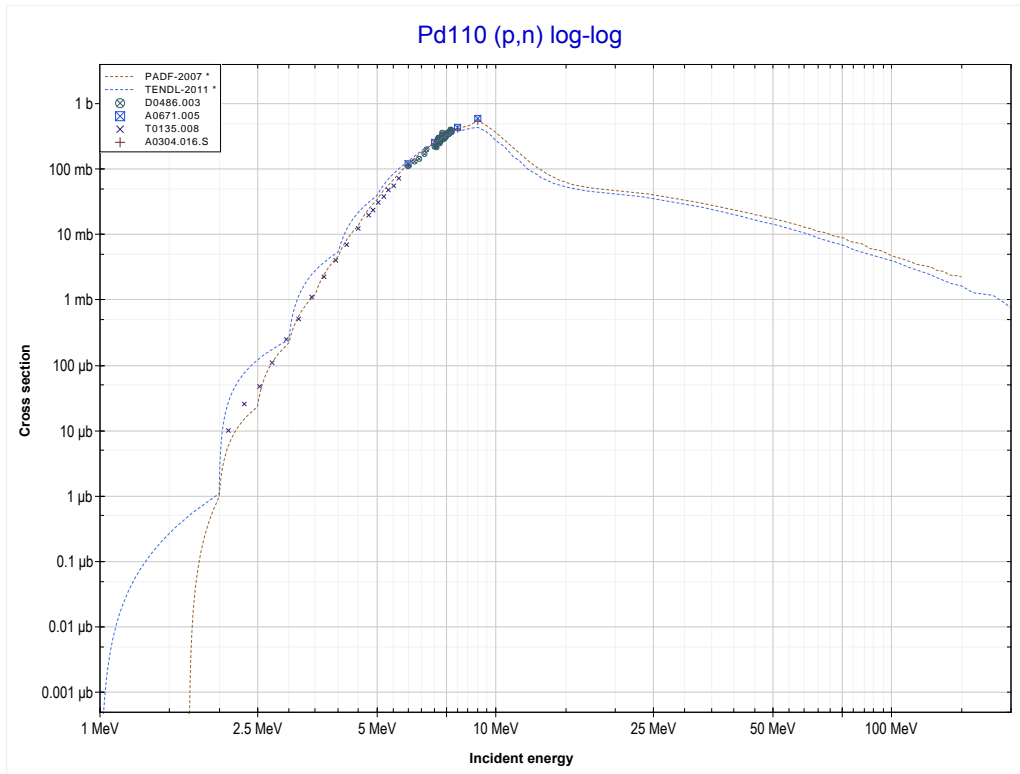
Reaction	Q-Value
Pd106(p,n)Ag106	-3747.35 keV

<< 46-Pd-106	<b>46-Pd-108</b>	46-Pd-110 >>
<< MT4 (p,n)	<b>MT4 (p,n) or MT5 (Ag108 production)</b>	MT4 (p,n) >>



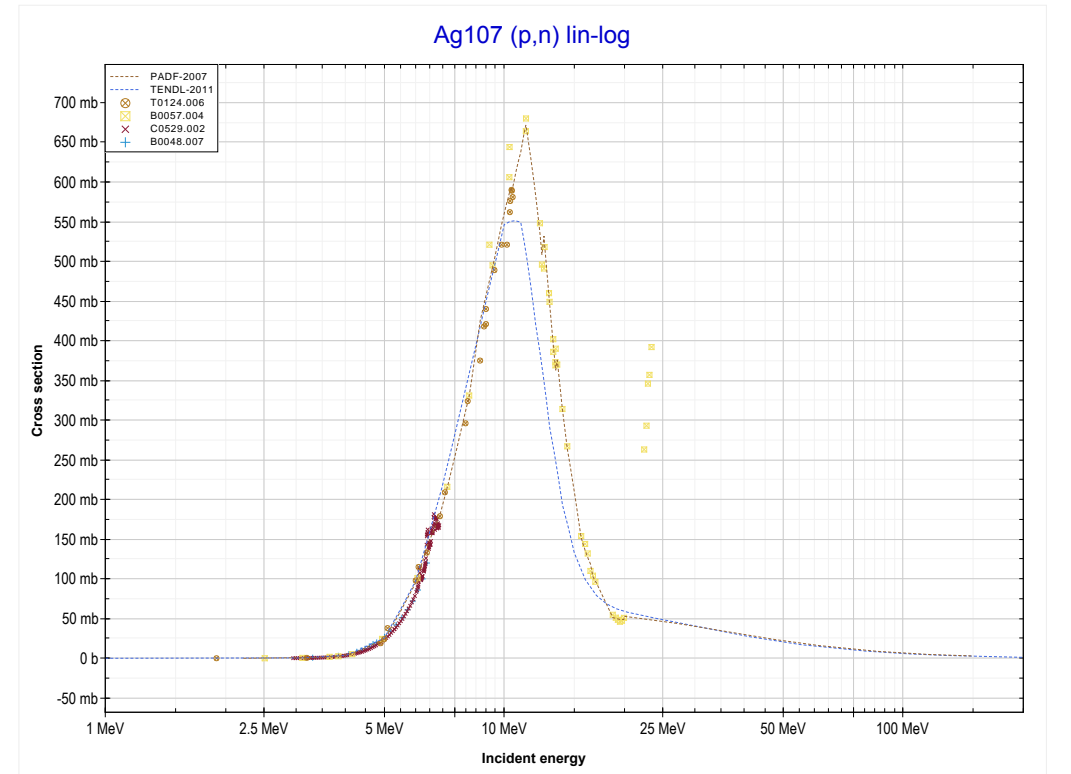
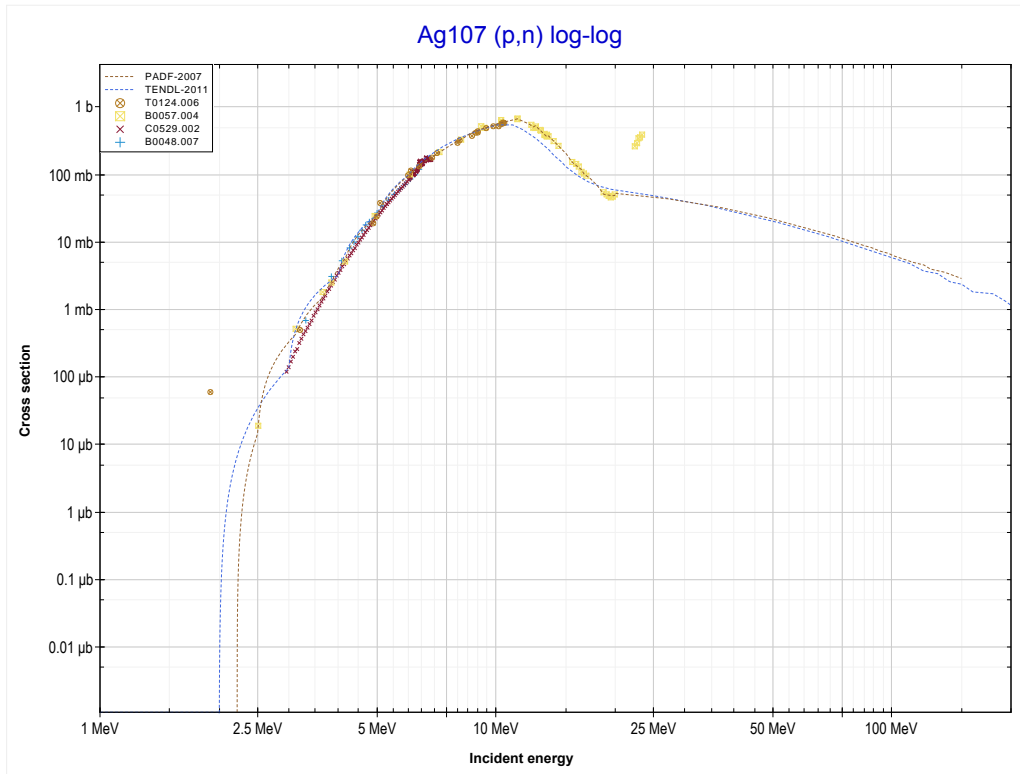
Reaction	Q-Value
Pd108(p,n)Ag108	-2704.35 keV

<< 46-Pd-108	<b>46-Pd-110</b>	47-Ag-107 >>
<< MT4 (p,n)	<b>MT4 (p,n) or MT5 (Ag110 production)</b>	MT4 (p,n) >>



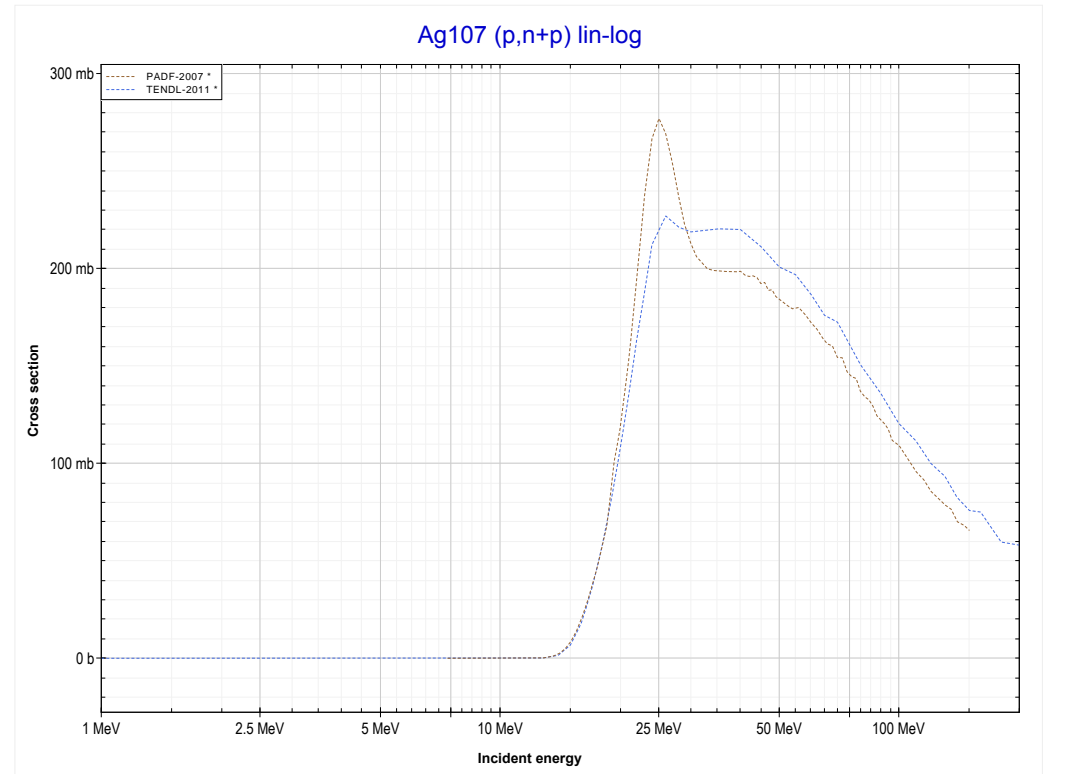
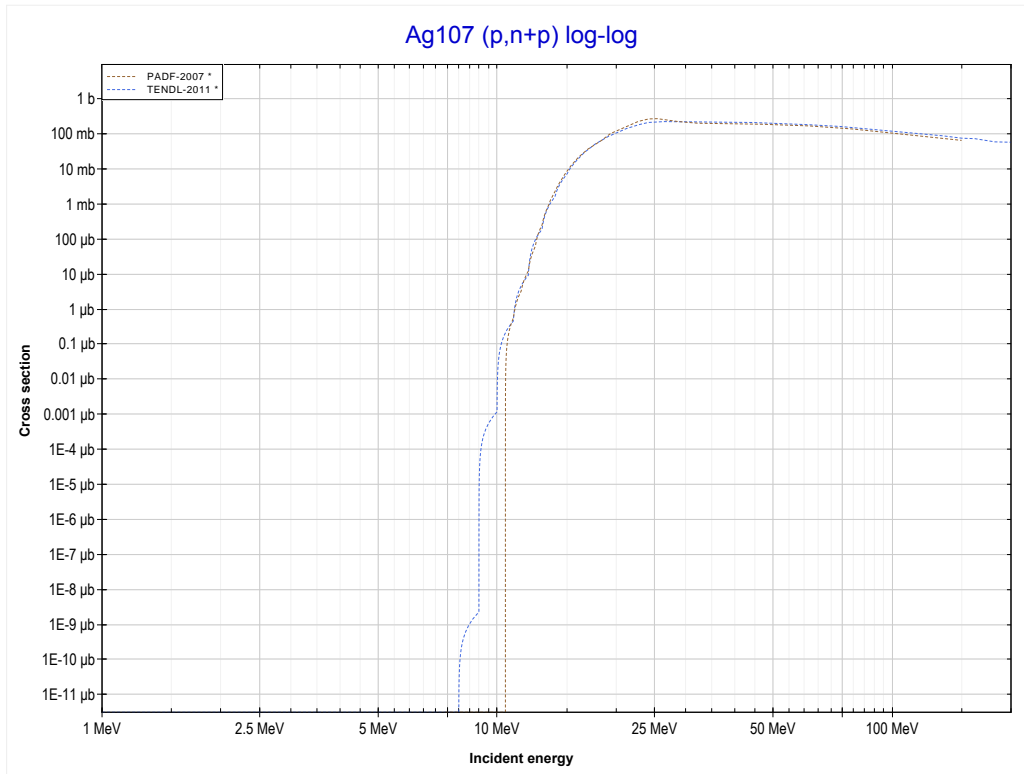
Reaction	Q-Value
Pd110(p,n)Ag110	-1670.75 keV

<< 46-Pd-110	<b>47-Ag-107</b>	47-Ag-109 >>
<< MT4 (p,n)	<b>MT4 (p,n) or MT5 (Cd107 production)</b>	MT28 (p,n+p) >>



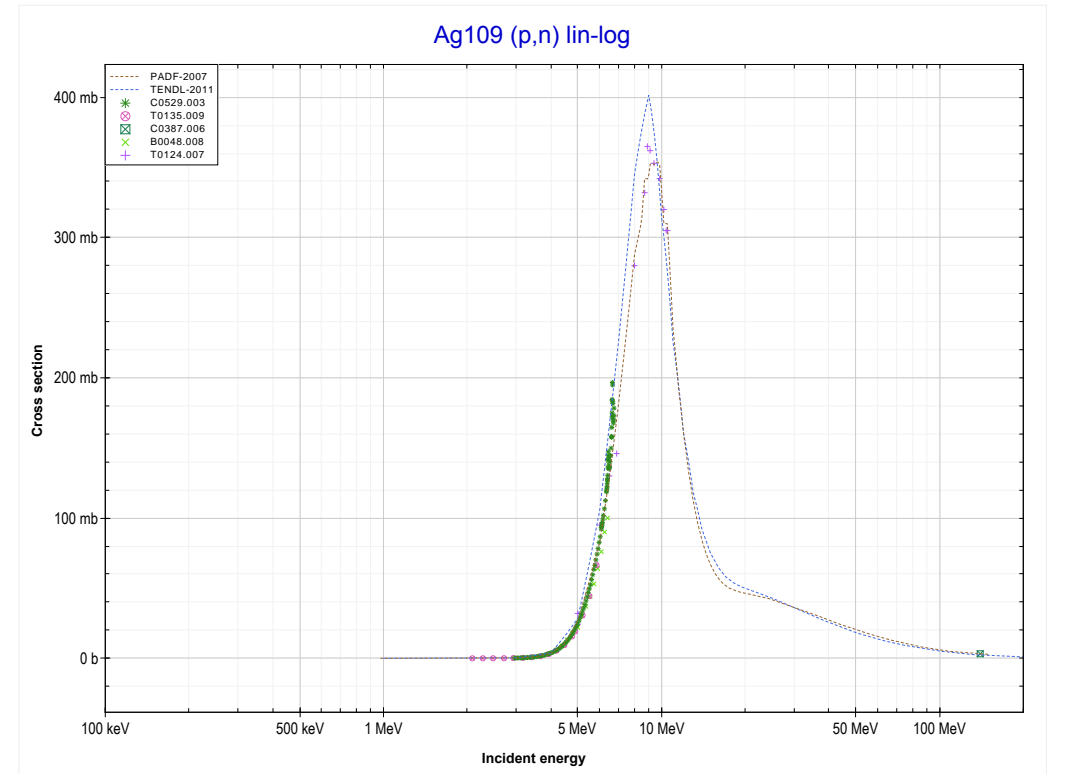
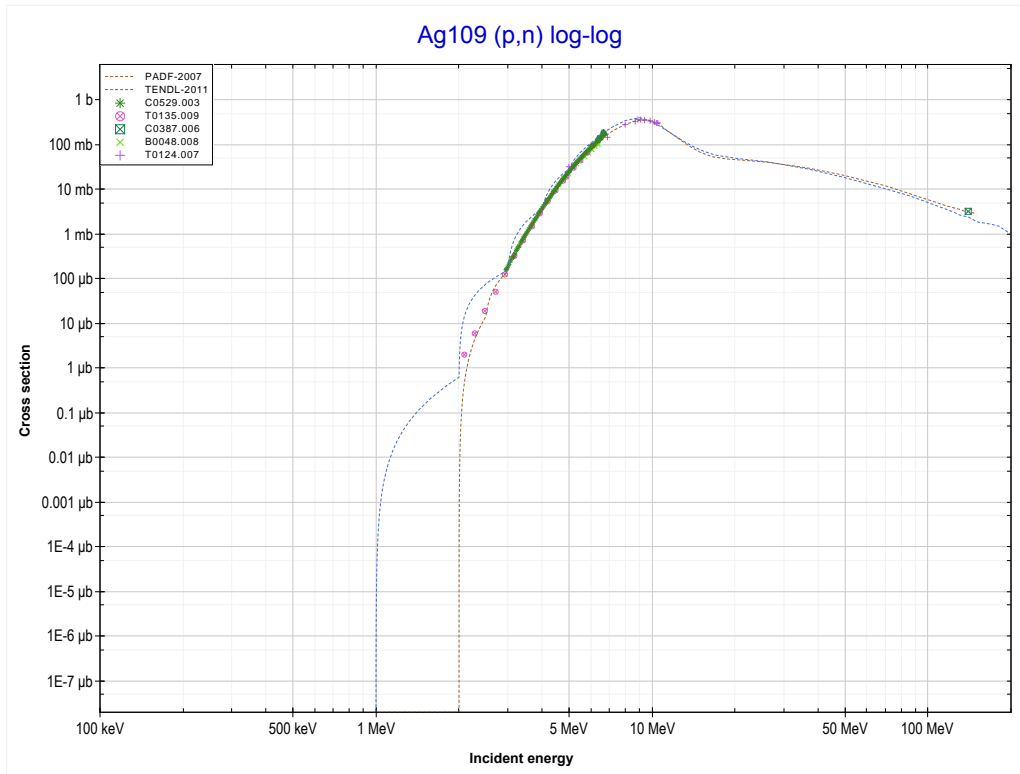
Reaction	Q-Value
Ag107(p,n)Cd107	-2199.35 keV

<< 42-Mo-100	<b>47-Ag-107</b>	48-Cd-106 >>
<< MT4 (p,n)	<b>MT28 (p,n+p) or MT5 (Ag106 production)</b>	MT4 (p,n) >>



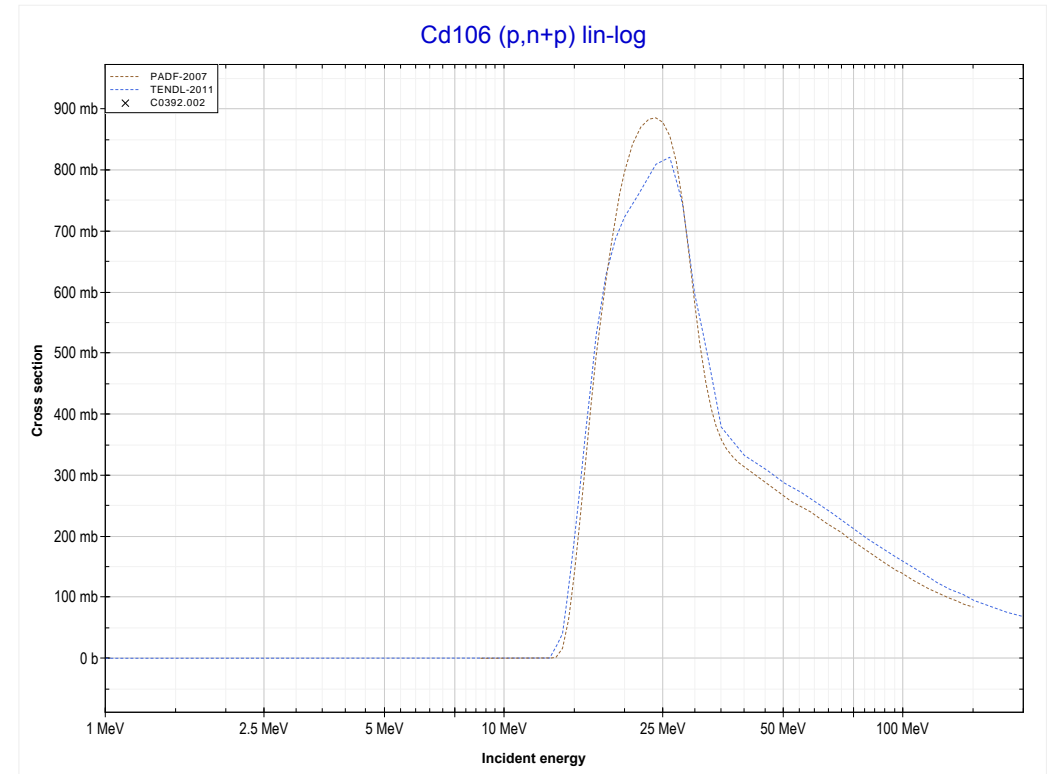
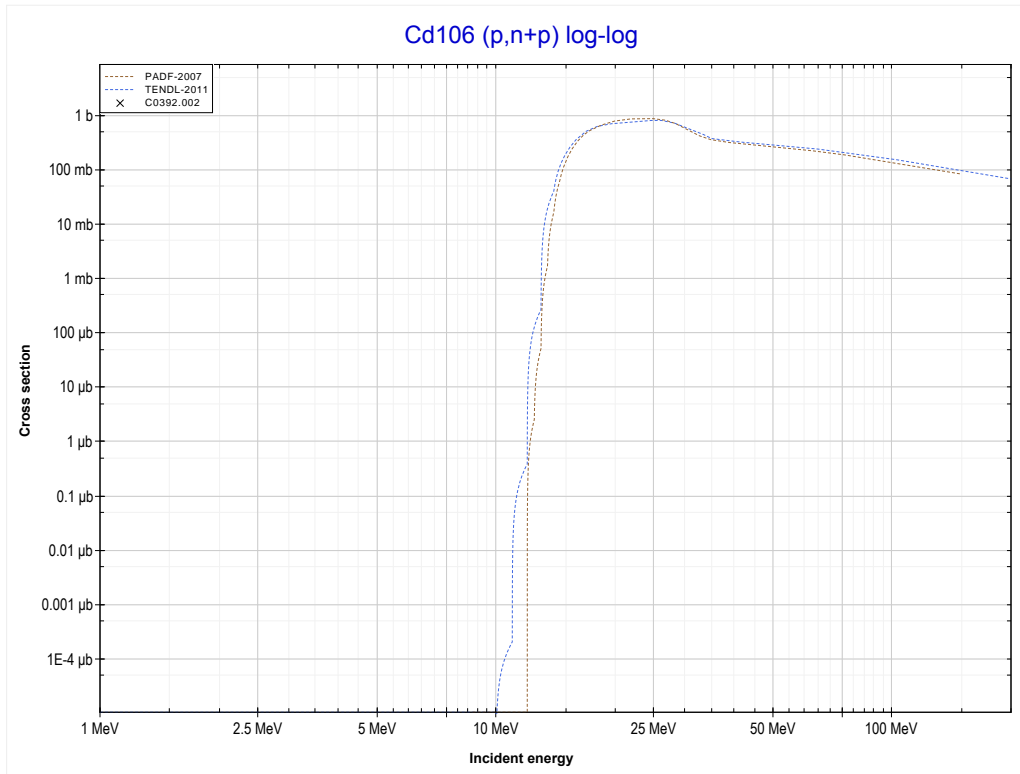
Reaction	Q-Value
Ag107(p,d)Ag106	-7311.75 keV
Ag107(p,n+p)Ag106	-9536.32 keV

<< 47-Ag-107	<b>47-Ag-109</b>	48-Cd-110 >>
<< MT28 (p,n+p)	<b>MT4 (p,n) or MT5 (Cd109 production)</b>	MT28 (p,n+p) >>



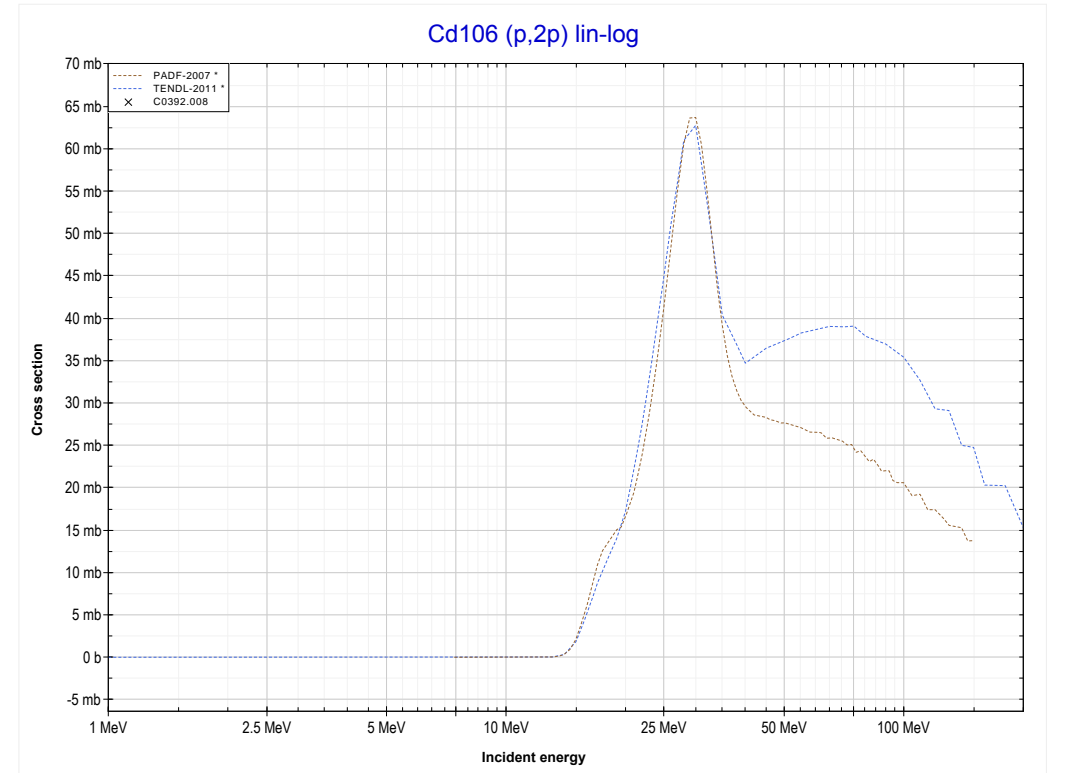
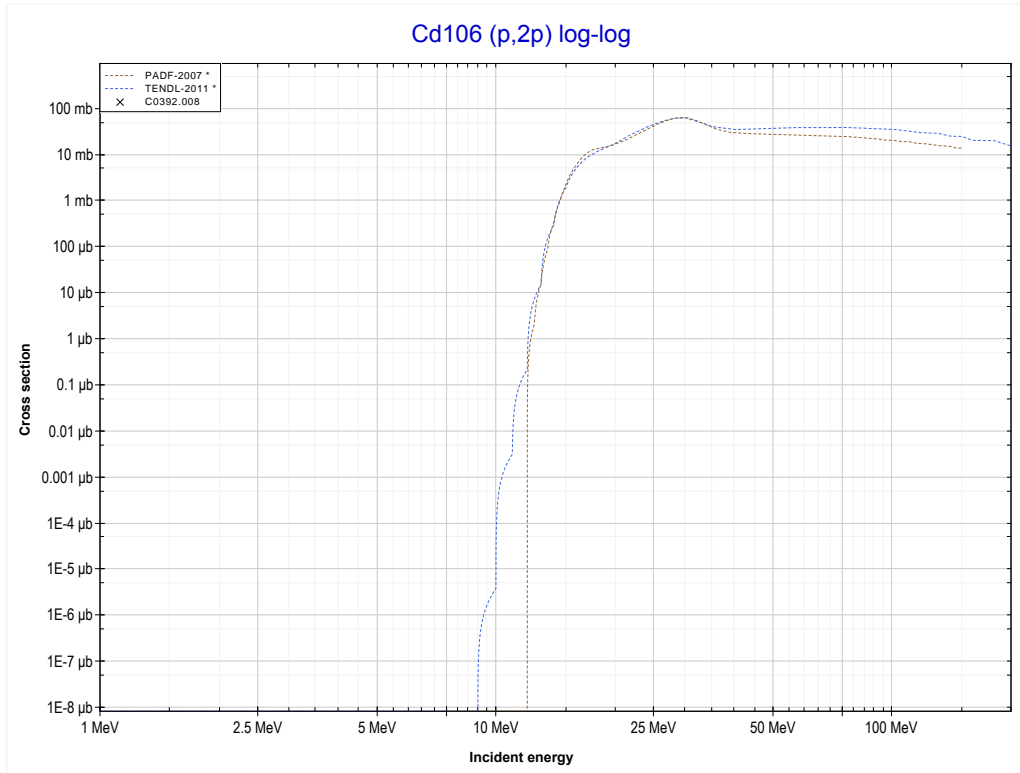
Reaction	Q-Value
Ag109(p,n)Cd109	-997.05 keV

<< 47-Ag-107	<b>48-Cd-106</b>	48-Cd-108 >>
<< MT4 (p,n)	<b>MT28 (p,n+p) or MT5 (Cd105 production)</b>	MT111 (p,2p) >>



Reaction	Q-Value
Cd106(p,d)Cd105	-8648.75 keV
Cd106(p,n+p)Cd105	-10873.32 keV

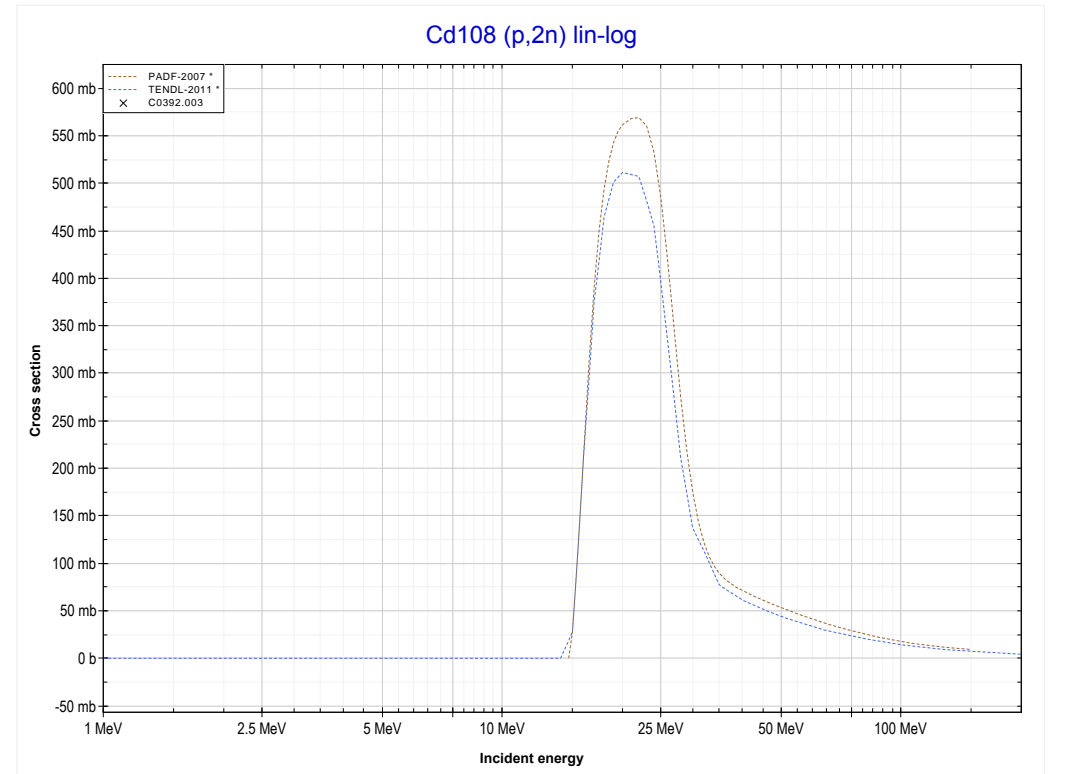
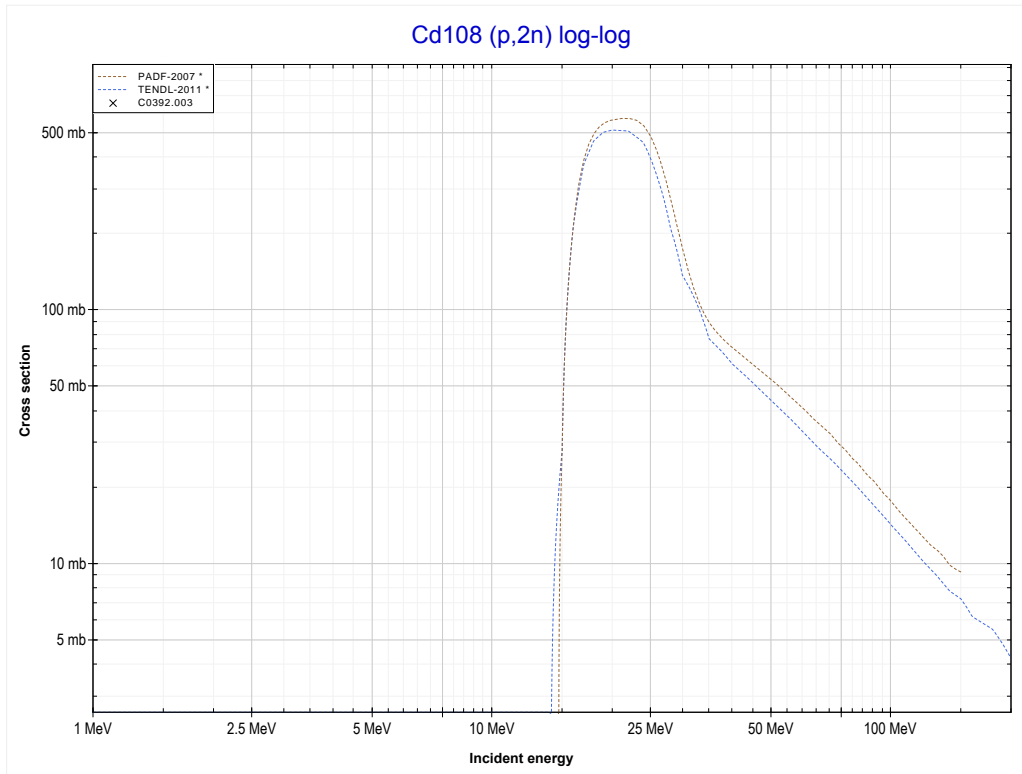
<< 42-Mo-98	<b>48-Cd-106</b>	48-Cd-112 >>
<< MT28 (p,n+p)	<b>MT111 (p,2p) or MT5 (Ag105 production)</b>	MT16 (p,2n) >>



Reaction	Q-Value
Cd106(p,2p)Ag105	-7352.97 keV

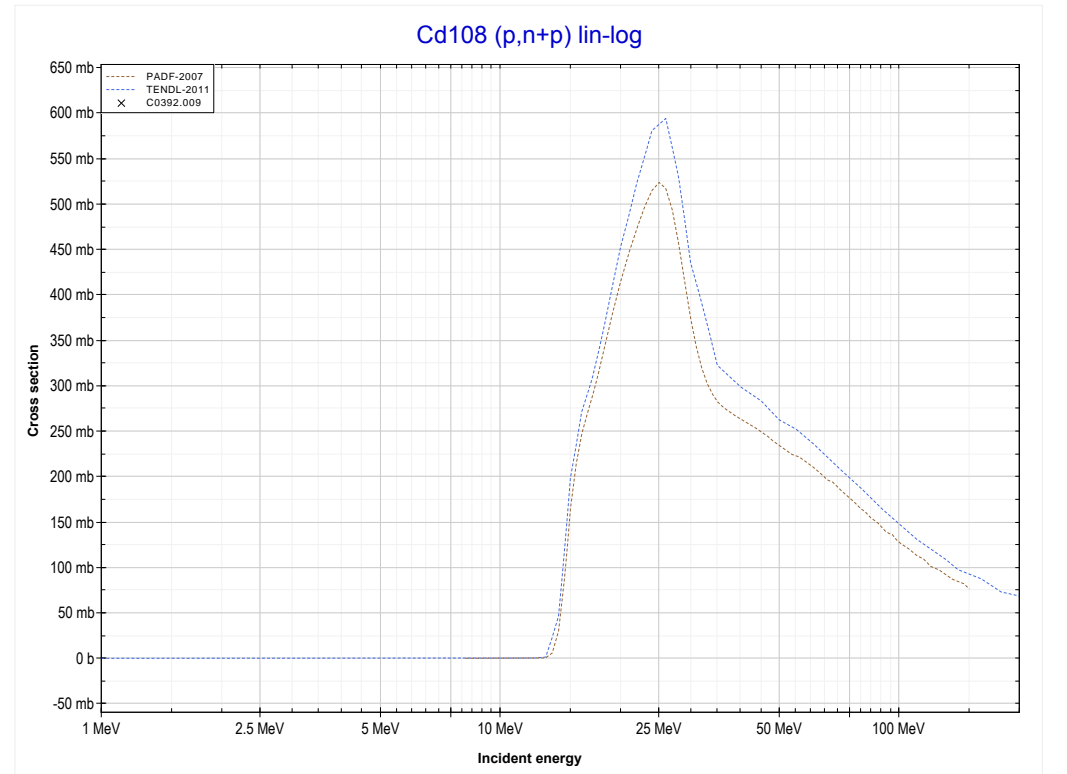
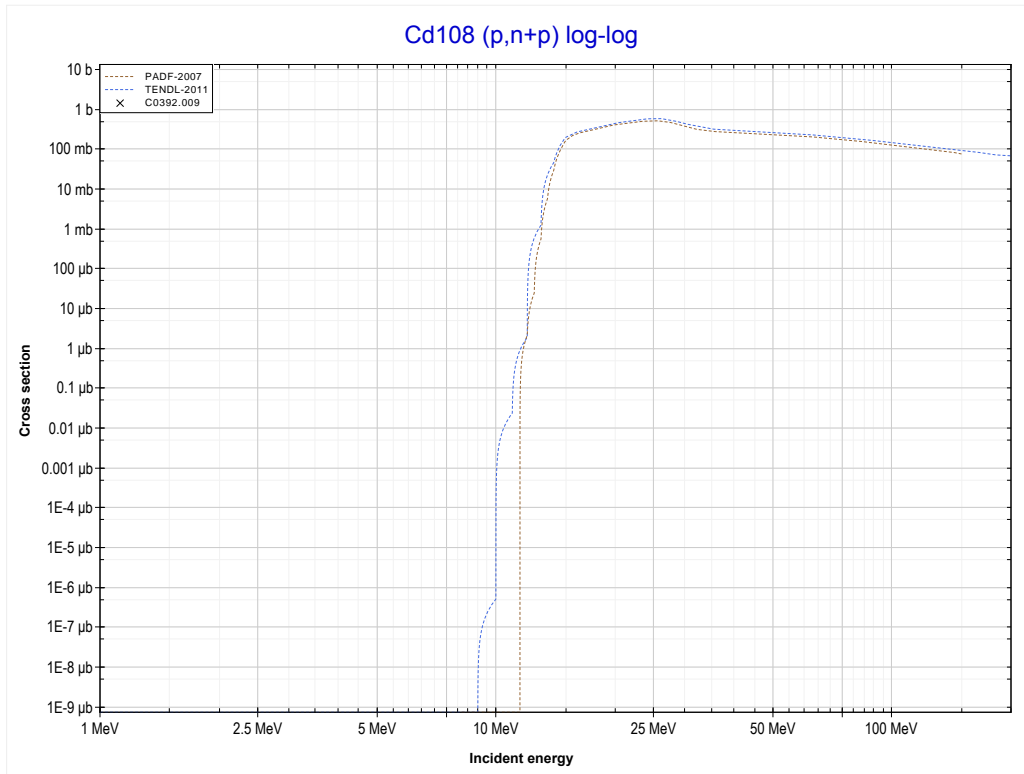


<< 42-Mo-100	<b>48-Cd-108</b>	48-Cd-110 >>
<< MT111 (p,2p)	<b>MT16 (p,2n) or MT5 (In107 production)</b>	MT28 (p,n+p) >>



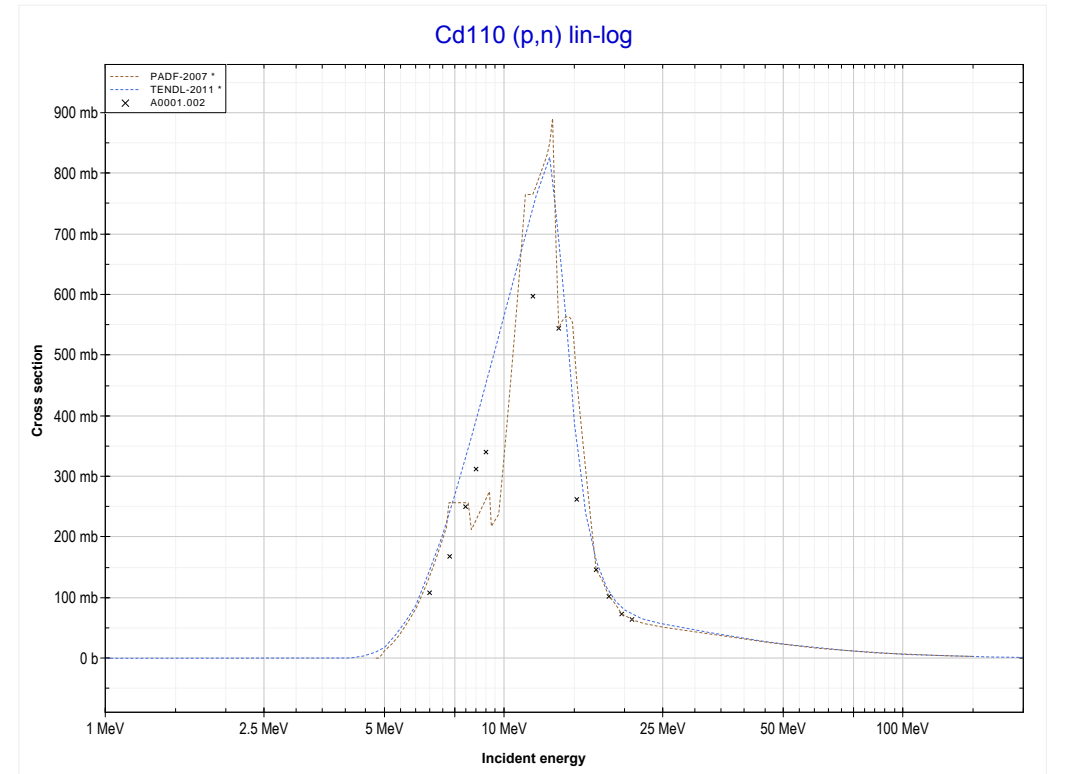
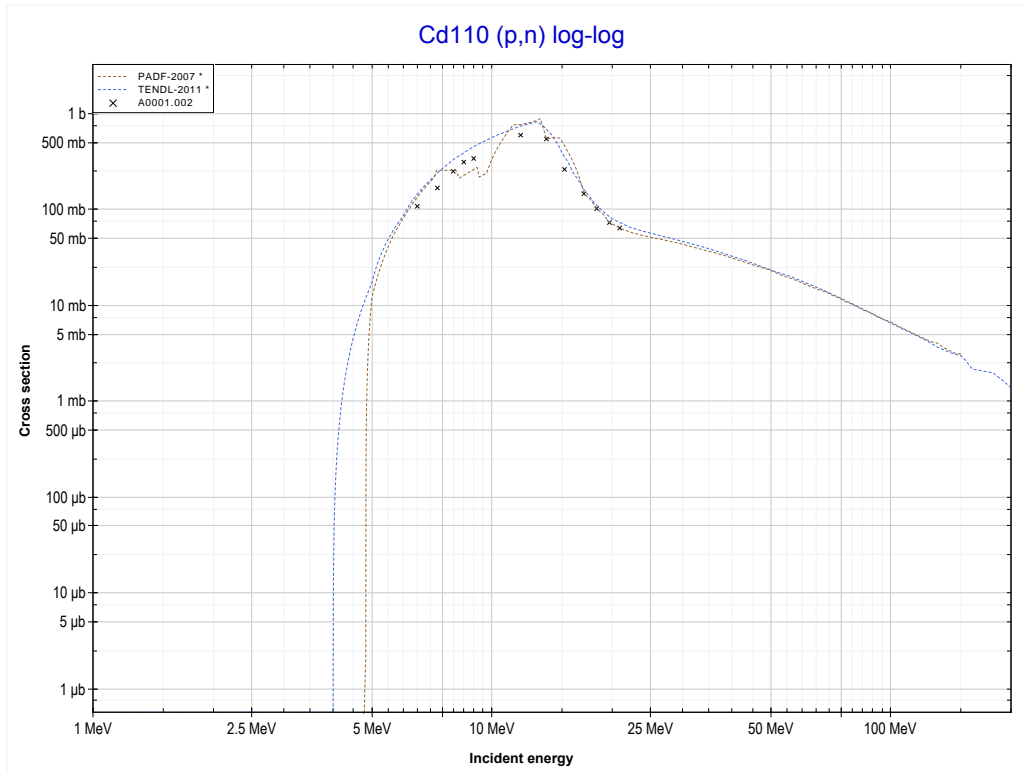
Reaction	Q-Value
Cd108(p,2n)In107	-14545.66 keV

<< 48-Cd-106	<b>48-Cd-108</b>	48-Cd-110 >>
<< MT16 (p,2n)	<b>MT28 (p,n+p) or MT5 (Cd107 production)</b>	MT4 (p,n) >>



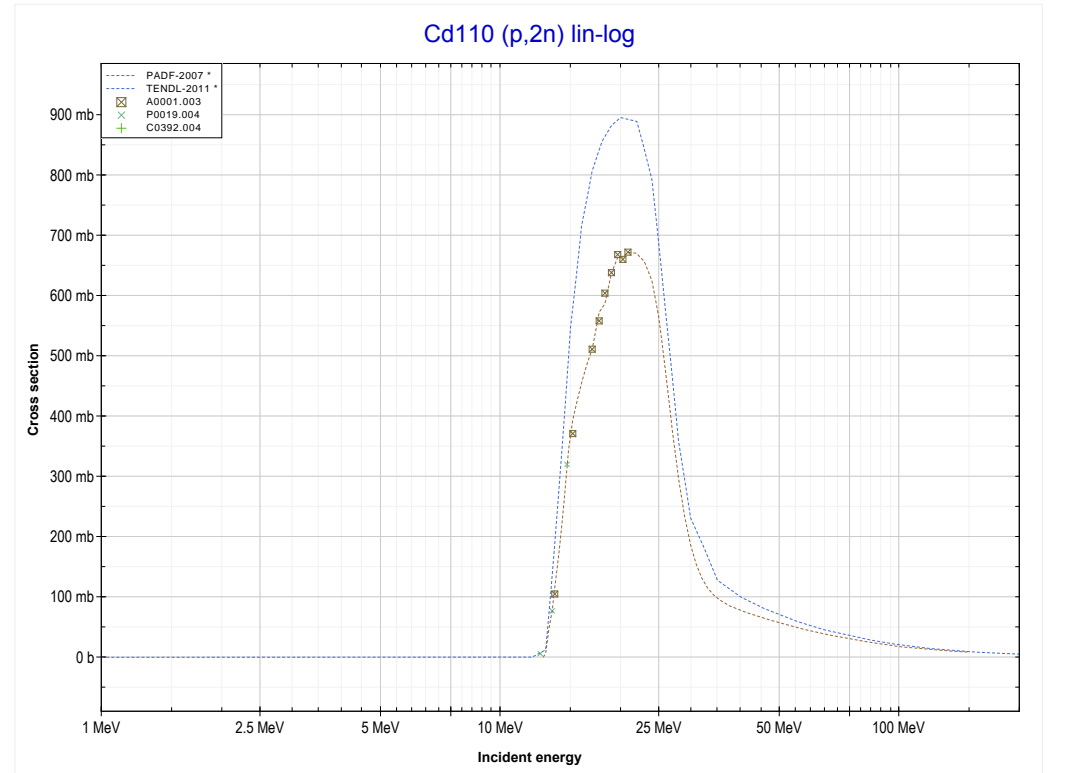
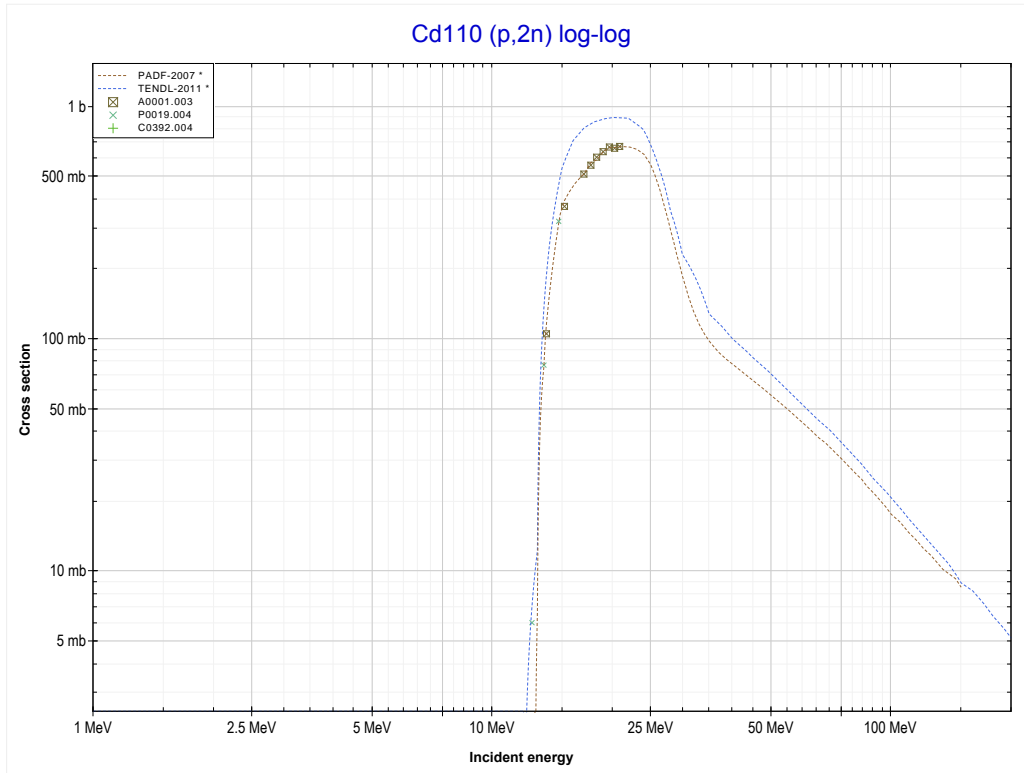
Reaction	Q-Value
Cd108(p,d)Cd107	-8113.75 keV
Cd108(p,n+p)Cd107	-10338.32 keV

<< 47-Ag-109	<b>48-Cd-110</b>	48-Cd-111 >>
<< MT28 (p,n+p)	<b>MT4 (p,n) or MT5 (In110 production)</b>	MT16 (p,2n) >>



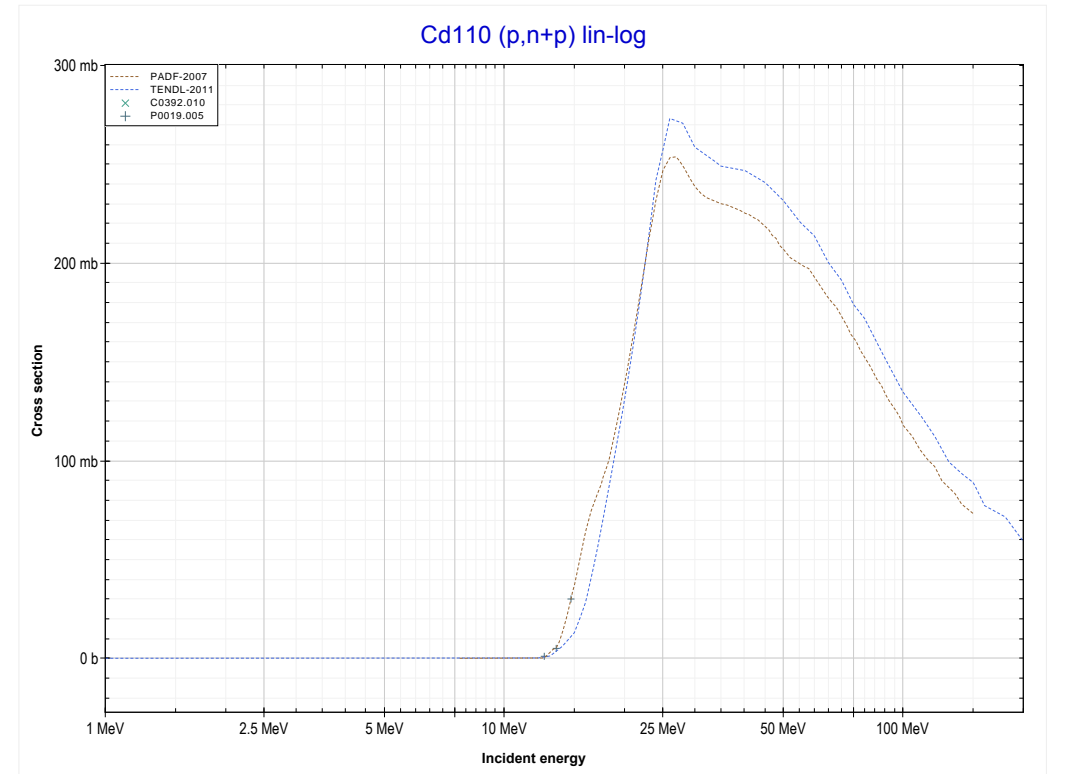
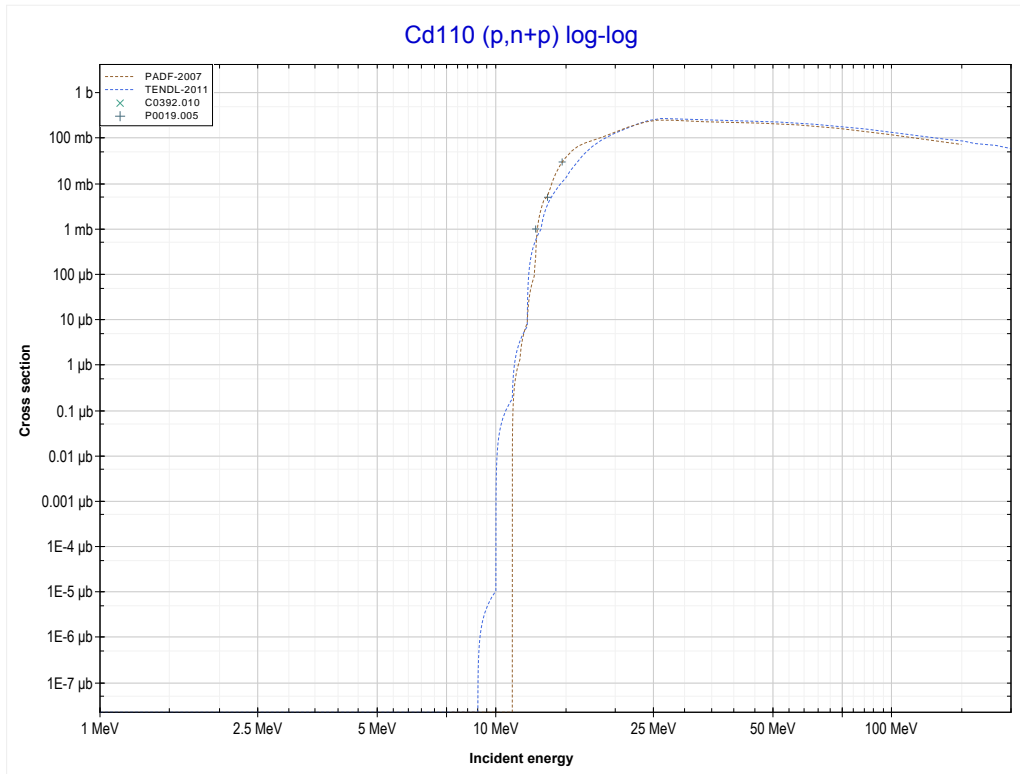
Reaction	Q-Value
Cd110(p,n)In110	-4660.35 keV

<< 48-Cd-108	<b>48-Cd-110</b>	48-Cd-111 >>
<< MT4 (p,n)	<b>MT16 (p,2n) or MT5 (In109 production)</b>	MT28 (p,n+p) >>



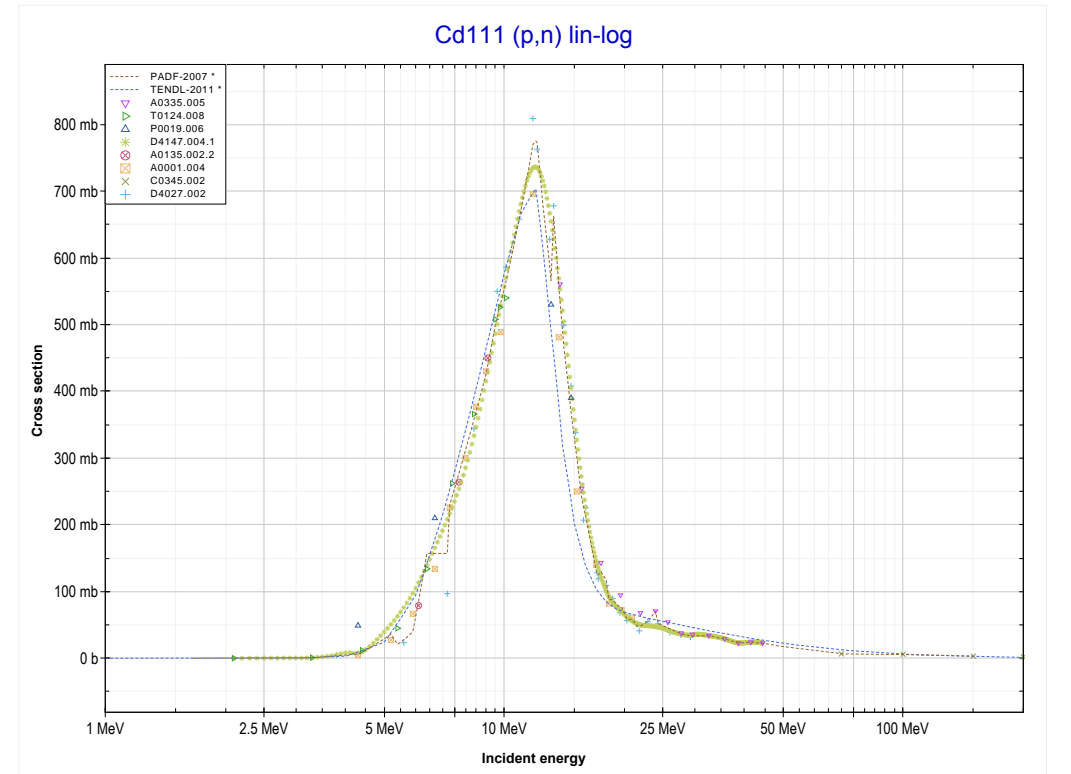
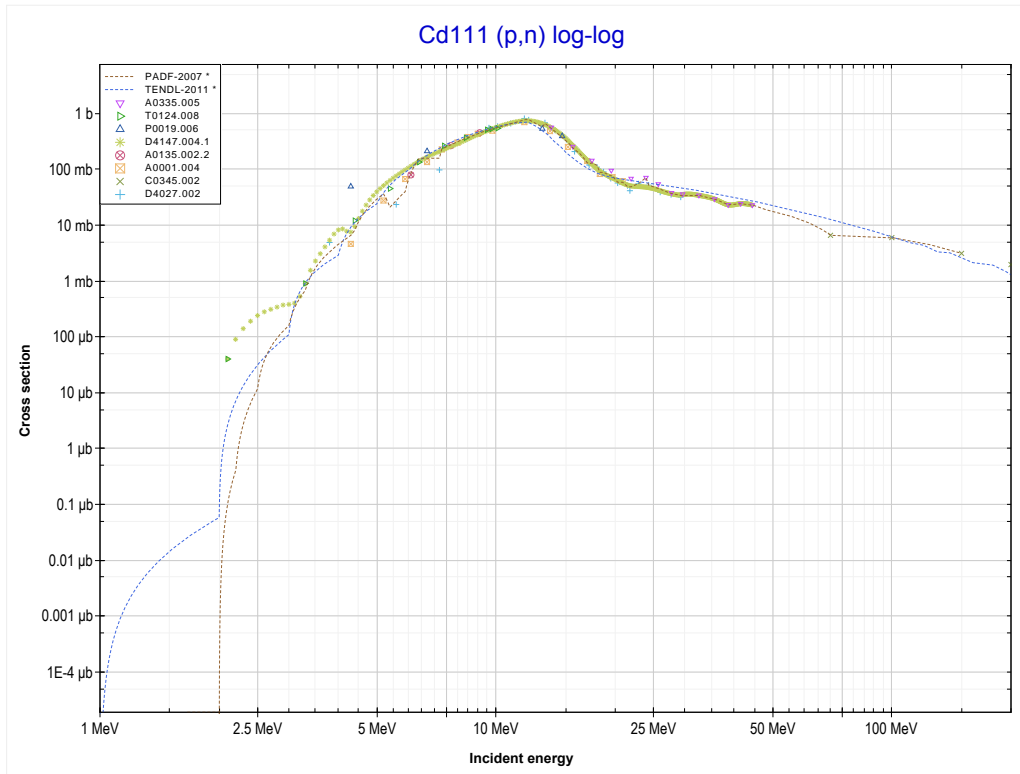
Reaction	Q-Value
Cd110(p,2n)In109	-12717.66 keV

<< 48-Cd-108	<b>48-Cd-110</b>	49-In-115 >>
<< MT16 (p,2n)	<b>MT28 (p,n+p) or MT5 (Cd109 production)</b>	MT4 (p,n) >>



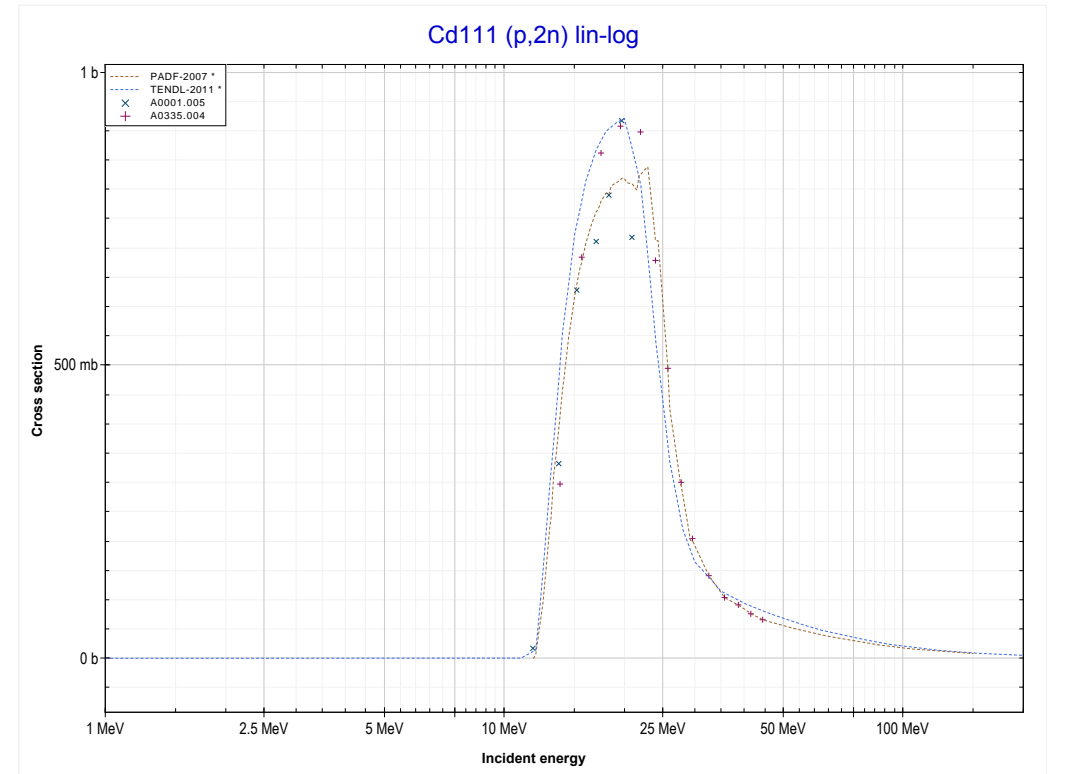
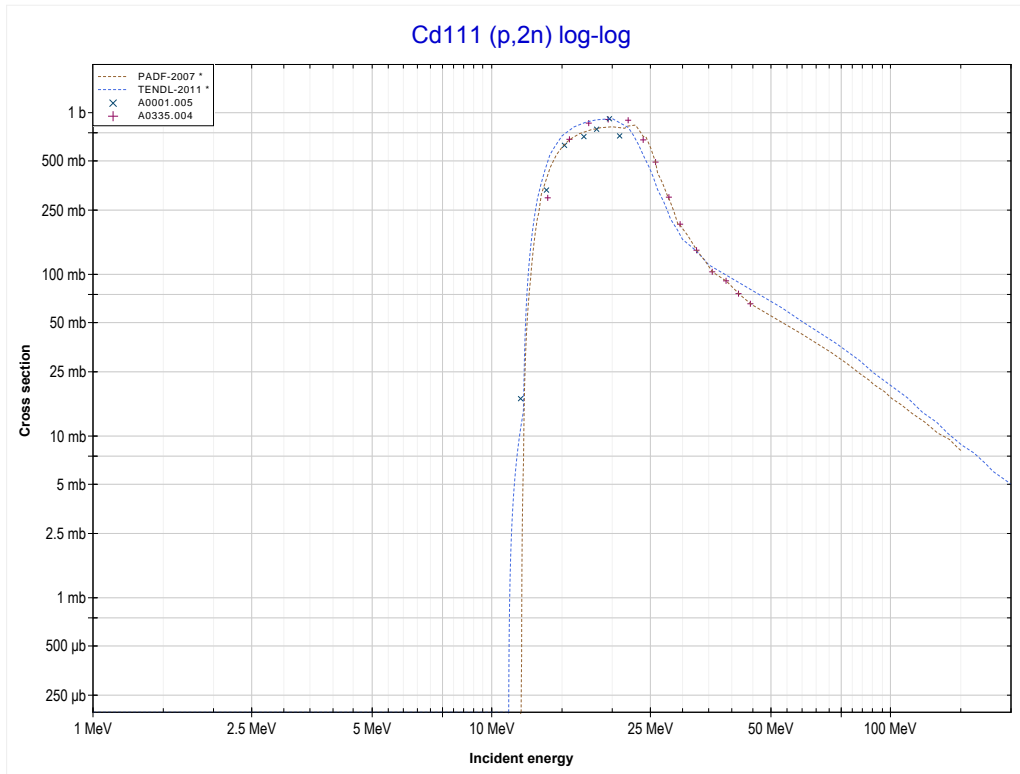
Reaction	Q-Value
Cd110(p,d)Cd109	-7691.75 keV
Cd110(p,n+p)Cd109	-9916.32 keV

<< 48-Cd-110	<b>48-Cd-111</b>	48-Cd-112 >>
<< MT28 (p,n+p)	<b>MT4 (p,n) or MT5 (In111 production)</b>	MT16 (p,2n) >>



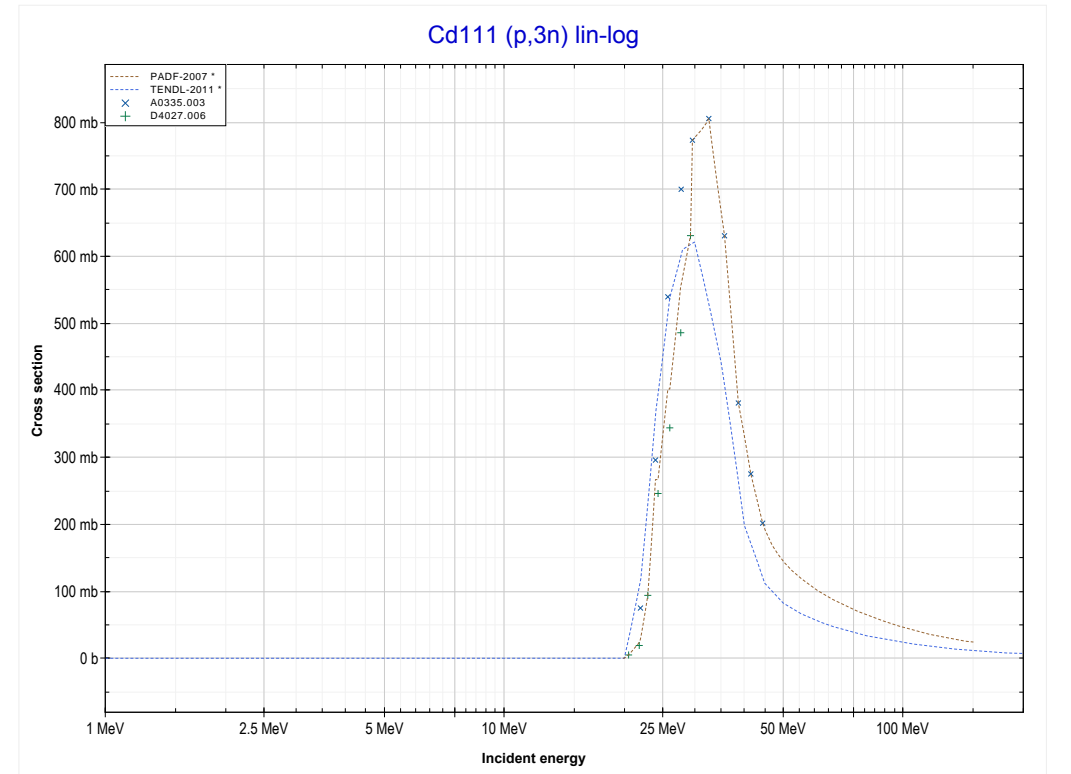
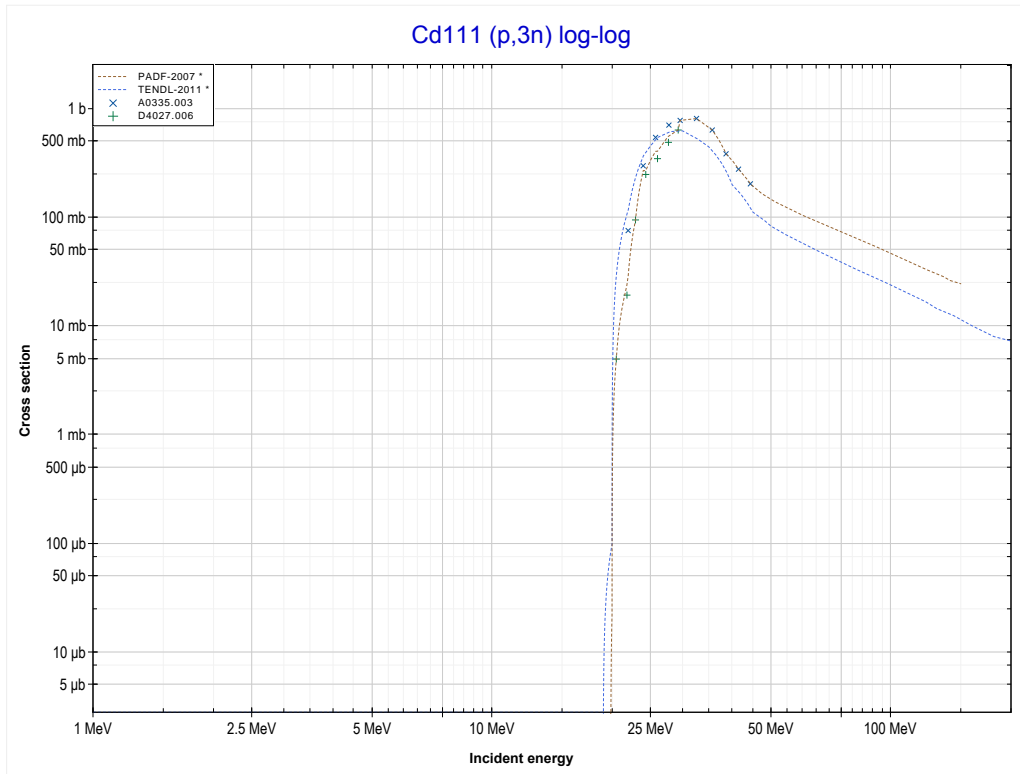
Reaction	Q-Value
Cd111(p,n)In111	-1643.85 keV

<< 48-Cd-110	<b>48-Cd-111</b>	48-Cd-112 >>
<< MT4 (p,n)	<b>MT16 (p,2n) or MT5 (In110 production)</b>	MT17 (p,3n) >>



Reaction	Q-Value
Cd111(p,2n)In110	-11636.16 keV

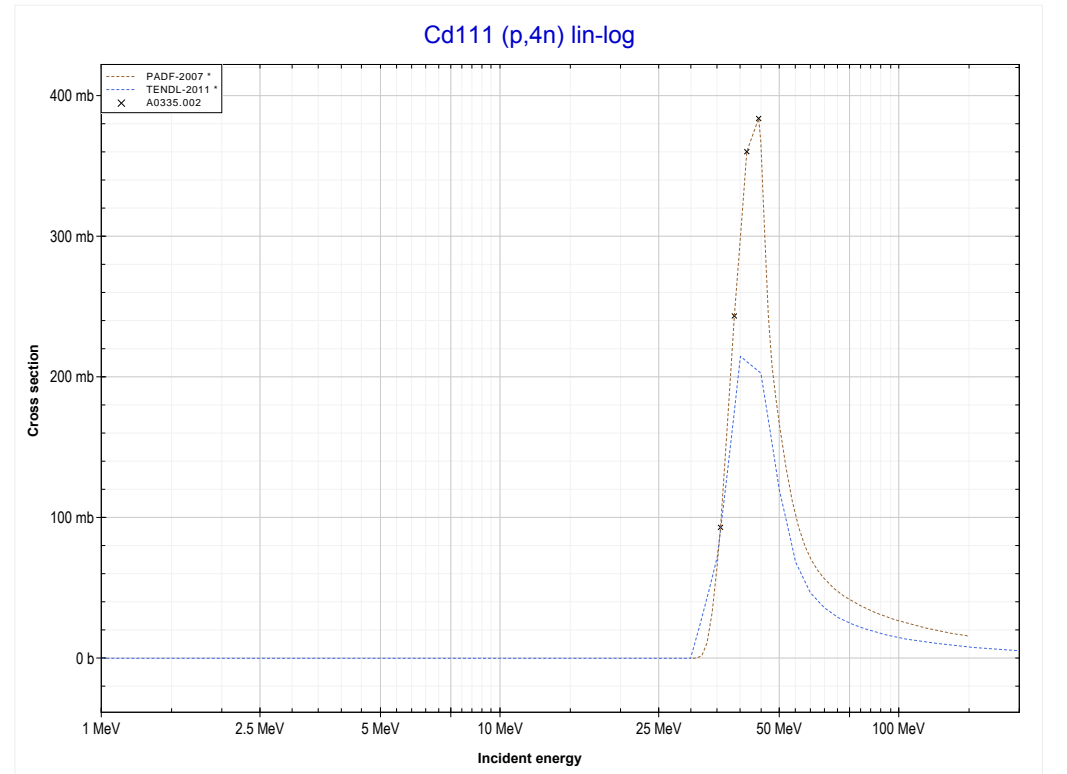
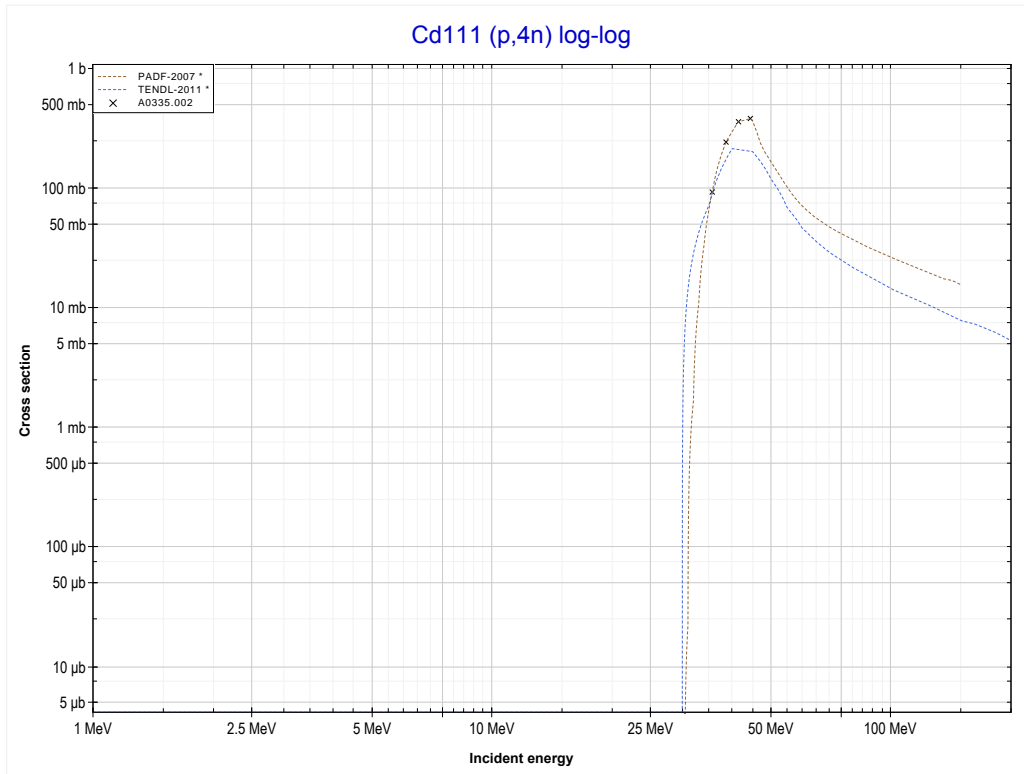
<< 45-Rh-103	<b>48-Cd-111</b>	48-Cd-112 >>
<< MT16 (p,2n)	<b>MT17 (p,3n) or MT5 (In109 production)</b>	MT37 (p,4n) >>



Reaction	Q-Value
Cd111(p,3n)In109	-19693.48 keV

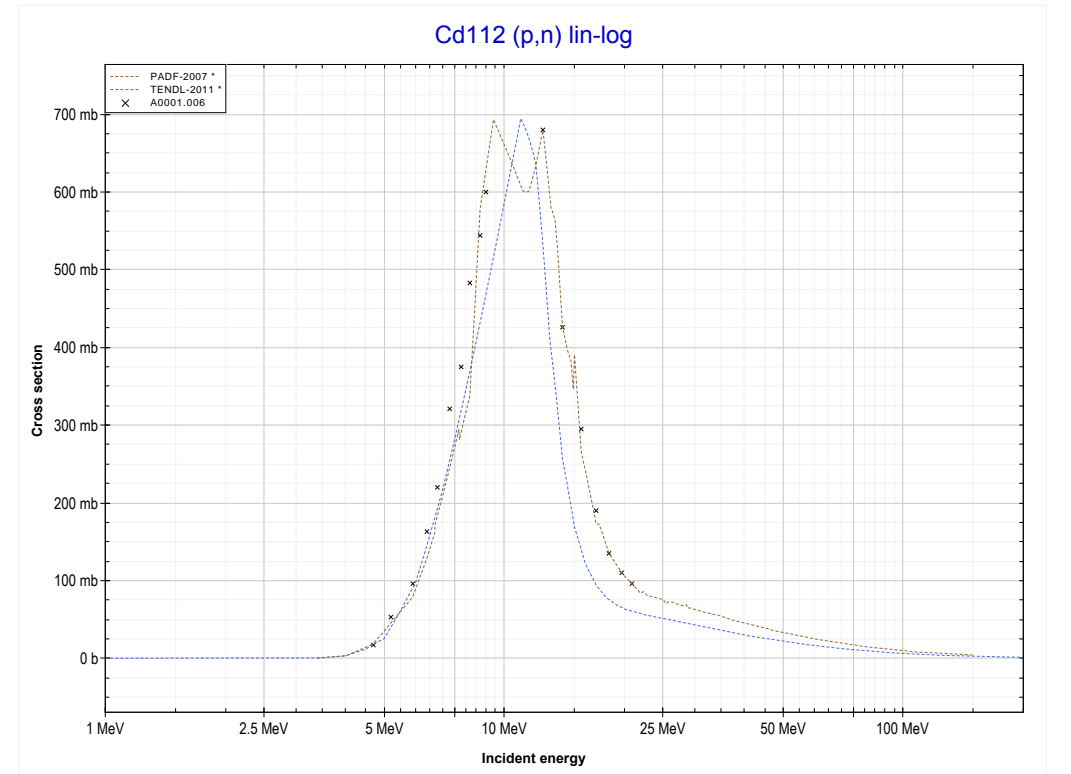
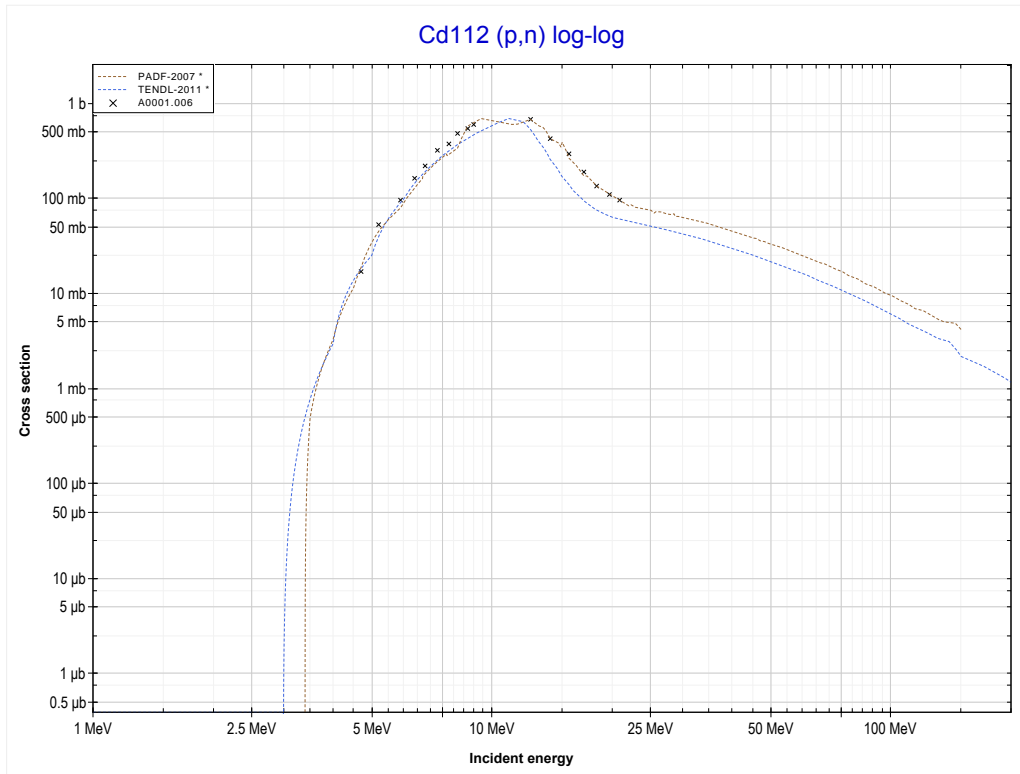


<< 45-Rh-103	<b>48-Cd-111</b>	48-Cd-114 >>
<< MT17 (p,3n)	<b>MT37 (p,4n) or MT5 (In108 production)</b>	MT4 (p,n) >>



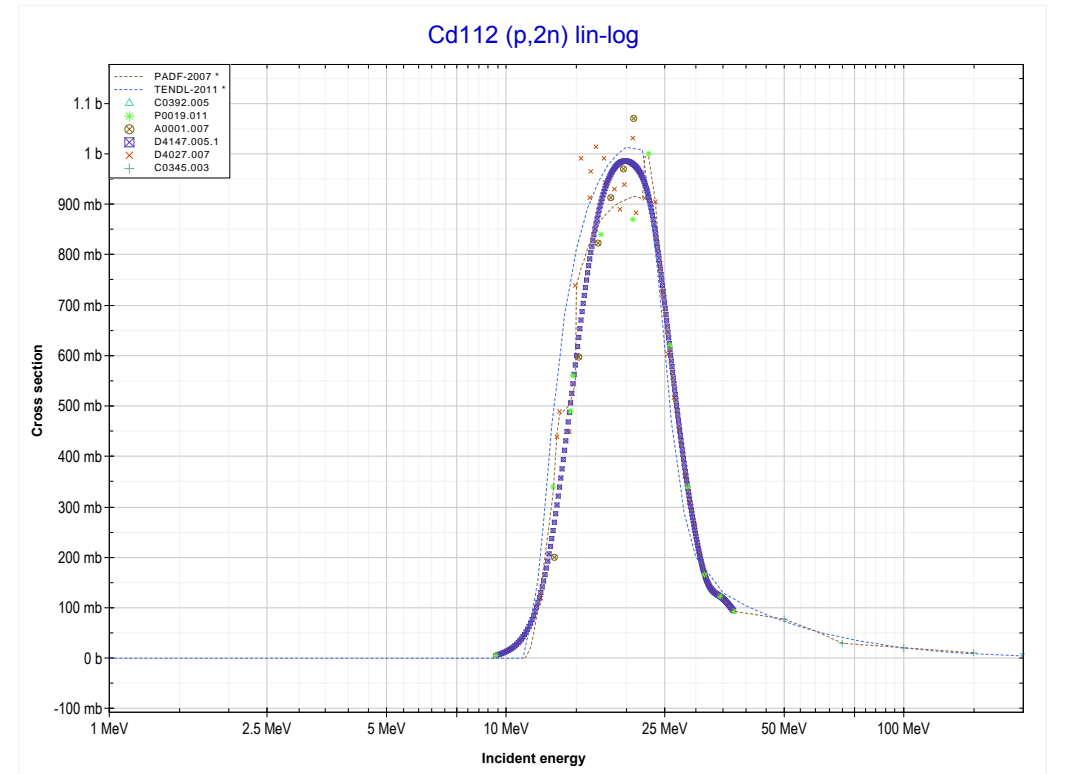
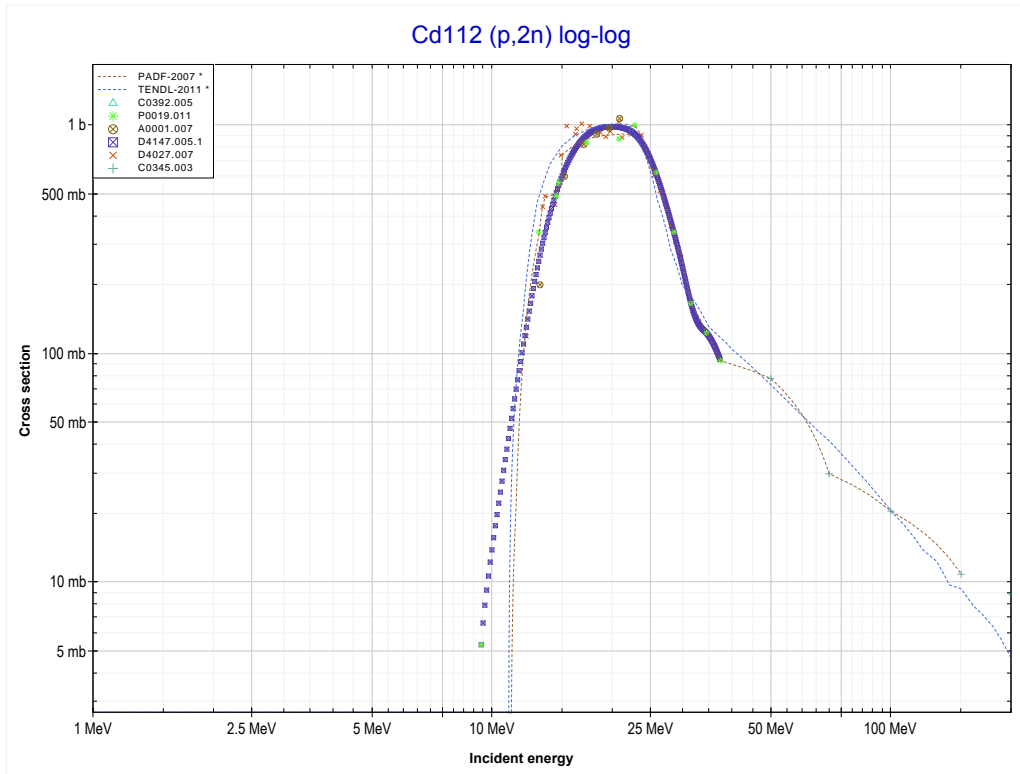
Reaction	Q-Value
Cd111(p,4n)In108	-30137.80 keV

<< 48-Cd-111	<b>48-Cd-112</b>	48-Cd-113 >>
<< MT37 (p,4n)	<b>MT4 (p,n) or MT5 (In112 production)</b>	MT16 (p,2n) >>



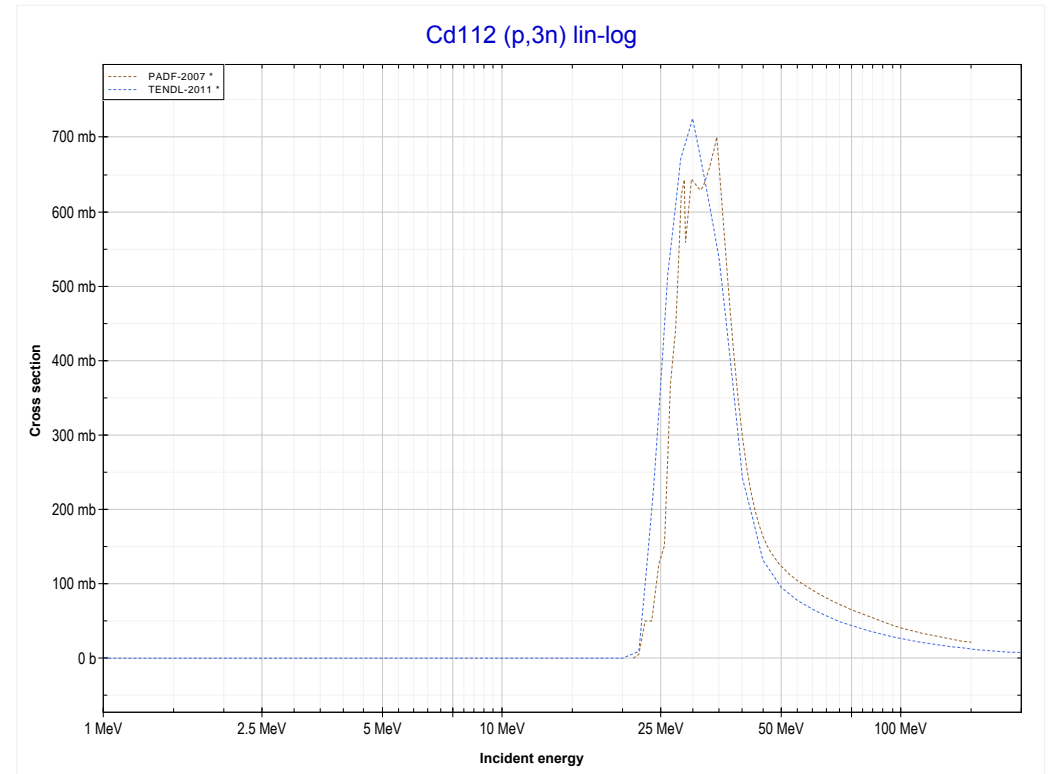
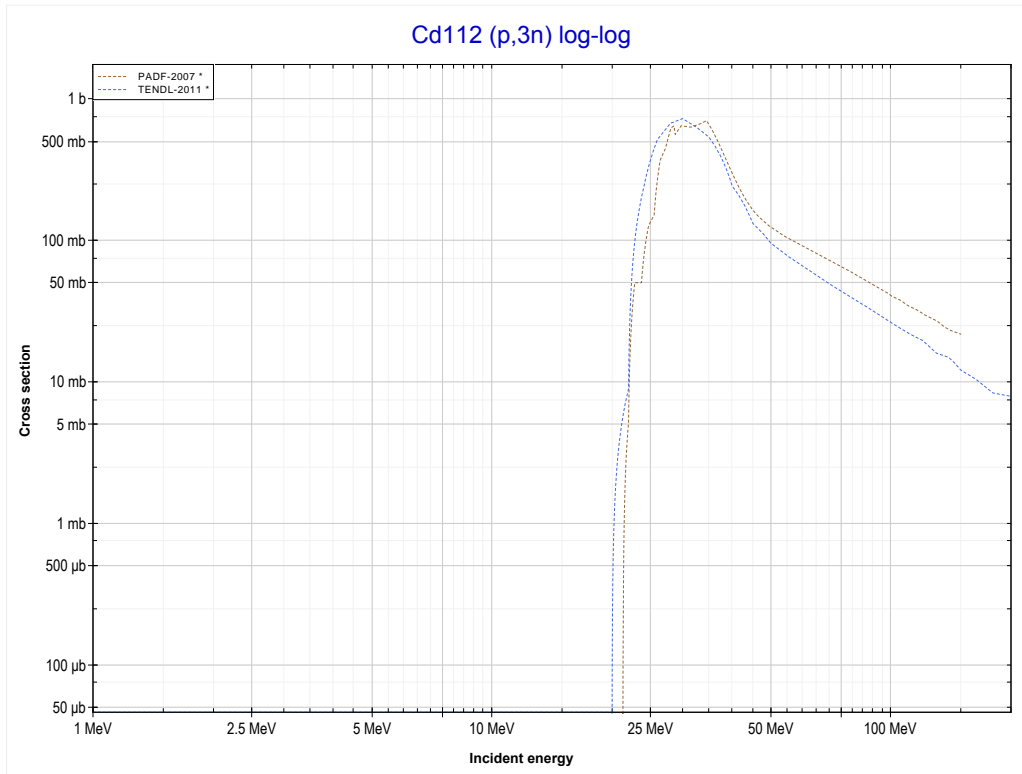
Reaction	Q-Value
Cd112(p,n)In112	-3366.85 keV

<< 48-Cd-111	<b>48-Cd-112</b>	48-Cd-113 >>
<< MT4 (p,n)	<b>MT16 (p,2n) or MT5 (In111 production)</b>	MT17 (p,3n) >>



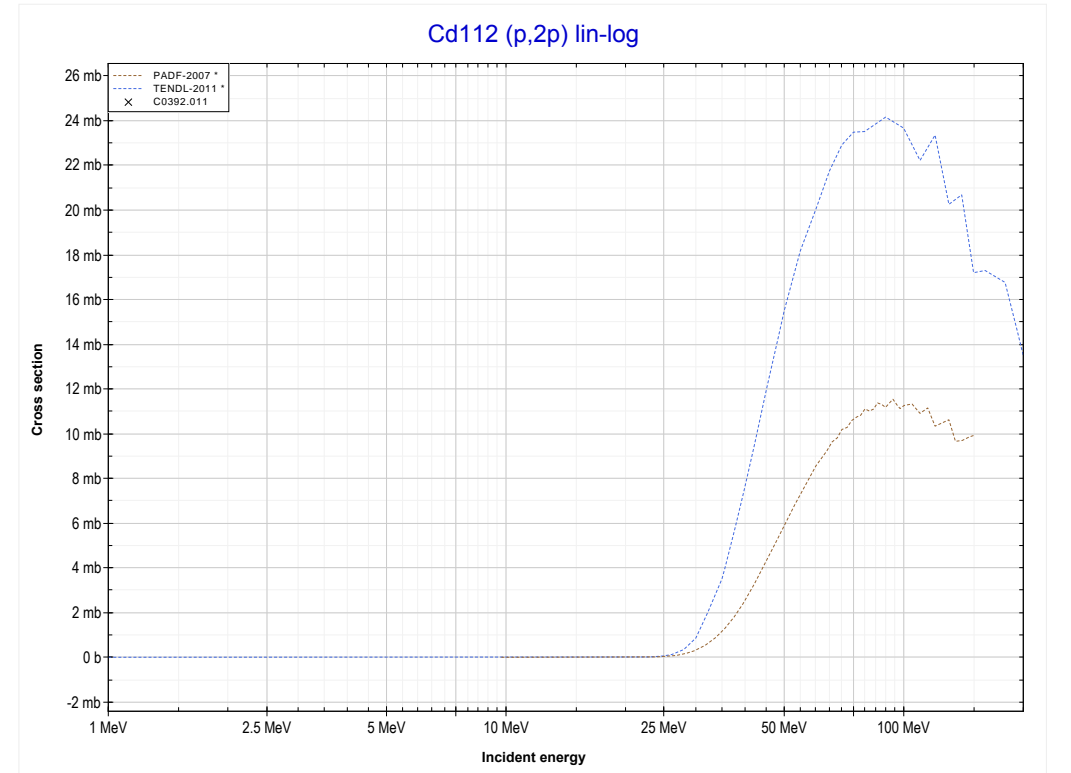
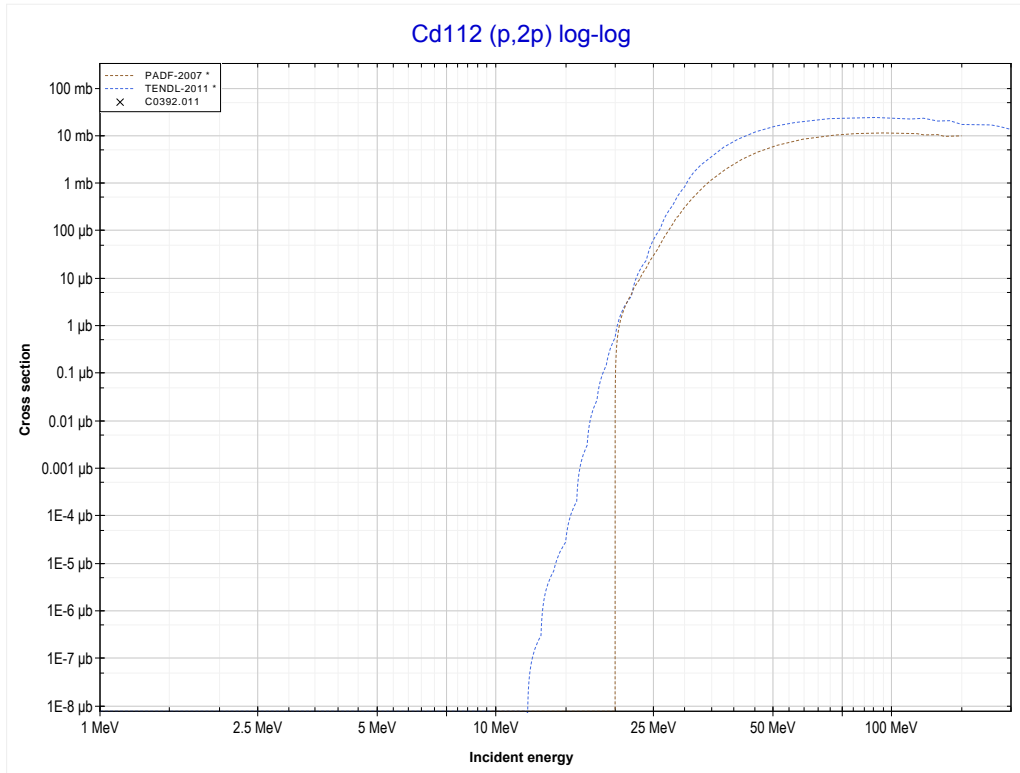
Reaction	Q-Value
Cd112(p,2n)In111	-11038.16 keV

<< 48-Cd-111	<b>48-Cd-112</b>	48-Cd-113 >>
<< MT16 (p,2n)	<b>MT17 (p,3n) or MT5 (In110 production)</b>	MT111 (p,2p) >>



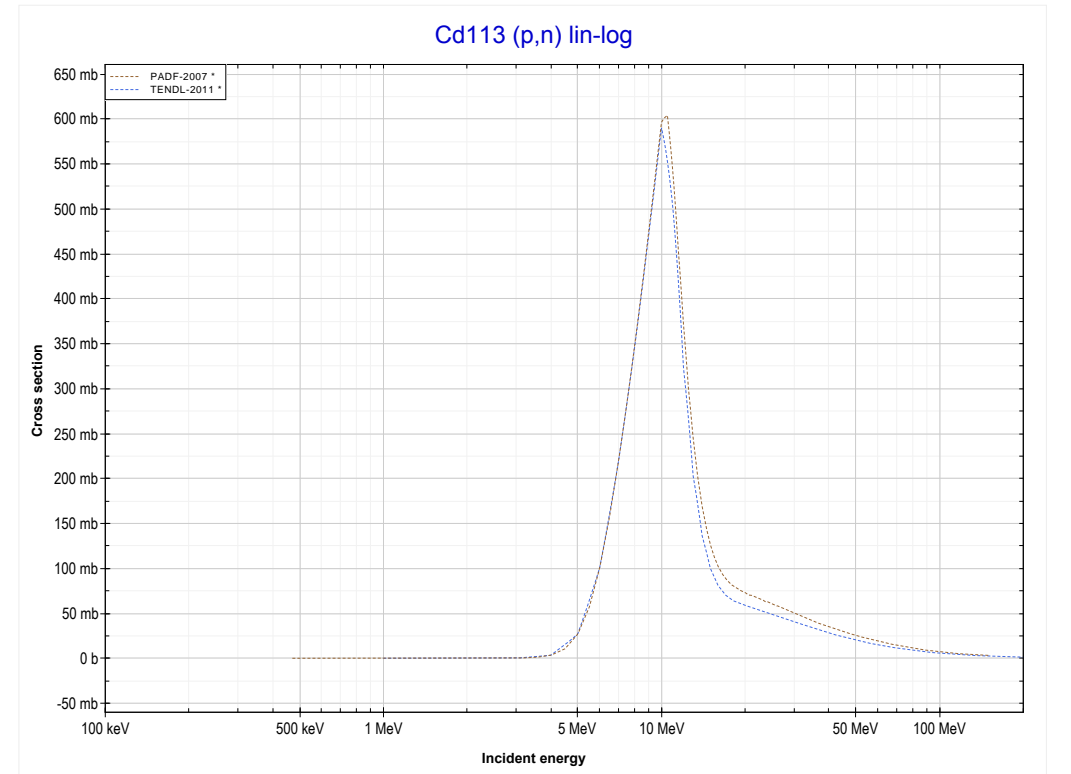
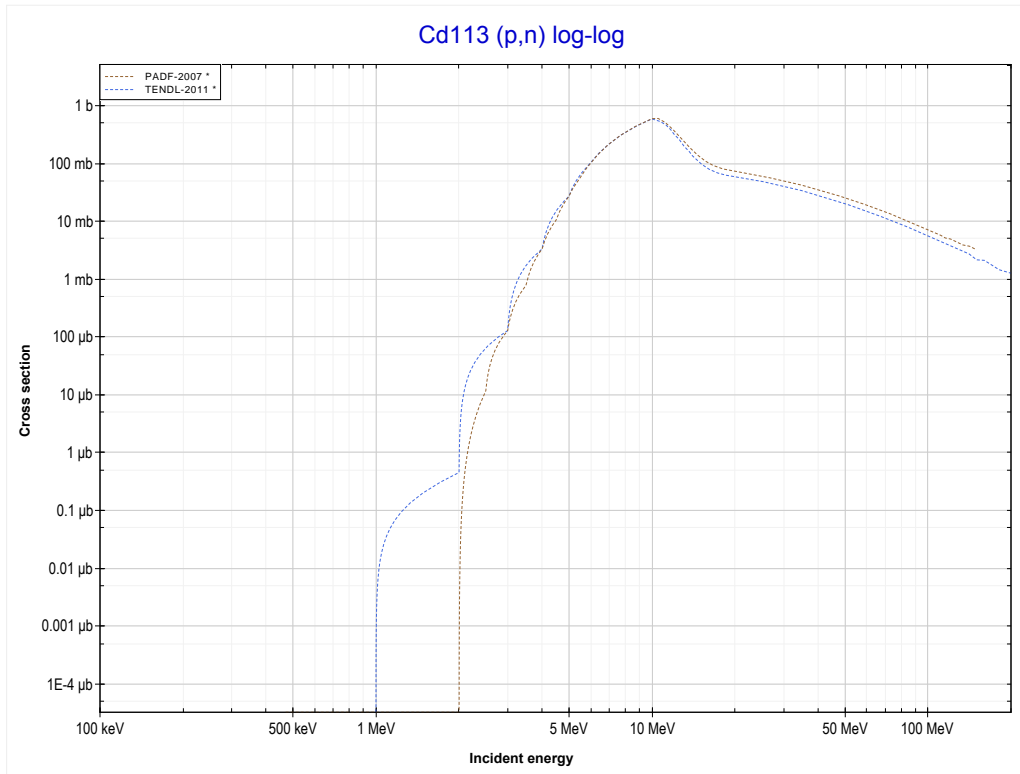
Reaction	Q-Value
Cd112(p,3n)In110	-21030.48 keV

<< 48-Cd-106	<b>48-Cd-112</b>	48-Cd-113 >>
<< MT17 (p,3n)	<b>MT111 (p,2p) or MT5 (Ag111 production)</b>	MT4 (p,n) >>



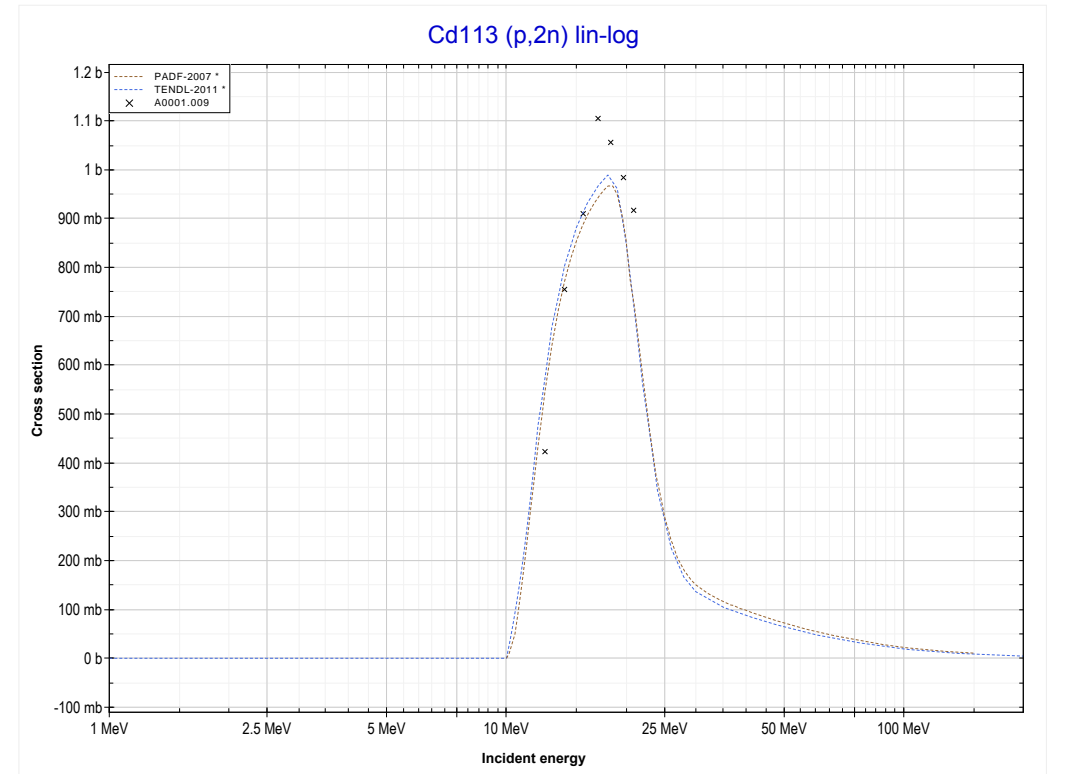
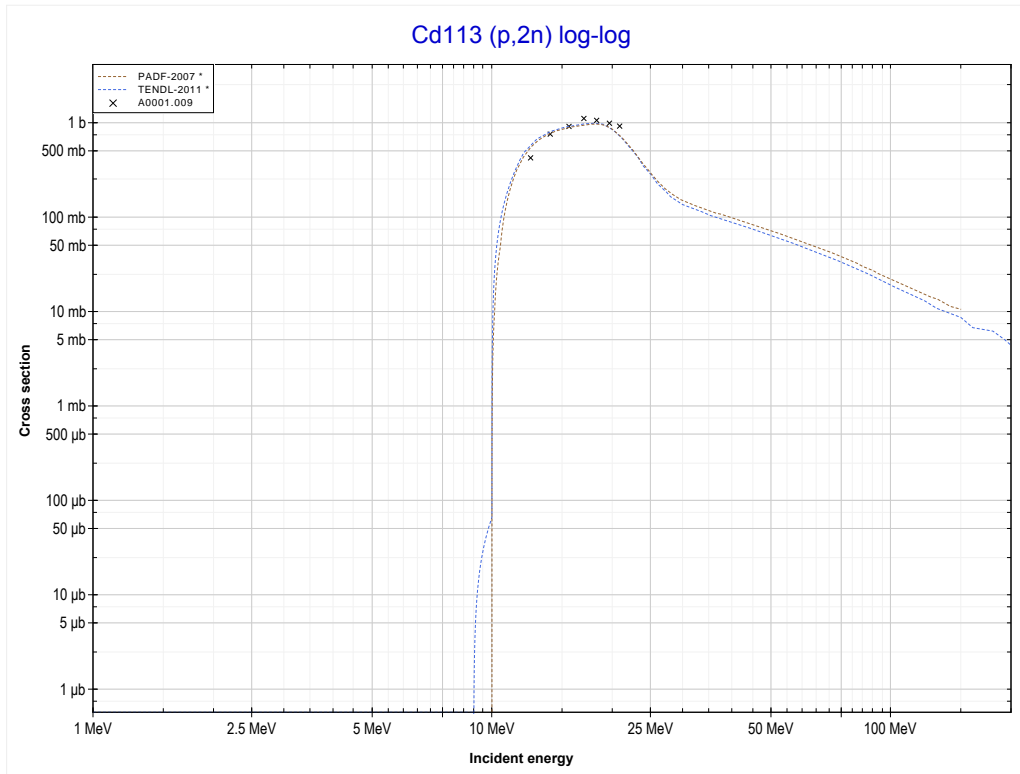
Reaction	Q-Value
Cd112(p,2p)Ag111	-9648.47 keV

<< 48-Cd-112	<b>48-Cd-113</b>	48-Cd-114 >>
<< MT111 (p,2p)	<b>MT4 (p,n) or MT5 (In113 production)</b>	MT16 (p,2n) >>



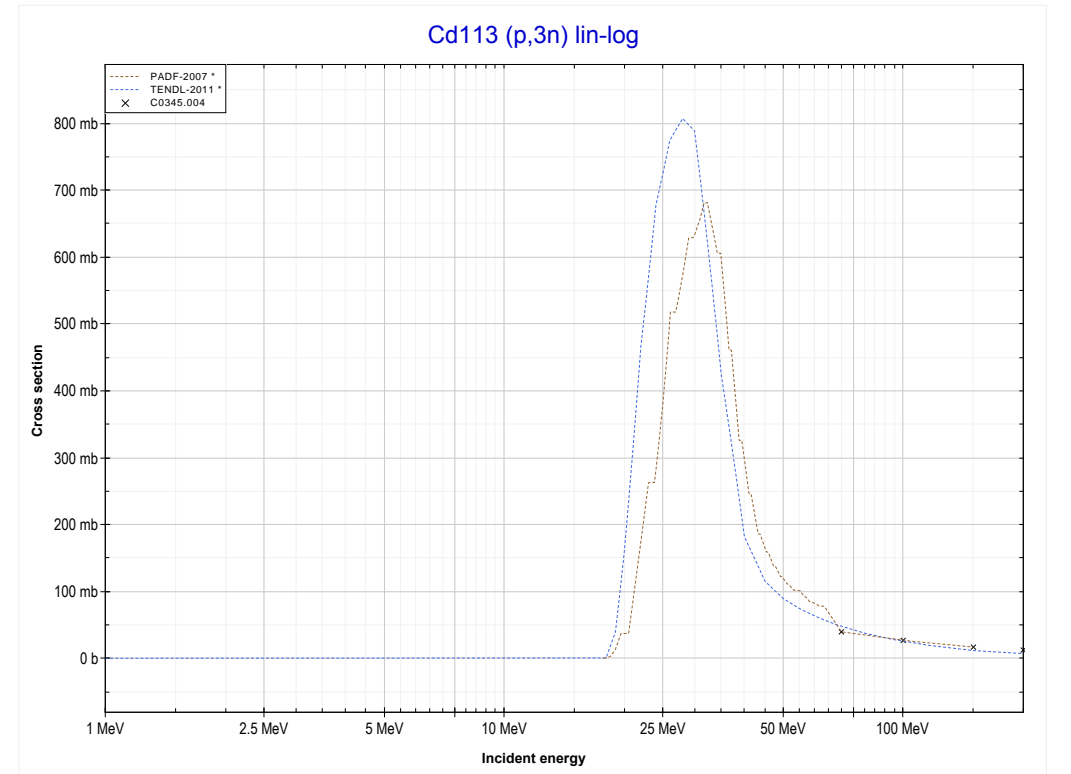
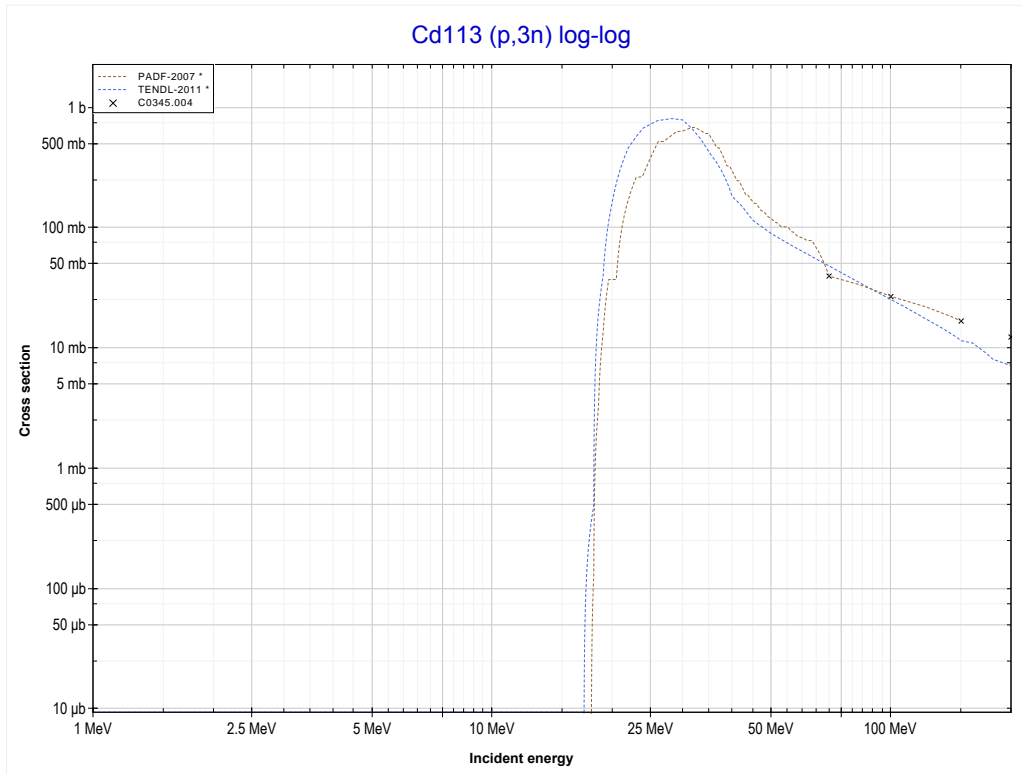
Reaction	Q-Value
Cd113(p,n)In113	-461.65 keV

<< 48-Cd-112	<b>48-Cd-113</b>	48-Cd-114 >>
<< MT4 (p,n)	<b>MT16 (p,2n) or MT5 (In112 production)</b>	MT17 (p,3n) >>



Reaction	Q-Value
Cd113(p,2n)In112	-9906.96 keV

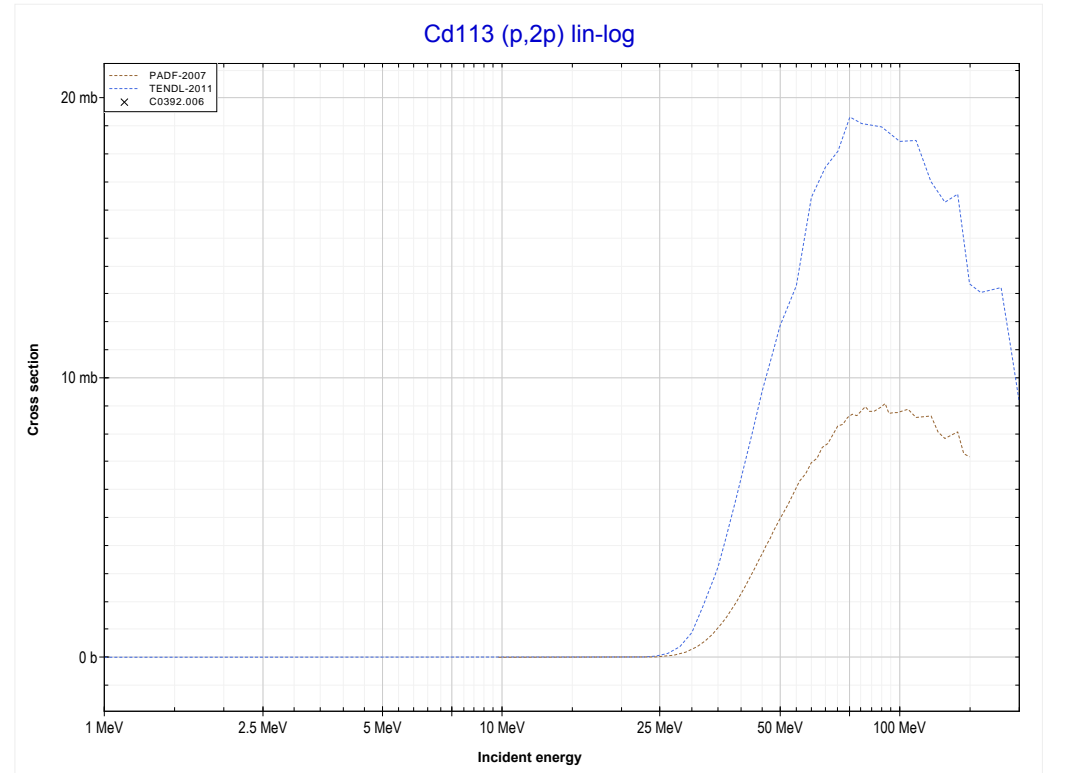
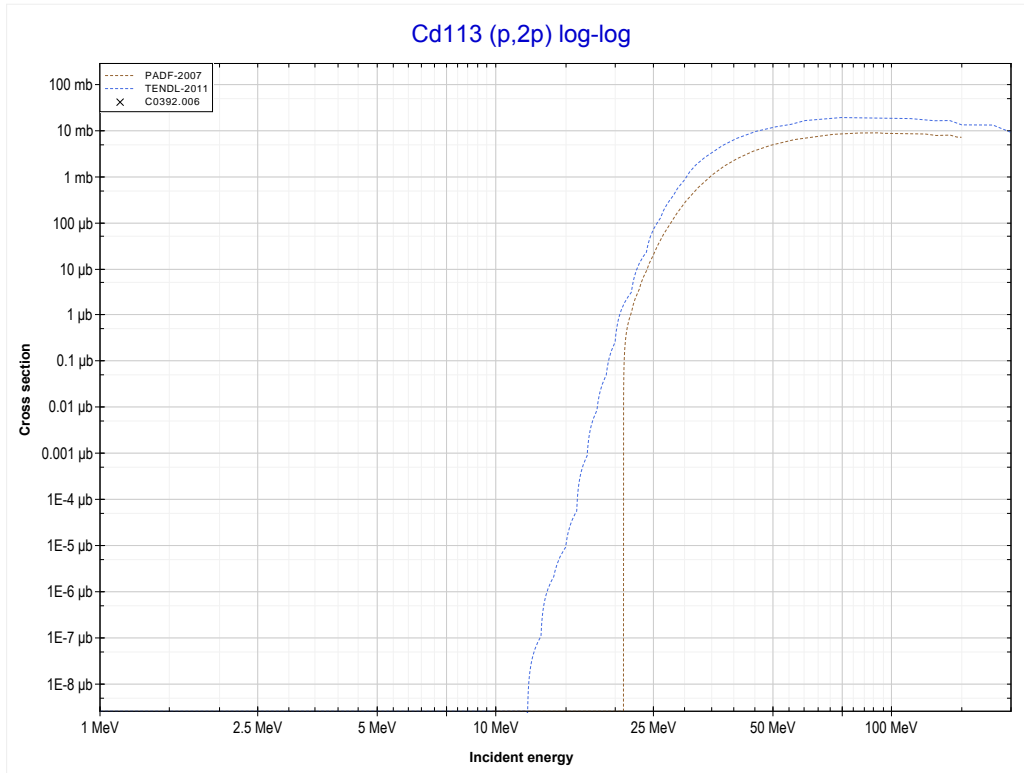
<< 48-Cd-112	<b>48-Cd-113</b>	48-Cd-116 >>
<< MT16 (p,2n)	<b>MT17 (p,3n) or MT5 (In111 production)</b>	MT111 (p,2p) >>



Reaction	Q-Value
Cd113(p,3n)In111	-17578.28 keV

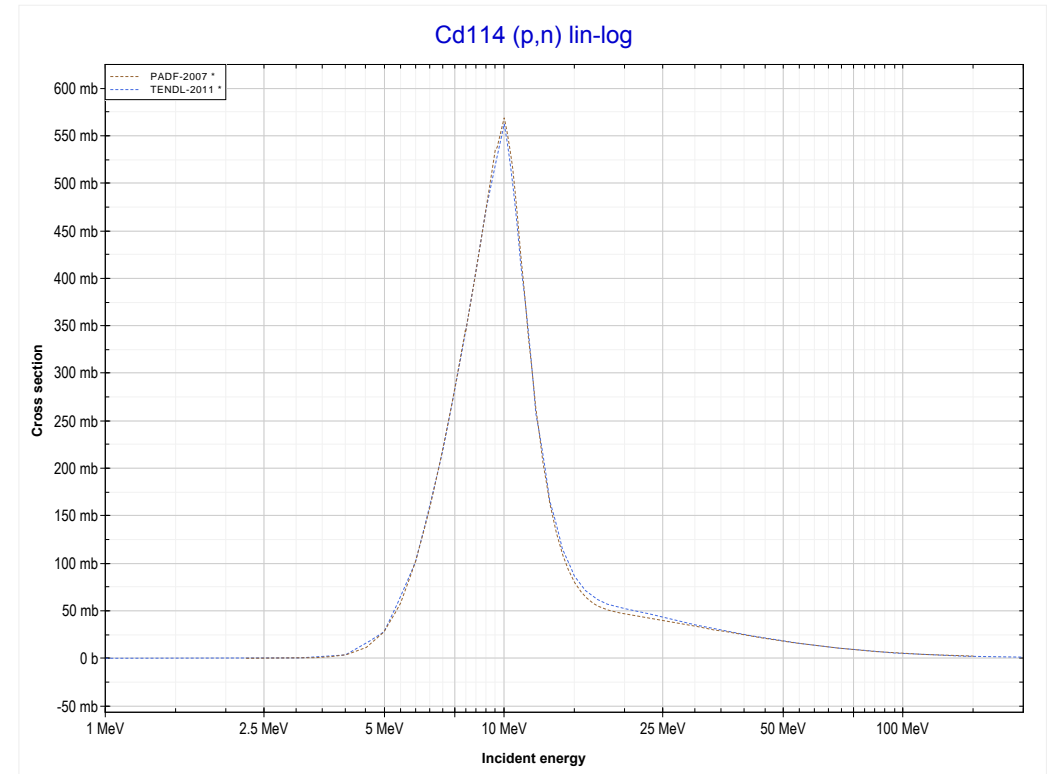
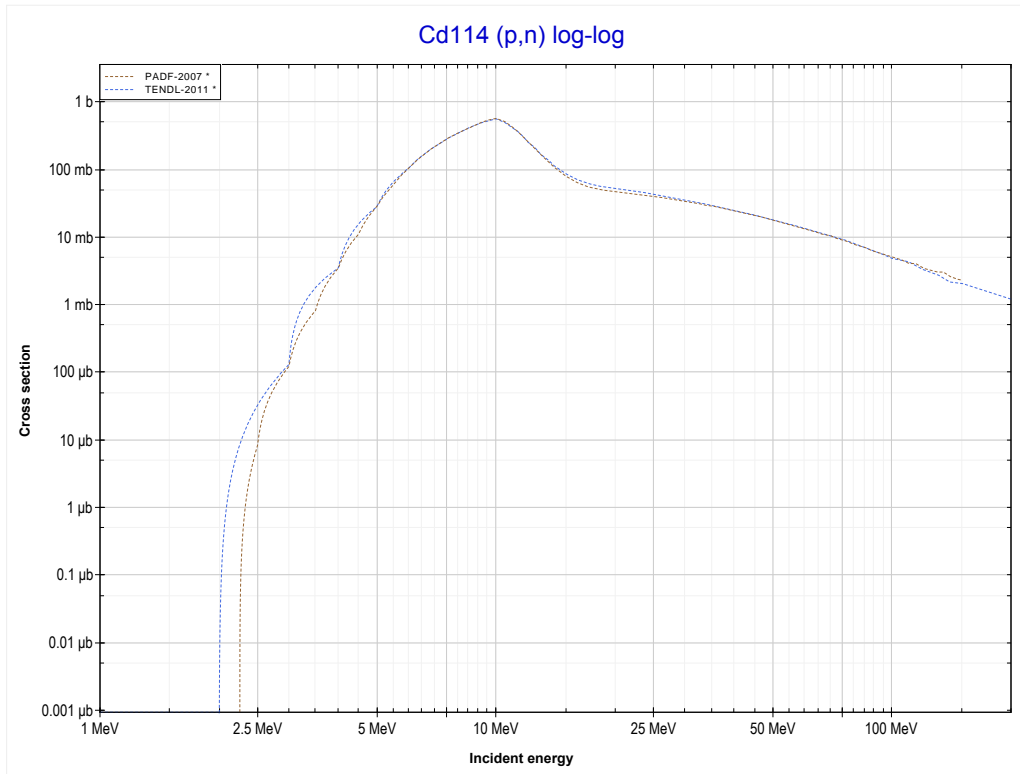


<< 48-Cd-112	<b>48-Cd-113</b>	50-Sn-112 >>
<< MT17 (p,3n)	<b>MT111 (p,2p) or MT5 (Ag112 production)</b>	MT4 (p,n) >>



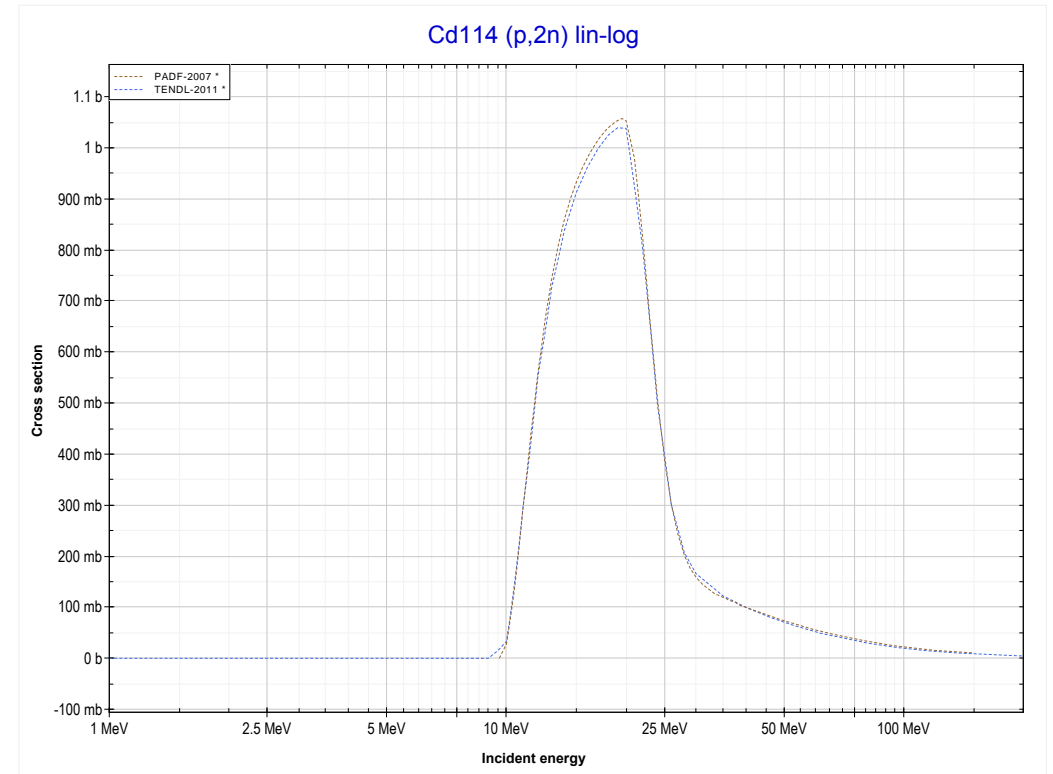
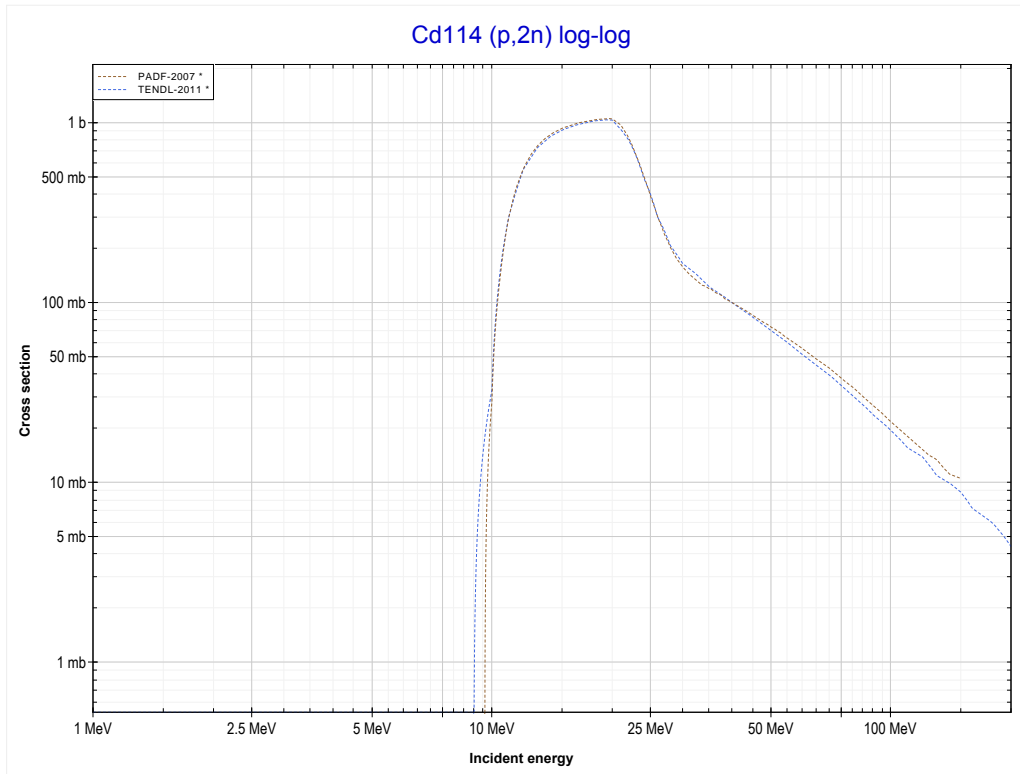
Reaction	Q-Value
Cd113(p,2p)Ag112	-9714.27 keV

<< 48-Cd-113	<b>48-Cd-114</b>	48-Cd-116 >>
<< MT111 (p,2p)	<b>MT4 (p,n) or MT5 (In114 production)</b>	MT16 (p,2n) >>



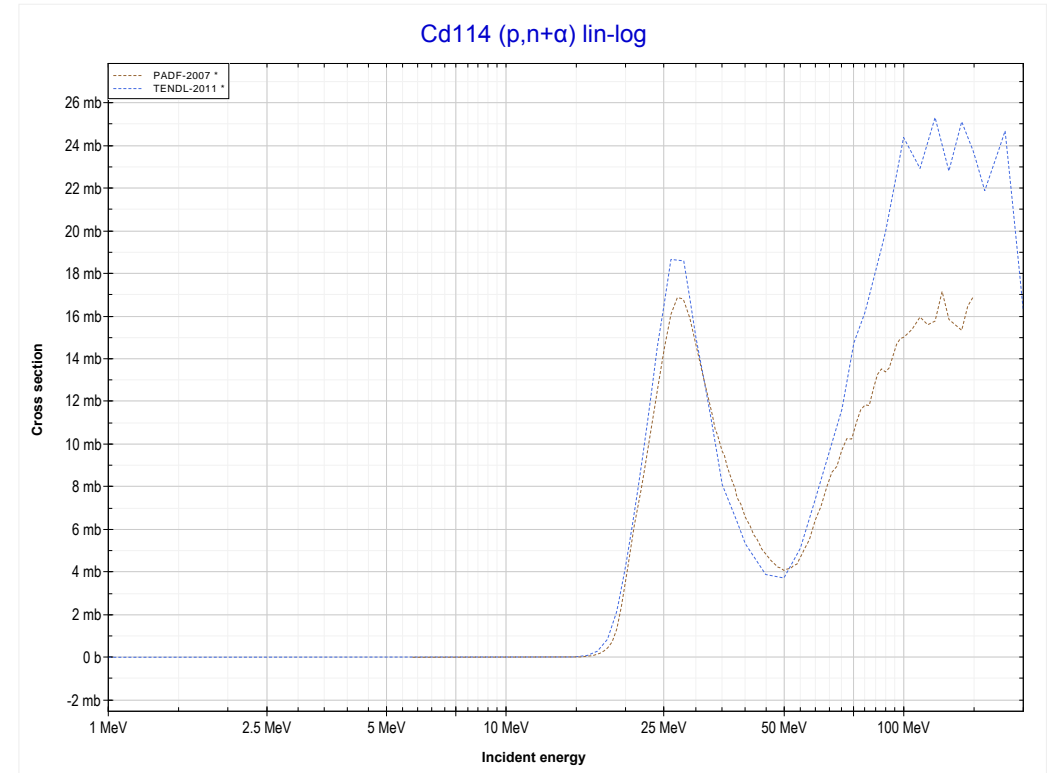
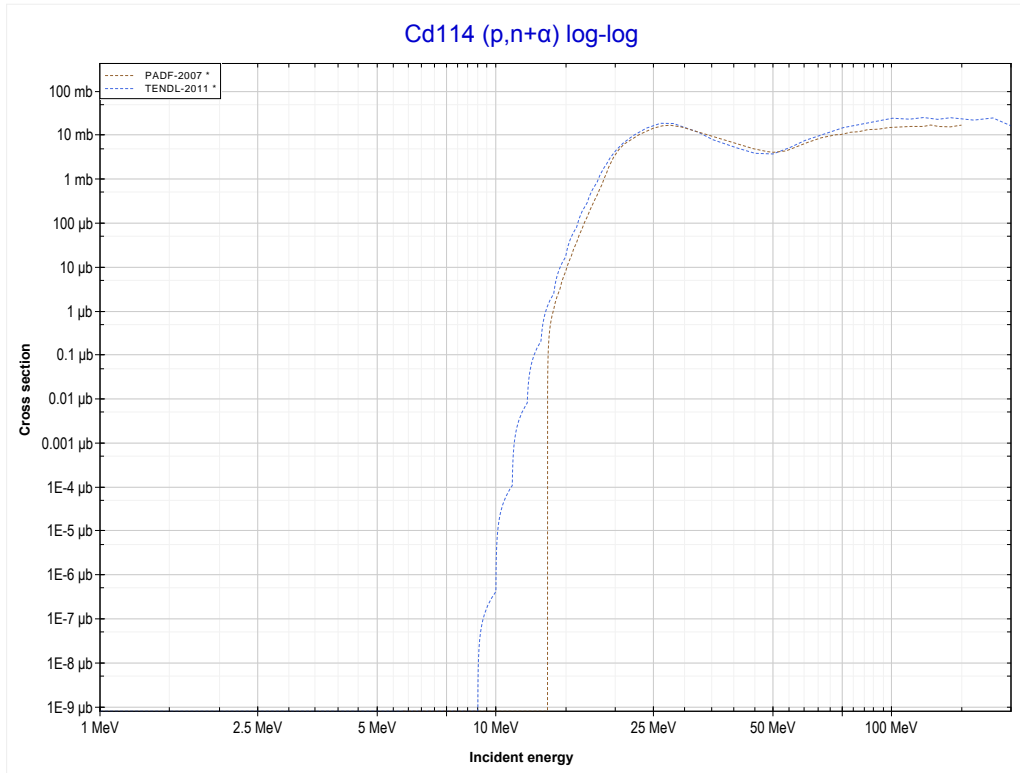
Reaction	Q-Value
Cd114(p,n)In114	-2231.25 keV

<< 48-Cd-113	<b>48-Cd-114</b>	48-Cd-116 >>
<< MT4 (p,n)	<b>MT16 (p,2n) or MT5 (In113 production)</b>	MT22 (p,n+α) >>



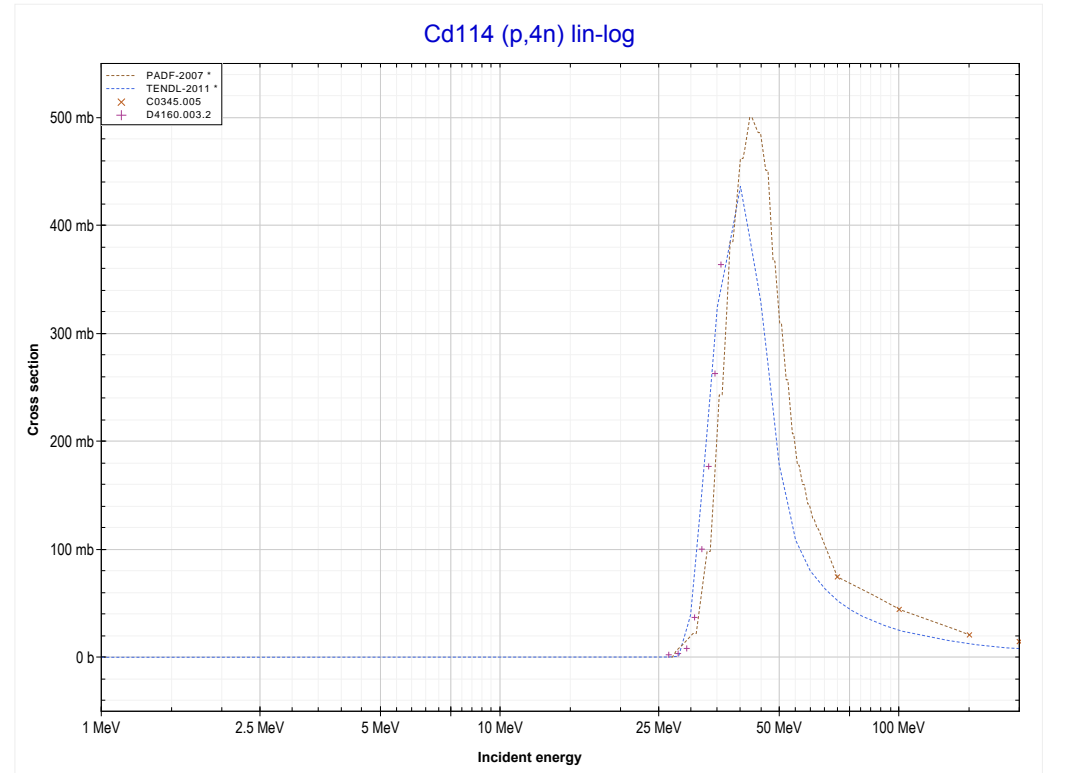
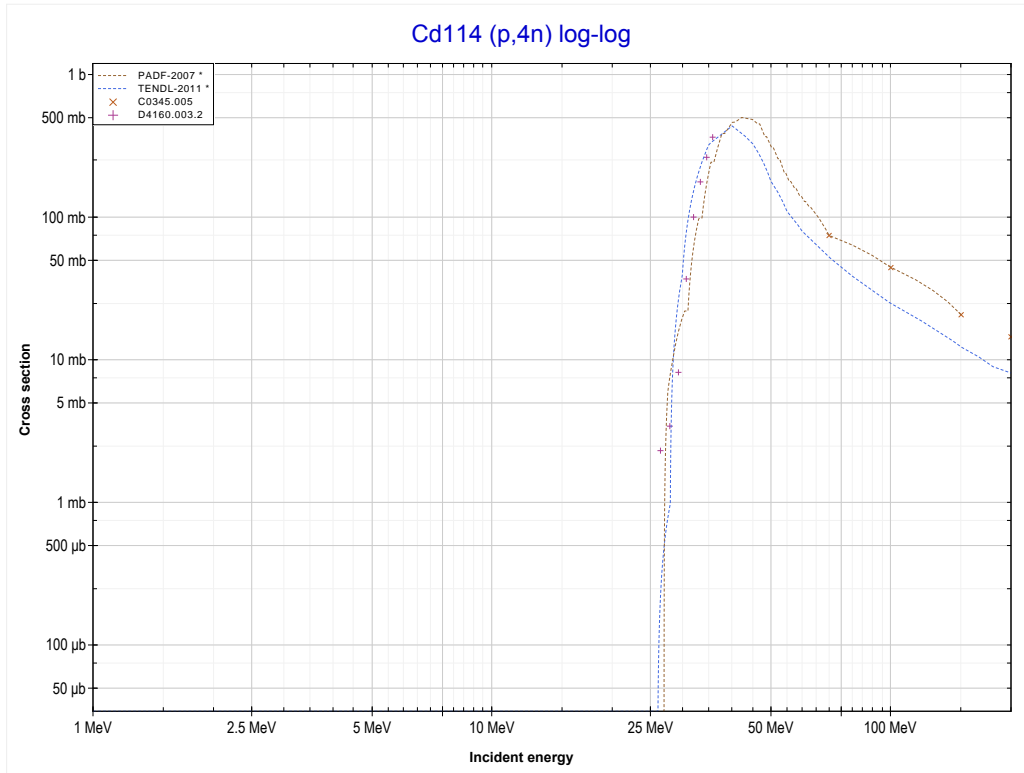
Reaction	Q-Value
Cd114(p,2n)In113	-9504.56 keV

<< 42-Mo-100	<b>48-Cd-114</b>	54-Xe-124 >>
<< MT16 (p,2n)	<b>MT22 (p,n+α) or MT5 (Ag110 production)</b>	MT37 (p,4n) >>



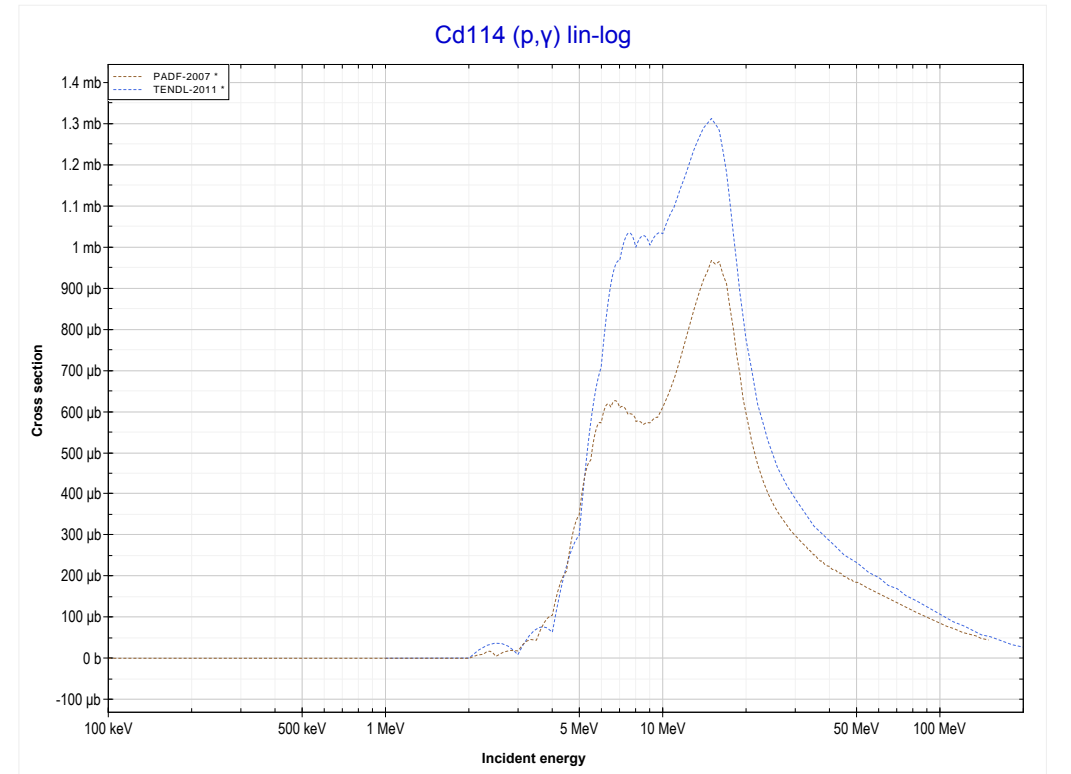
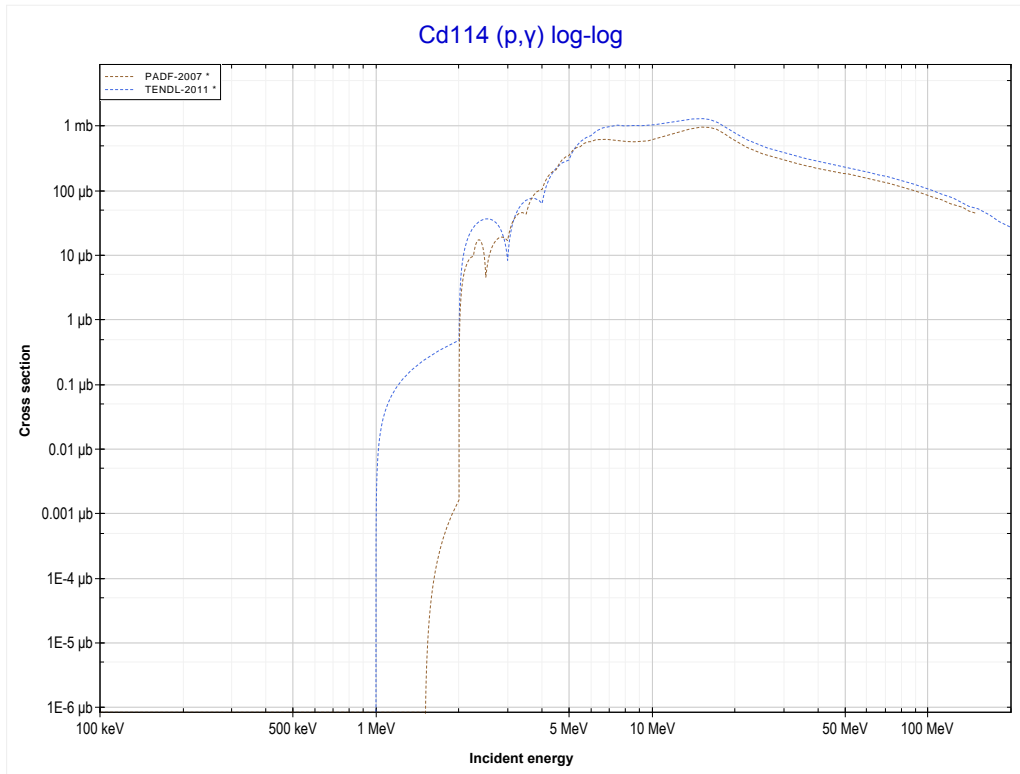
Reaction	Q-Value
Cd114(p,n+α)Ag110	-5767.56 keV
Cd114(p,d+t)Ag110	-23356.86 keV
Cd114(p,n+p+t)Ag110	-25581.42 keV
Cd114(p,2n+He3)Ag110	-26345.18 keV
Cd114(p,n+2d)Ag110	-29614.09 keV
Cd114(p,2n+p+d)Ag110	-31838.66 keV
Cd114(p,3n+2p)Ag110	-34063.22 keV

<< 48-Cd-111	<b>48-Cd-114</b>	48-Cd-116 >>
<< MT22 (p,n+α)	<b>MT37 (p,4n) or MT5 (In111 production)</b>	MT102 (p,γ) >>



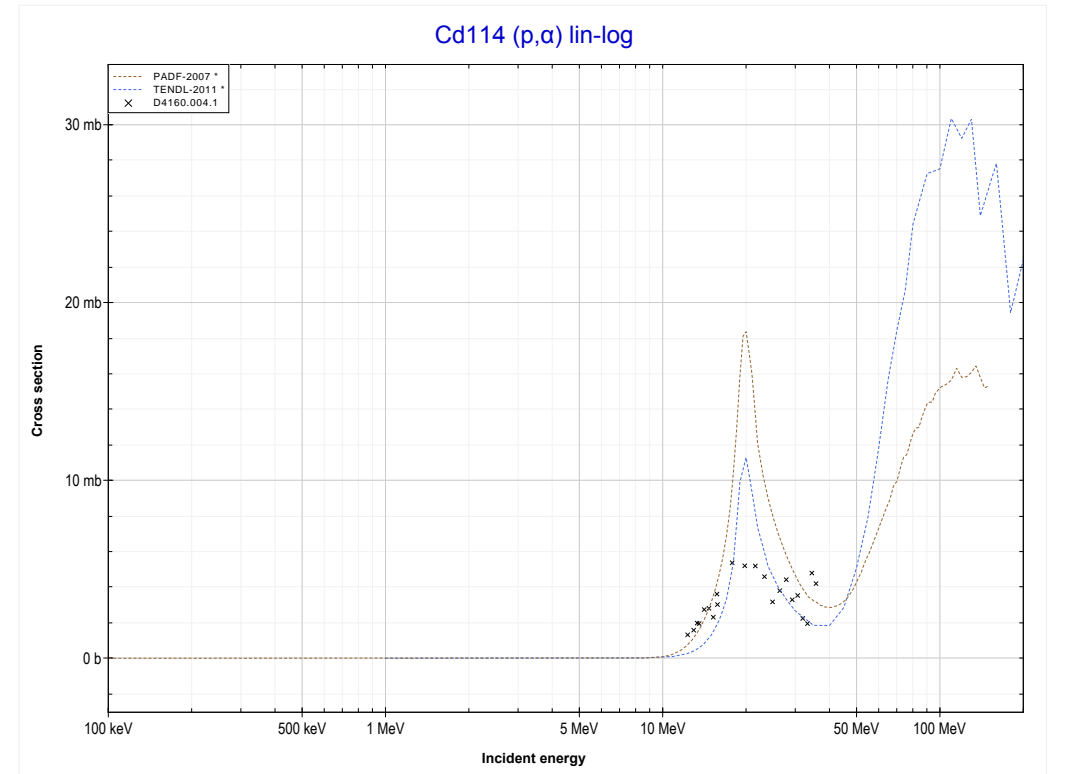
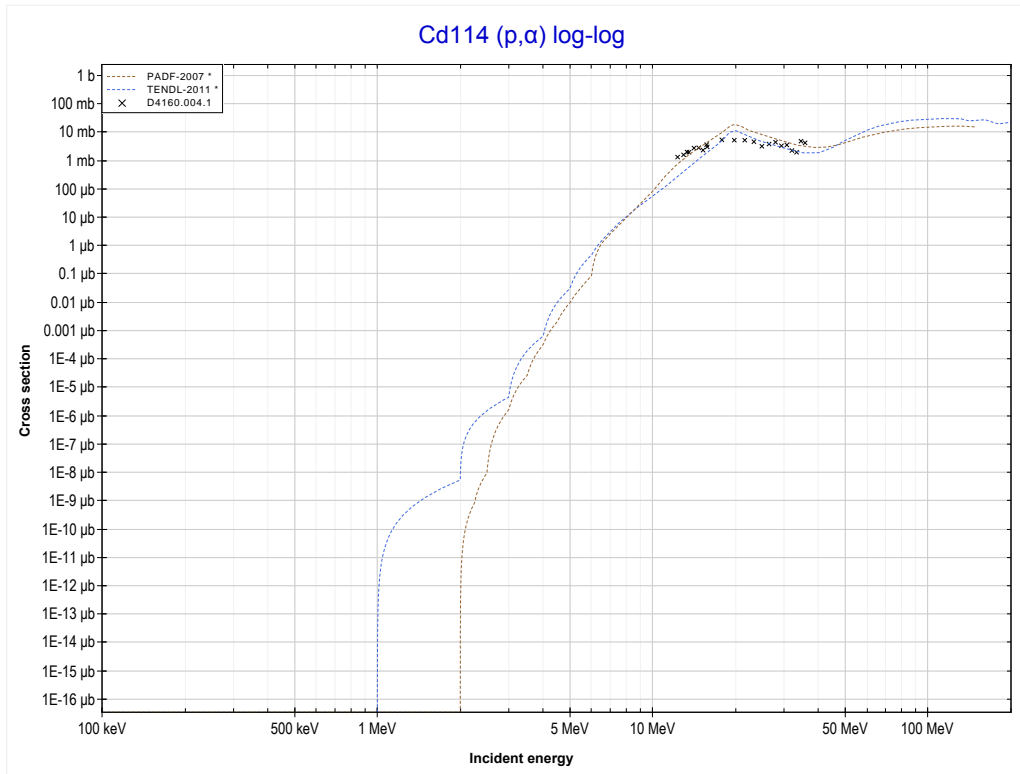
Reaction	Q-Value
Cd114(p,4n)In111	-26621.20 keV

<< 46-Pd-105	<b>48-Cd-114</b>	49-In-115 >>
<< MT37 (p,4n)	<b>MT102 (p,<math>\gamma</math>) or MT5 (In115 production)</b>	MT107 (p, $\alpha$ ) >>



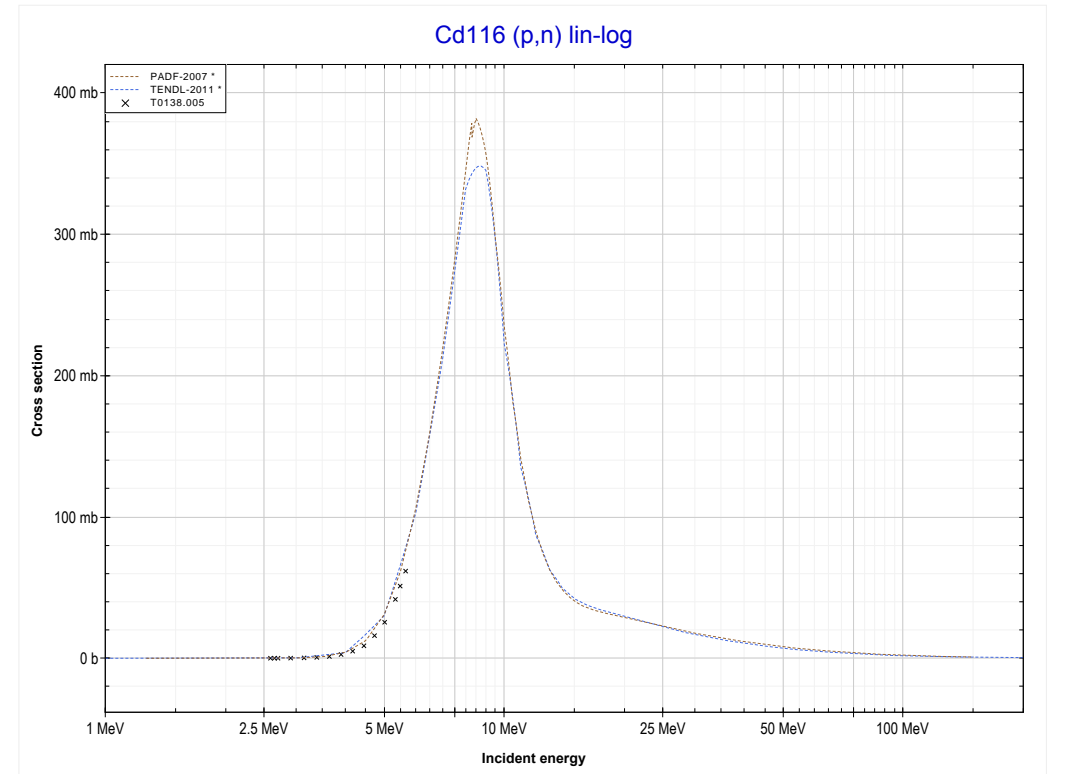
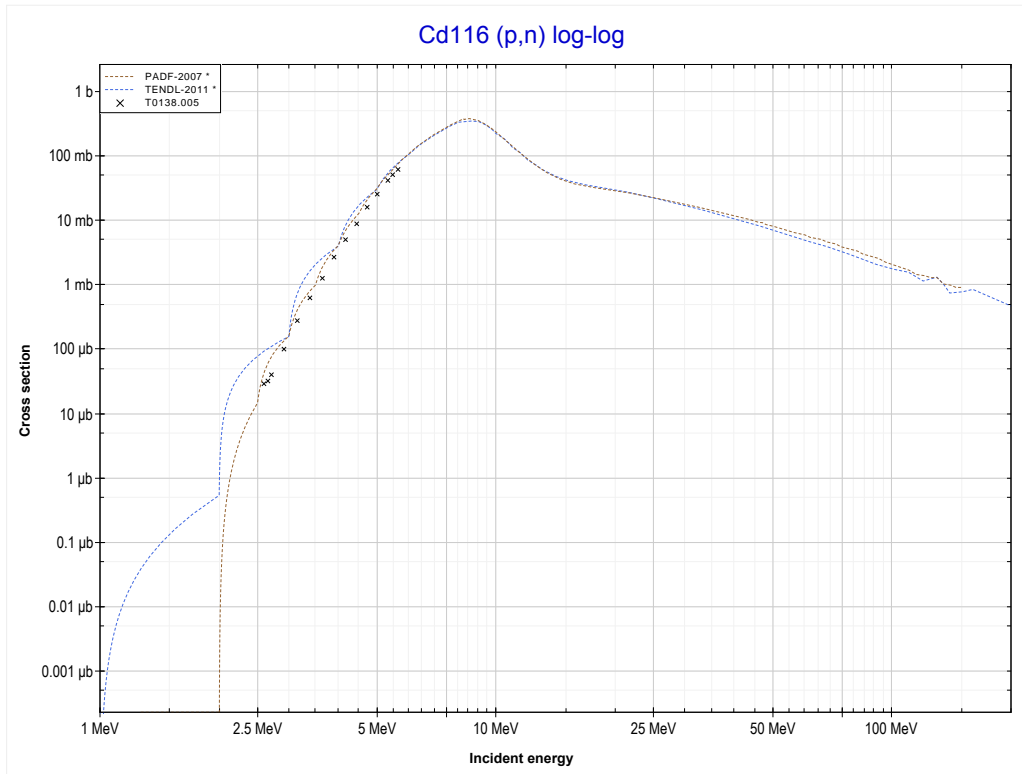
Reaction	Q-Value
Cd114(p, $\gamma$ )In115	6805.07 keV

<< 42-Mo-100	<b>48-Cd-114</b>	50-Sn-120 >>
<< MT102 (p, $\gamma$ )	<b>MT107 (p,<math>\alpha</math>) or MT5 (Ag111 production)</b>	MT4 (p,n) >>



Reaction	Q-Value
Cd114(p, $\alpha$ )Ag111	3064.15 keV
Cd114(p,p+t)Ag111	-16749.71 keV
Cd114(p,n+He3)Ag111	-17513.46 keV
Cd114(p,2d)Ag111	-20782.37 keV
Cd114(p,n+p+d)Ag111	-23006.94 keV
Cd114(p,2n+2p)Ag111	-25231.50 keV

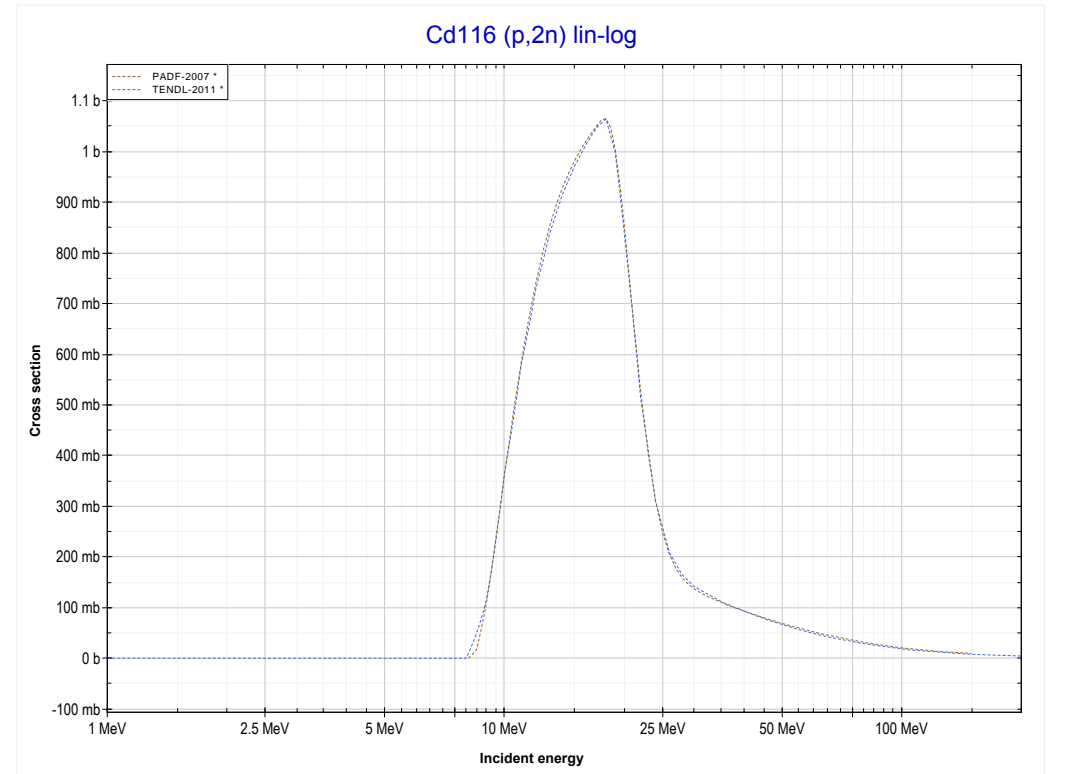
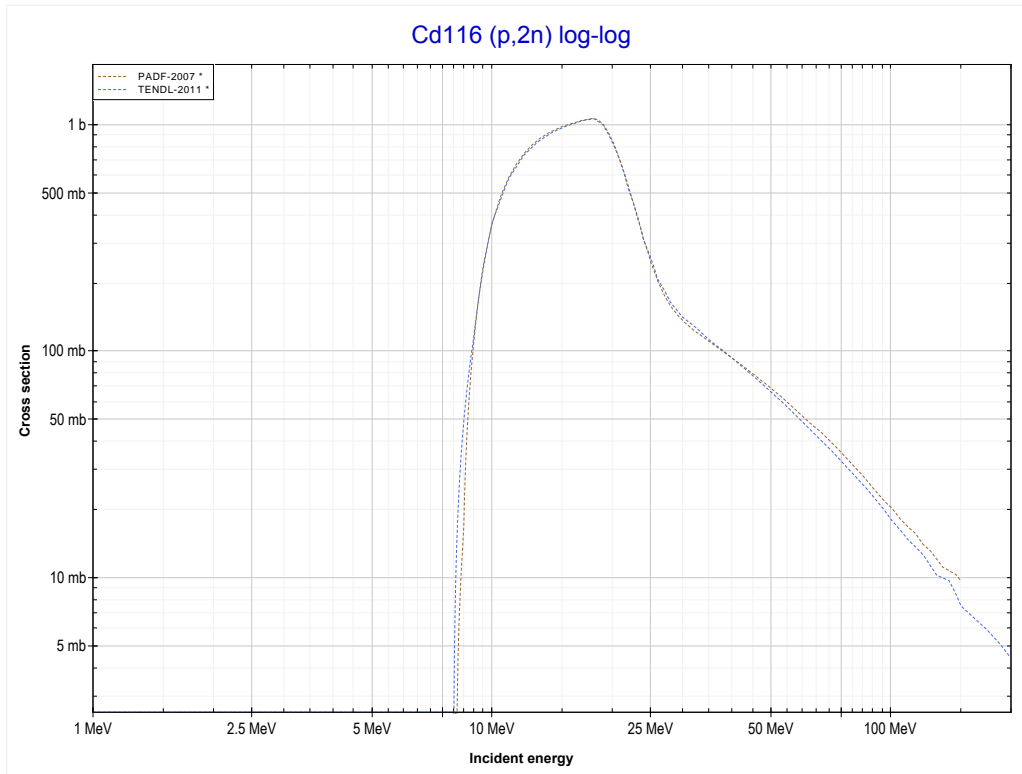
<< 48-Cd-114	<b>48-Cd-116</b>	49-In-113 >>
<< MT107 (p, $\alpha$ )	<b>MT4 (p,n) or MT5 (In116 production)</b>	MT16 (p,2n) >>



Reaction	Q-Value
Cd116(p,n)In116	-1251.35 keV

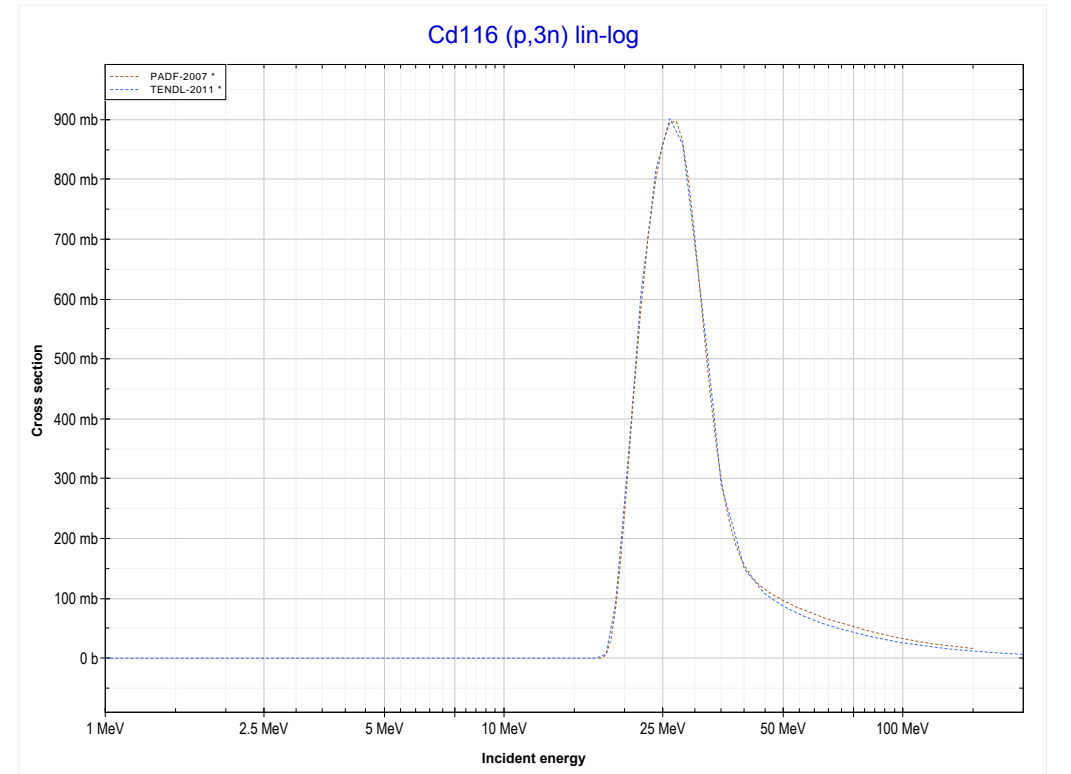
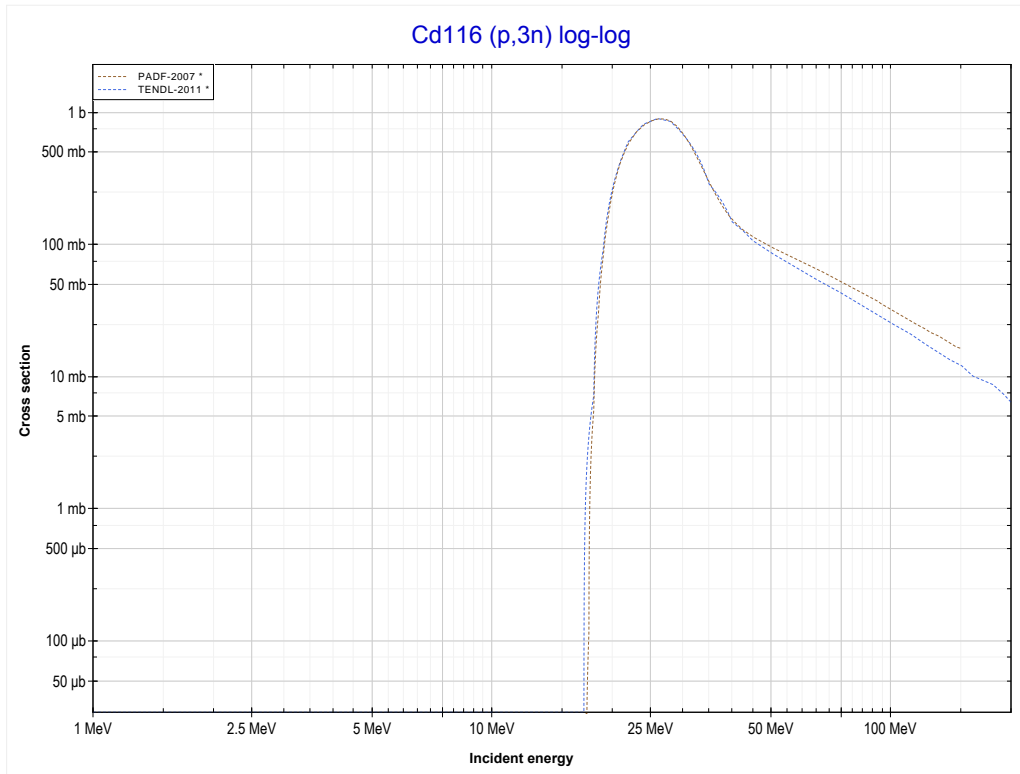


<< 48-Cd-114	<b>48-Cd-116</b>	49-In-115 >>
<< MT4 (p,n)	<b>MT16 (p,2n) or MT5 (In115 production)</b>	MT17 (p,3n) >>



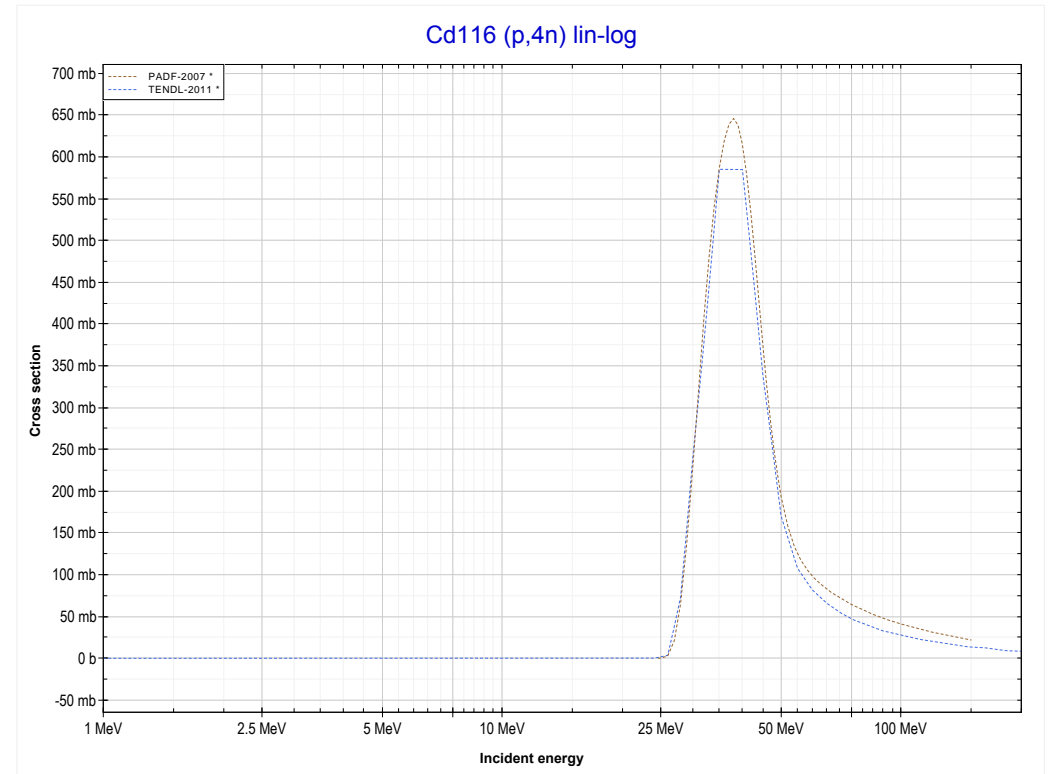
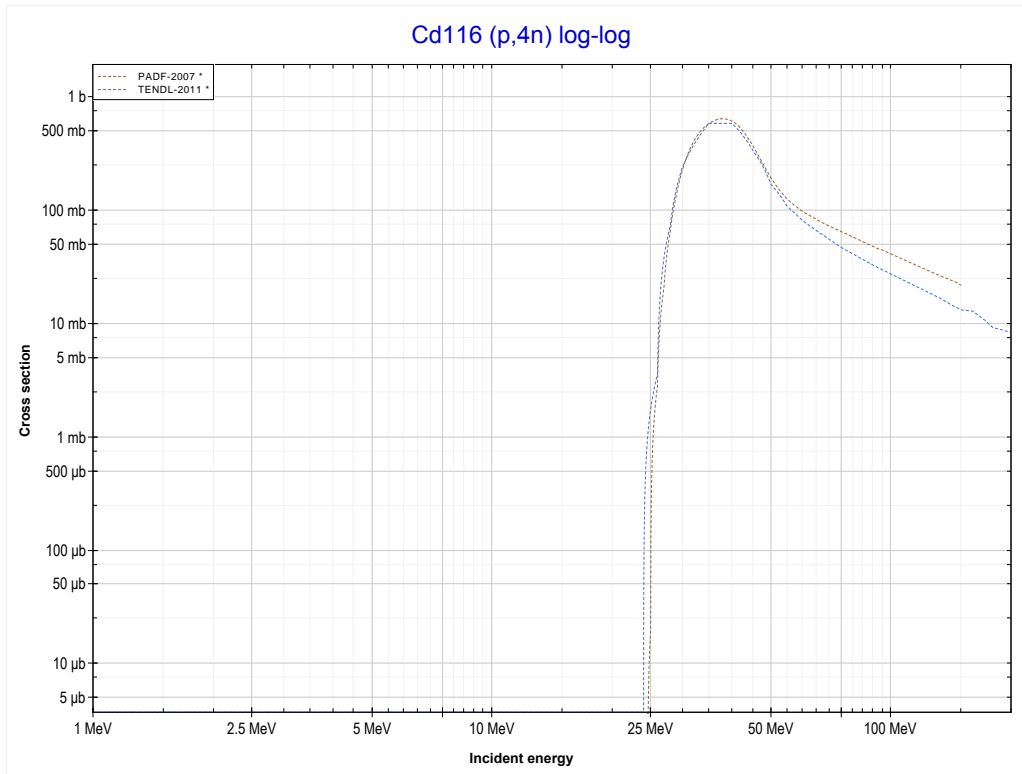
Reaction	Q-Value
Cd116(p,2n)In115	-8035.66 keV

<< 48-Cd-113	<b>48-Cd-116</b>	49-In-115 >>
<< MT16 (p,2n)	<b>MT17 (p,3n) or MT5 (In114 production)</b>	MT37 (p,4n) >>



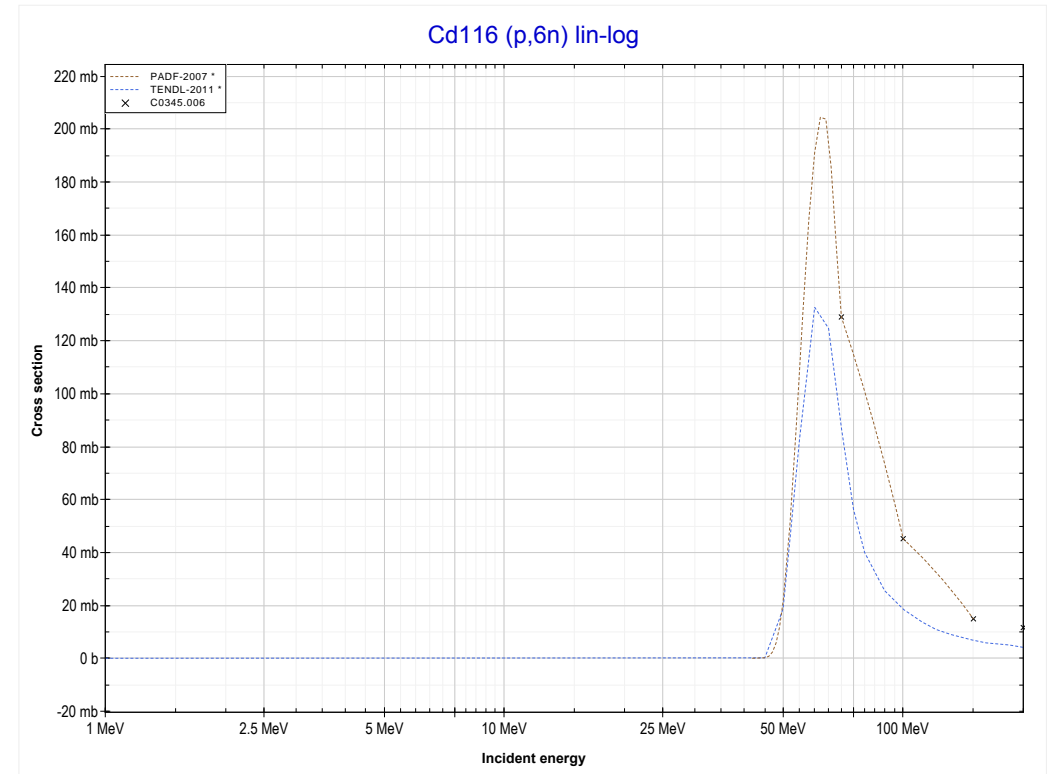
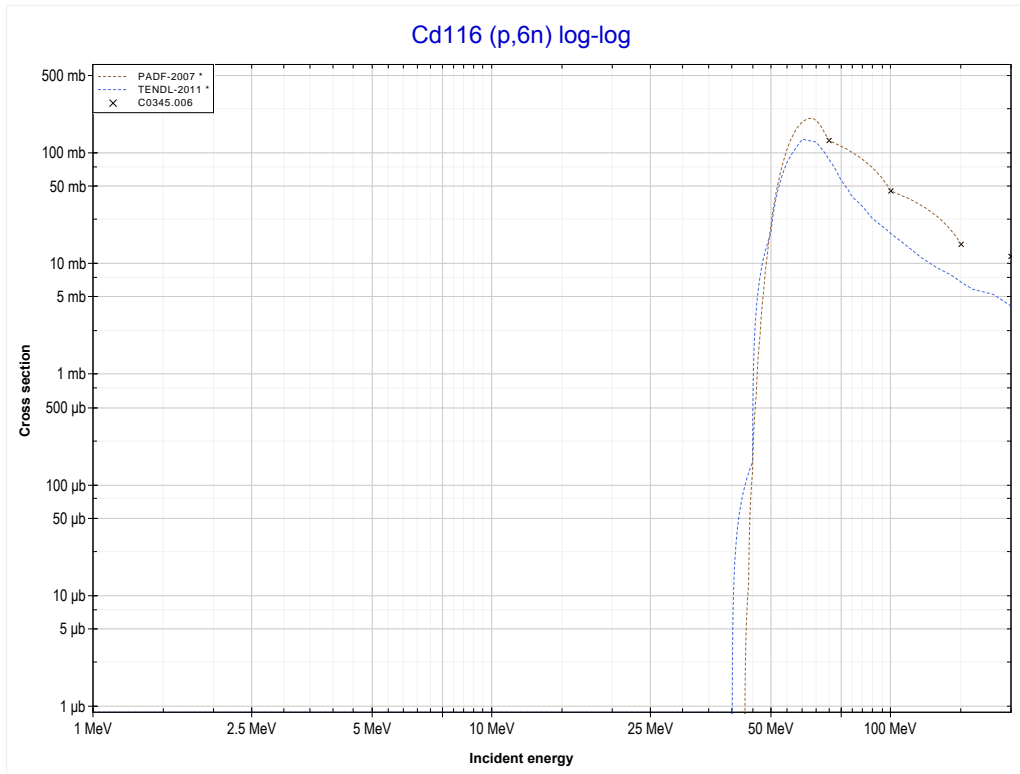
Reaction	Q-Value
Cd116(p,3n)In114	-17071.98 keV

<< 48-Cd-114	<b>48-Cd-116</b>	50-Sn-118 >>
<< MT17 (p,3n)	<b>MT37 (p,4n) or MT5 (In113 production)</b>	MT153 (p,6n) >>



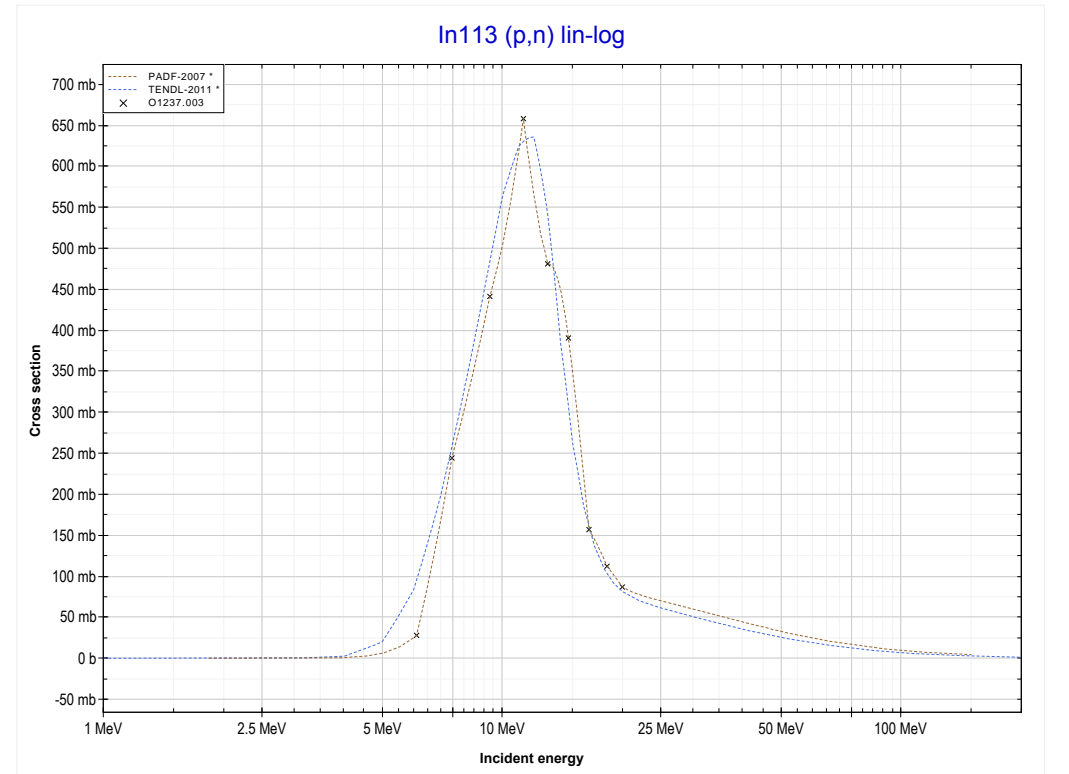
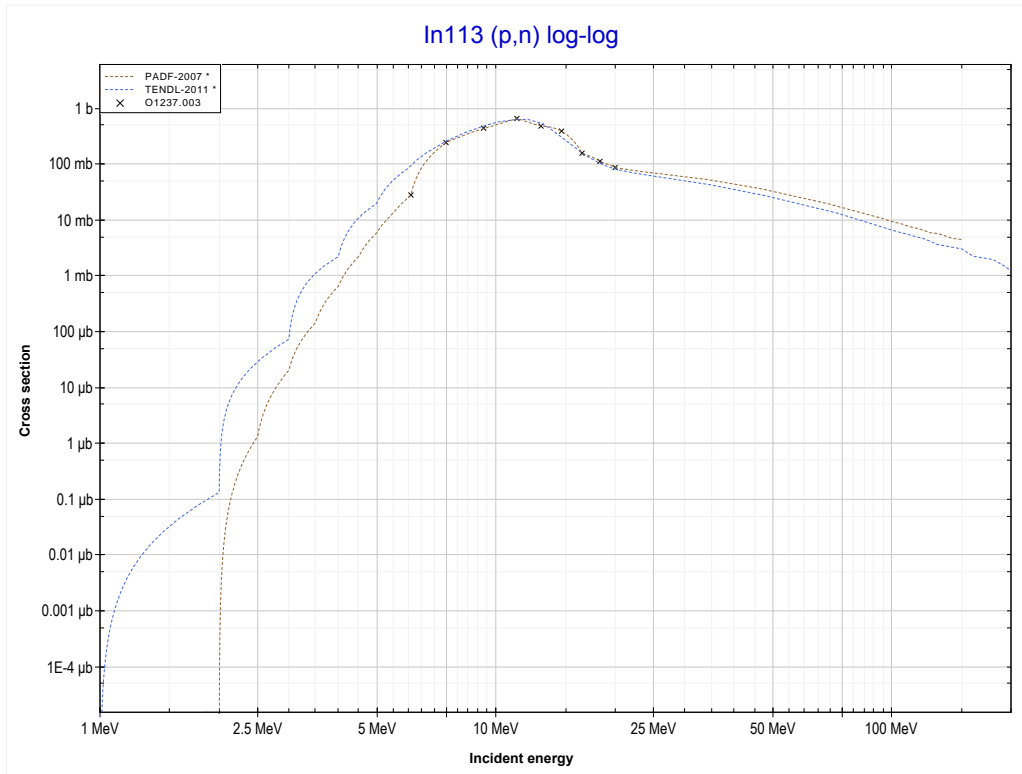
Reaction	Q-Value
Cd116(p,4n)In113	-24345.30 keV

<< 35-Br-81	<b>48-Cd-116</b>	52-Te-125 >>
<< MT37 (p,4n)	<b>MT153 (p,6n) or MT5 (In111 production)</b>	MT4 (p,n) >>



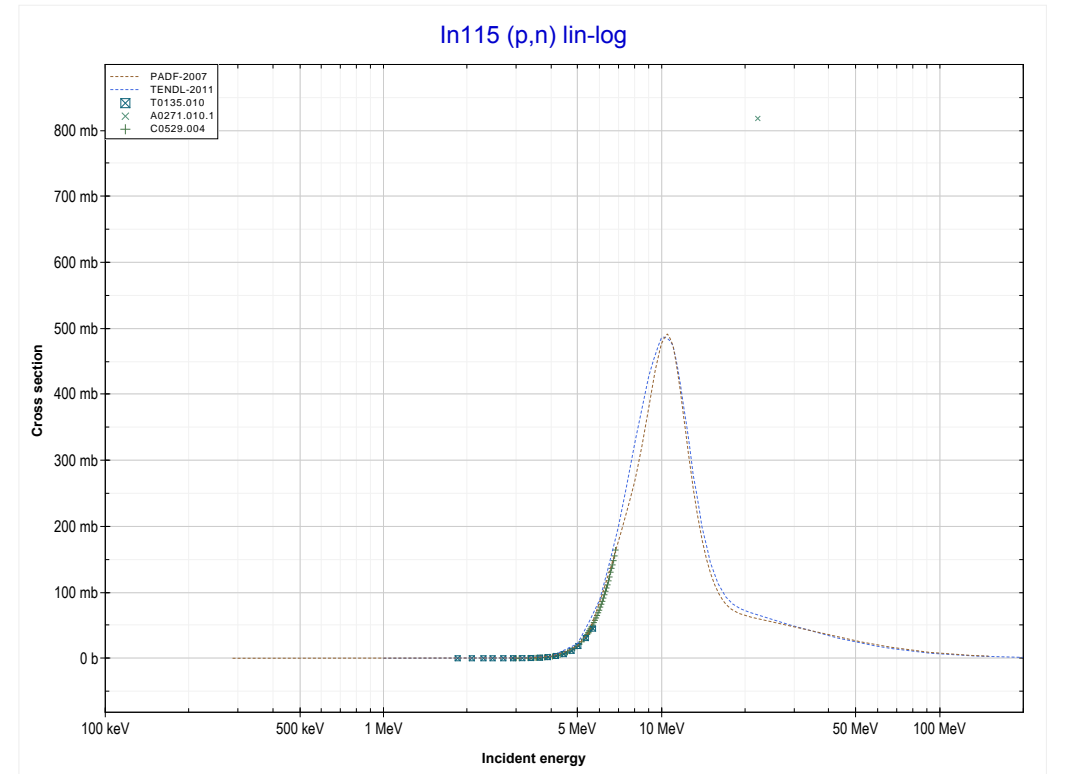
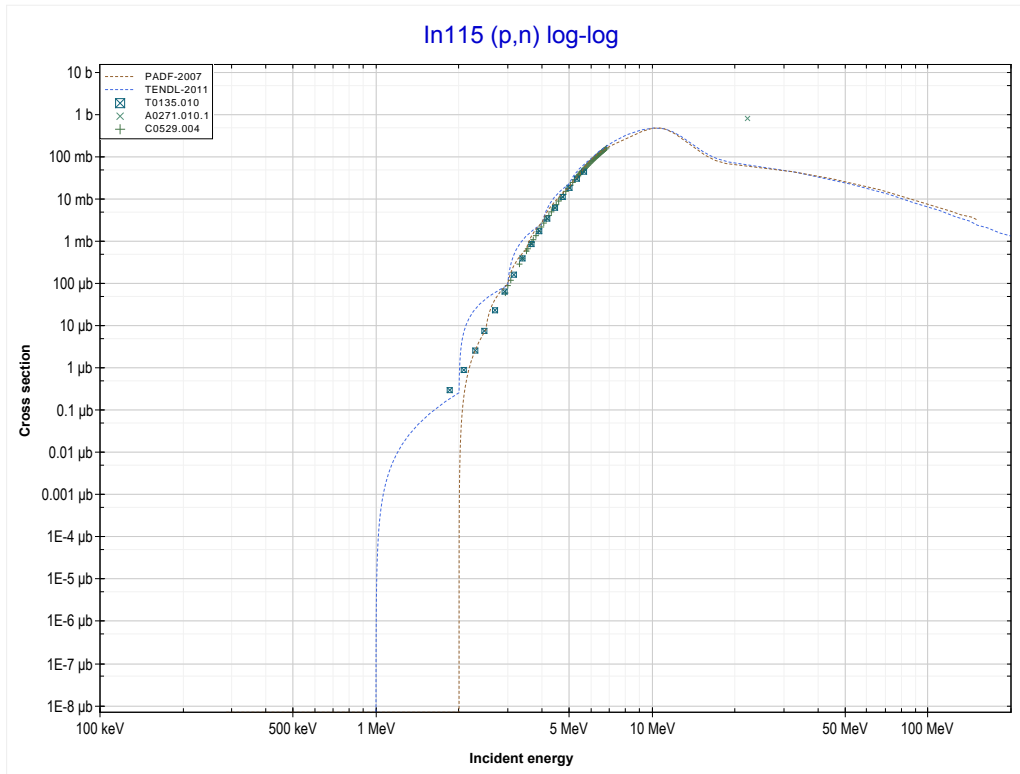
Reaction	Q-Value
Cd116(p,6n)In111	-41461.93 keV

<< 48-Cd-116	<b>49-In-113</b>	49-In-115 >>
<< MT153 (p,6n)	<b>MT4 (p,n) or MT5 (Sn113 production)</b>	MT4 (p,n) >>



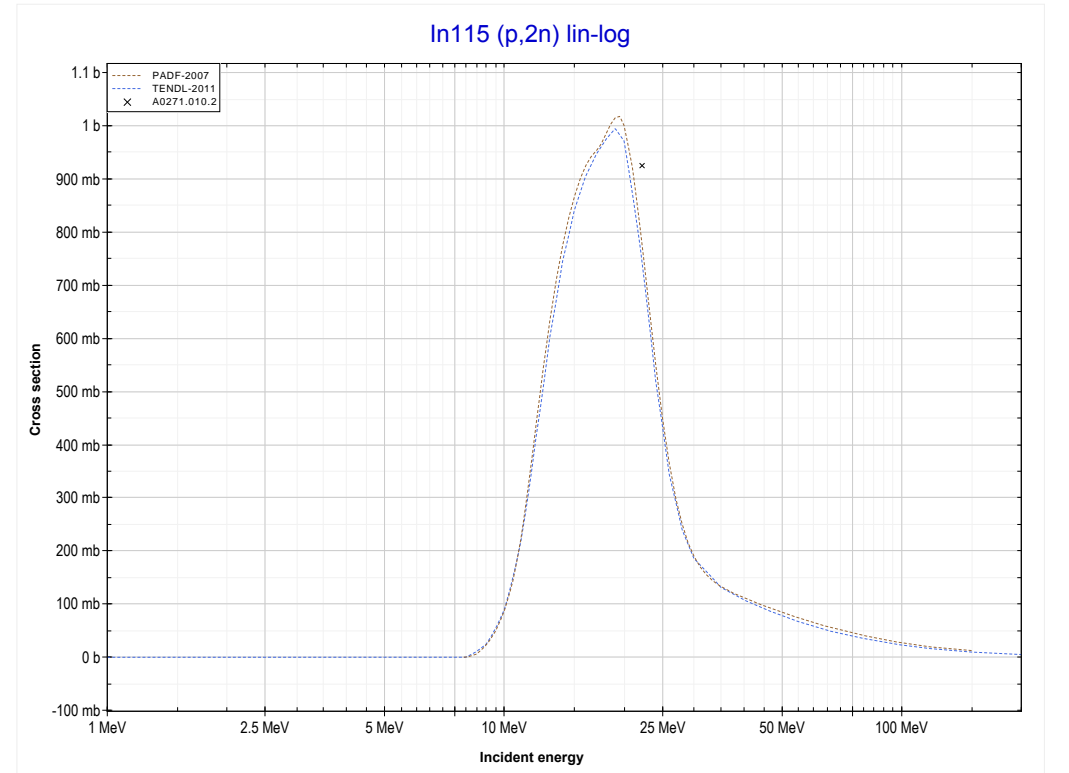
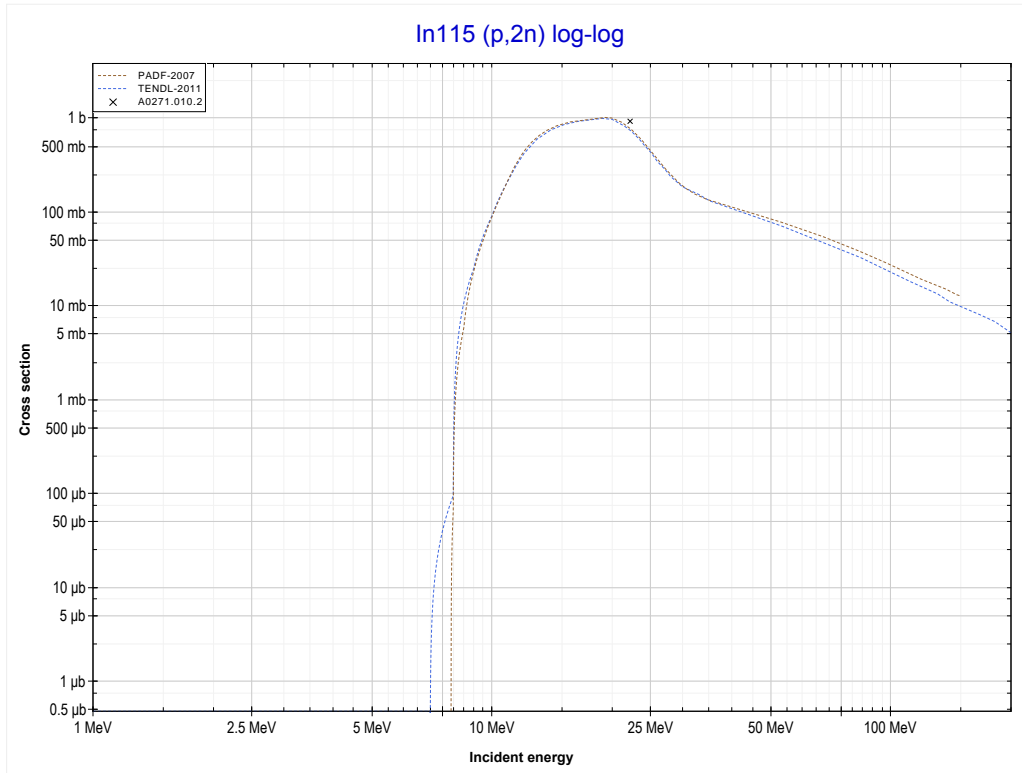
Reaction	Q-Value
In113(p,n)Sn113	-1819.35 keV

<< 49-In-113	<b>49-In-115</b>	50-Sn-115 >>
<< MT4 (p,n)	<b>MT4 (p,n) or MT5 (Sn115 production)</b>	MT16 (p,2n) >>



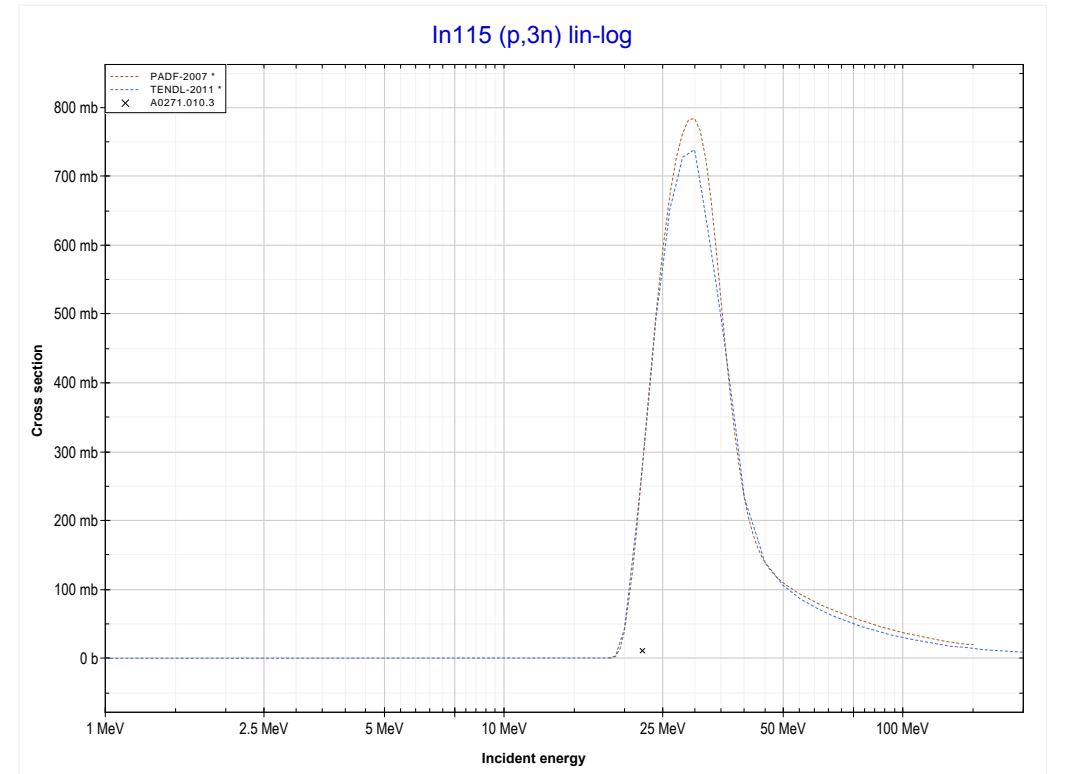
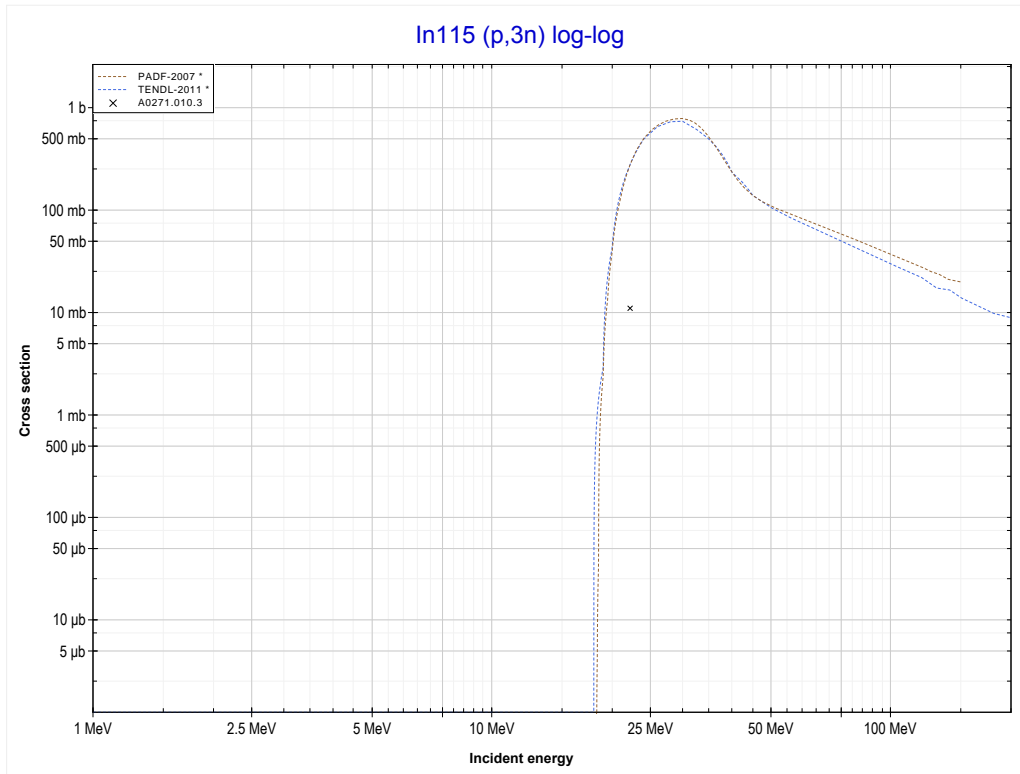
Reaction	Q-Value
In115(p,n)Sn115	-283.35 keV

<< 48-Cd-116	<b>49-In-115</b>	50-Sn-118 >>
<< MT4 (p,n)	<b>MT16 (p,2n) or MT5 (Sn114 production)</b>	MT17 (p,3n) >>



Reaction	Q-Value
In115(p,2n)Sn114	-7829.66 keV

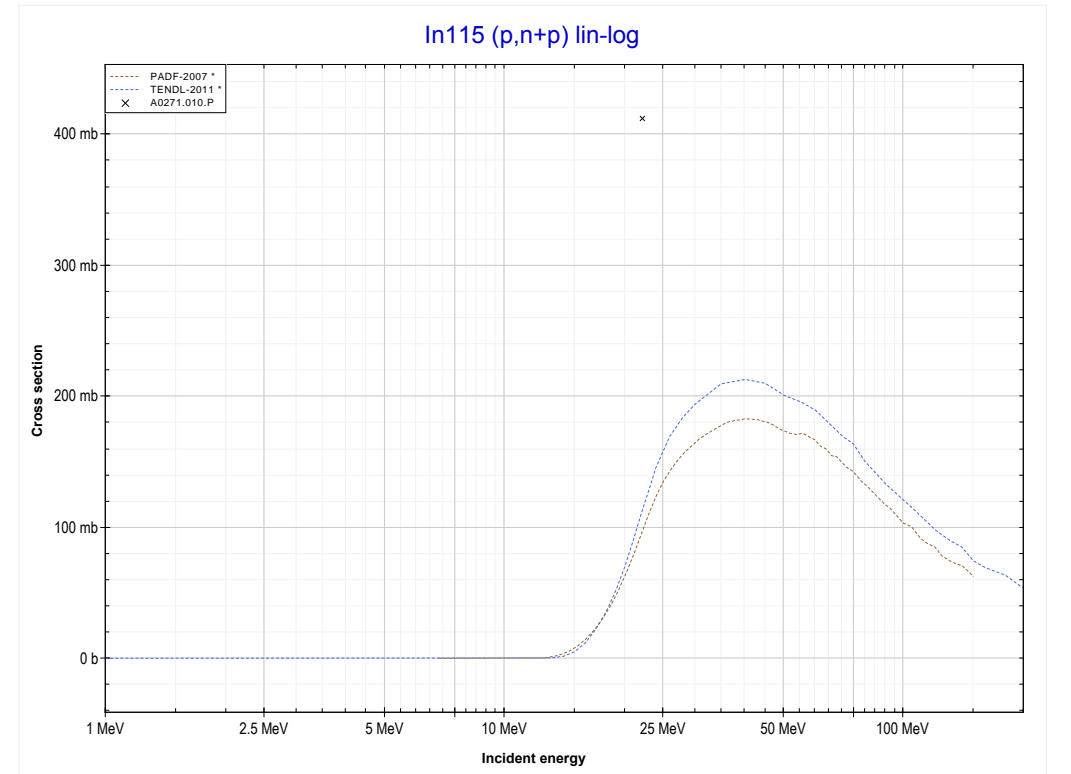
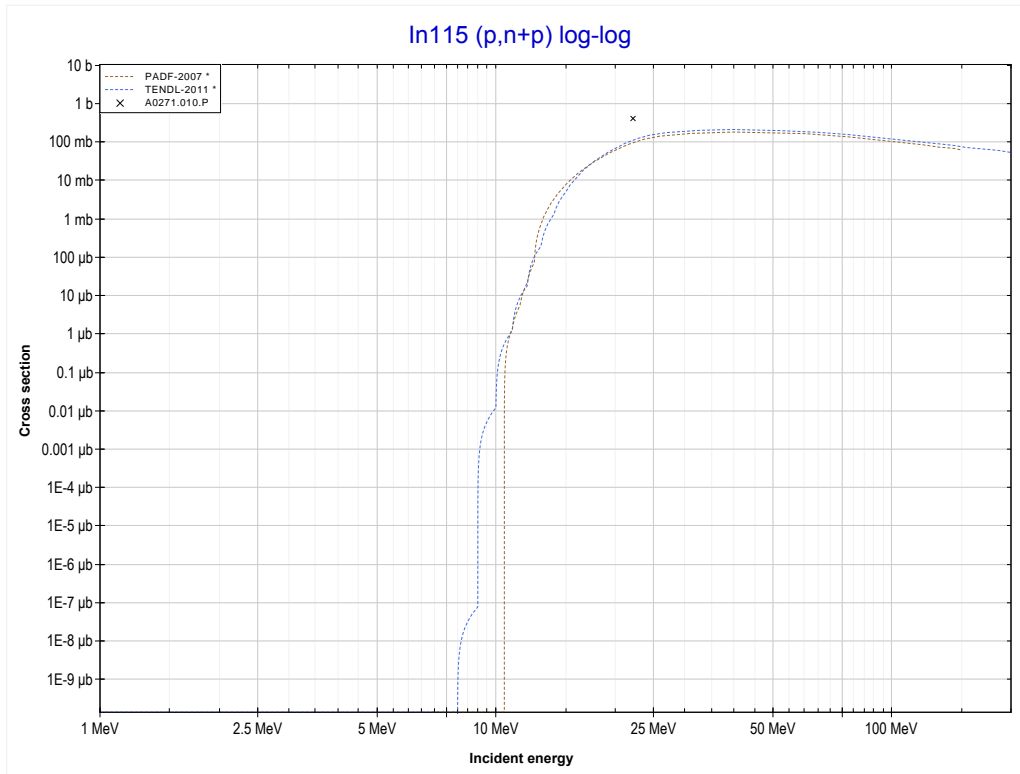
<< 48-Cd-116	<b>49-In-115</b>	50-Sn-118 >>
<< MT16 (p,2n)	<b>MT17 (p,3n) or MT5 (Sn113 production)</b>	MT28 (p,n+p) >>



Reaction	Q-Value
In115(p,3n)Sn113	-18128.98 keV

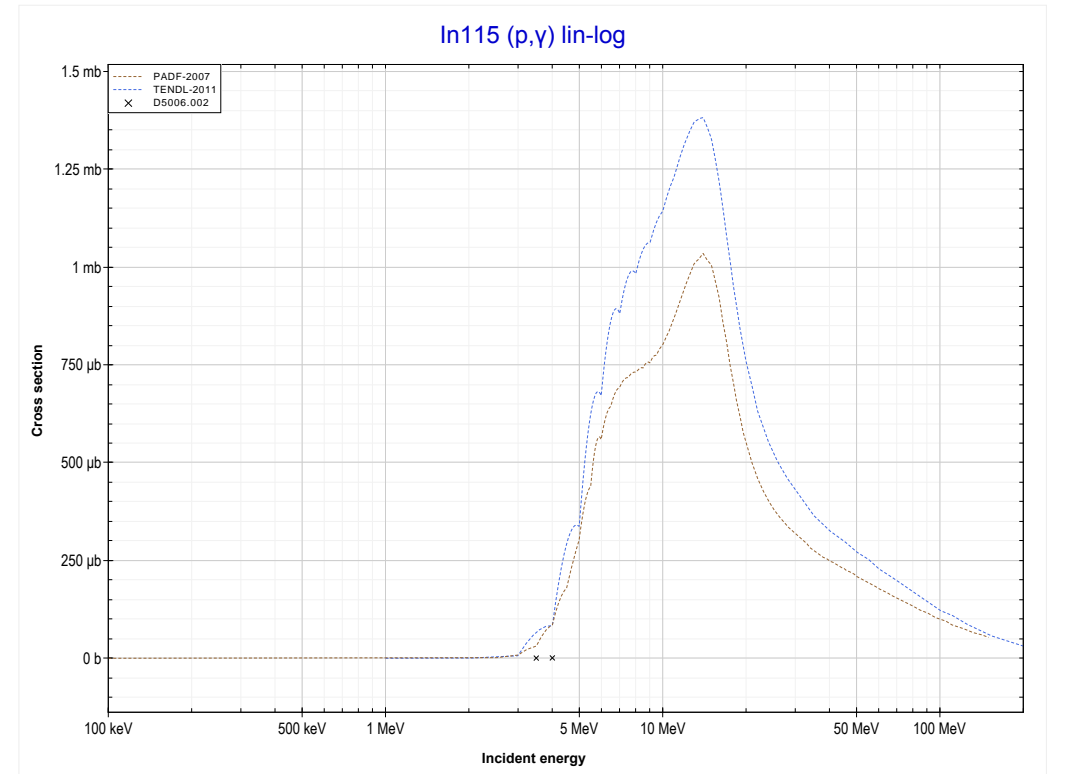
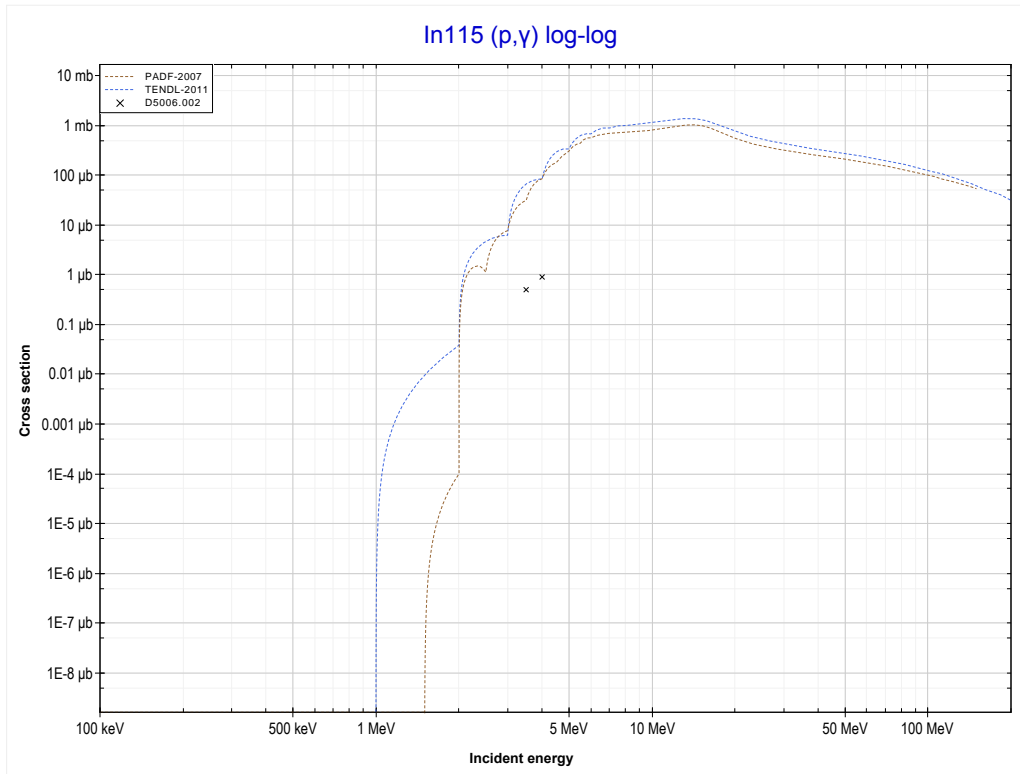


<< 48-Cd-110	<b>49-In-115</b>	51-Sb-123 >>
<< MT17 (p,3n)	<b>MT28 (p,n+p) or MT5 (In114 production)</b>	MT102 (p, $\gamma$ ) >>



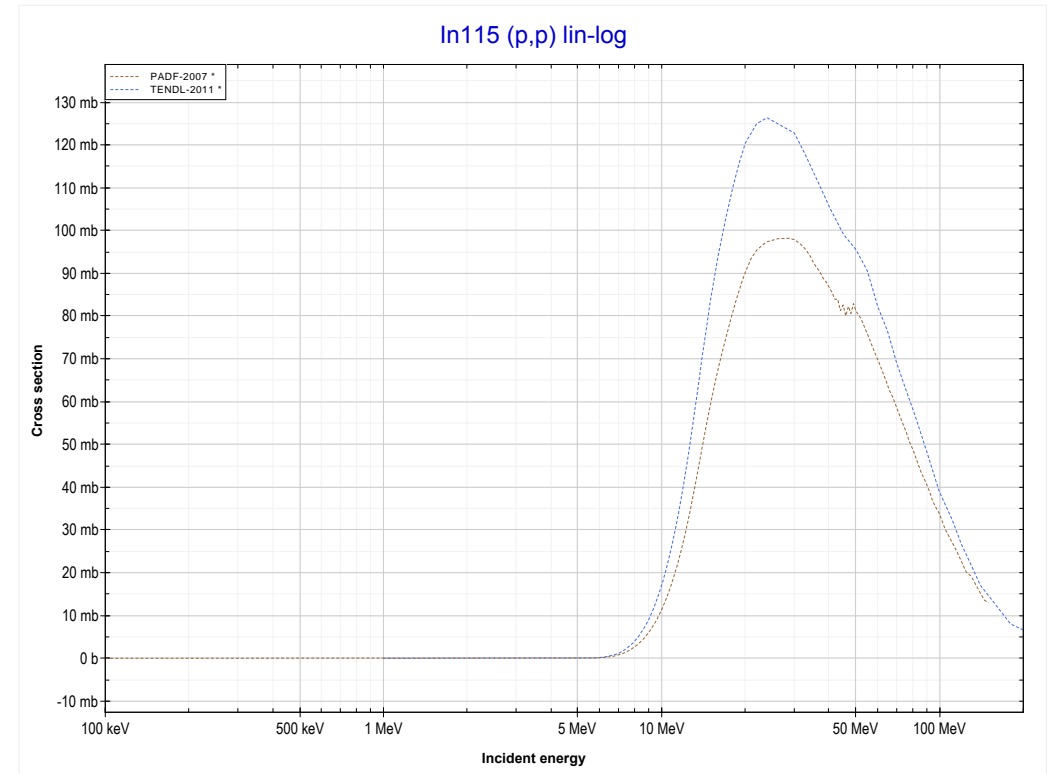
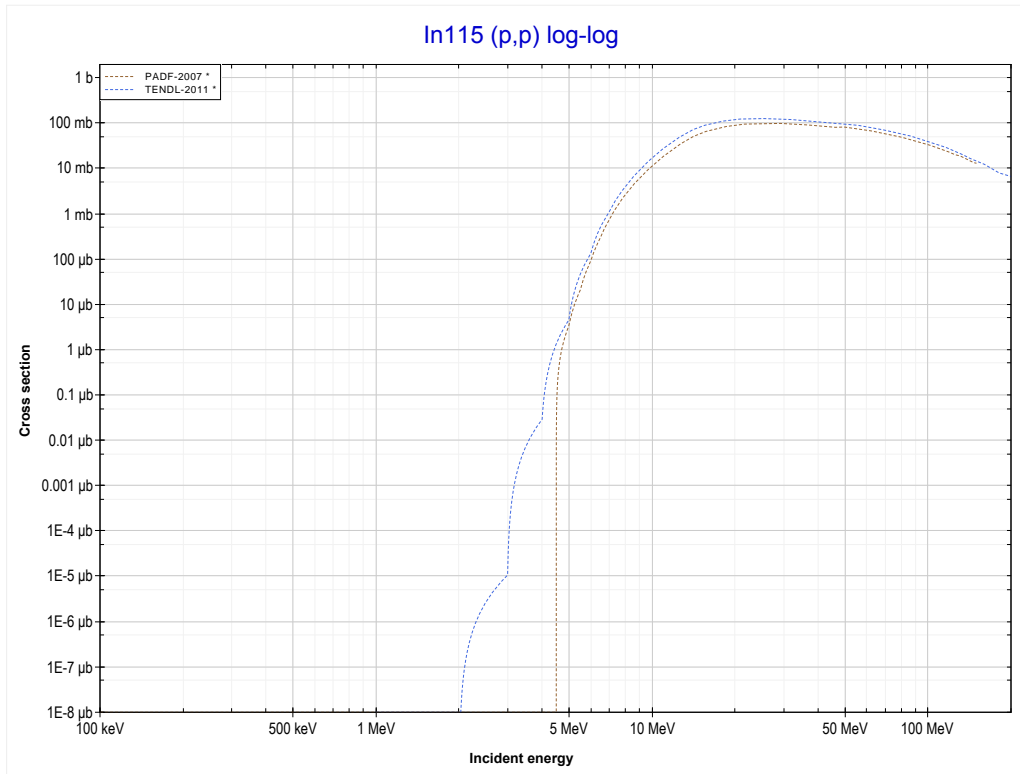
Reaction	Q-Value
$^{115}\text{In}(p,d)^{114}\text{In}$	-6811.75 keV
$^{115}\text{In}(p,n+p)^{114}\text{In}$	-9036.32 keV

<< 48-Cd-114	<b>49-In-115</b>	50-Sn-112 >>
<< MT28 (p,n+p)	<b>MT102 (p,<math>\gamma</math>) or MT5 (Sn116 production)</b>	MT103 (p,p) >>



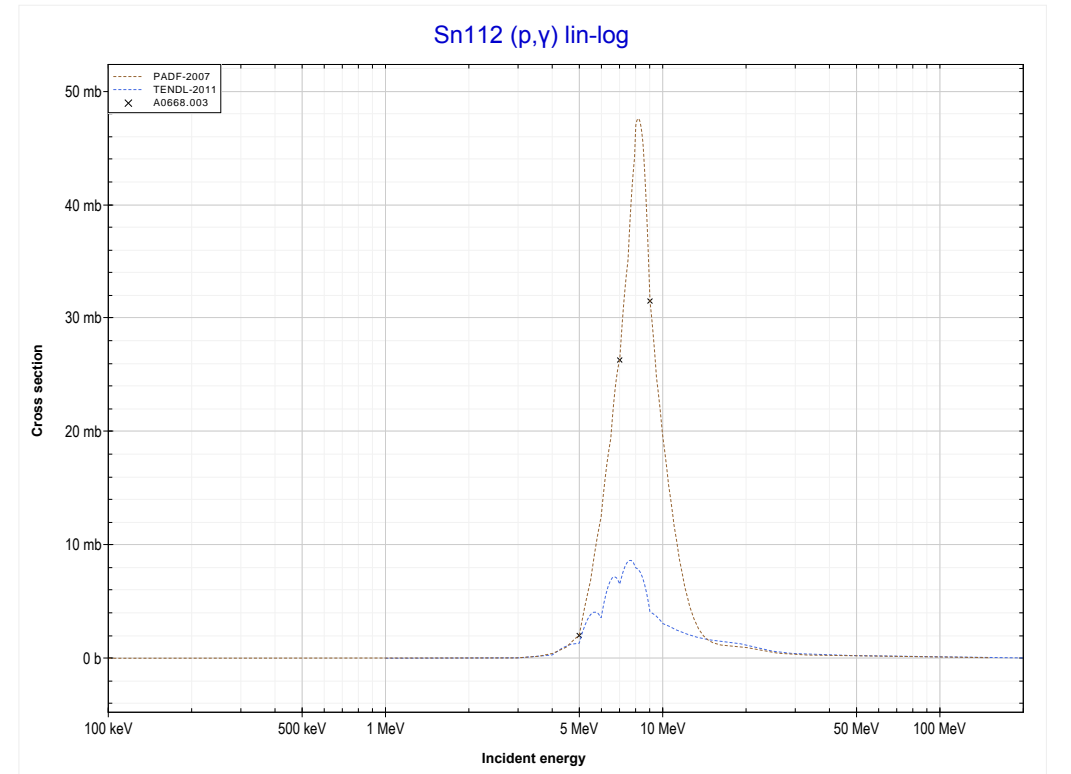
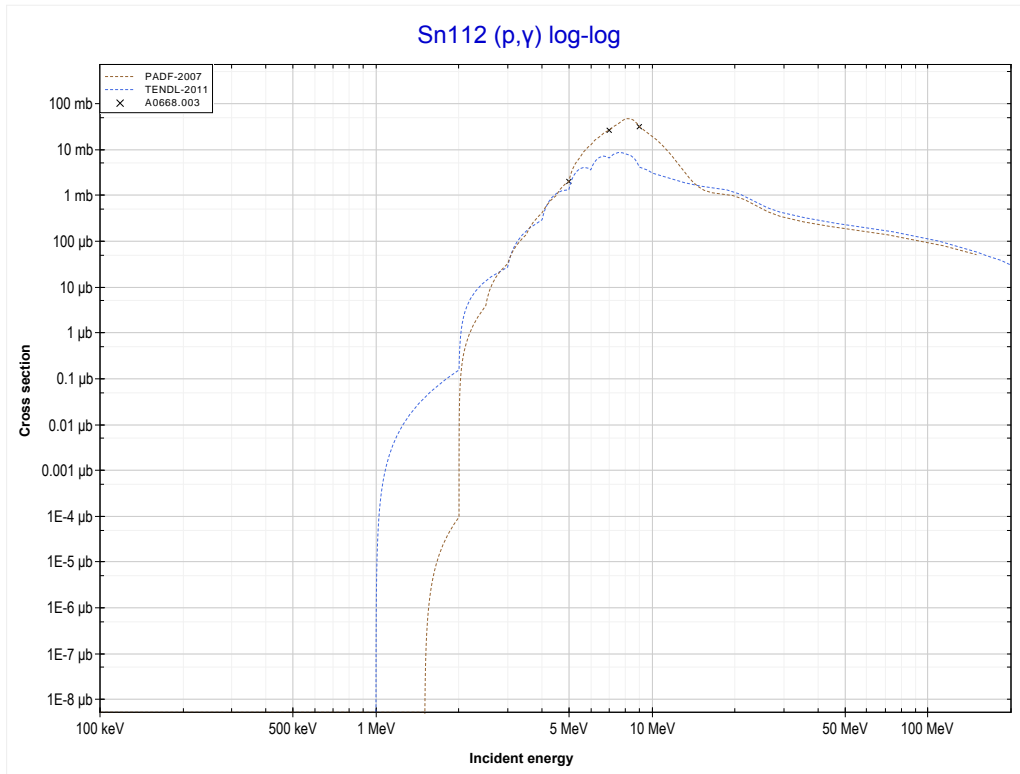
<b>Reaction</b>	<b>Q-Value</b>
In115(p, $\gamma$ )Sn116	9280.07 keV

<< 41-Nb-93	<b>49-In-115</b>	67-Ho-165 >>
<< MT102 (p, $\gamma$ )	<b>MT103 (p,p) or MT5 (In115 production)</b>	MT102 (p, $\gamma$ ) >>



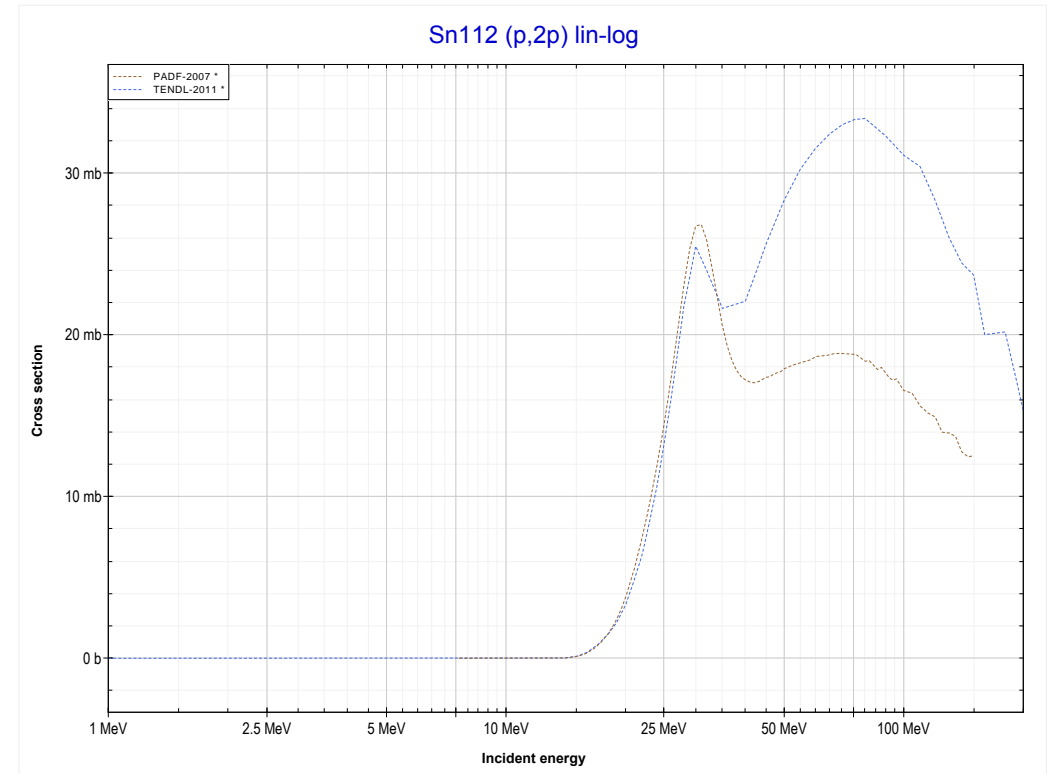
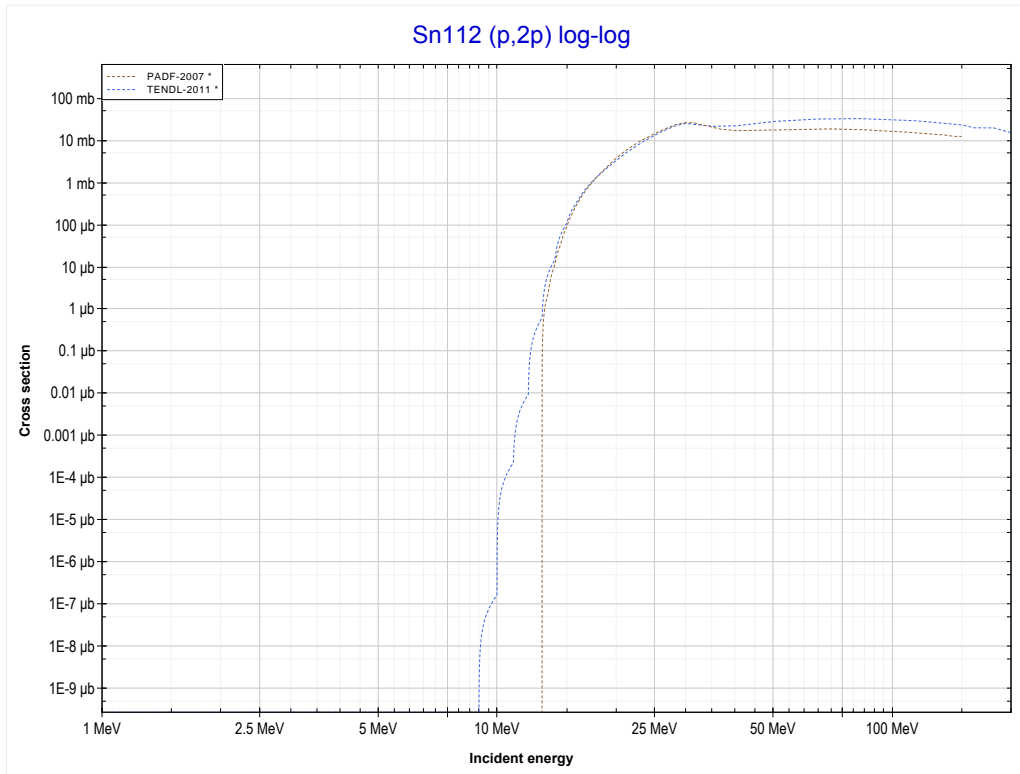
Reaction	Q-Value
In115(p,p)In115	0.00 keV

<< 49-In-115	<b>50-Sn-112</b>	52-Te-120 >>
<< MT103 (p,p)	<b>MT102 (p,<math>\gamma</math>) or MT5 (Sb113 production)</b>	MT111 (p,2p) >>



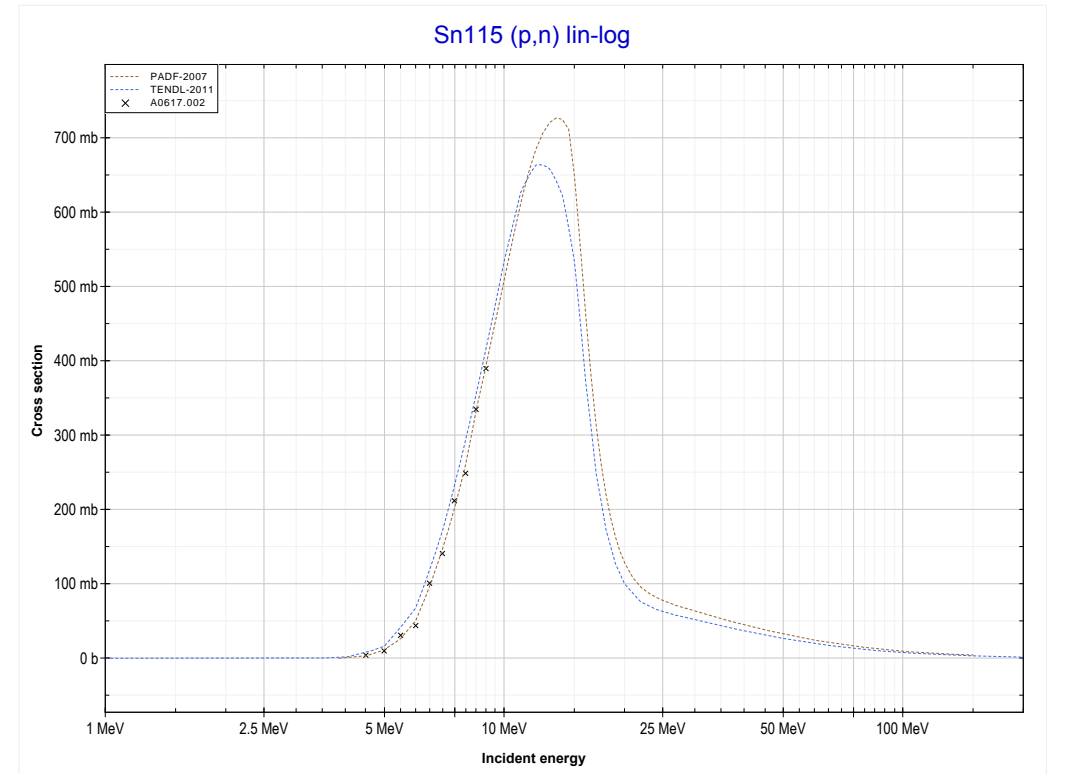
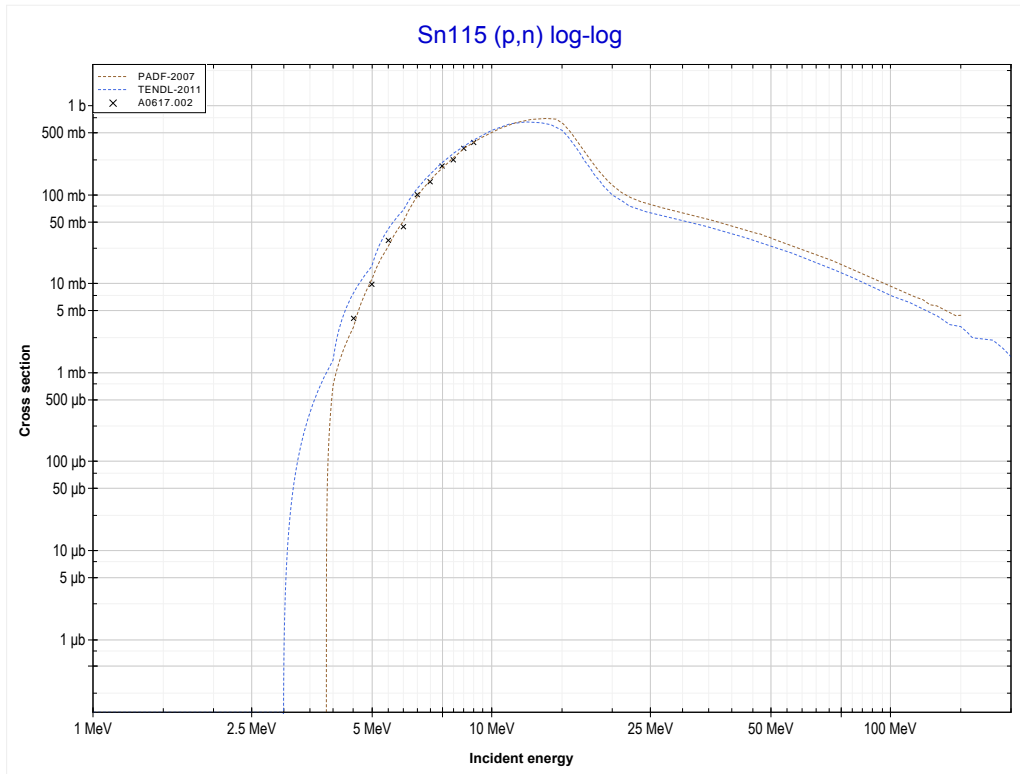
Reaction	Q-Value
Sn112(p, $\gamma$ )Sb113	3047.97 keV

<< 48-Cd-113	<b>50-Sn-112</b>	50-Sn-118 >>
<< MT102 (p, $\gamma$ )	<b>MT111 (p,2p) or MT5 (In111 production)</b>	MT4 (p,n) >>



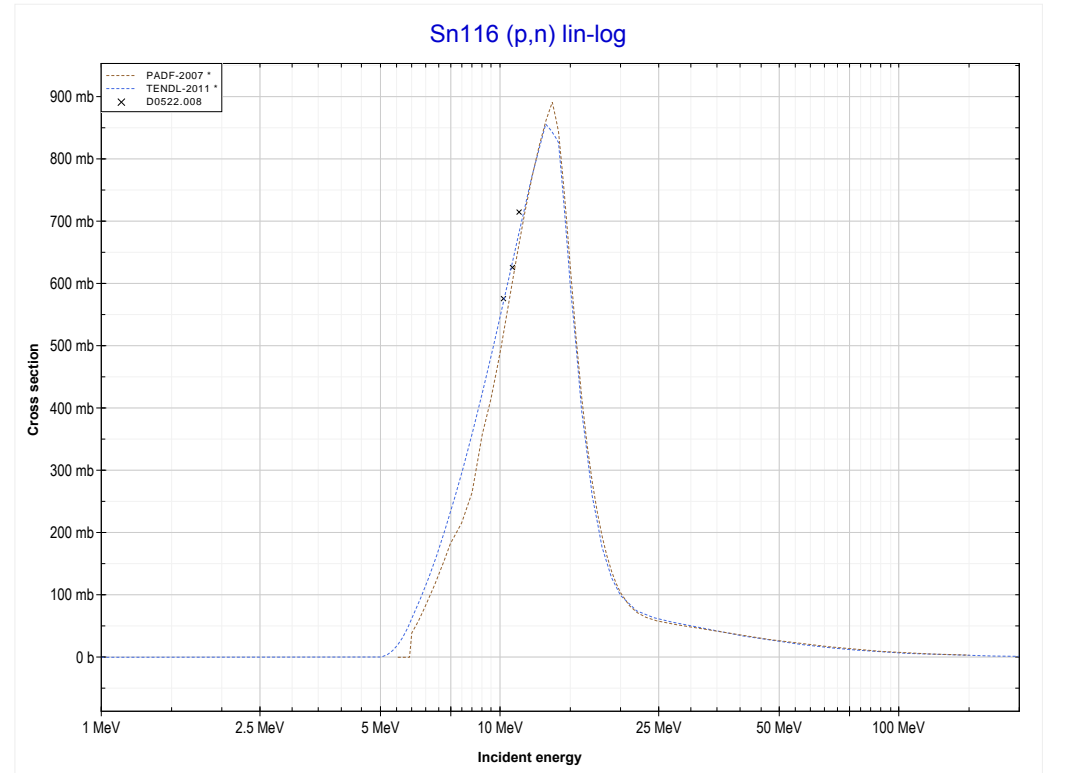
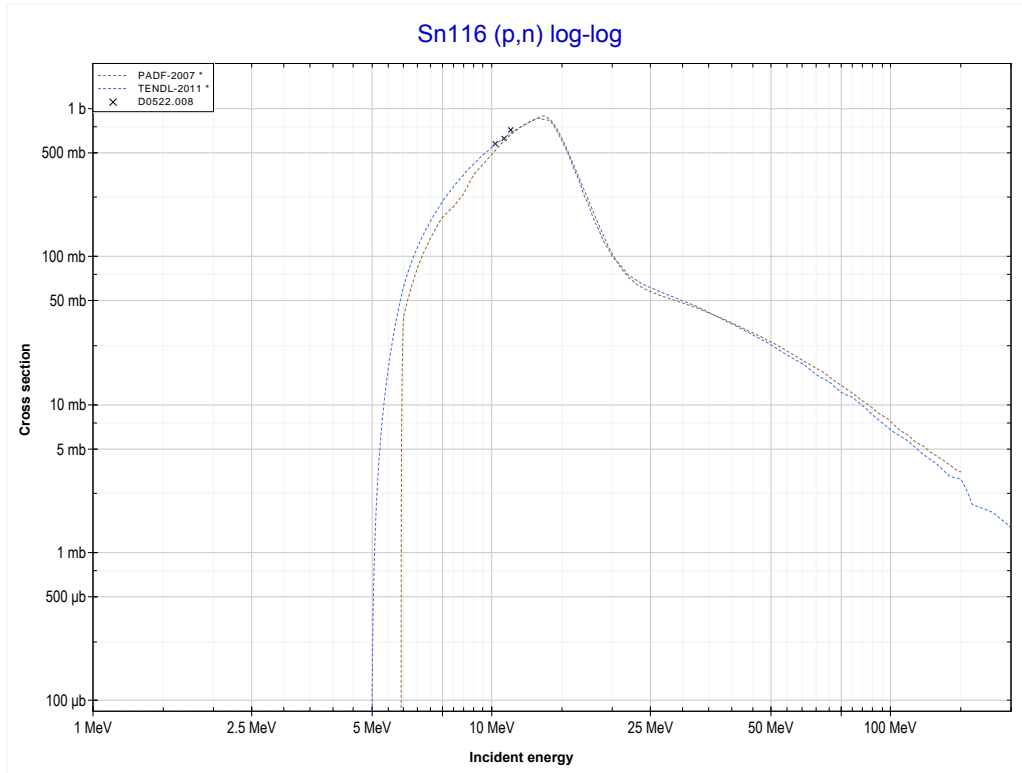
Reaction	Q-Value
Sn112(p,2p)In111	-7553.97 keV

<< 49-In-115	<b>50-Sn-115</b>	50-Sn-116 >>
<< MT111 (p,2p)	<b>MT4 (p,n) or MT5 (Sb115 production)</b>	MT4 (p,n) >>



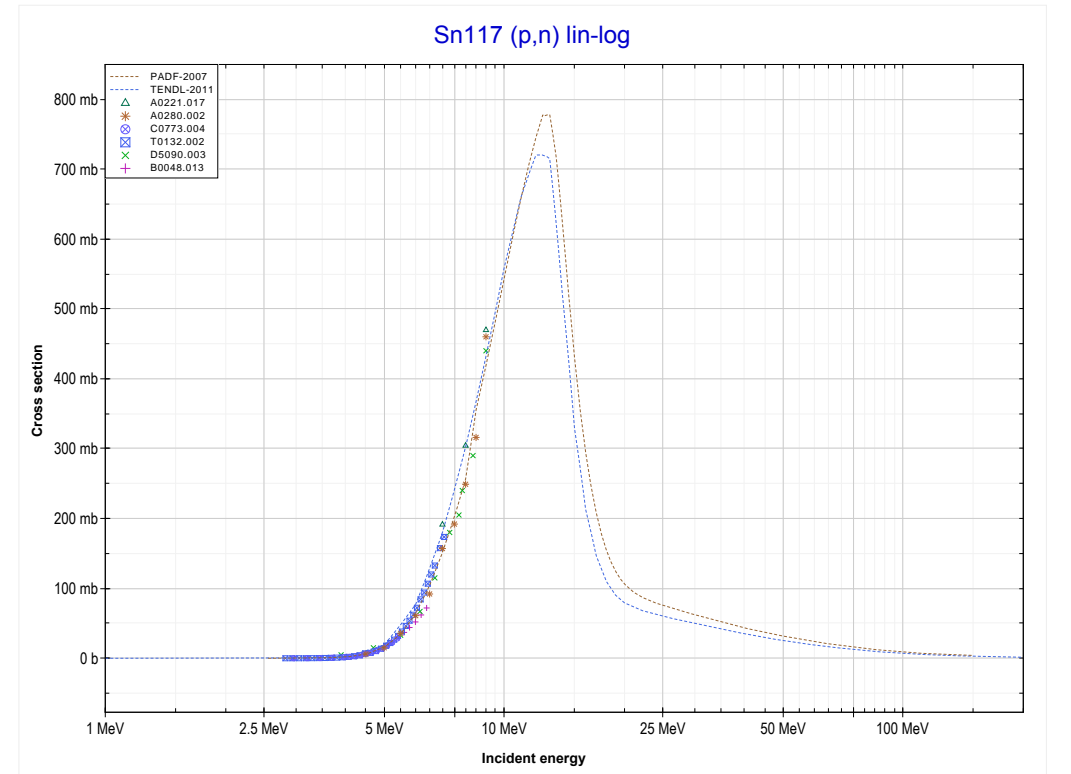
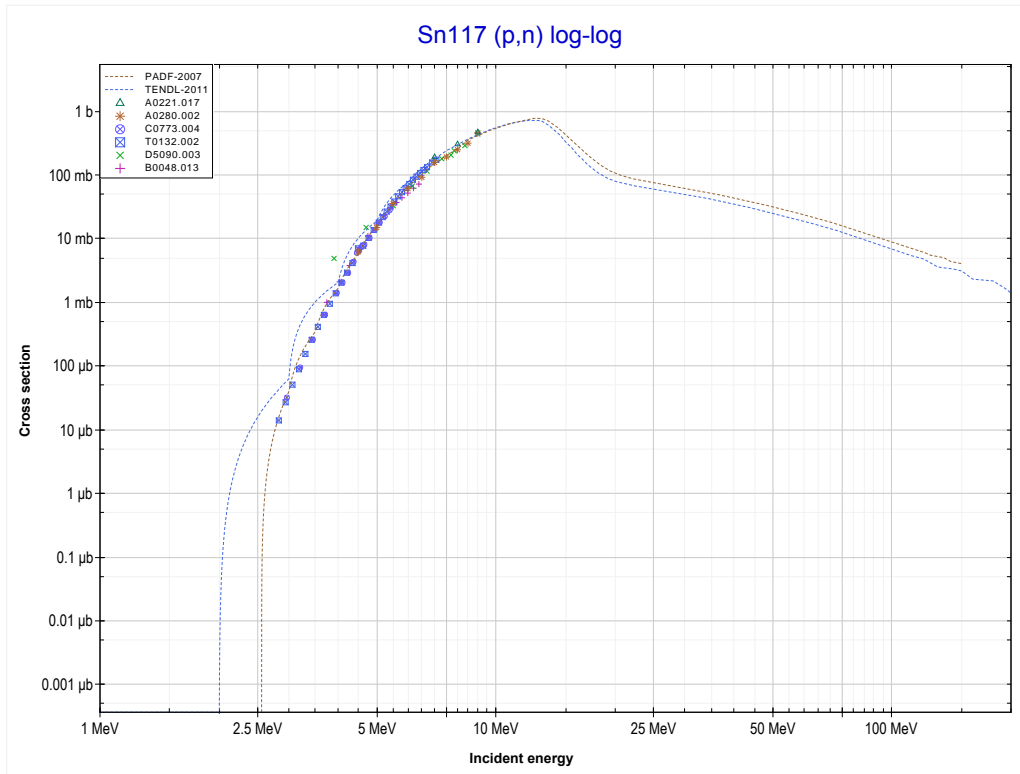
Reaction	Q-Value
Sn115(p,n)Sb115	-3815.35 keV

<< 50-Sn-115	<b>50-Sn-116</b>	50-Sn-117 >>
<< MT4 (p,n)	<b>MT4 (p,n) or MT5 (Sb116 production)</b>	MT4 (p,n) >>



<b>Reaction</b>	<b>Q-Value</b>
Sn116(p,n)Sb116	-5489.45 keV

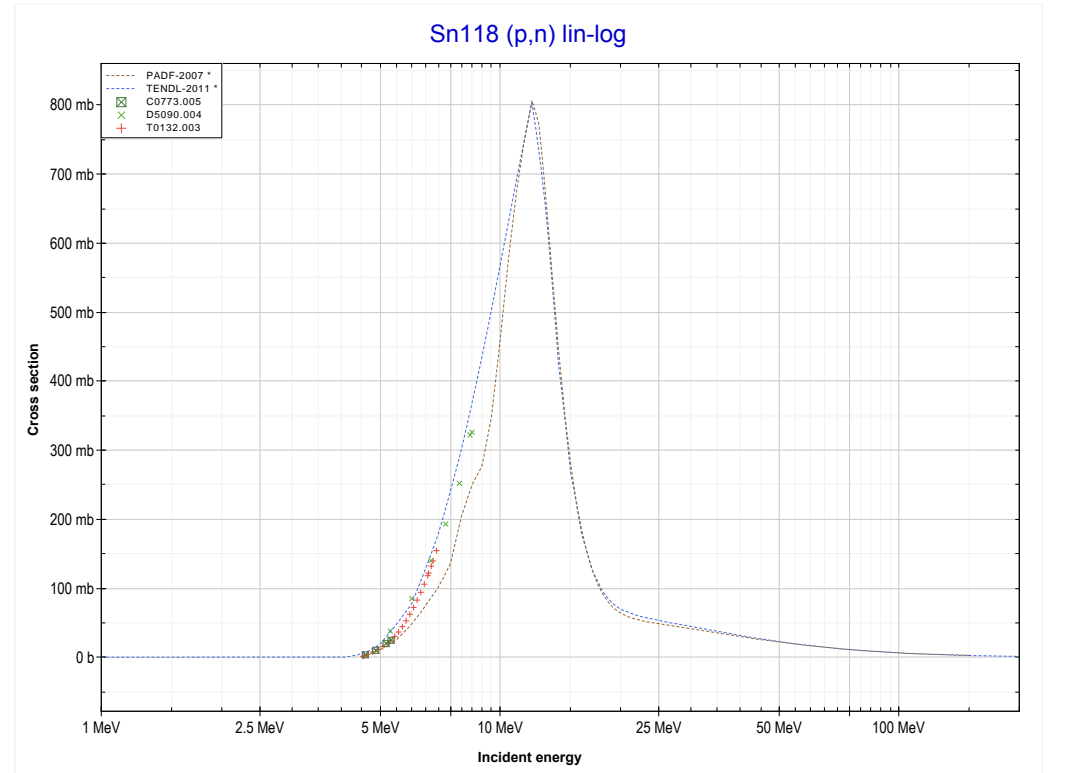
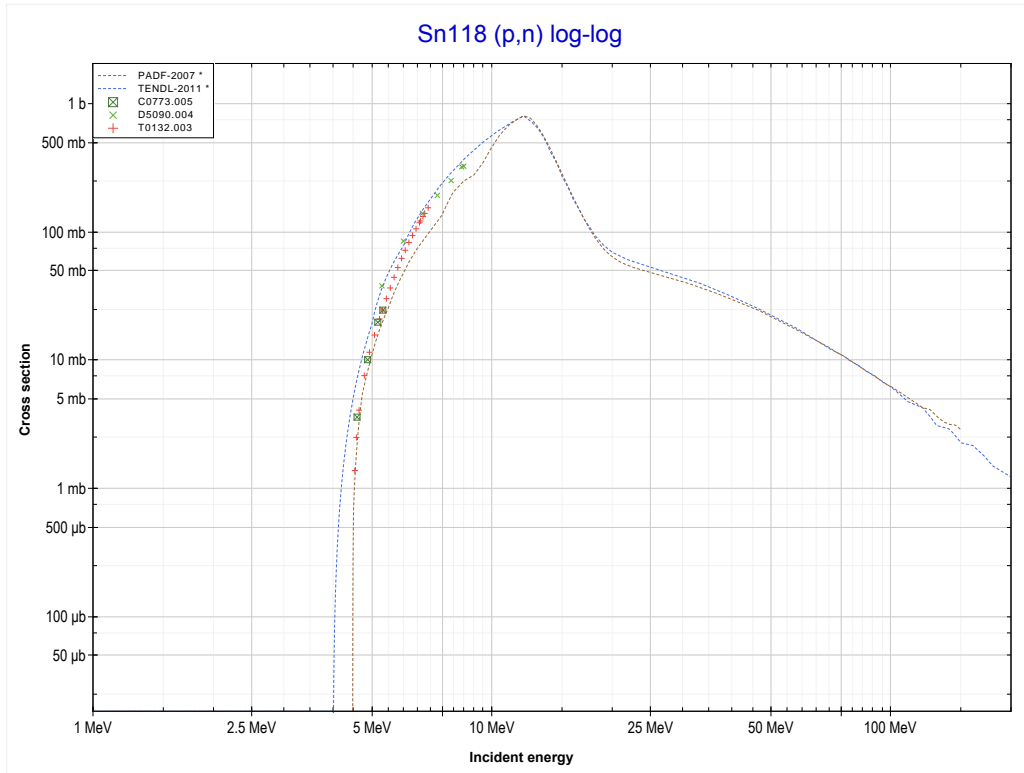
<< 50-Sn-116	<b>50-Sn-117</b>	50-Sn-118 >>
<< MT4 (p,n)	<b>MT4 (p,n) or MT5 (Sb117 production)</b>	MT4 (p,n) >>



Reaction	Q-Value
Sn117(p,n)Sb117	-2537.35 keV

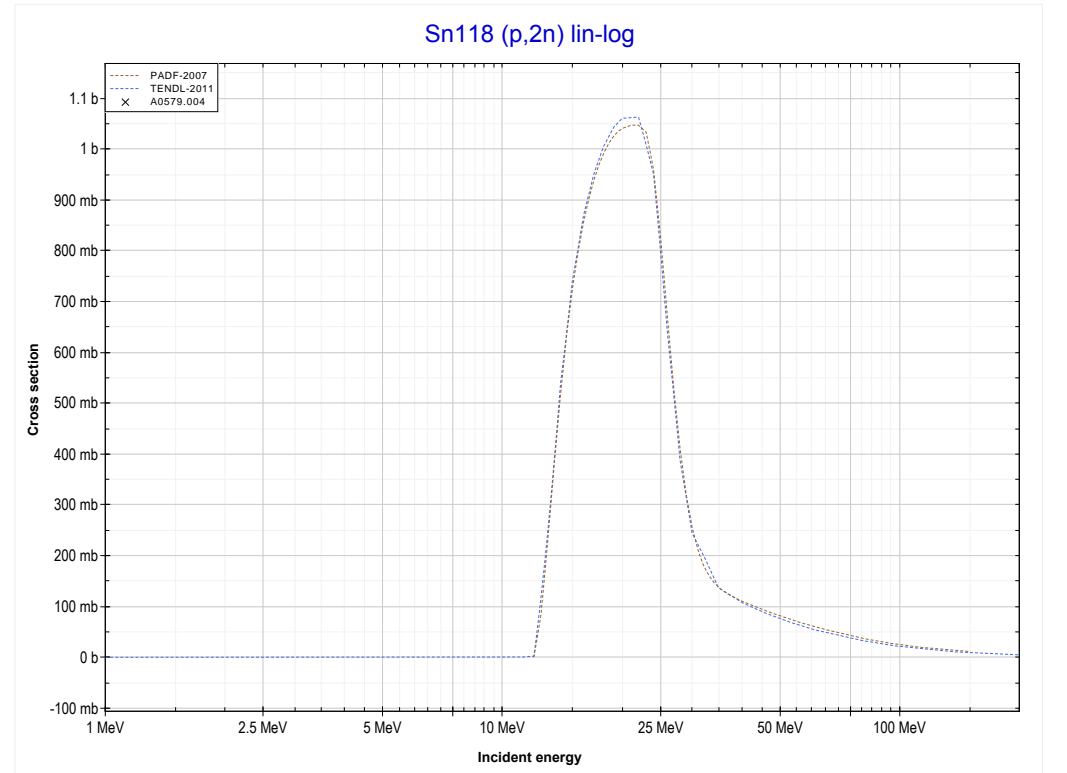
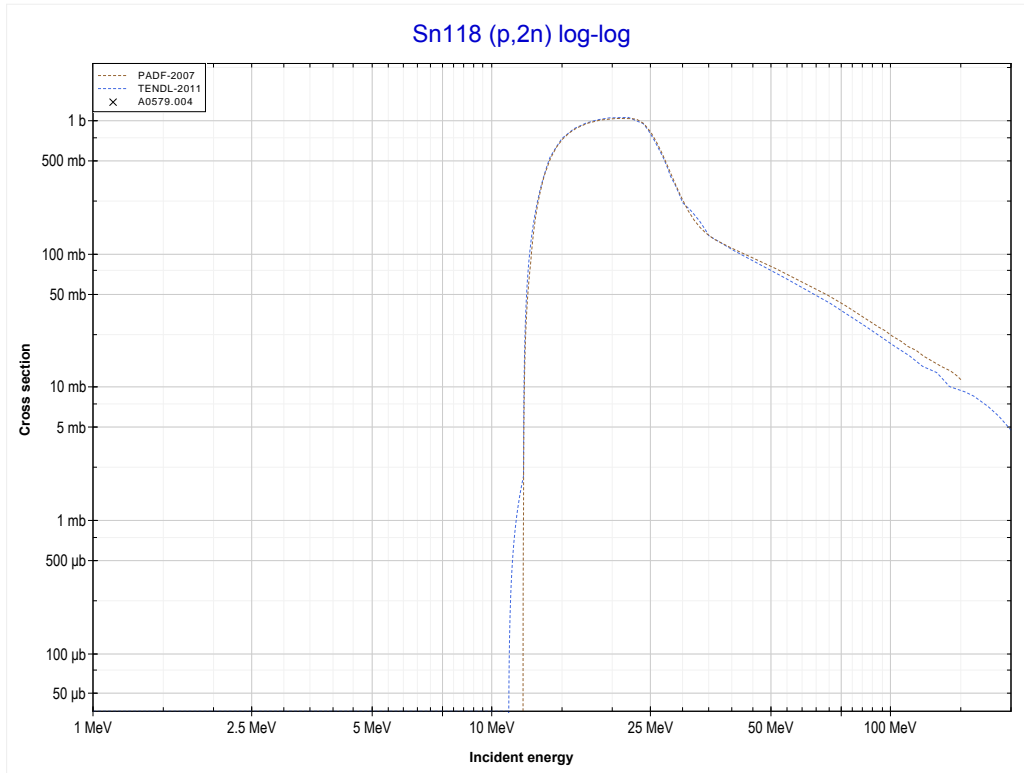


<< 50-Sn-117	<b>50-Sn-118</b>	50-Sn-119 >>
<< MT4 (p,n)	<b>MT4 (p,n) or MT5 (Sb118 production)</b>	MT16 (p,2n) >>



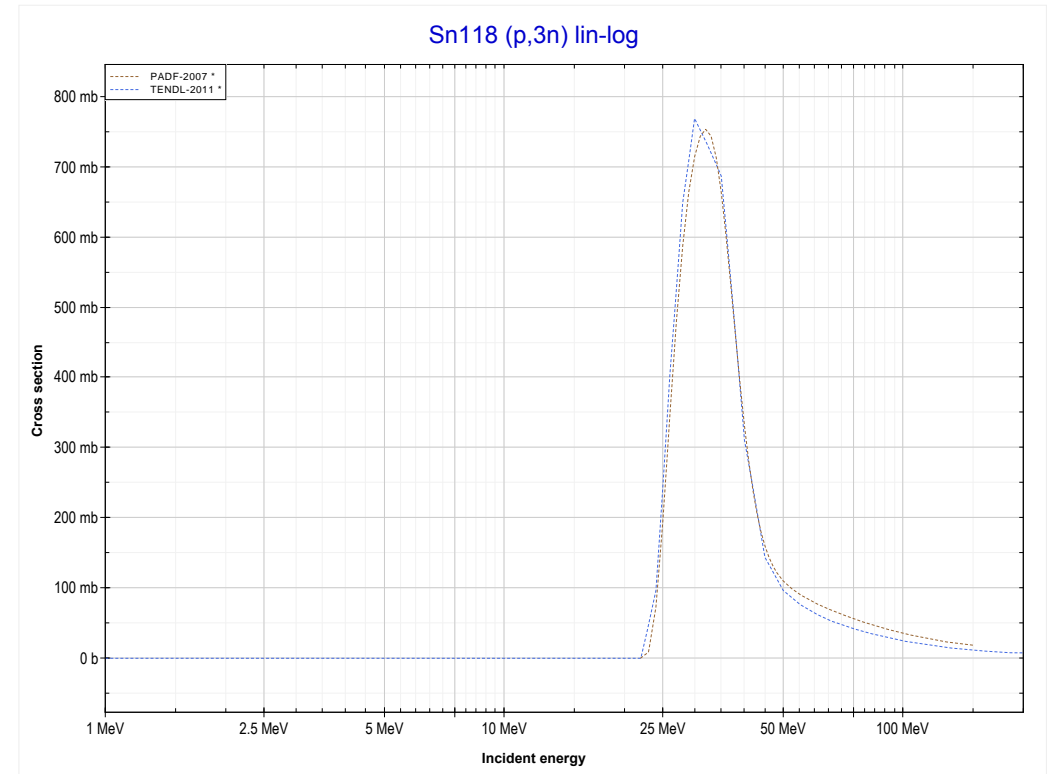
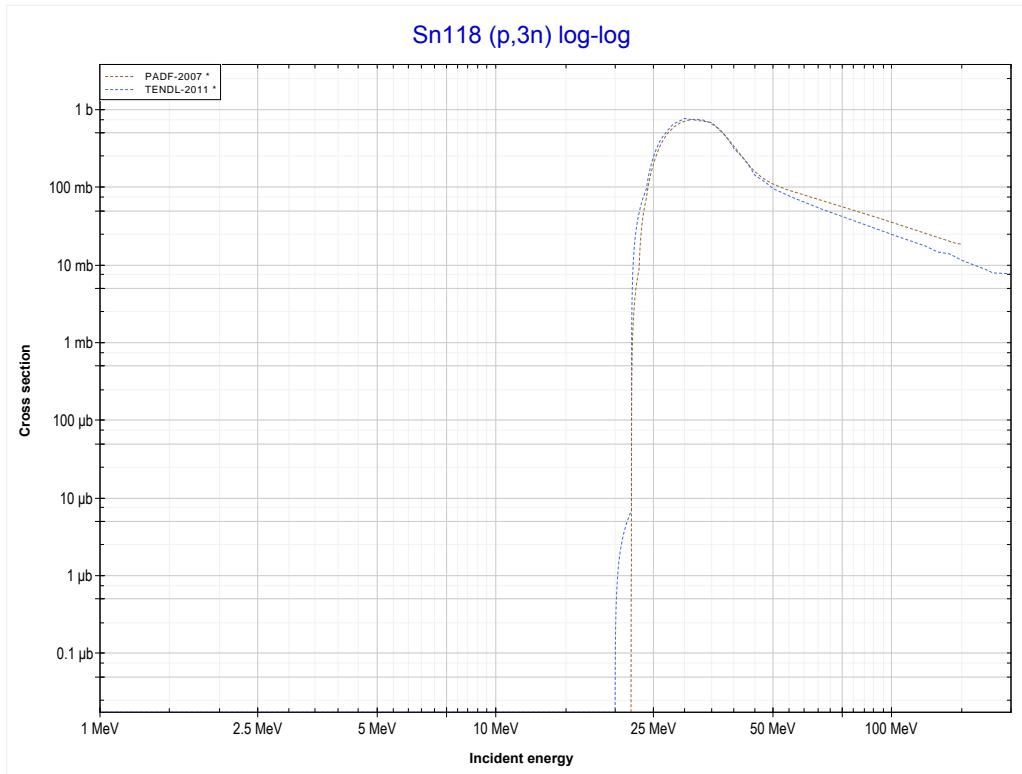
Reaction	Q-Value
Sn118(p,n)Sb118	-4439.45 keV

<< 49-In-115	<b>50-Sn-118</b>	50-Sn-119 >>
<< MT4 (p,n)	<b>MT16 (p,2n) or MT5 (Sb117 production)</b>	MT17 (p,3n) >>



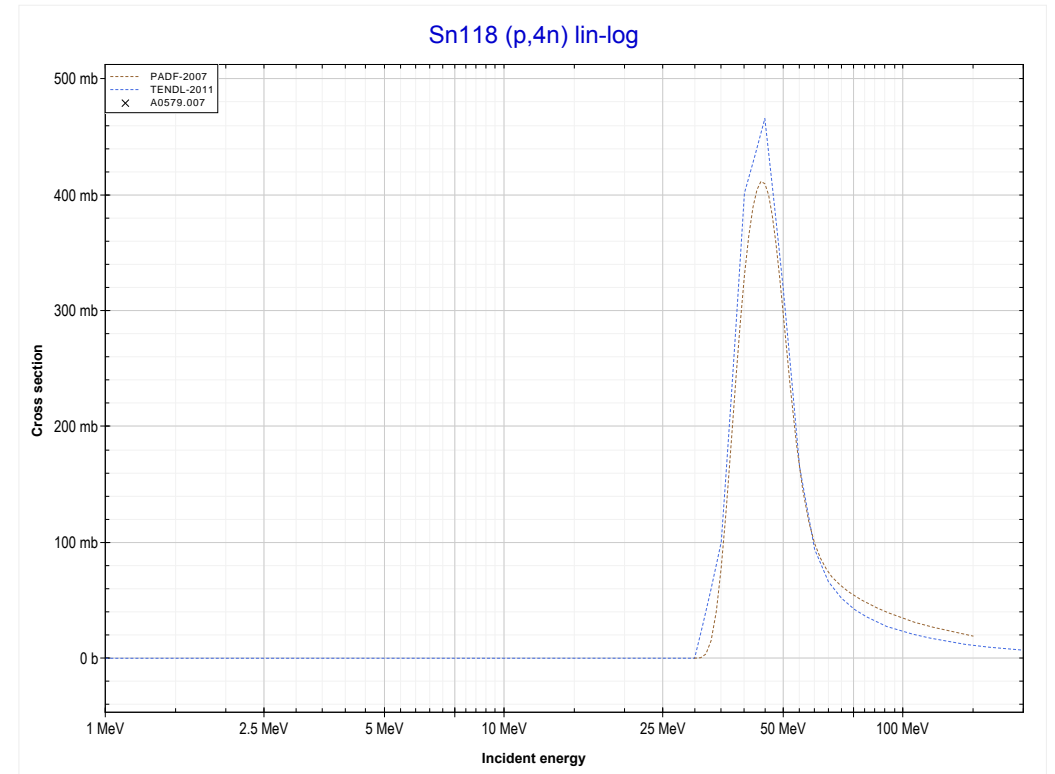
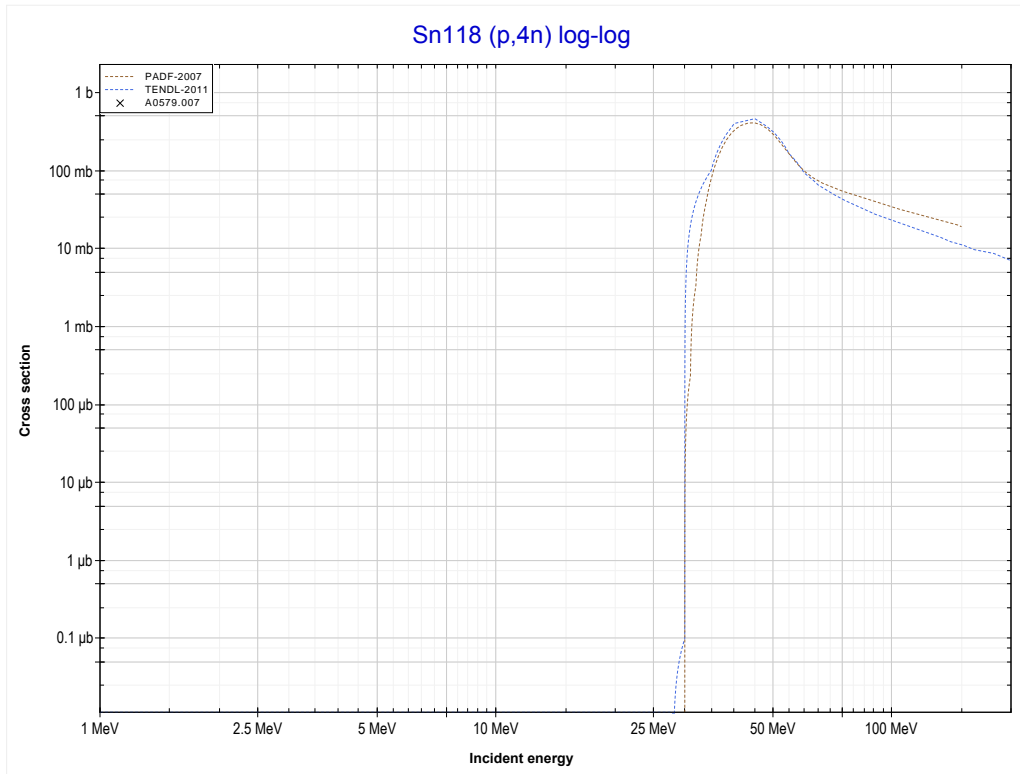
Reaction	Q-Value
Sn118(p,2n)Sb117	-11864.76 keV

<< 49-In-115	<b>50-Sn-118</b>	52-Te-122 >>
<< MT16 (p,2n)	<b>MT17 (p,3n) or MT5 (Sb116 production)</b>	MT37 (p,4n) >>



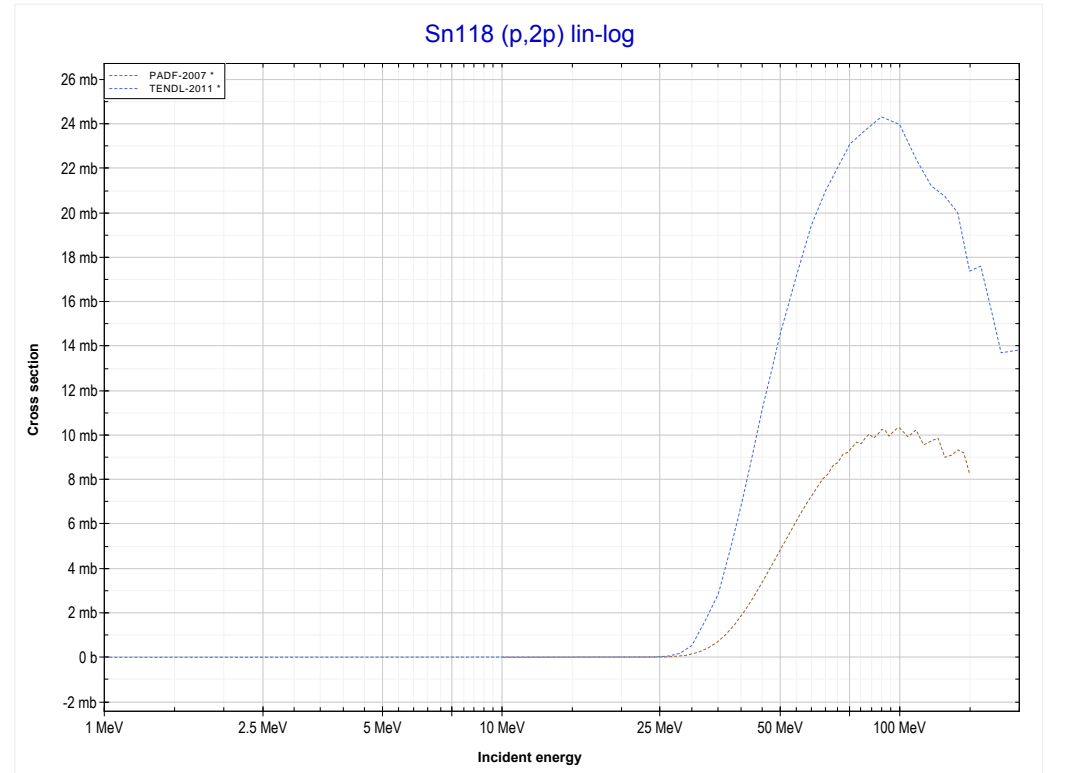
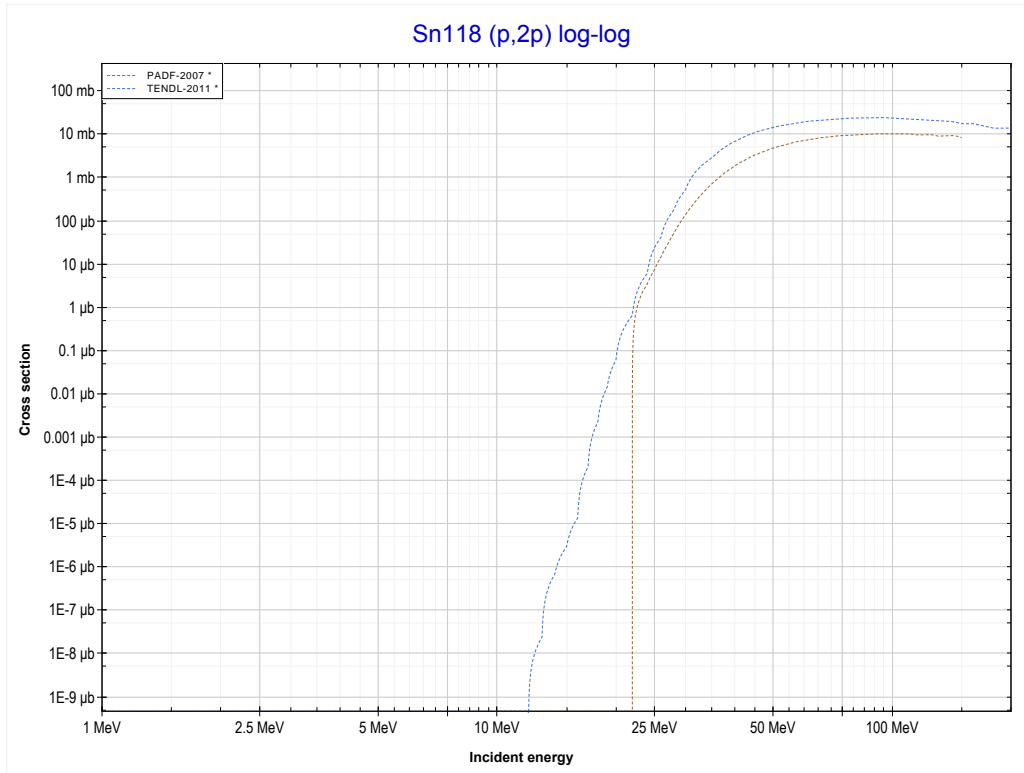
Reaction	Q-Value
Sn118(p,3n)Sb116	-21760.08 keV

<< 48-Cd-116	<b>50-Sn-118</b>	51-Sb-121 >>
<< MT17 (p,3n)	<b>MT37 (p,4n) or MT5 (Sb115 production)</b>	MT111 (p,2p) >>



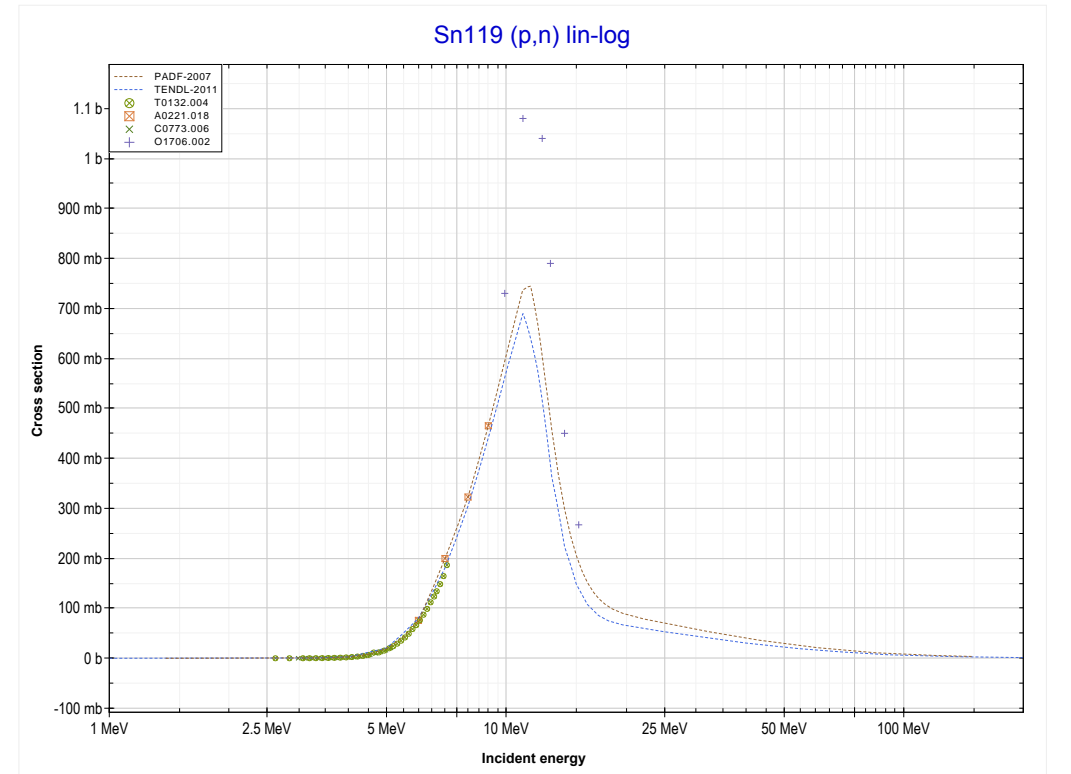
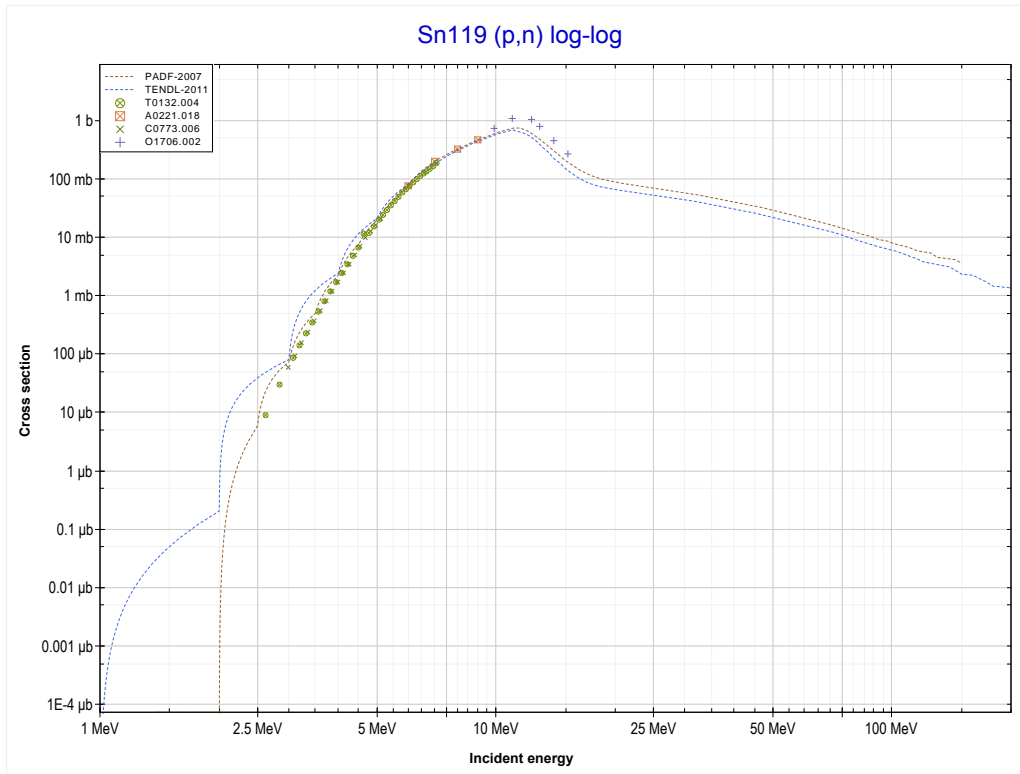
Reaction	Q-Value
Sn118(p,4n)Sb115	-29649.40 keV

<< 50-Sn-112	<b>50-Sn-118</b>	52-Te-123 >>
<< MT37 (p,4n)	<b>MT111 (p,2p) or MT5 (In117 production)</b>	MT4 (p,n) >>



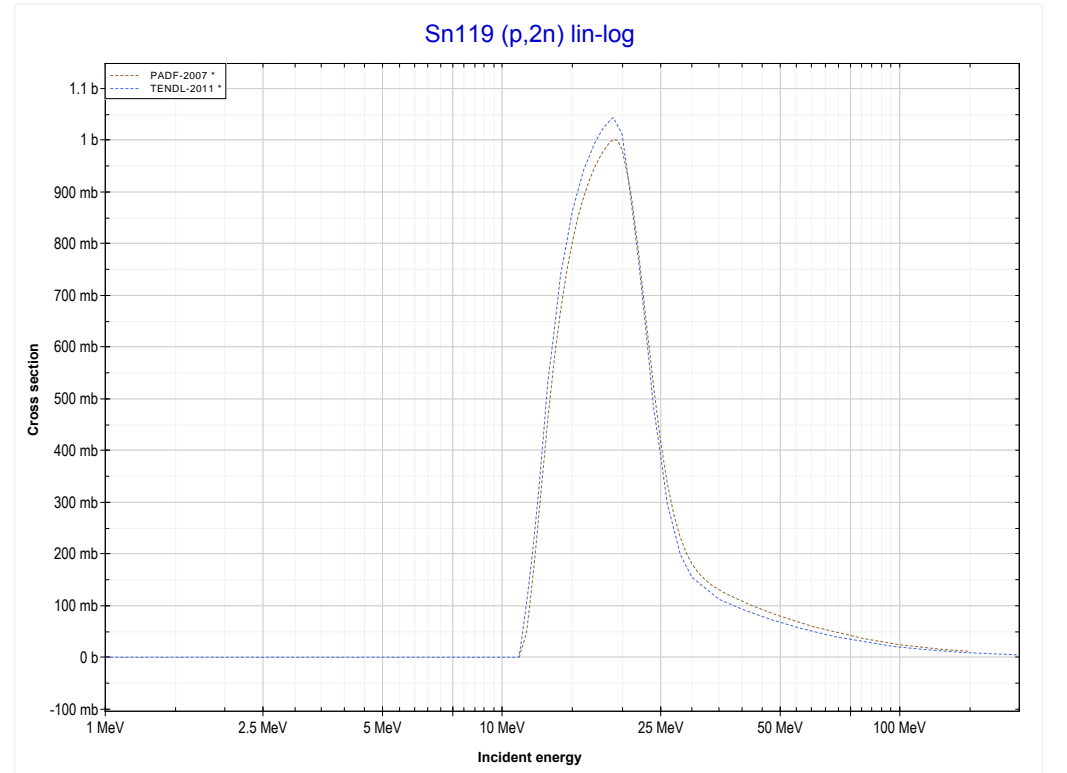
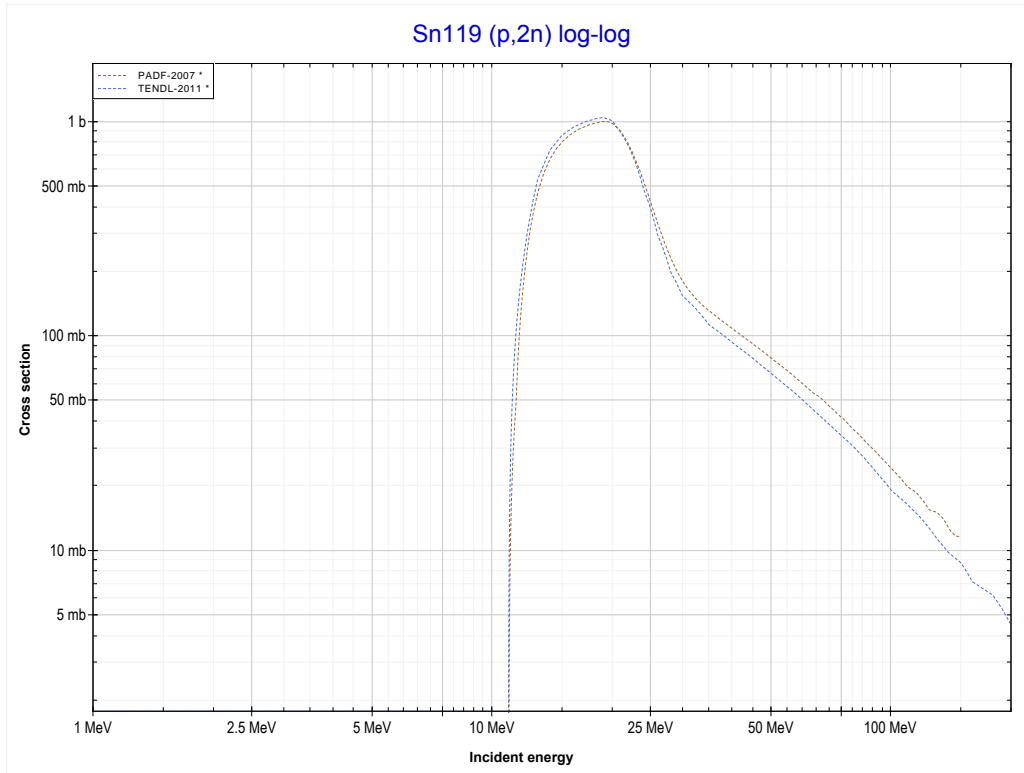
Reaction	Q-Value
Sn118(p,2p)In117	-10000.07 keV

<< 50-Sn-118	<b>50-Sn-119</b>	50-Sn-120 >>
<< MT111 (p,2p)	<b>MT4 (p,n) or MT5 (Sb119 production)</b>	MT16 (p,2n) >>



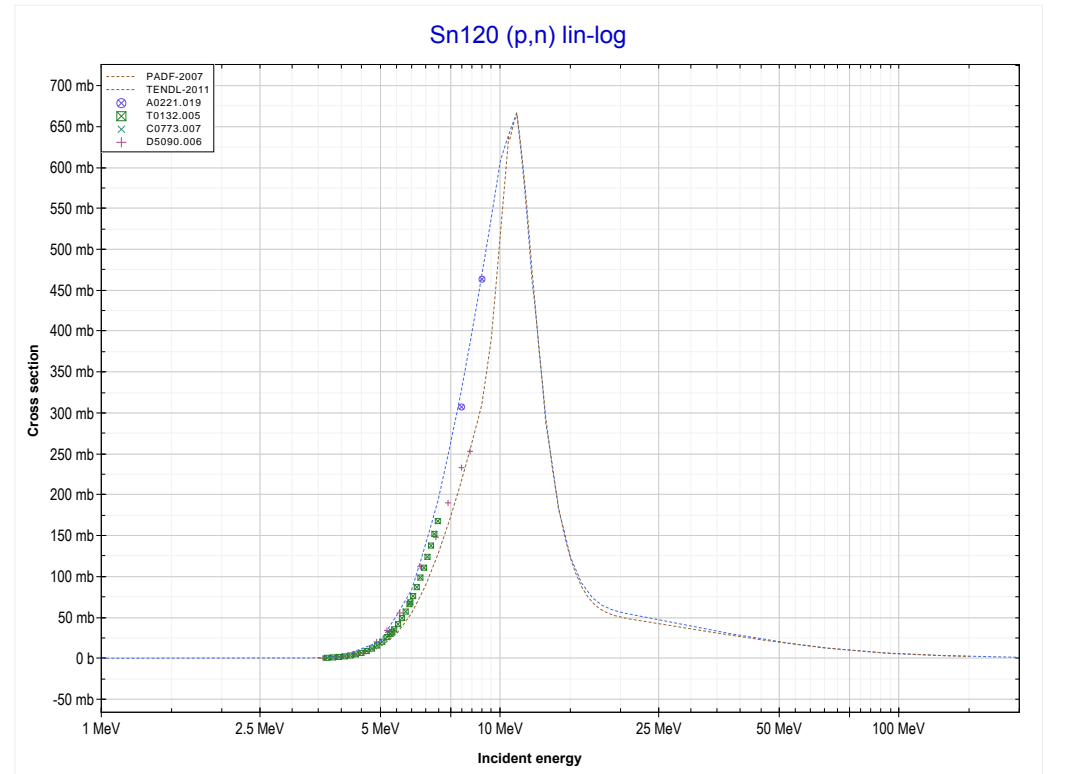
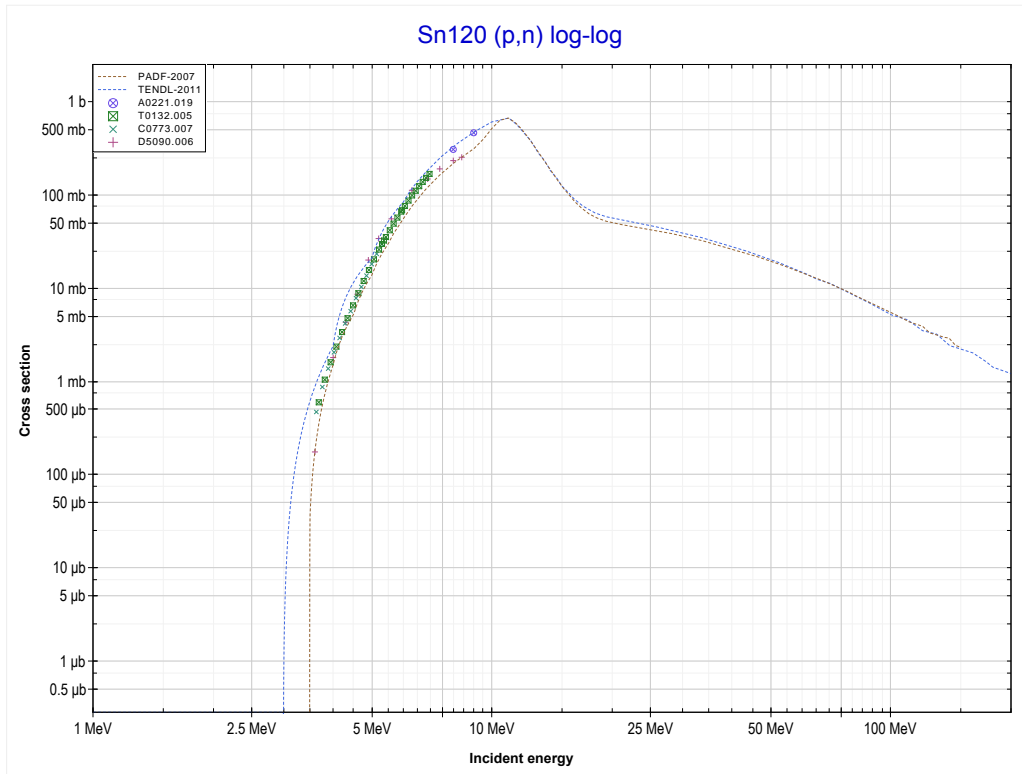
Reaction	Q-Value
Sn119(p,n)Sb119	-1373.75 keV

<< 50-Sn-118	<b>50-Sn-119</b>	52-Te-120 >>
<< MT4 (p,n)	<b>MT16 (p,2n) or MT5 (Sb118 production)</b>	MT4 (p,n) >>



Reaction	Q-Value
Sn119(p,2n)Sb118	-10923.06 keV

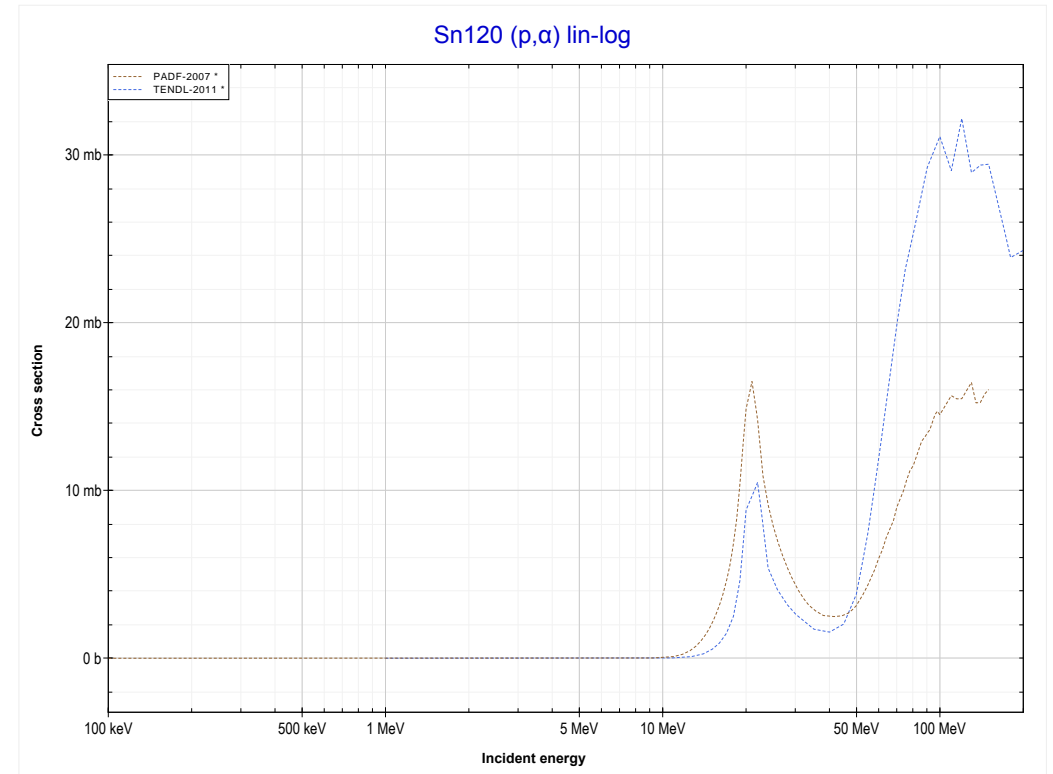
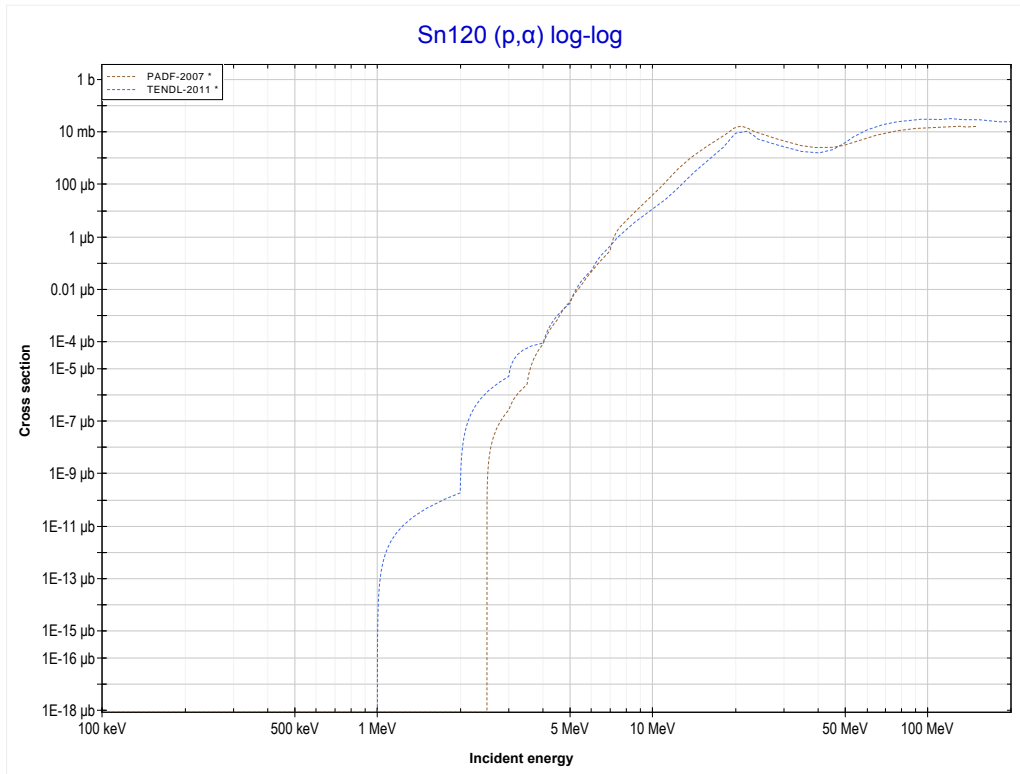
<< 50-Sn-119	<b>50-Sn-120</b>	50-Sn-122 >>
<< MT16 (p,2n)	<b>MT4 (p,n) or MT5 (Sb120 production)</b>	MT107 (p, $\alpha$ ) >>



Reaction	Q-Value
Sn120(p,n)Sb120	-3463.45 keV

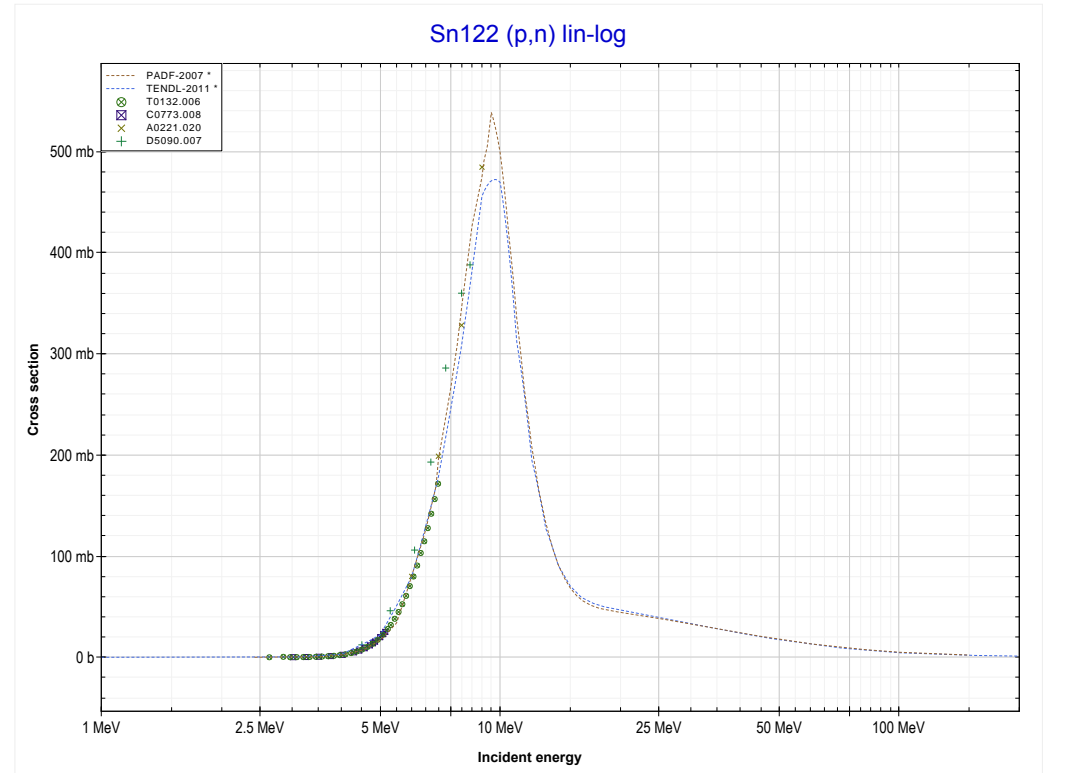
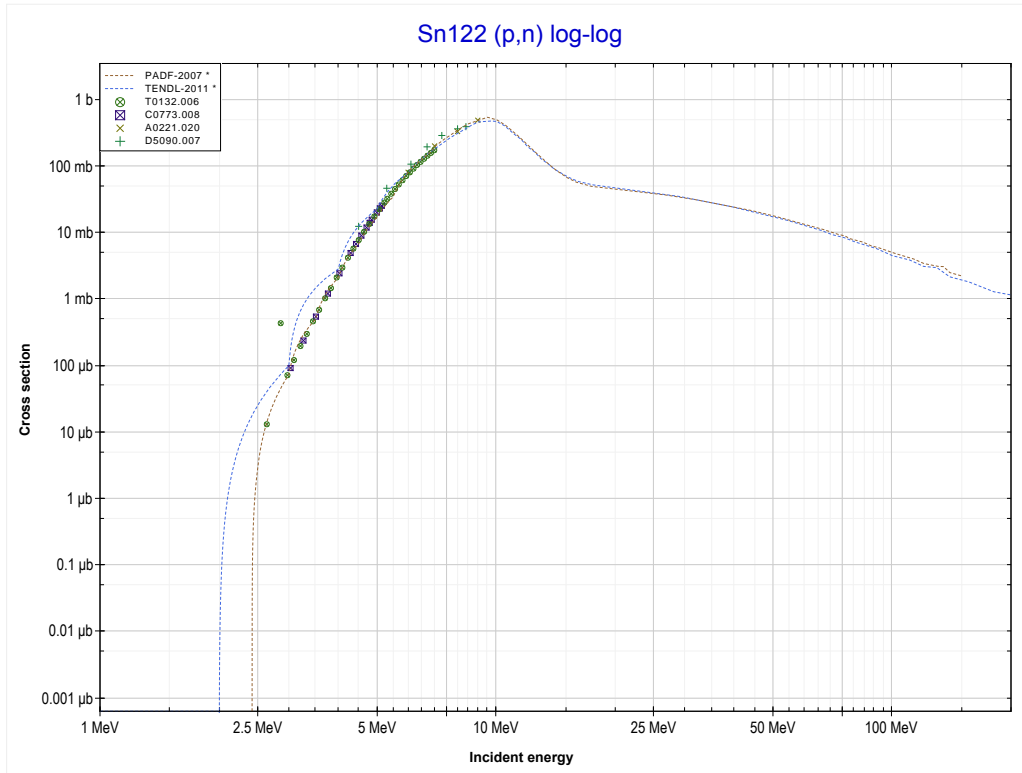


<< 48-Cd-114	<b>50-Sn-120</b>	54-Xe-124 >>
<< MT4 (p,n)	<b>MT107 (p,<math>\alpha</math>) or MT5 (In117 production)</b>	MT4 (p,n) >>



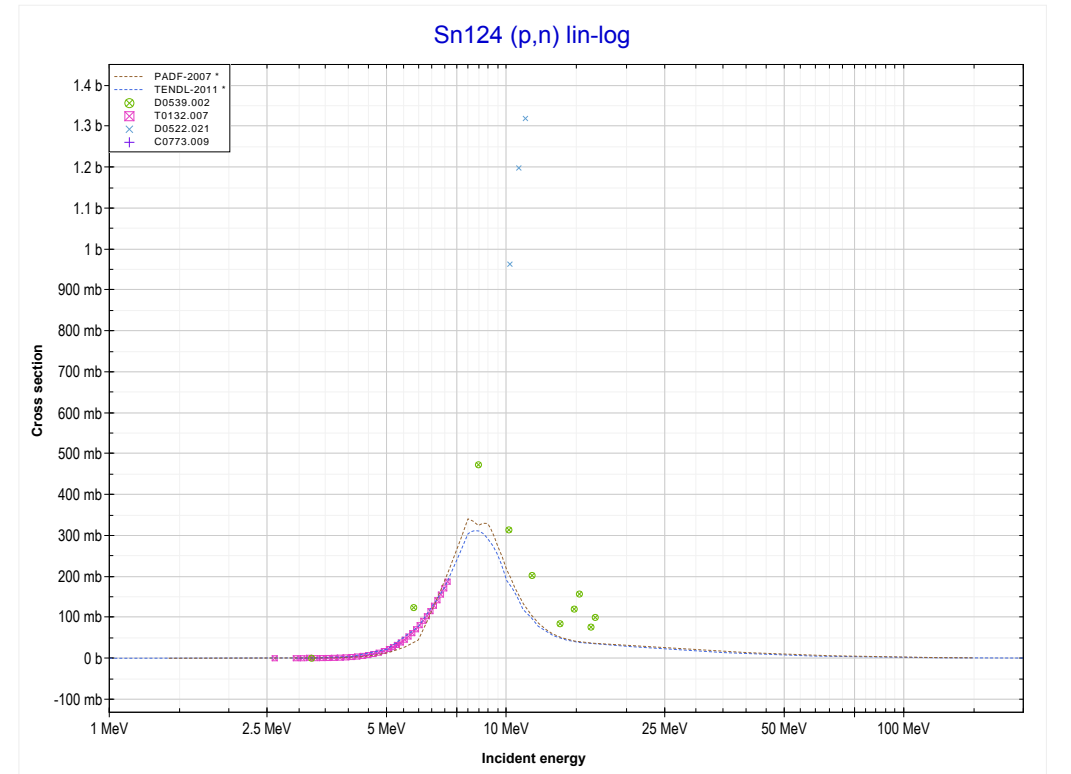
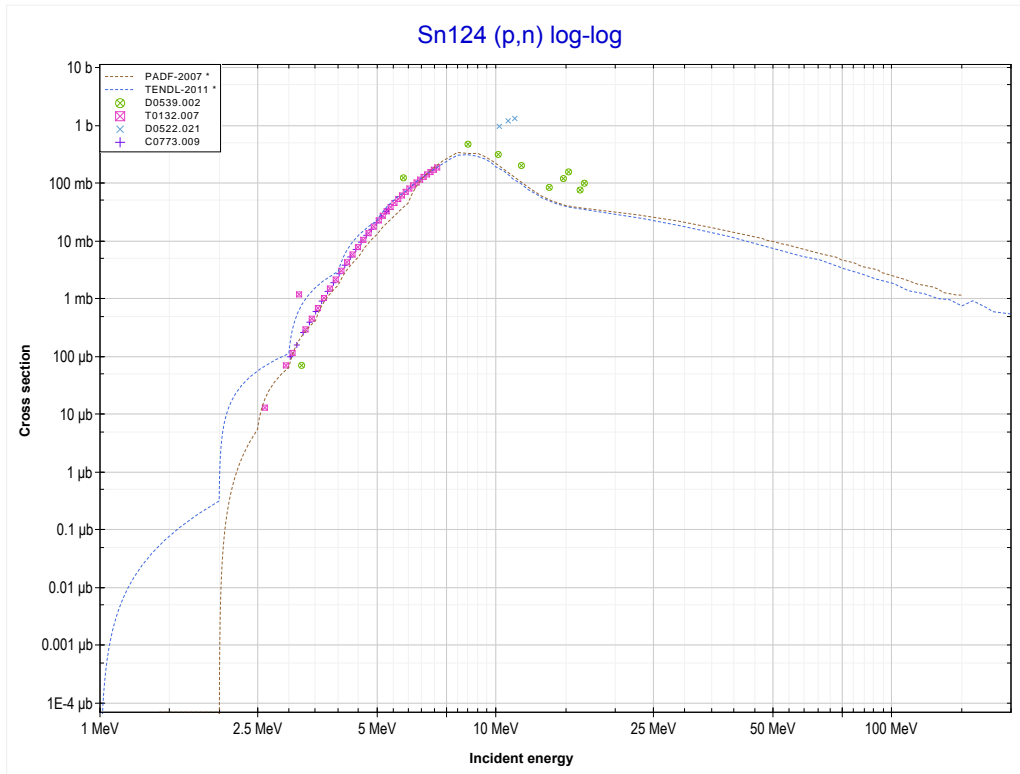
Reaction	Q-Value
Sn120(p, $\alpha$ )In117	2703.95 keV
Sn120(p,p+t)In117	-17109.91 keV
Sn120(p,n+He3)In117	-17873.66 keV
Sn120(p,2d)In117	-21142.57 keV
Sn120(p,n+p+d)In117	-23367.14 keV
Sn120(p,2n+2p)In117	-25591.70 keV

<< 50-Sn-120	<b>50-Sn-122</b>	50-Sn-124 >>
<< MT107 (p, $\alpha$ )	<b>MT4 (p,n) or MT5 (Sb122 production)</b>	MT4 (p,n) >>



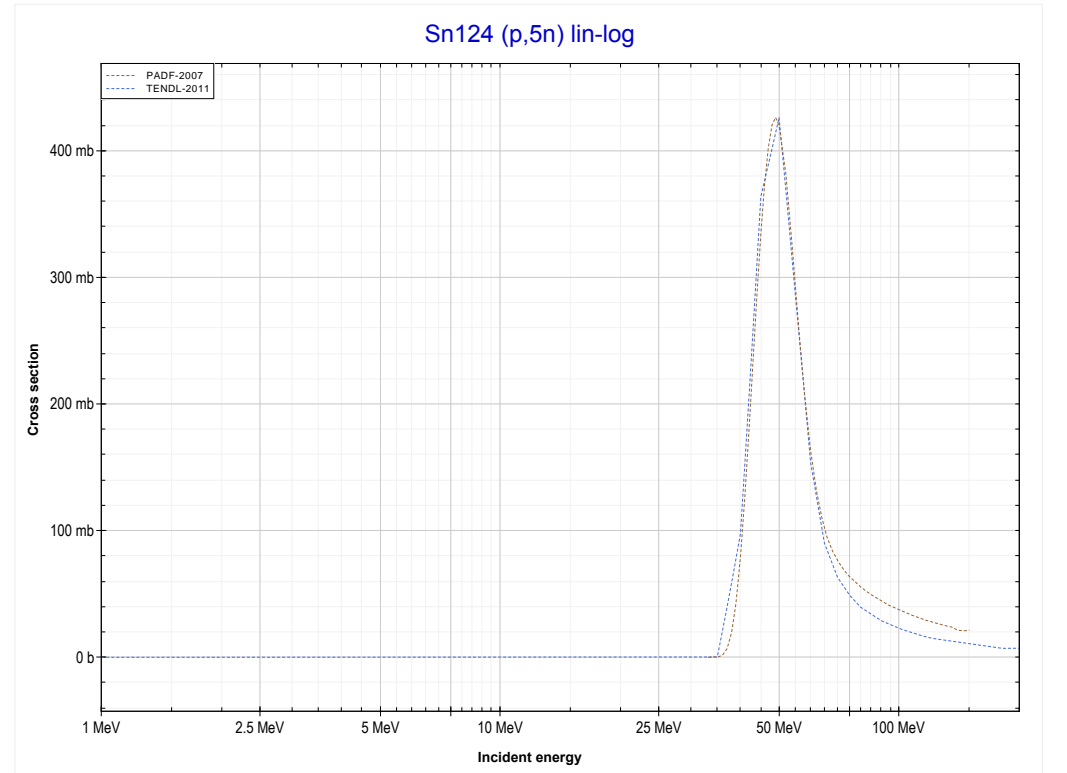
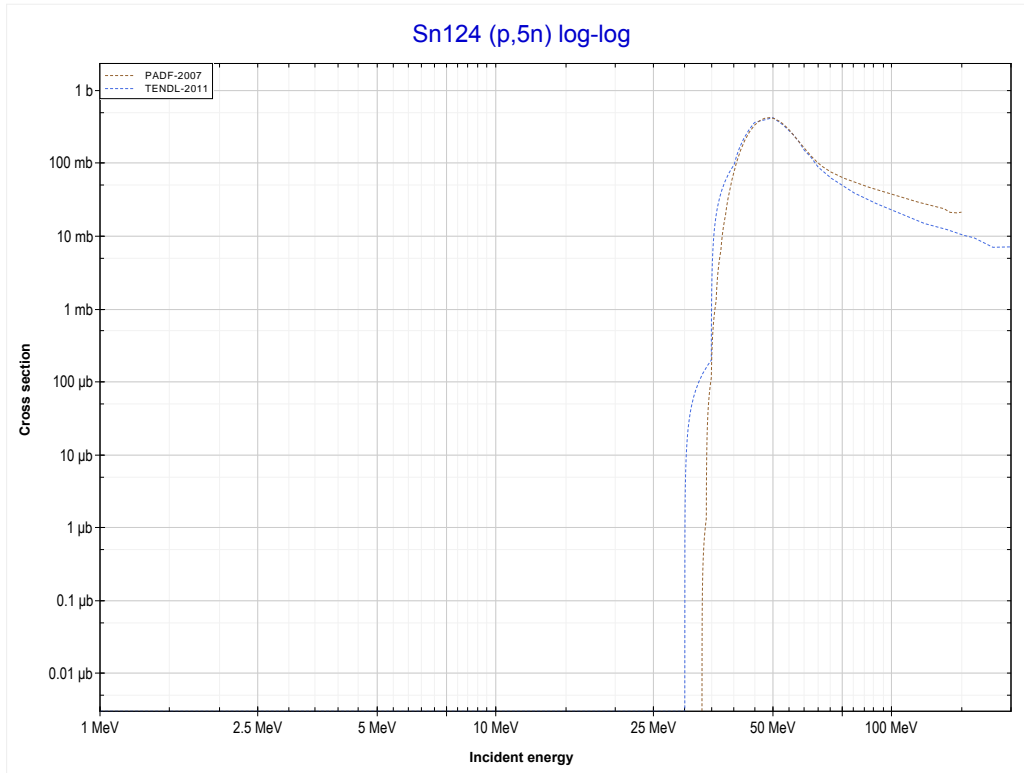
Reaction	Q-Value
Sn122(p,n)Sb122	-2398.05 keV

<< 50-Sn-122	<b>50-Sn-124</b>	51-Sb-121 >>
<< MT4 (p,n)	<b>MT4 (p,n) or MT5 (Sb124 production)</b>	MT152 (p,5n) >>



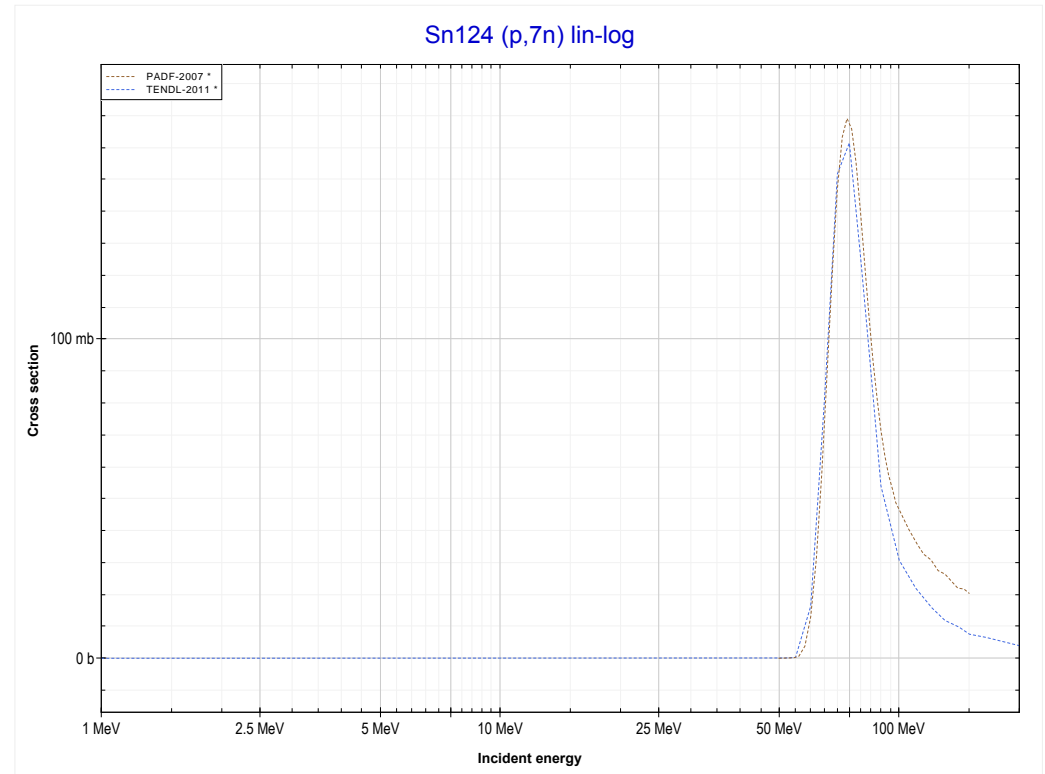
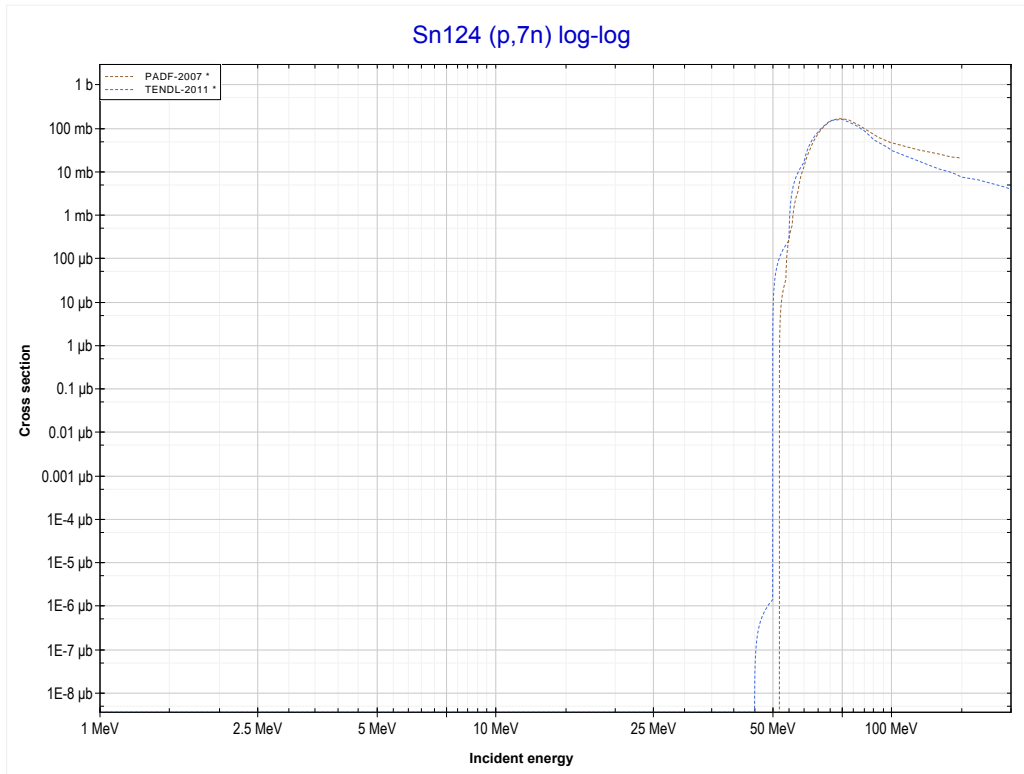
Reaction	Q-Value
Sn124(p,n)Sb124	-1398.85 keV

<< 38-Sr-88	<b>50-Sn-124</b>	52-Te-125 >>
<< MT4 (p,n)	<b>MT152 (p,5n) or MT5 (Sb120 production)</b>	MT160 (p,7n) >>



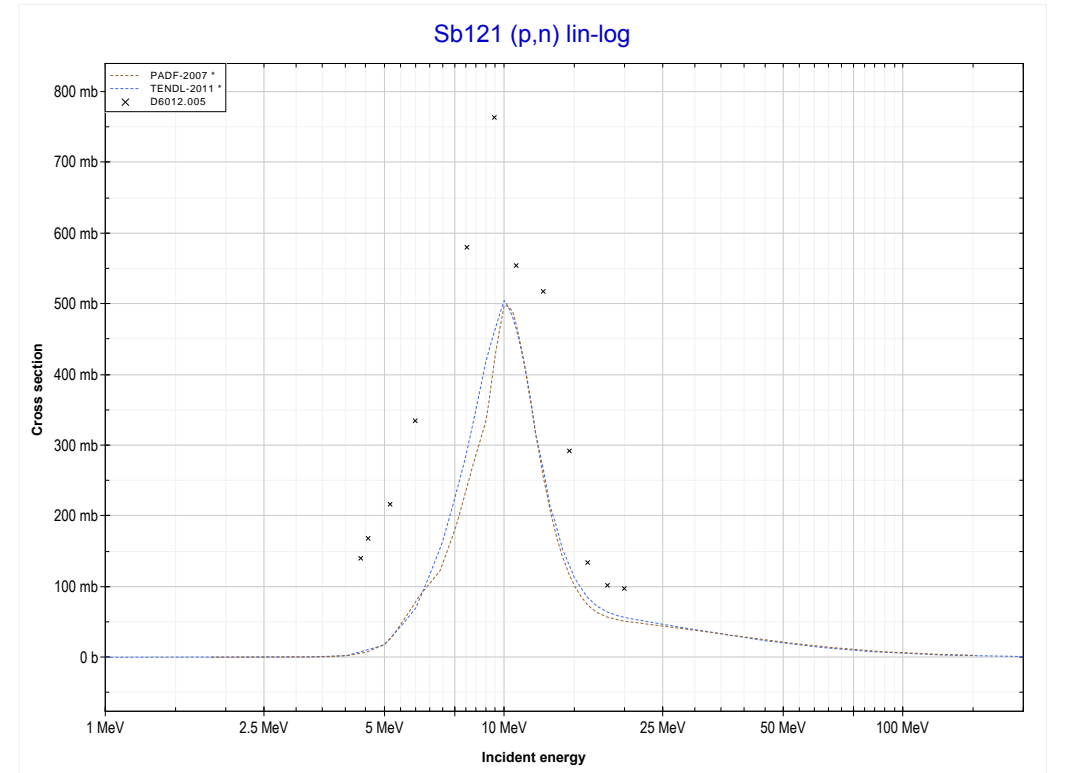
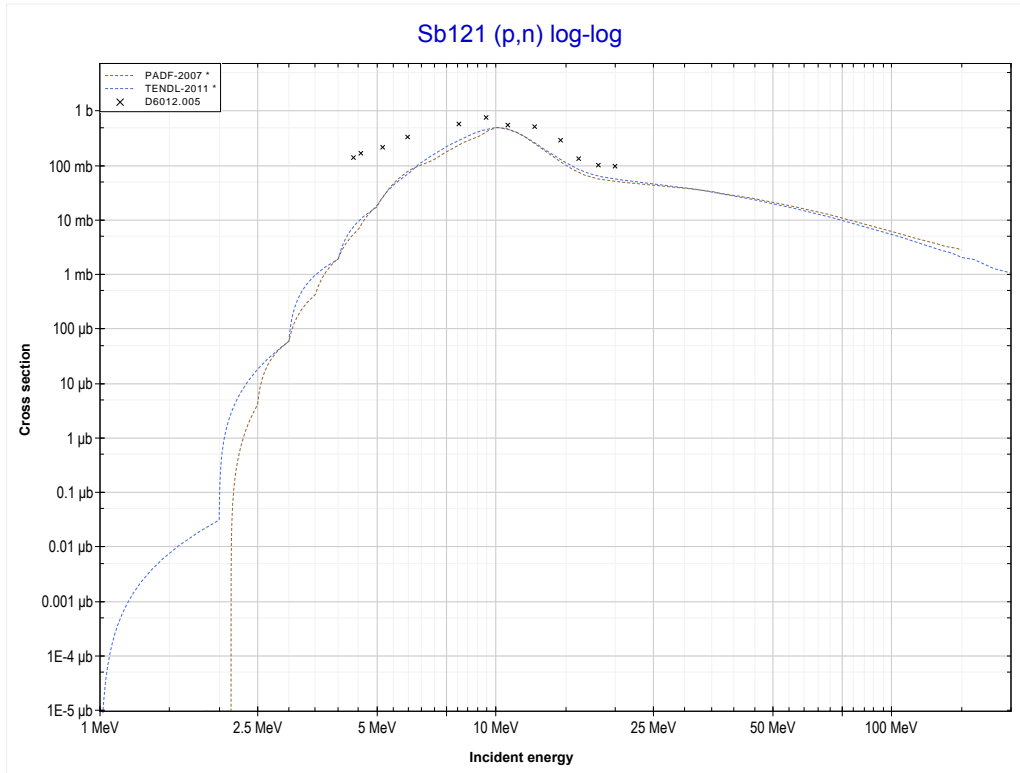
Reaction	Q-Value
Sn124(p,5n)Sb120	-32880.42 keV

	<b>50-Sn-124</b>	<a href="#">52-Te-125 &gt;&gt;</a>
<a href="#">&lt;&lt; MT152 (p,5n)</a>	<b>MT160 (p,7n) or MT5 (Sb118 production)</b>	<a href="#">MT4 (p,n) &gt;&gt;</a>



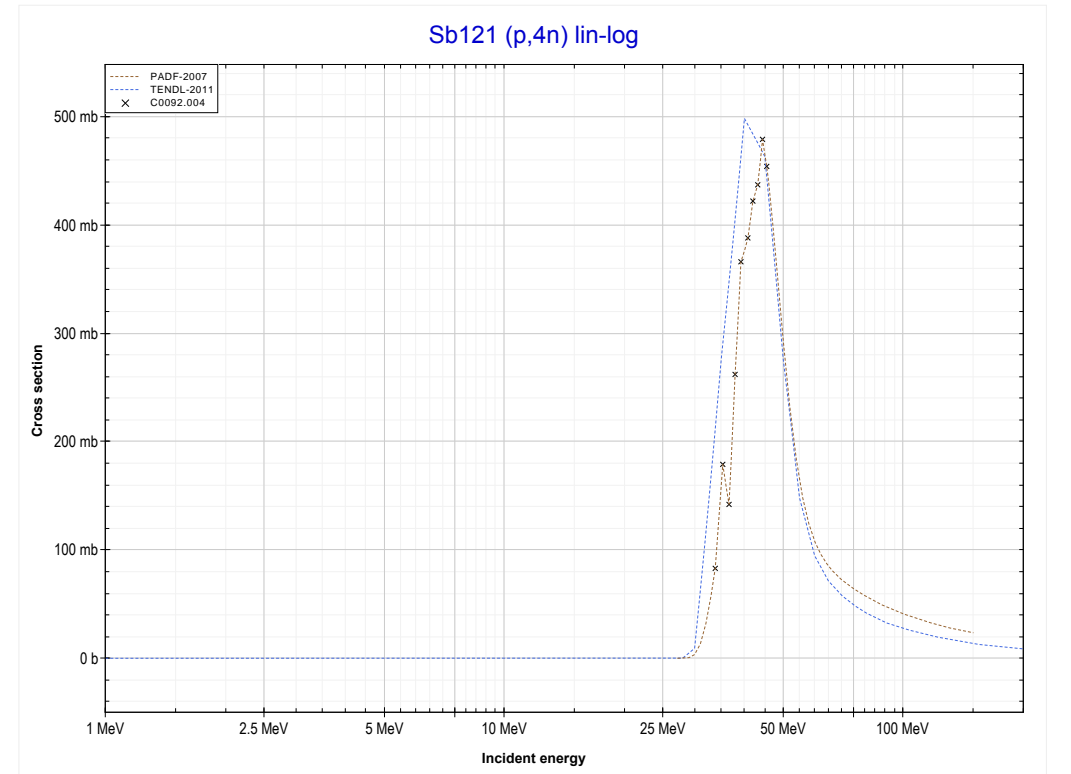
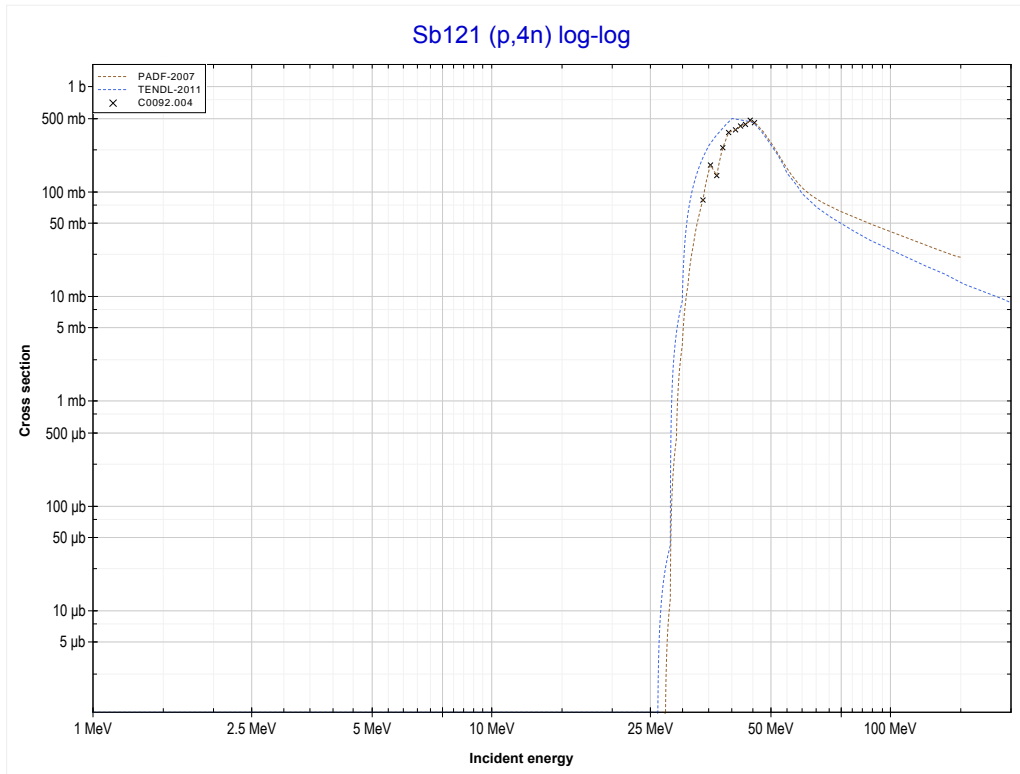
Reaction	Q-Value
Sn124(p,7n)Sb118	-49448.05 keV

<< 50-Sn-124	<b>51-Sb-121</b>	51-Sb-123 >>
<< MT160 (p,7n)	<b>MT4 (p,n) or MT5 (Te121 production)</b>	MT37 (p,4n) >>



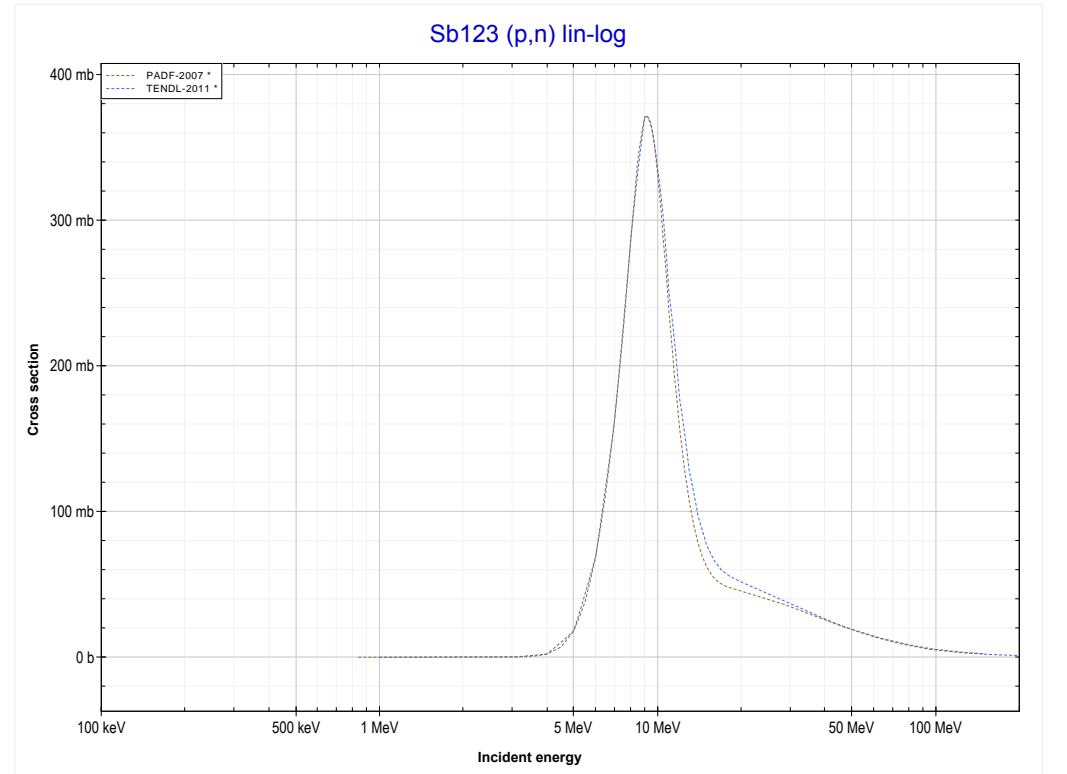
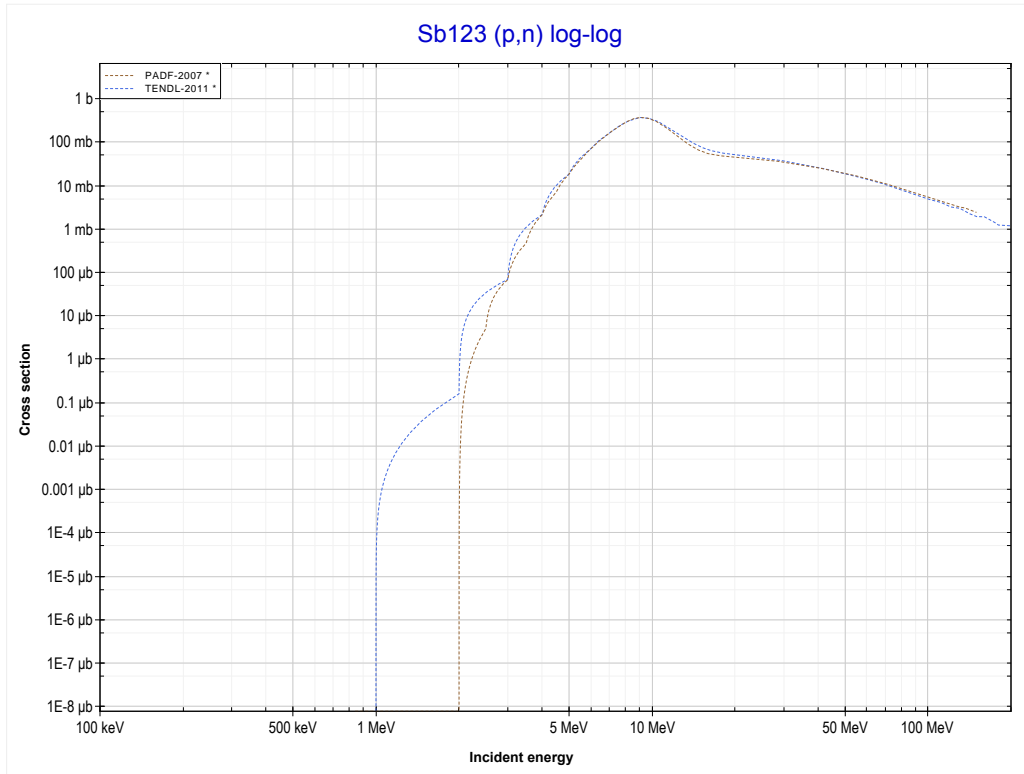
Reaction	Q-Value
Sb121(p,n)Te121	-1826.45 keV

<< 50-Sn-118	<b>51-Sb-121</b>	52-Te-122 >>
<< MT4 (p,n)	<b>MT37 (p,4n) or MT5 (Te118 production)</b>	MT4 (p,n) >>



Reaction	Q-Value
Sb121(p,4n)Te118	-26870.40 keV

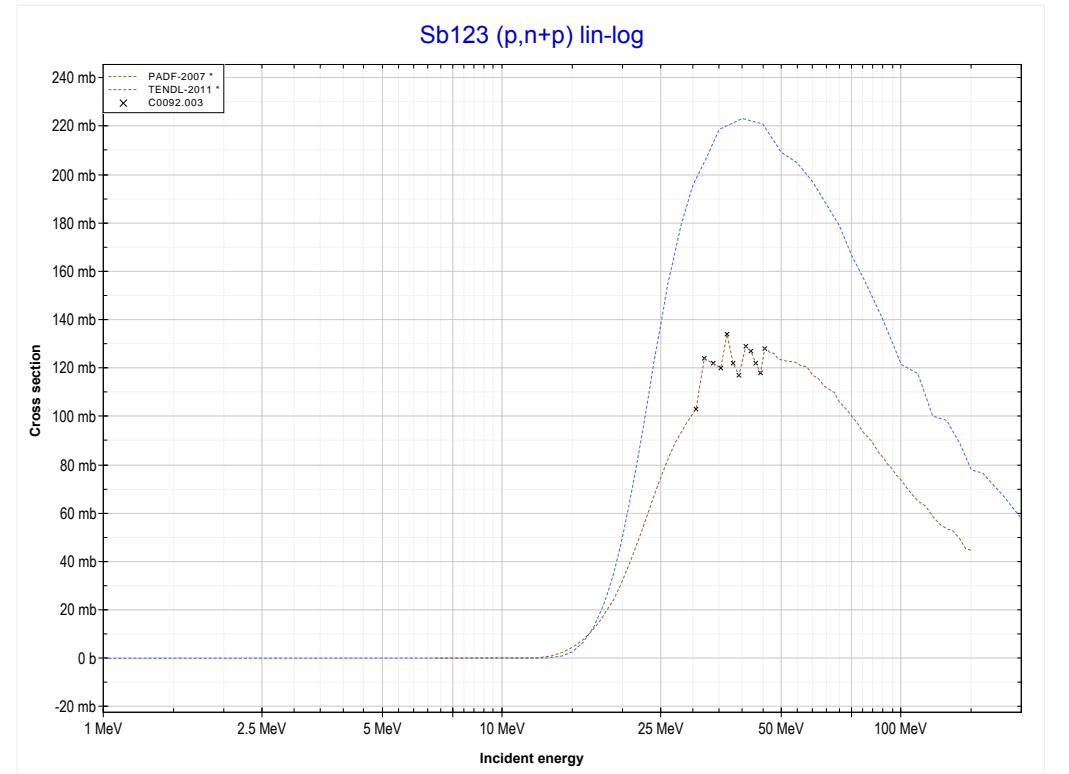
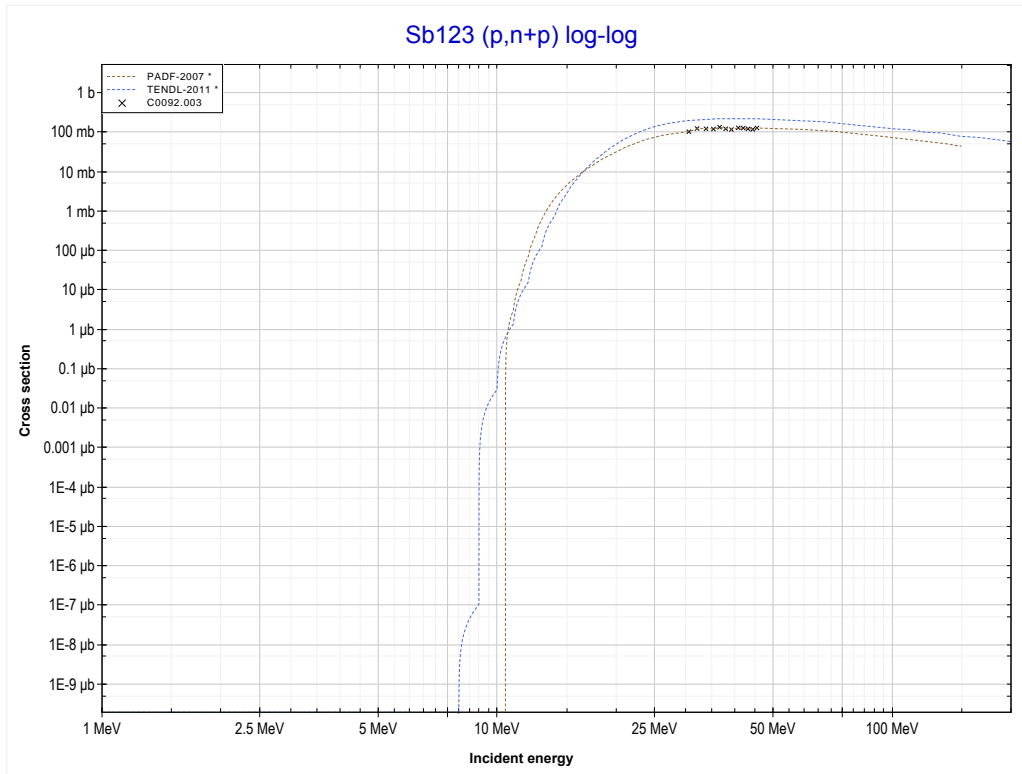
<< 51-Sb-121	<b>51-Sb-123</b>	52-Te-120 >>
<< MT37 (p,4n)	<b>MT4 (p,n) or MT5 (Te123 production)</b>	MT28 (p,n+p) >>



Reaction	Q-Value
Sb123(p,n)Te123	-834.55 keV

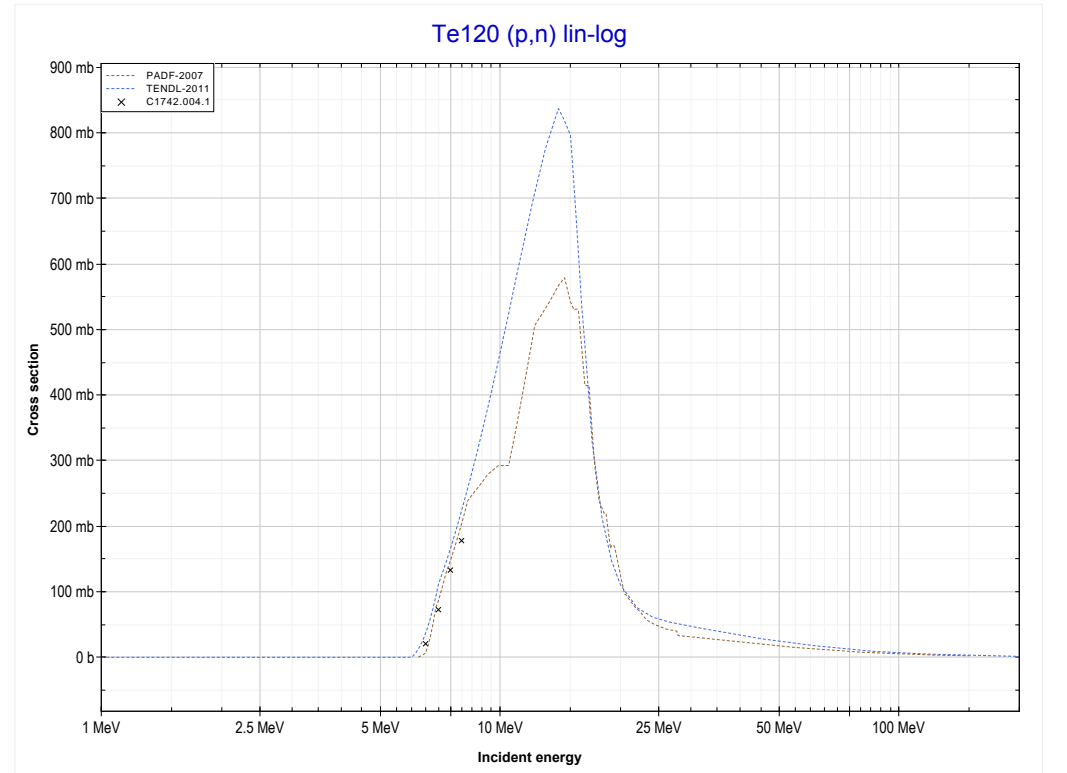
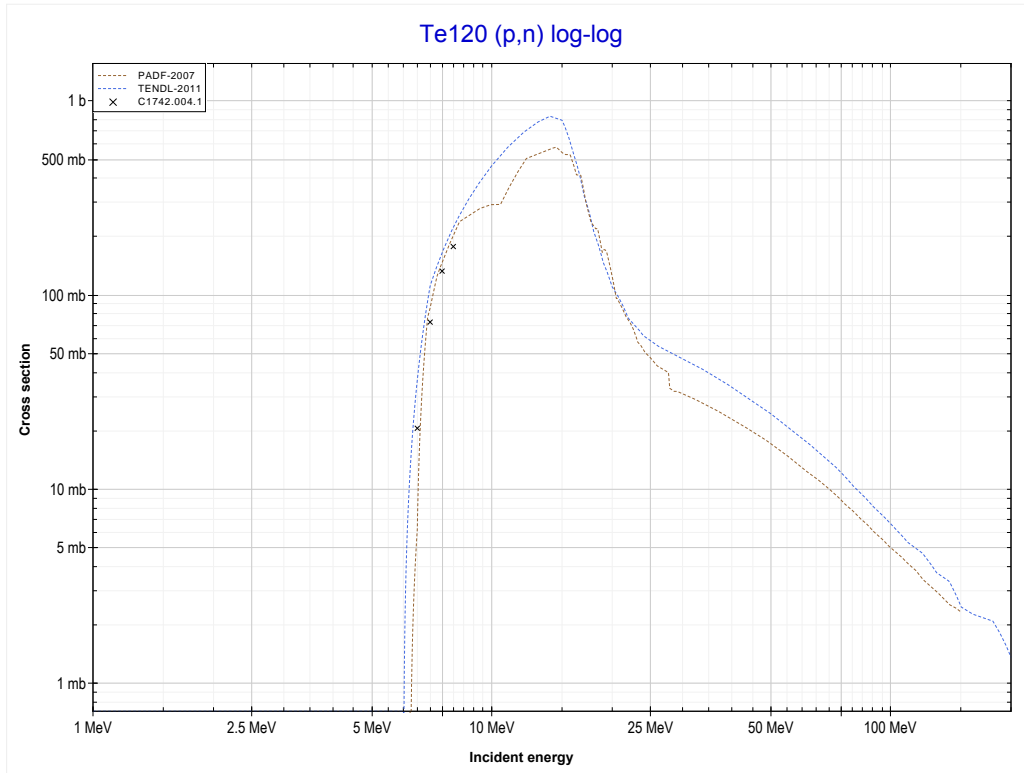


<< 49-In-115	<b>51-Sb-123</b>	52-Te-124 >>
<< MT4 (p,n)	<b>MT28 (p,n+p) or MT5 (Sb122 production)</b>	MT4 (p,n) >>



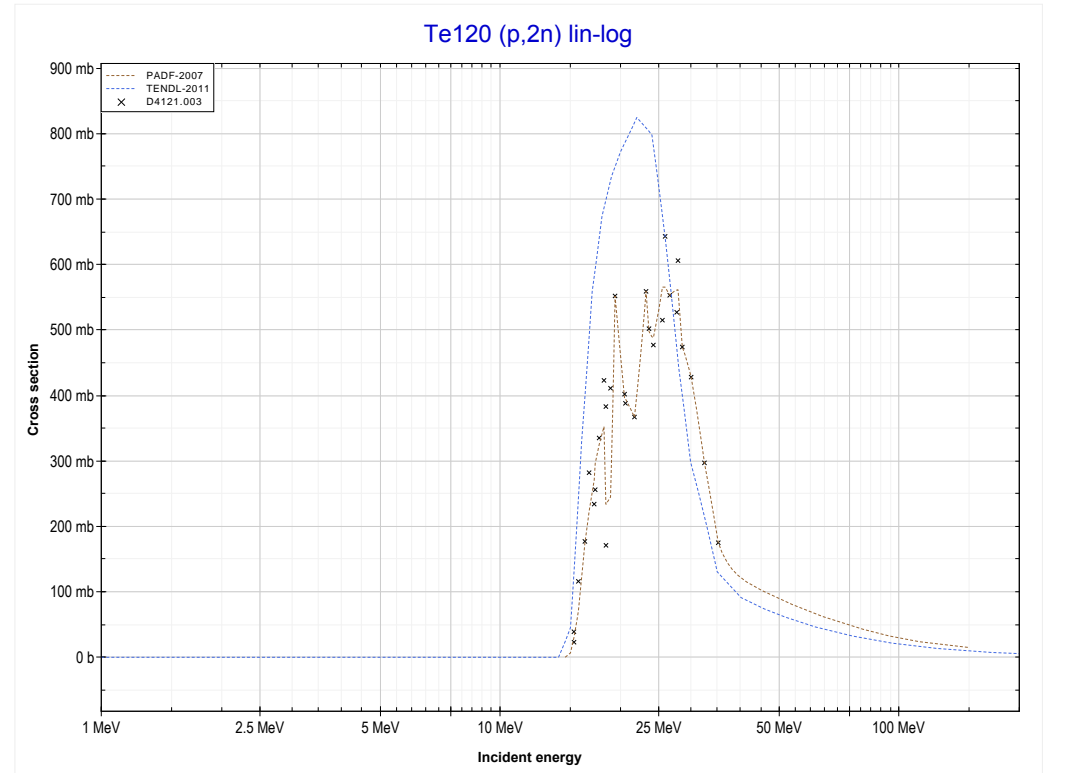
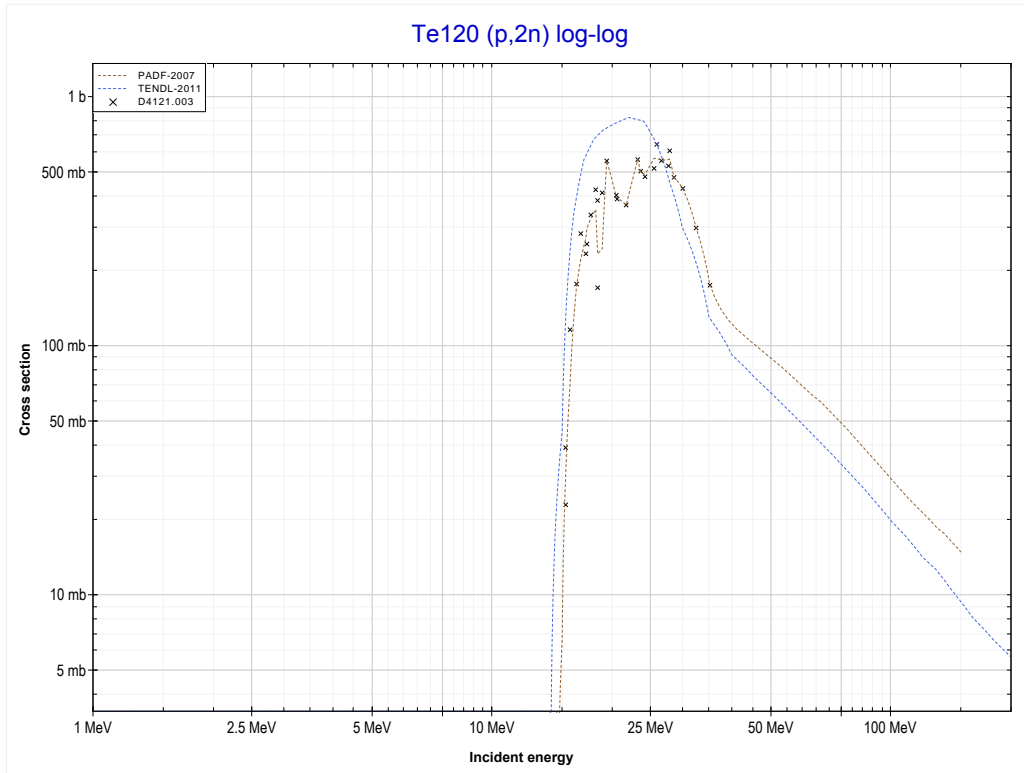
Reaction	Q-Value
Sb123(p,d)Sb122	-6740.65 keV
Sb123(p,n+p)Sb122	-8965.22 keV

<< 51-Sb-123	<b>52-Te-120</b>	52-Te-122 >>
<< MT28 (p,n+p)	<b>MT4 (p,n) or MT5 (I120 production)</b>	MT16 (p,2n) >>



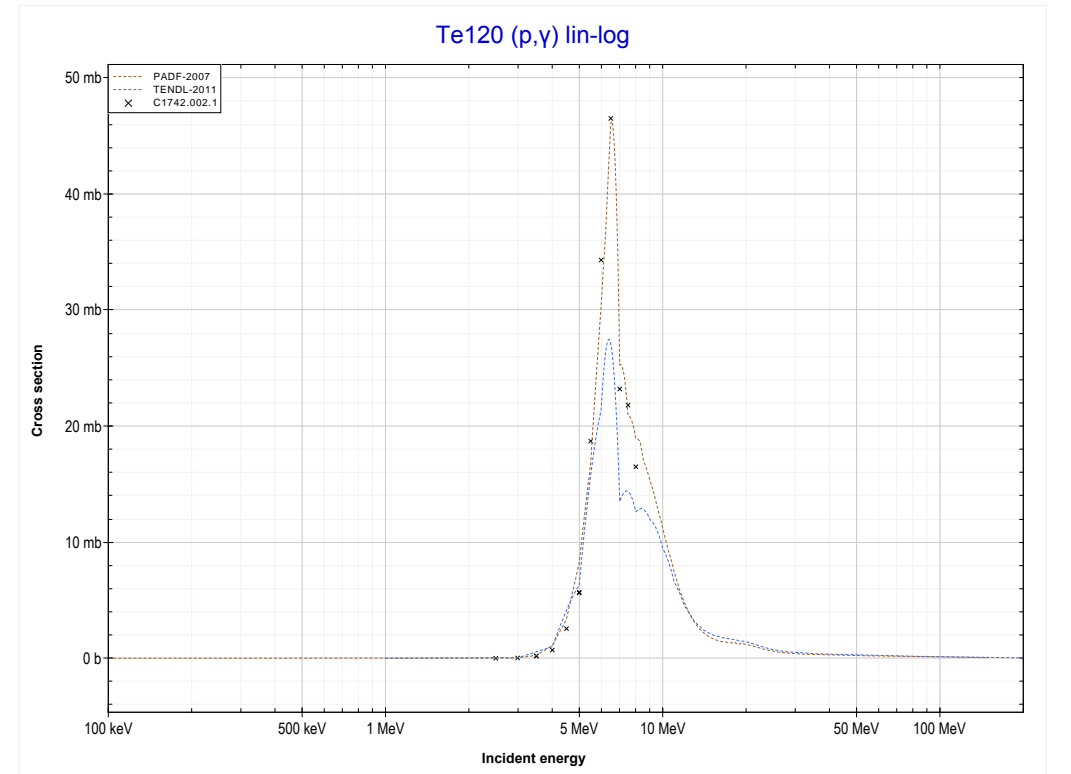
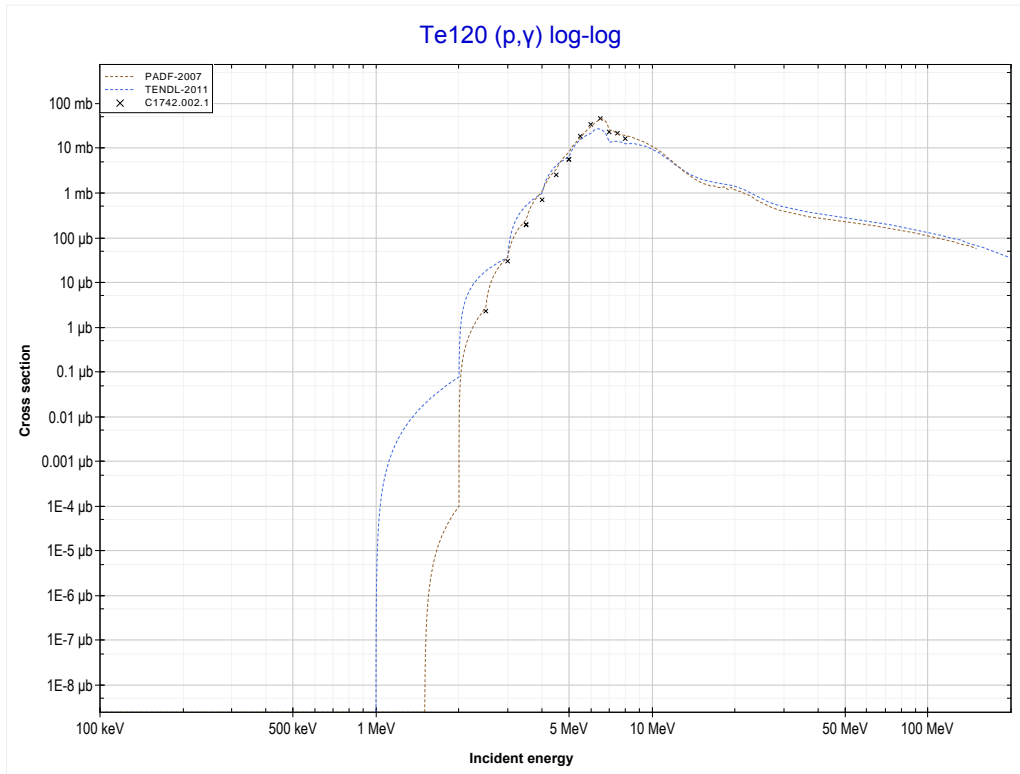
Reaction	Q-Value
Te120(p,n)I120	-6397.35 keV

<< 50-Sn-119	<b>52-Te-120</b>	52-Te-122 >>
<< MT4 (p,n)	<b>MT16 (p,2n) or MT5 (I119 production)</b>	MT102 (p, $\gamma$ ) >>



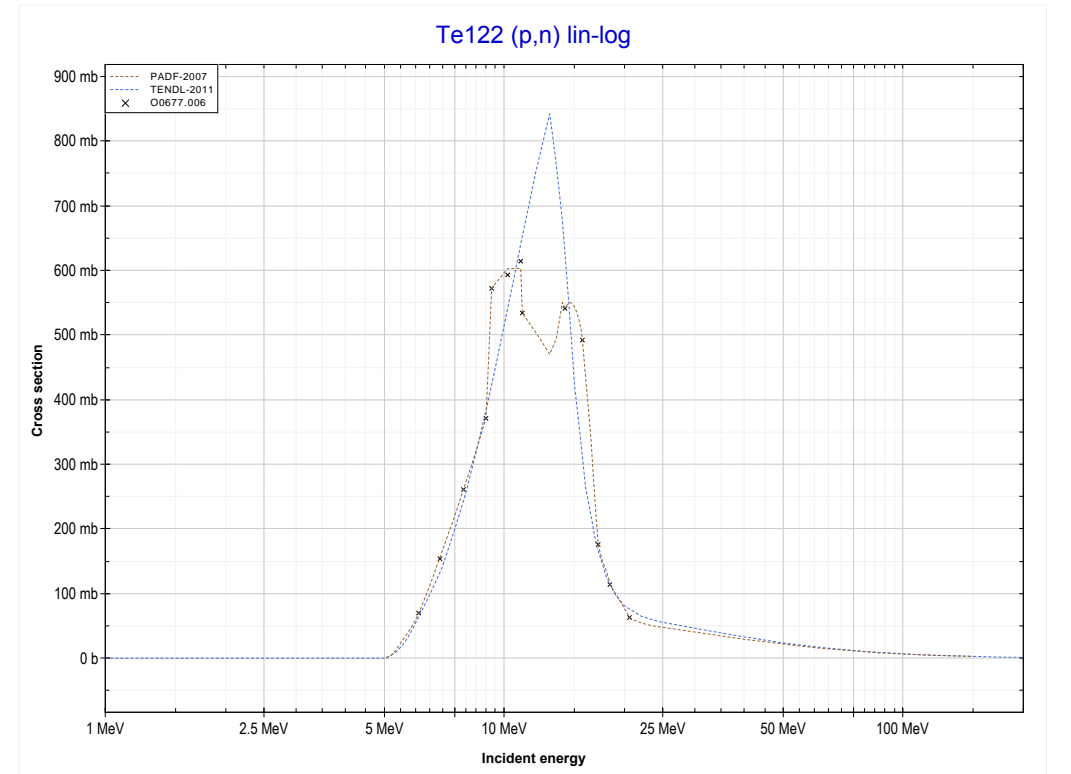
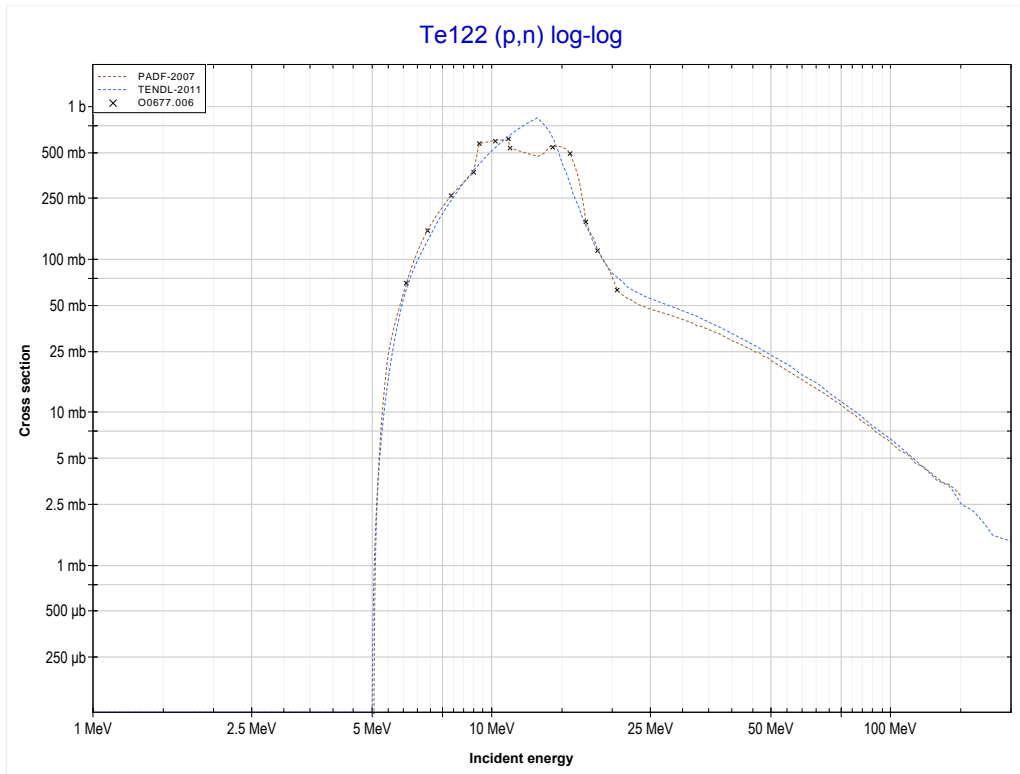
Reaction	Q-Value
Te120(p,2n)I119	-14492.66 keV

<< 50-Sn-112	<b>52-Te-120</b>	52-Te-130 >>
<< MT16 (p,2n)	<b>MT102 (p,<math>\gamma</math>) or MT5 (I121 production)</b>	MT4 (p,n) >>



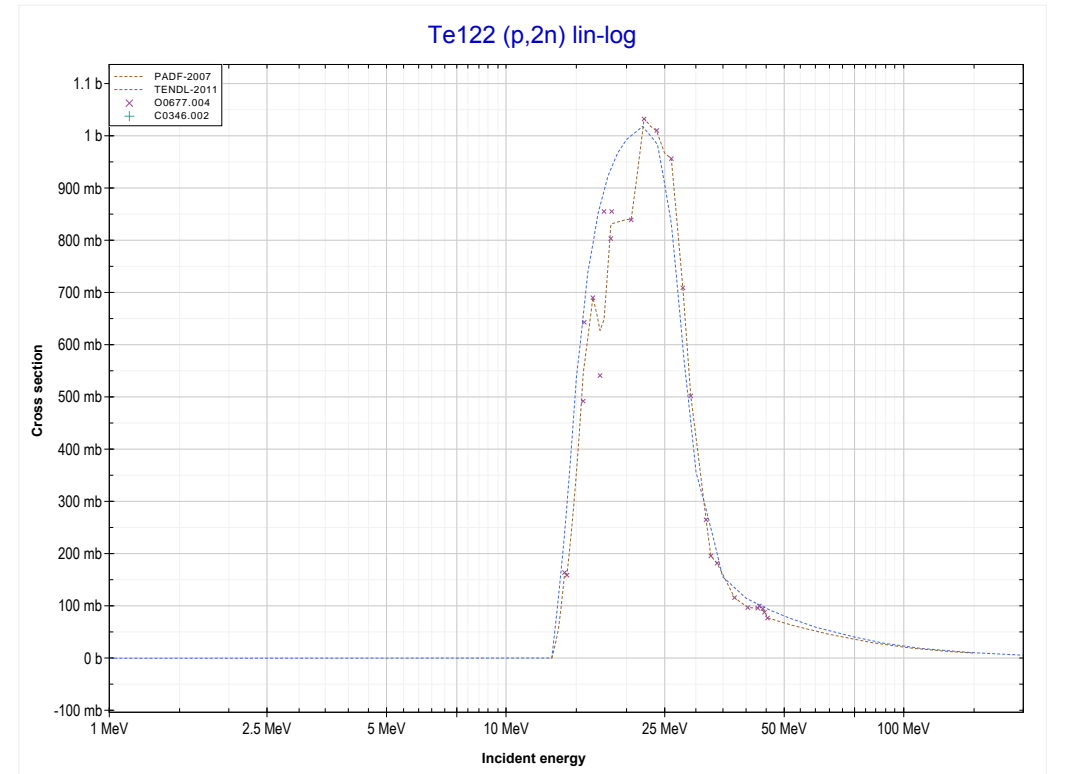
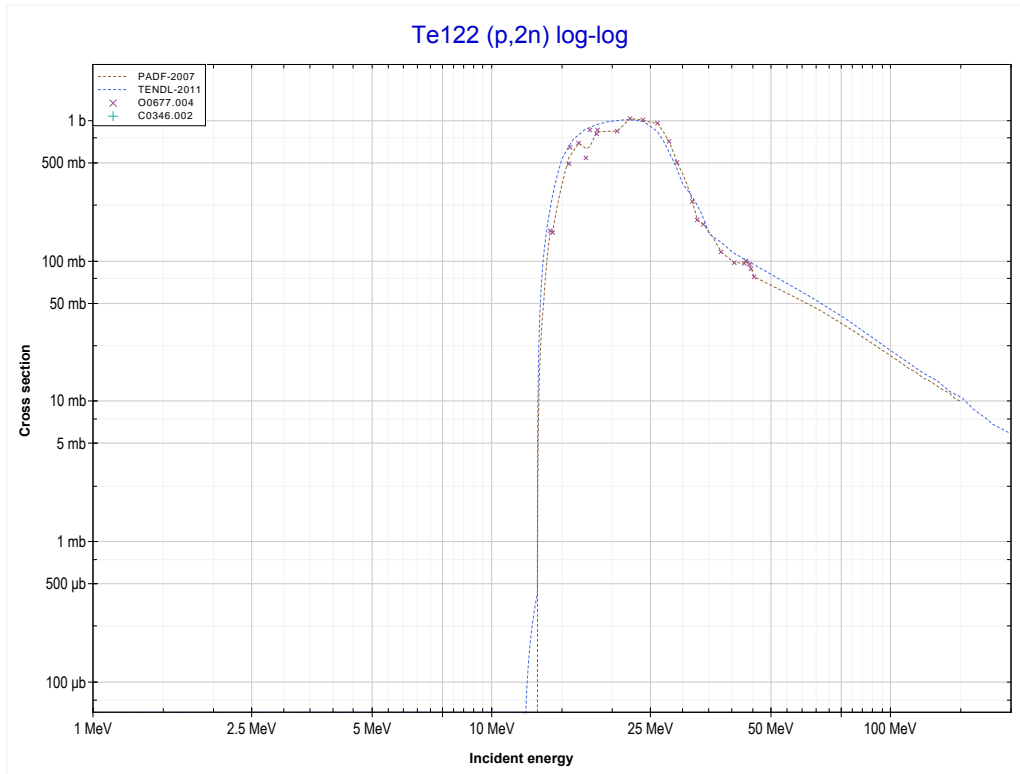
Reaction	Q-Value
Te120(p, $\gamma$ )I121	4170.97 keV

<< 52-Te-120	<b>52-Te-122</b>	52-Te-123 >>
<< MT102 (p, $\gamma$ )	<b>MT4 (p,n) or MT5 (I122 production)</b>	MT16 (p,2n) >>



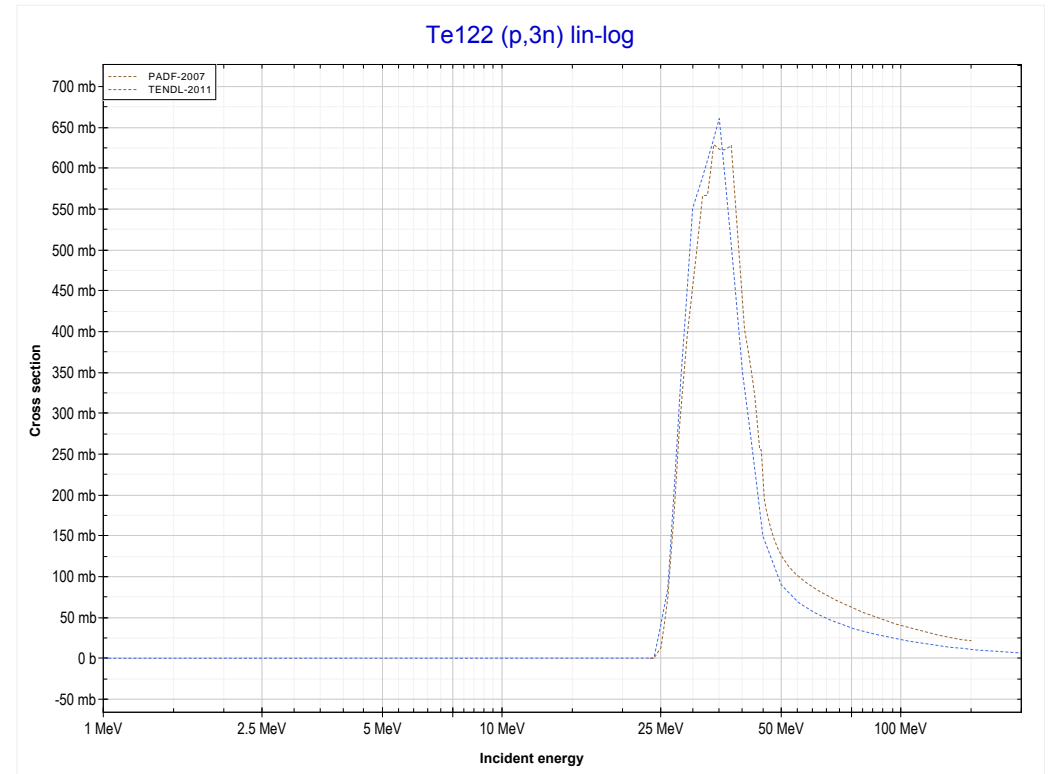
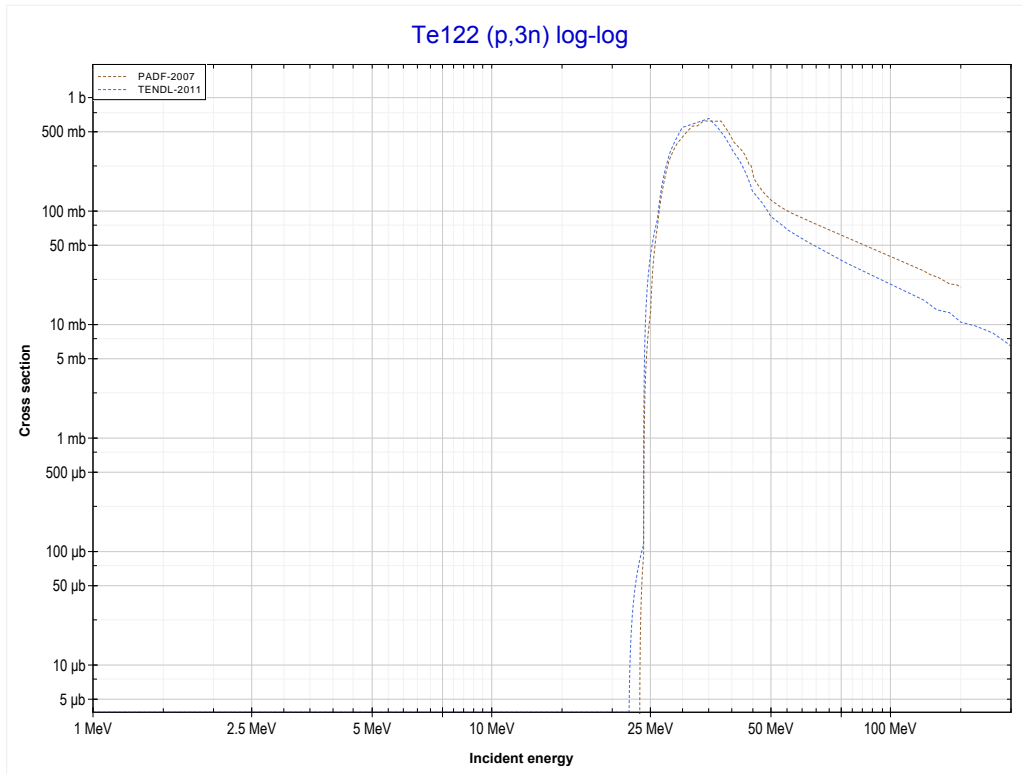
<b>Reaction</b>	<b>Q-Value</b>
Te122(p,n)I122	-5016.35 keV

<< 52-Te-120	<b>52-Te-122</b>	52-Te-123 >>
<< MT4 (p,n)	<b>MT16 (p,2n) or MT5 (I121 production)</b>	MT17 (p,3n) >>



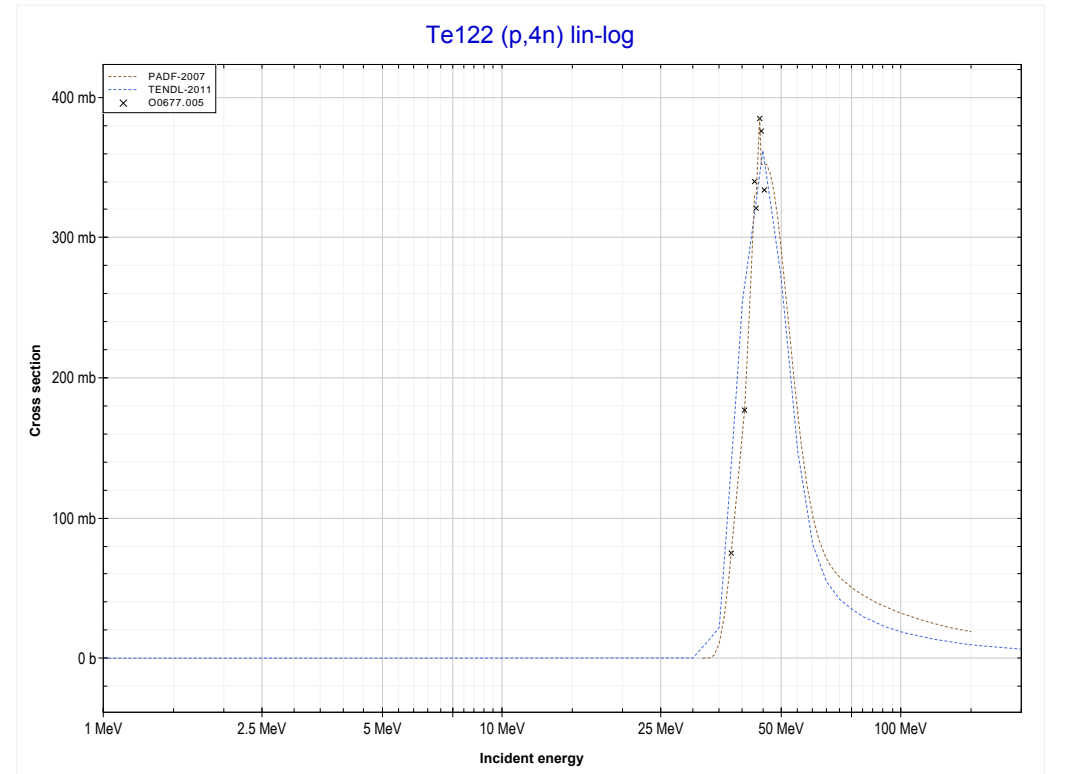
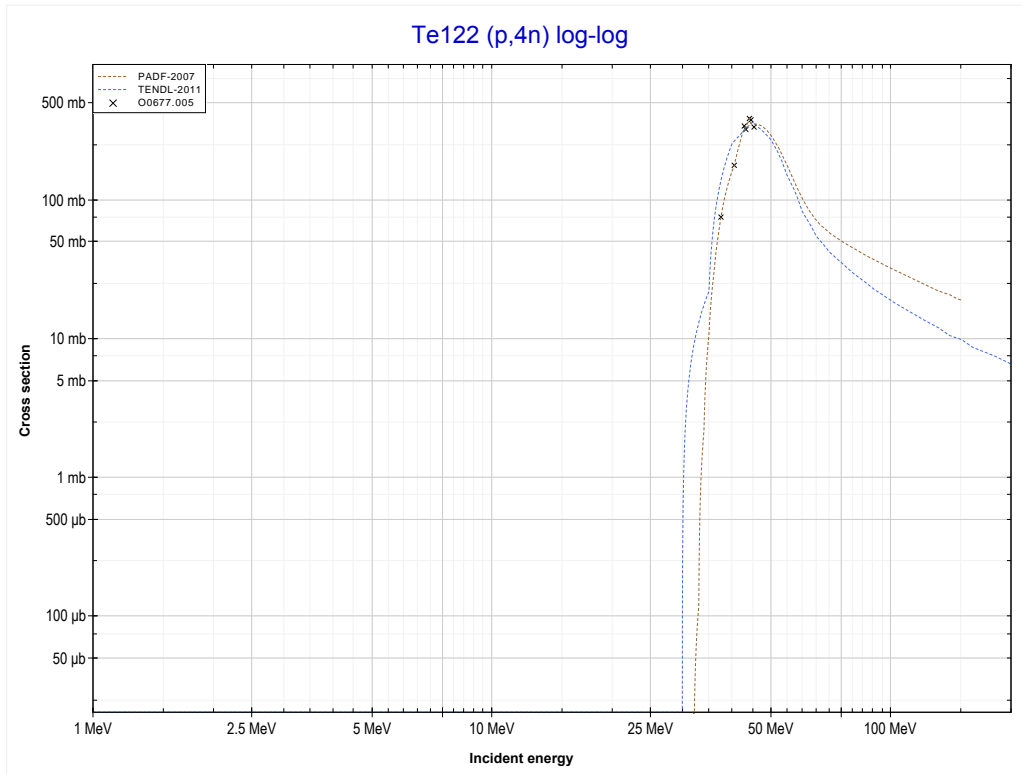
Reaction	Q-Value
Te122(p,2n)I121	-12880.66 keV

<< 50-Sn-118	<b>52-Te-122</b>	52-Te-125 >>
<< MT16 (p,2n)	<b>MT17 (p,3n) or MT5 (I120 production)</b>	MT37 (p,4n) >>



Reaction	Q-Value
Te122(p,3n)I120	-23448.98 keV

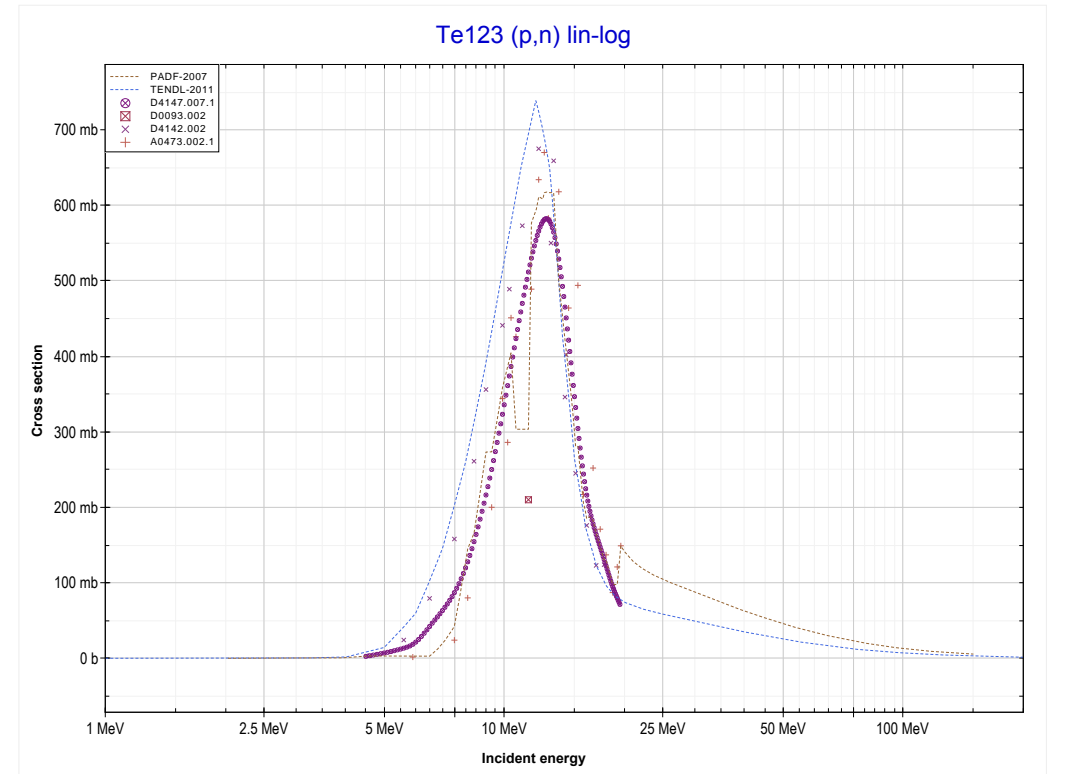
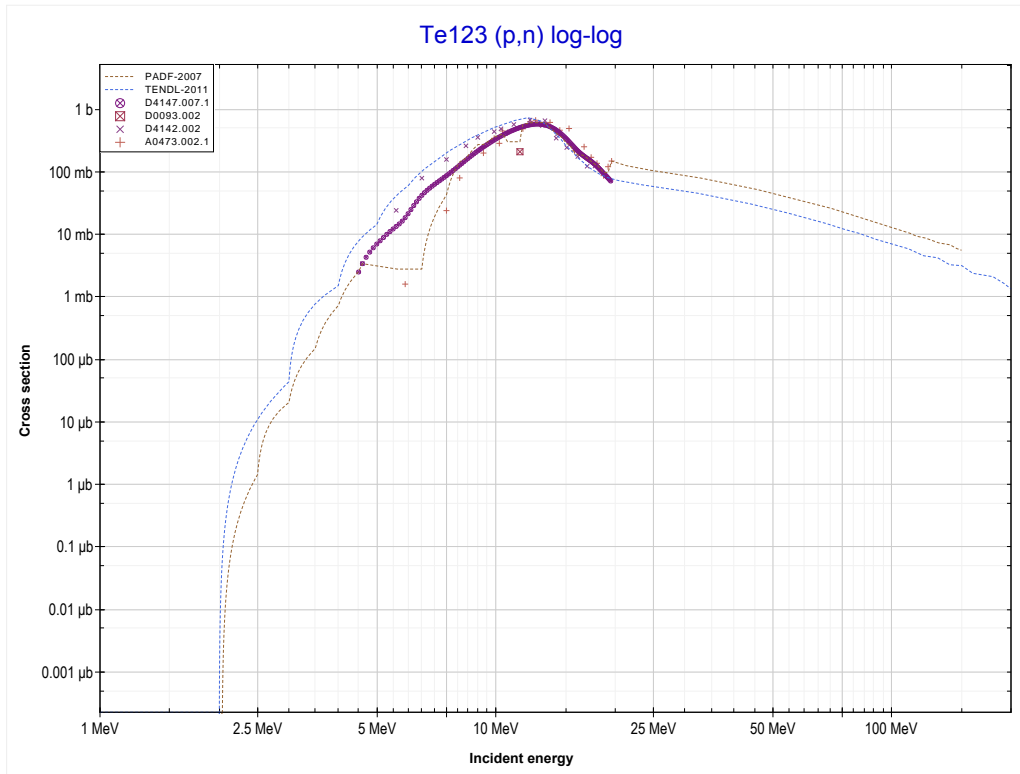
<< 51-Sb-121	<b>52-Te-122</b>	52-Te-125 >>
<< MT17 (p,3n)	<b>MT37 (p,4n) or MT5 (I119 production)</b>	MT4 (p,n) >>



<b>Reaction</b>	<b>Q-Value</b>
Te122(p,4n)I119	-31544.30 keV

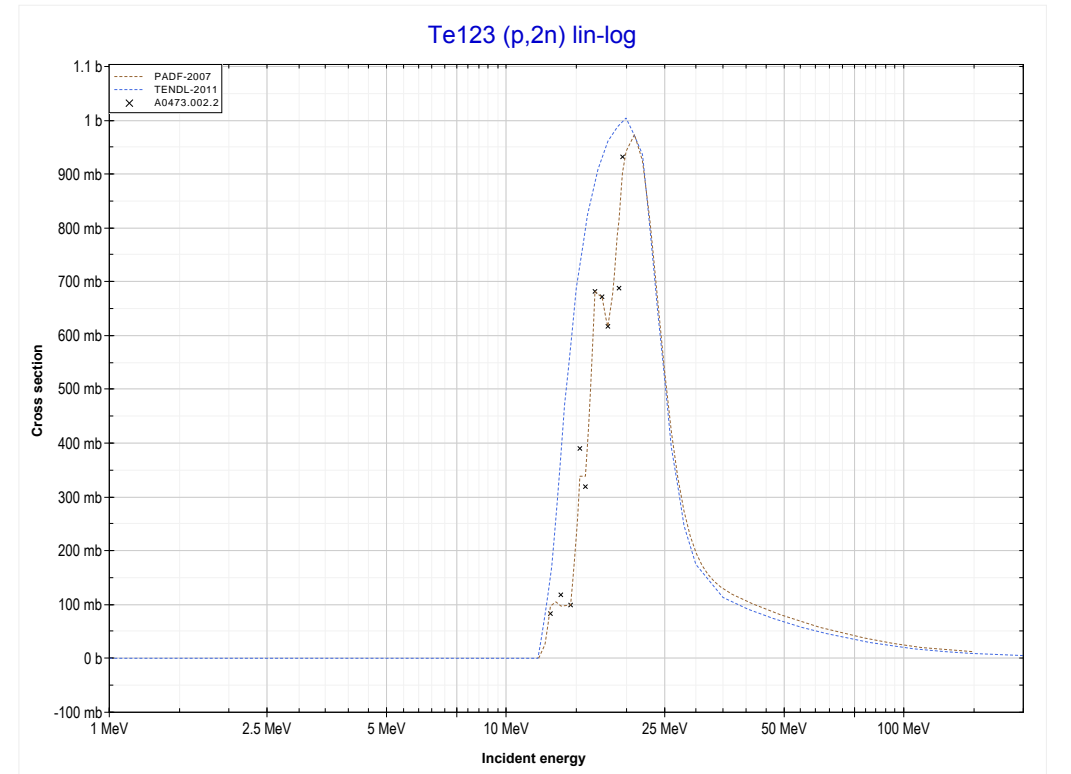
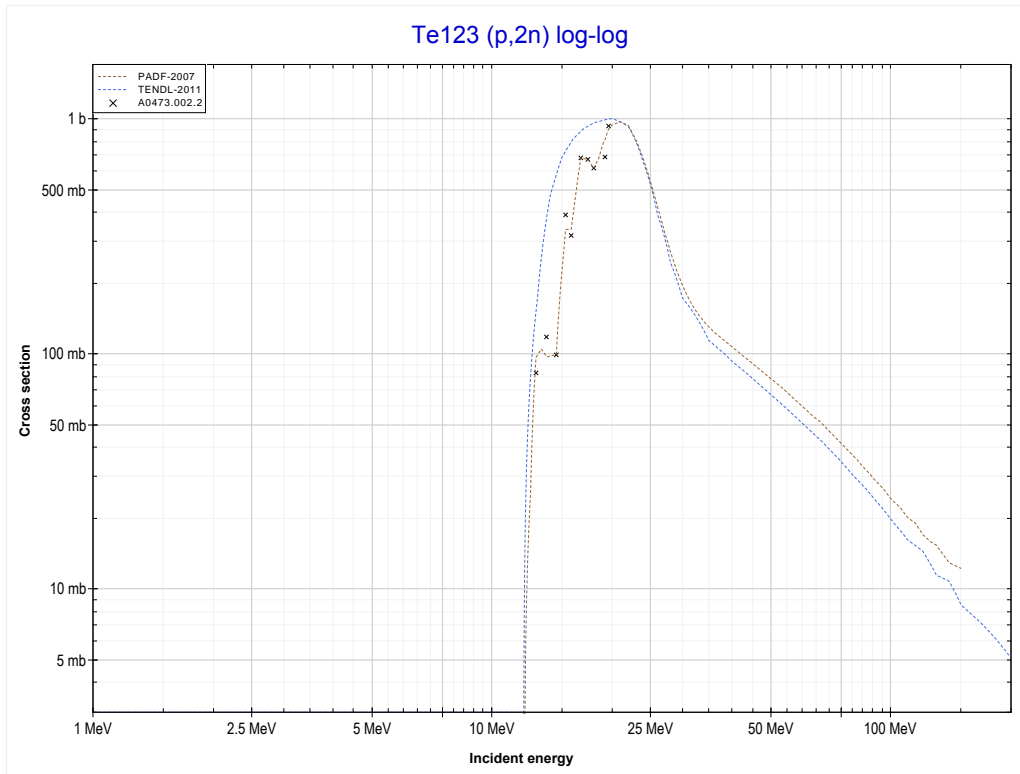


<< 52-Te-122	<b>52-Te-123</b>	52-Te-124 >>
<< MT37 (p,4n)	<b>MT4 (p,n) or MT5 (I123 production)</b>	MT16 (p,2n) >>



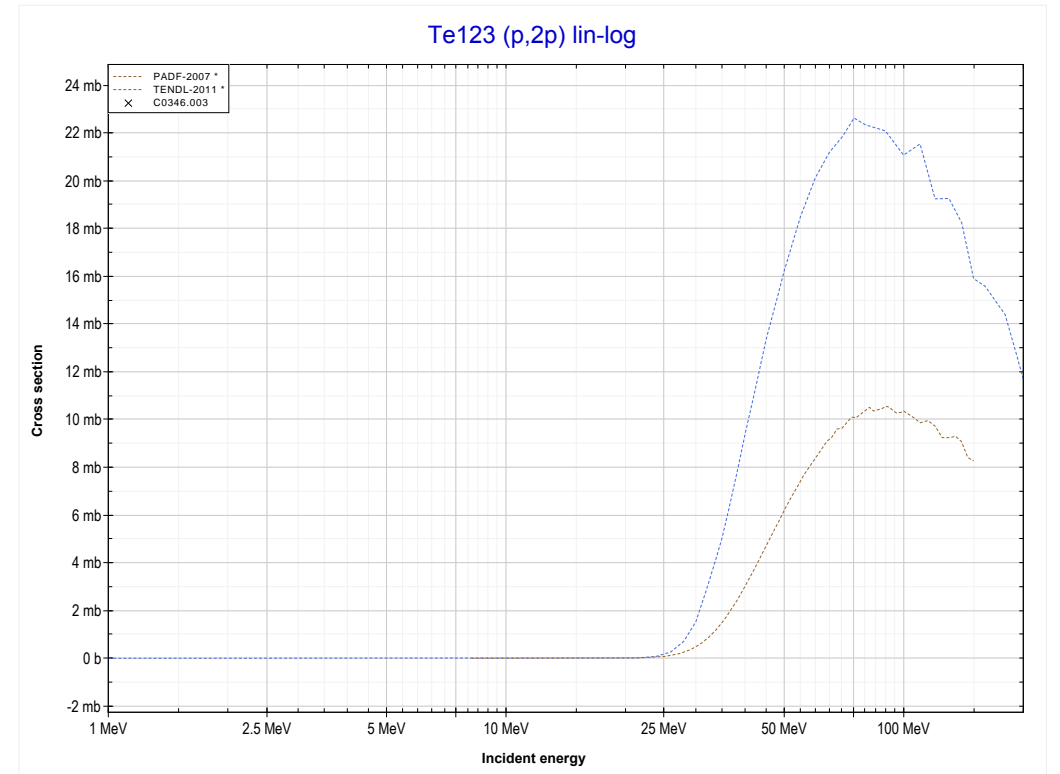
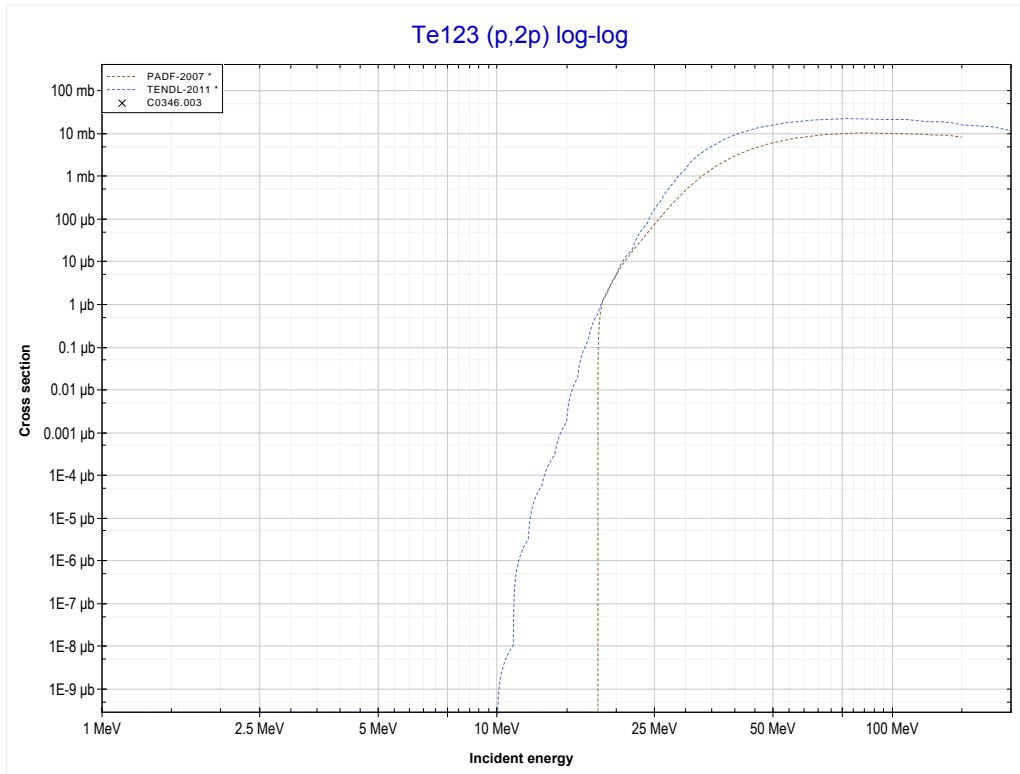
Reaction	Q-Value
Te123(p,n)I123	-2011.25 keV

<< 52-Te-122	<b>52-Te-123</b>	52-Te-124 >>
<< MT4 (p,n)	<b>MT16 (p,2n) or MT5 (I122 production)</b>	MT111 (p,2p) >>



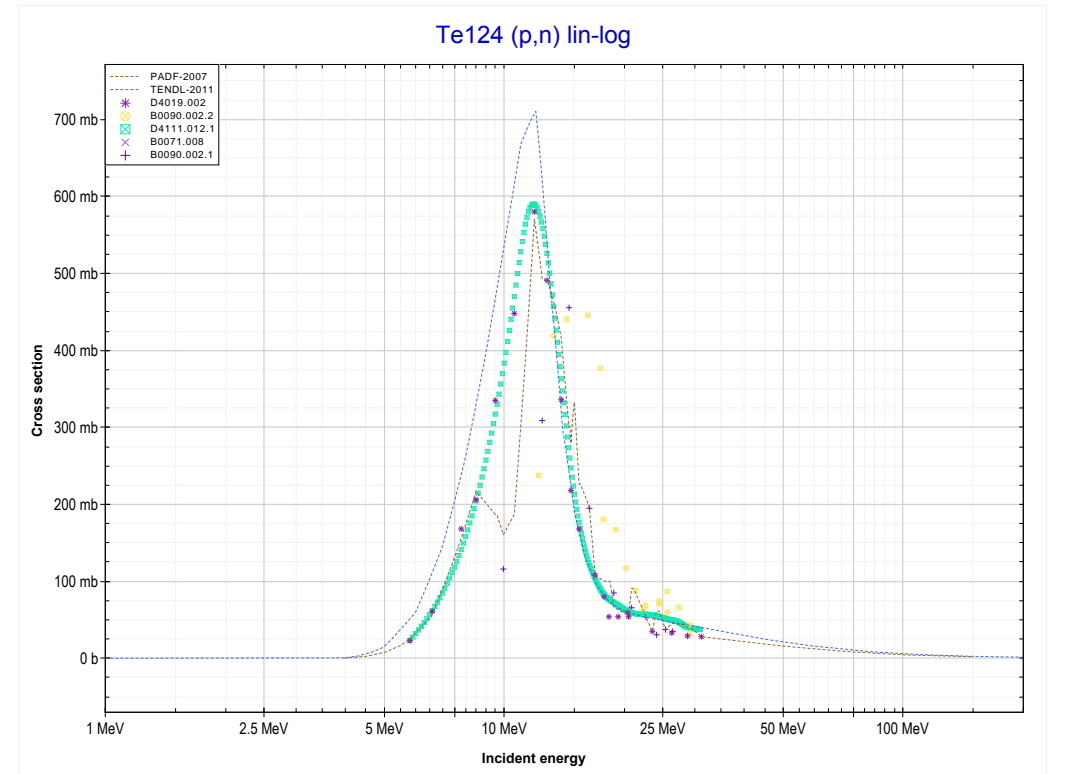
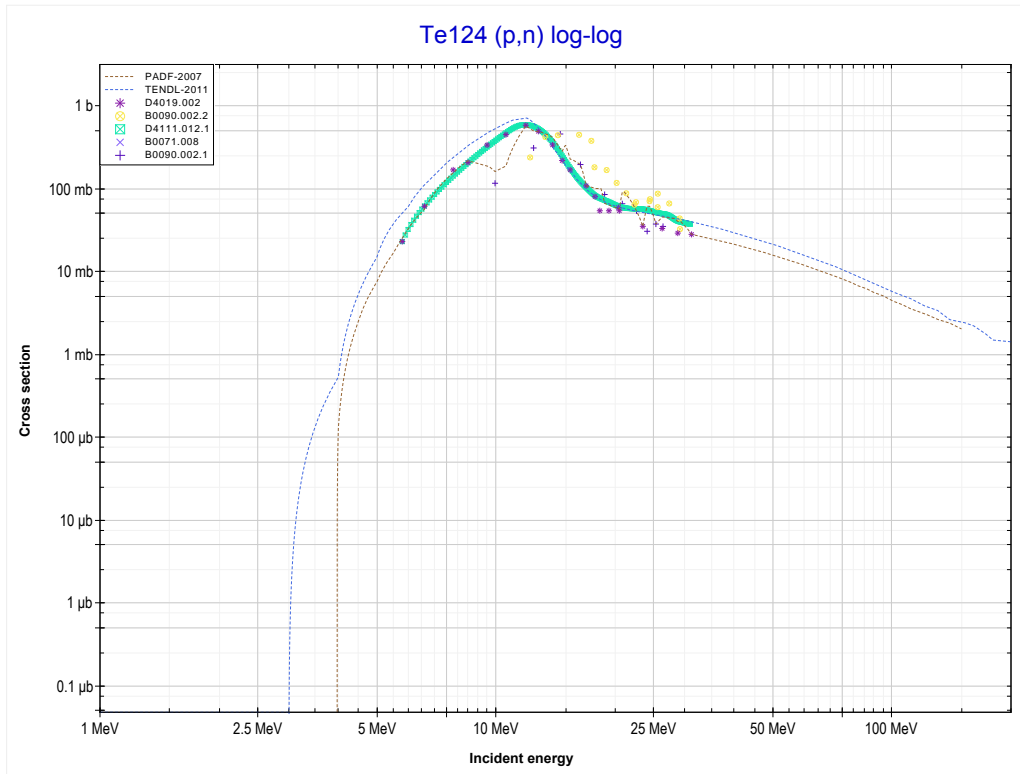
Reaction	Q-Value
Te123(p,2n)I122	-11945.56 keV

<< 50-Sn-118	<b>52-Te-123</b>	52-Te-125 >>
<< MT16 (p,2n)	<b>MT111 (p,2p) or MT5 (Sb122 production)</b>	MT4 (p,n) >>



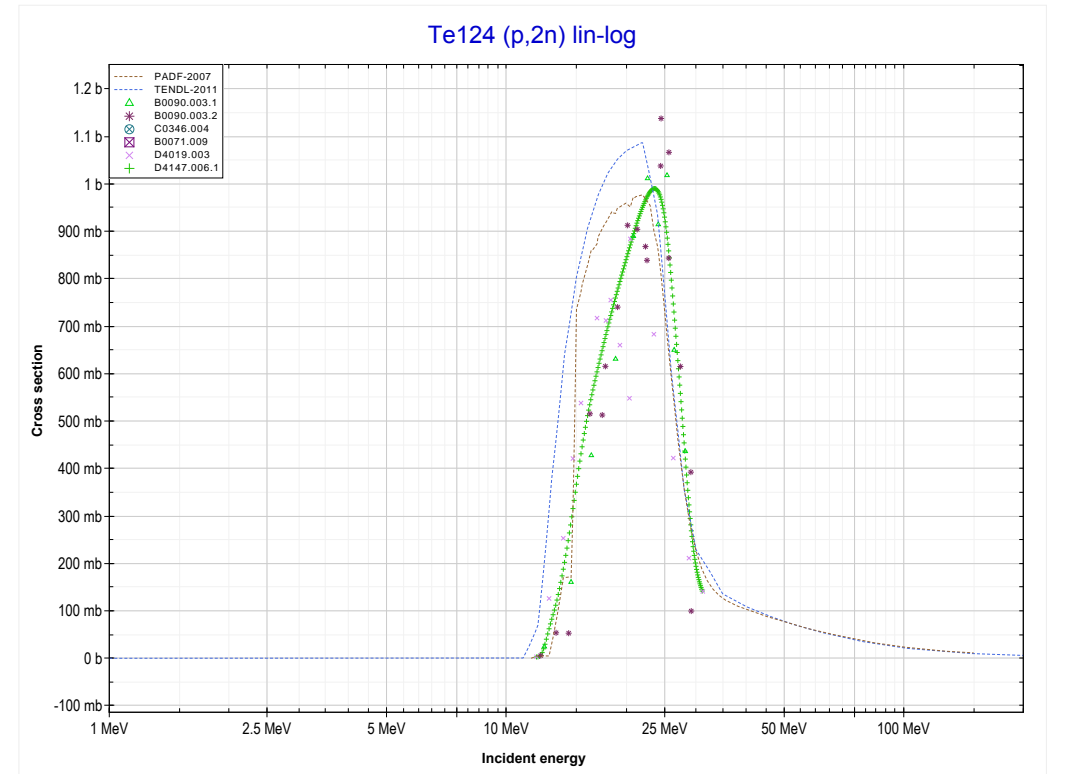
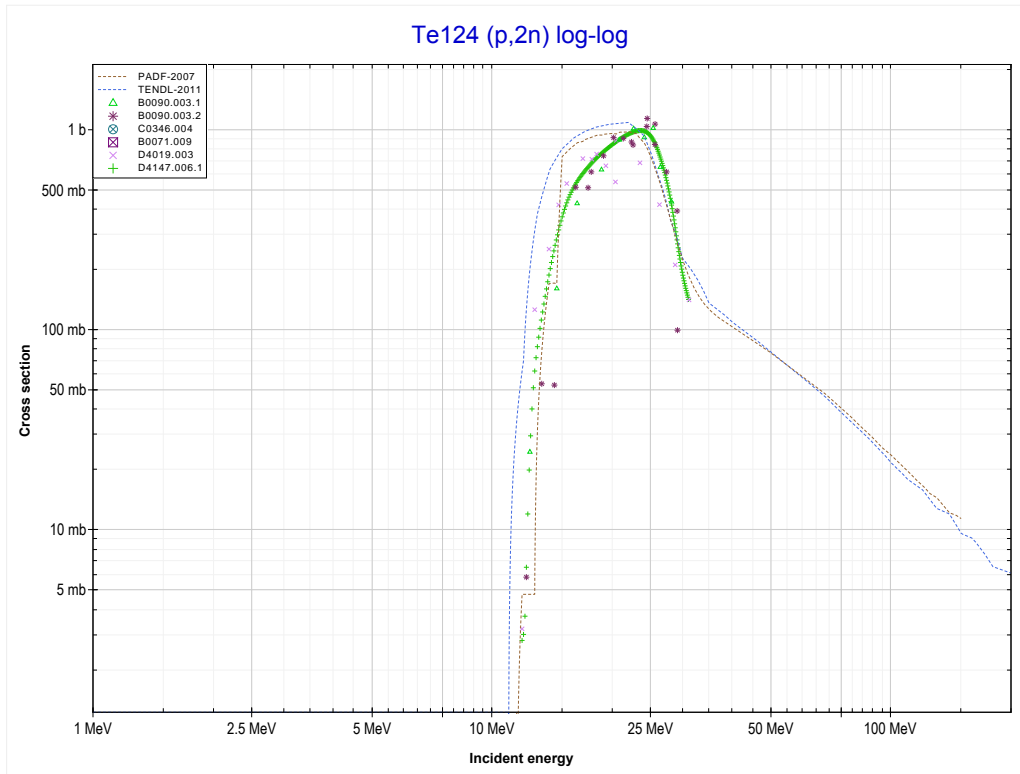
Reaction	Q-Value
Te123(p,2p)Sb122	-8130.67 keV

<< 52-Te-123	<b>52-Te-124</b>	52-Te-125 >>
<< MT111 (p,2p)	<b>MT4 (p,n) or MT5 (I124 production)</b>	MT16 (p,2n) >>



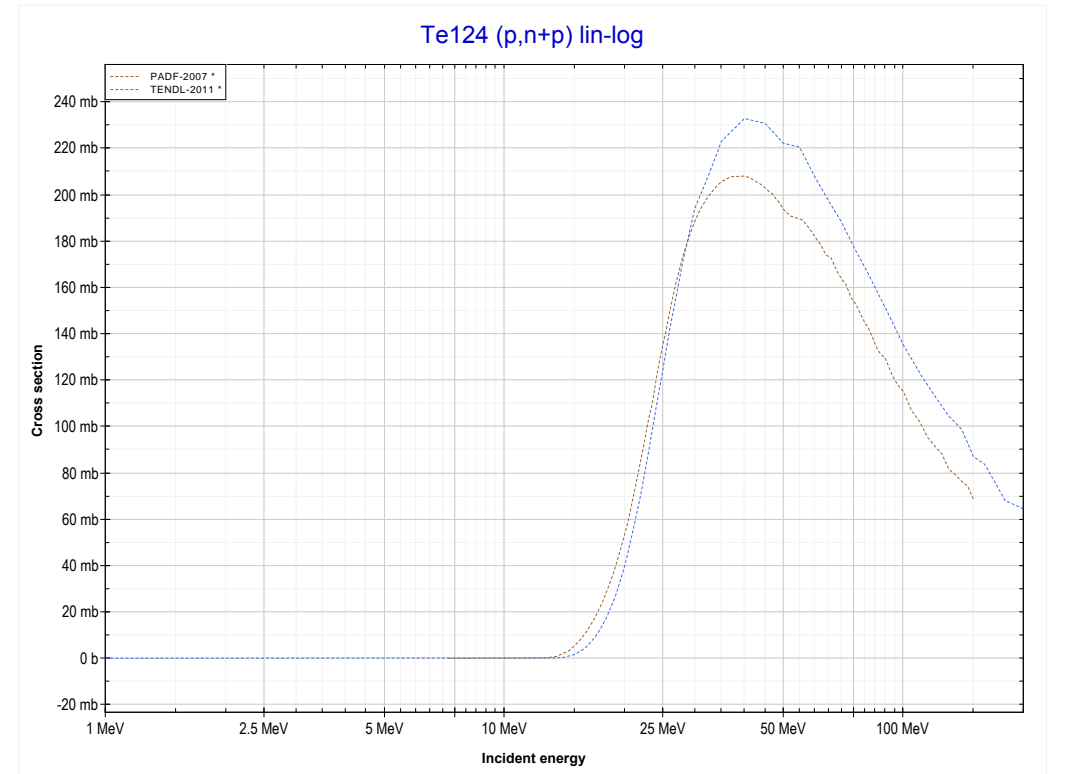
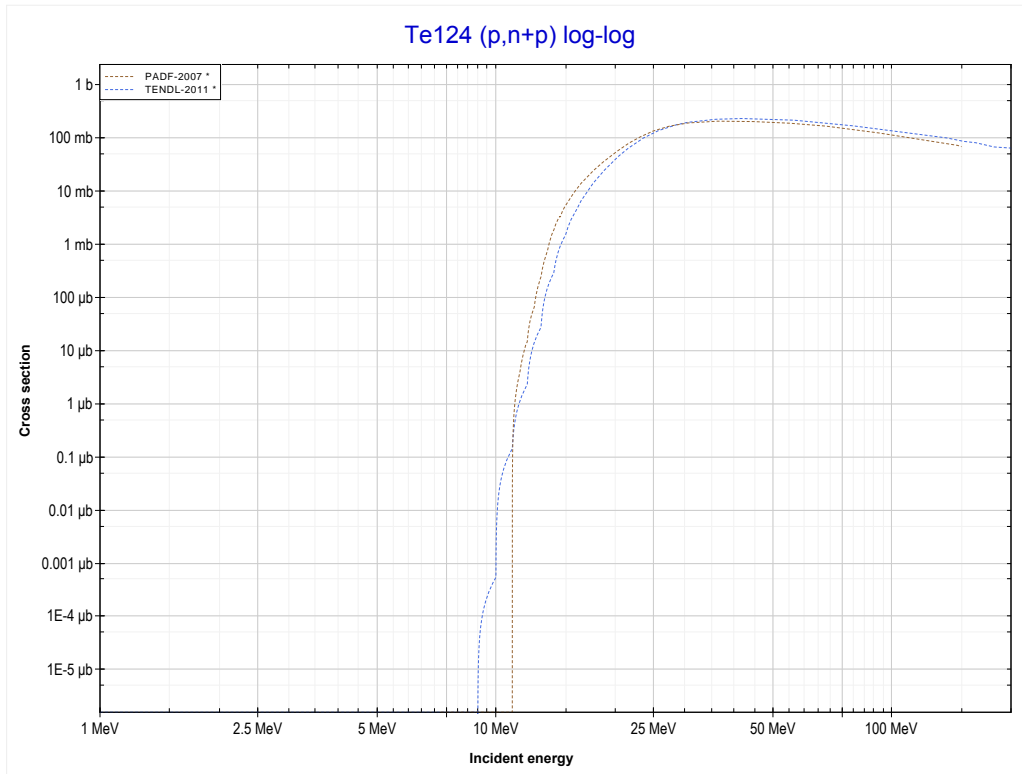
Reaction	Q-Value
Te124(p,n)I124	-3941.85 keV

<< 52-Te-123	<b>52-Te-124</b>	52-Te-125 >>
<< MT4 (p,n)	<b>MT16 (p,2n) or MT5 (I123 production)</b>	MT28 (p,n+p) >>



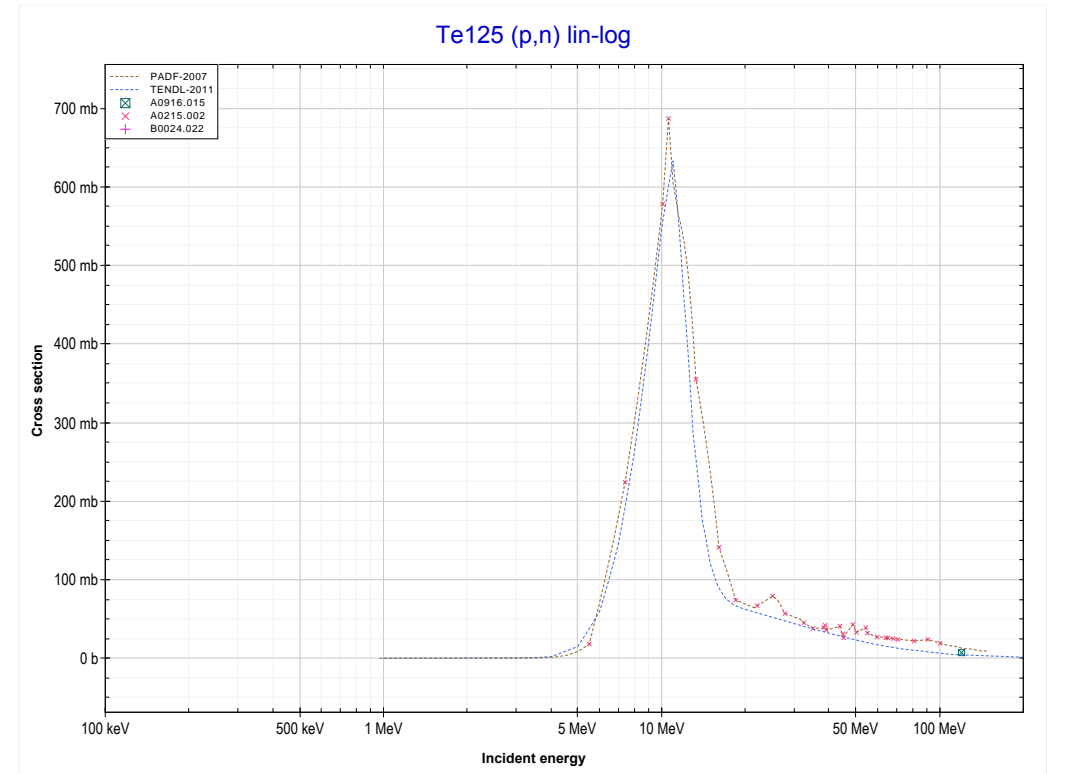
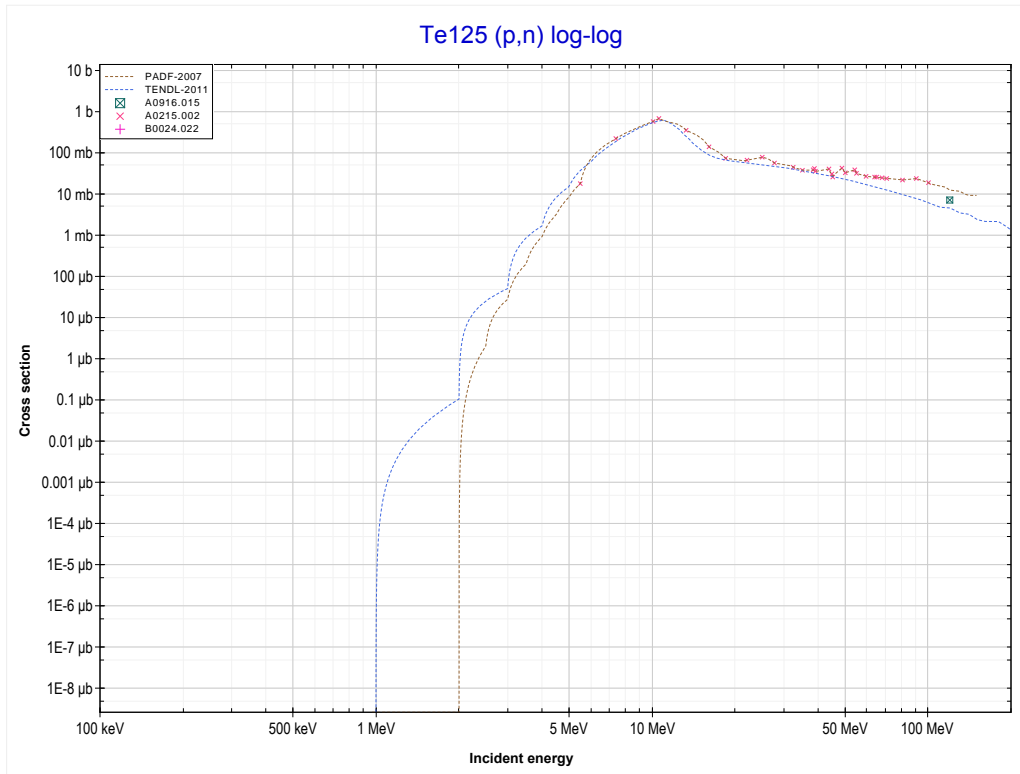
Reaction	Q-Value
Te124(p,2n)I123	-11435.16 keV

<< 51-Sb-123	<b>52-Te-124</b>	52-Te-126 >>
<< MT16 (p,2n)	<b>MT28 (p,n+p) or MT5 (Te123 production)</b>	MT4 (p,n) >>



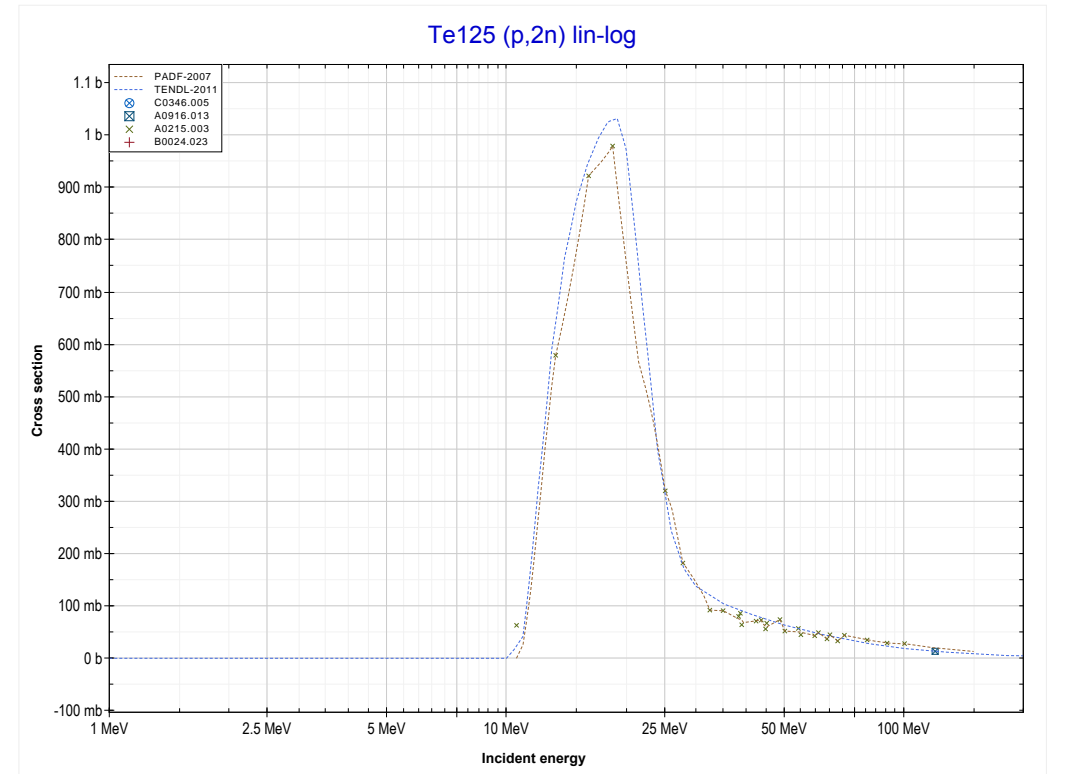
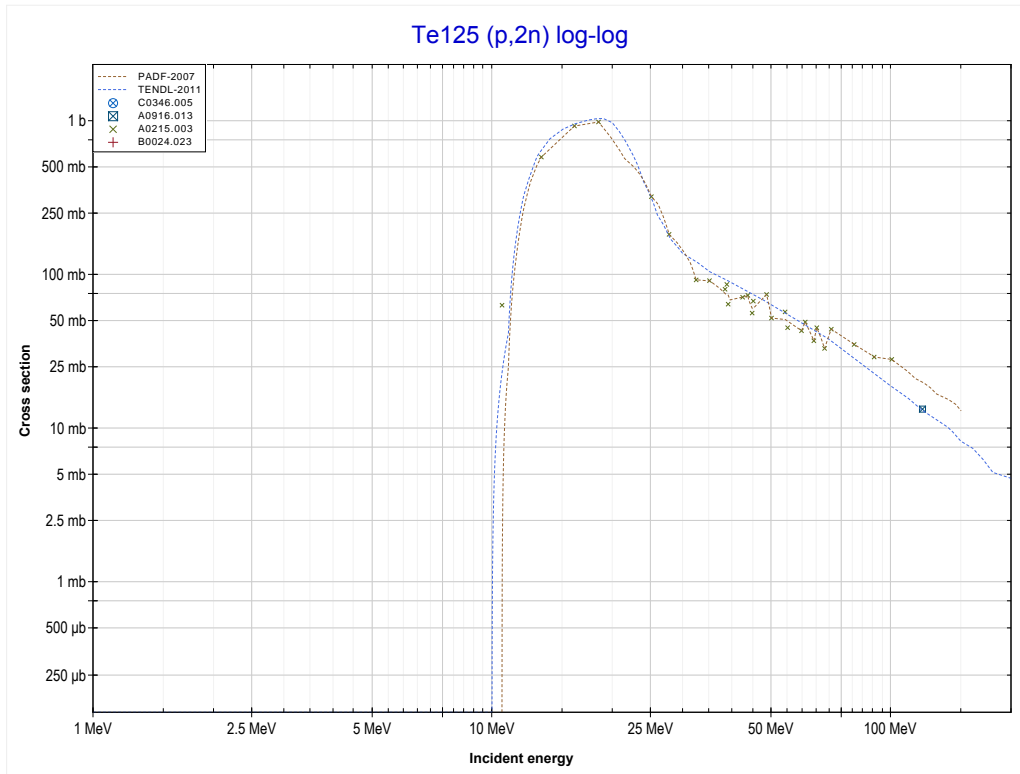
Reaction	Q-Value
Te124(p,d)Te123	-7199.35 keV
Te124(p,n+p)Te123	-9423.92 keV

<< 52-Te-124	<b>52-Te-125</b>	52-Te-126 >>
<< MT28 (p,n+p)	<b>MT4 (p,n) or MT5 (I125 production)</b>	MT16 (p,2n) >>



Reaction	Q-Value
Te125(p,n)I125	-968.15 keV

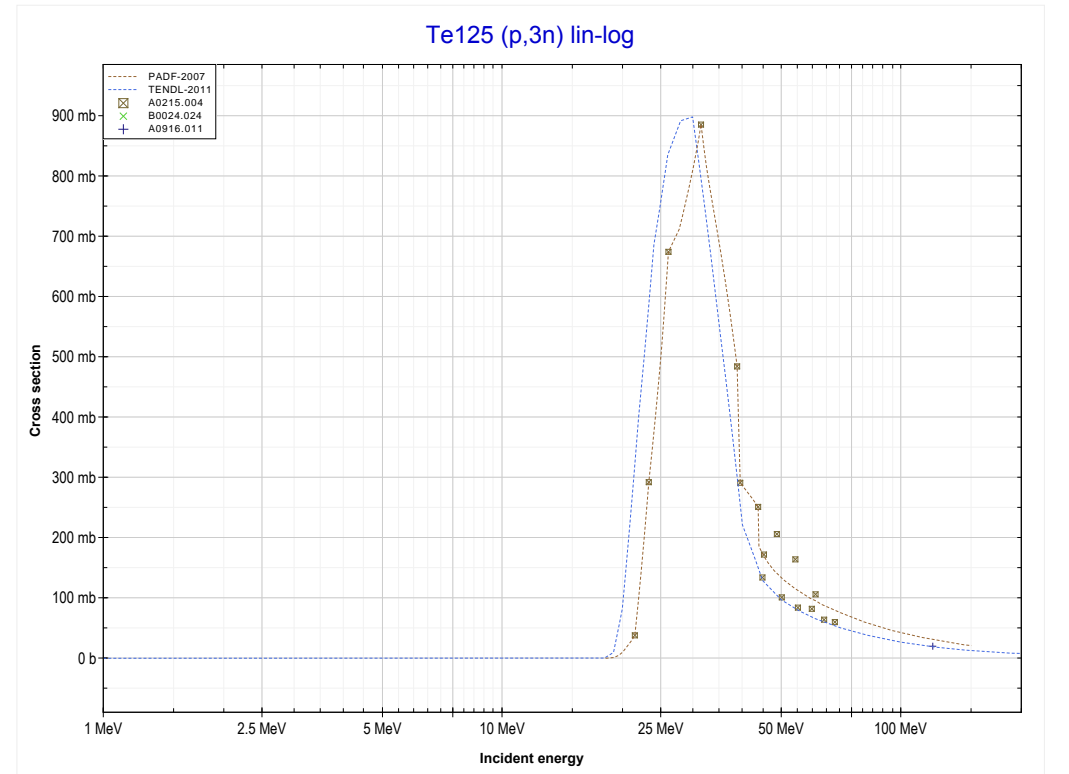
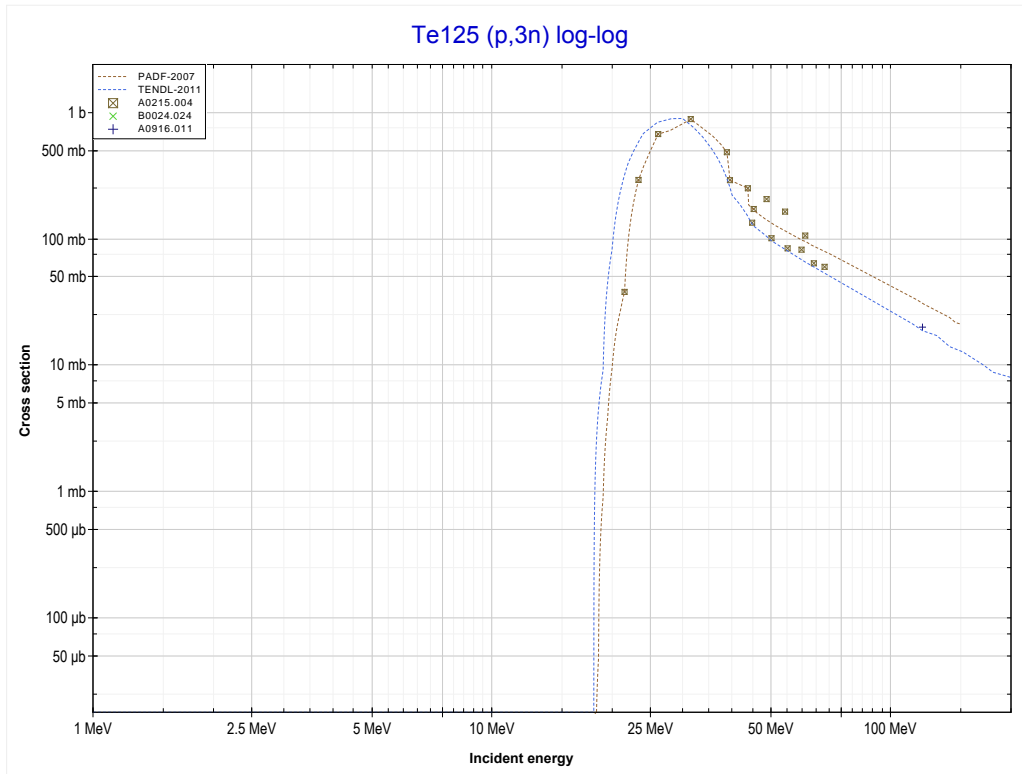
<< 52-Te-124	<b>52-Te-125</b>	52-Te-126 >>
<< MT4 (p,n)	<b>MT16 (p,2n) or MT5 (I124 production)</b>	MT17 (p,3n) >>



Reaction	Q-Value
Te125(p,2n)I124	-10510.86 keV

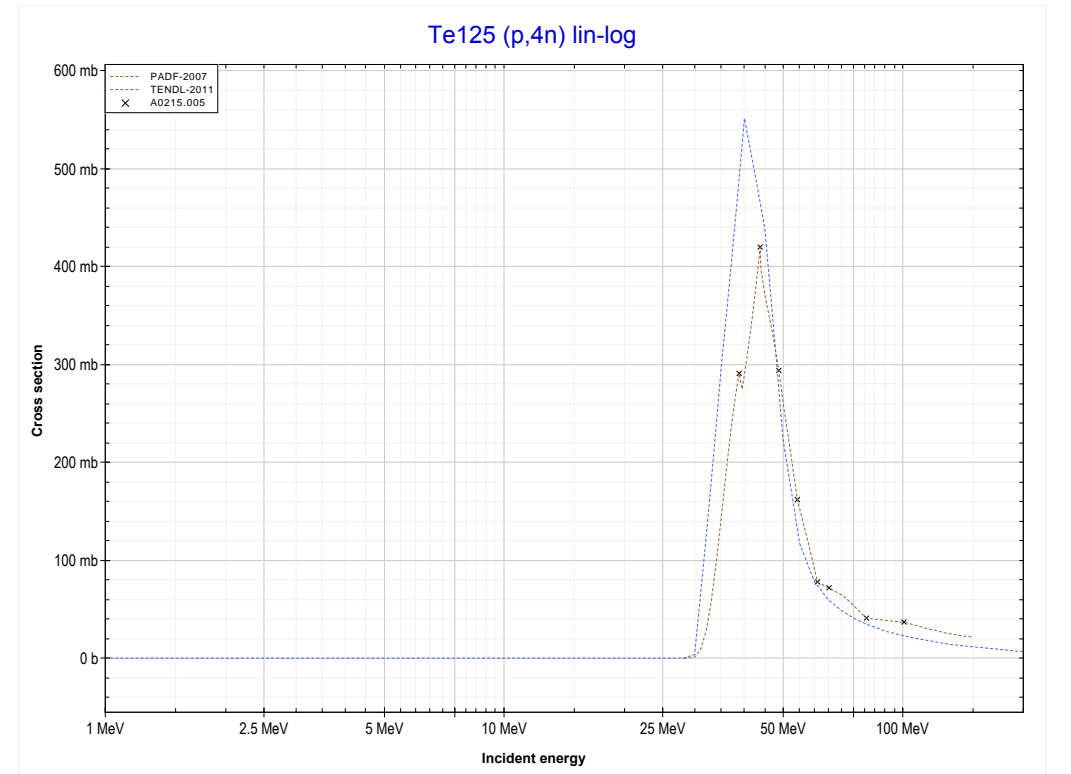
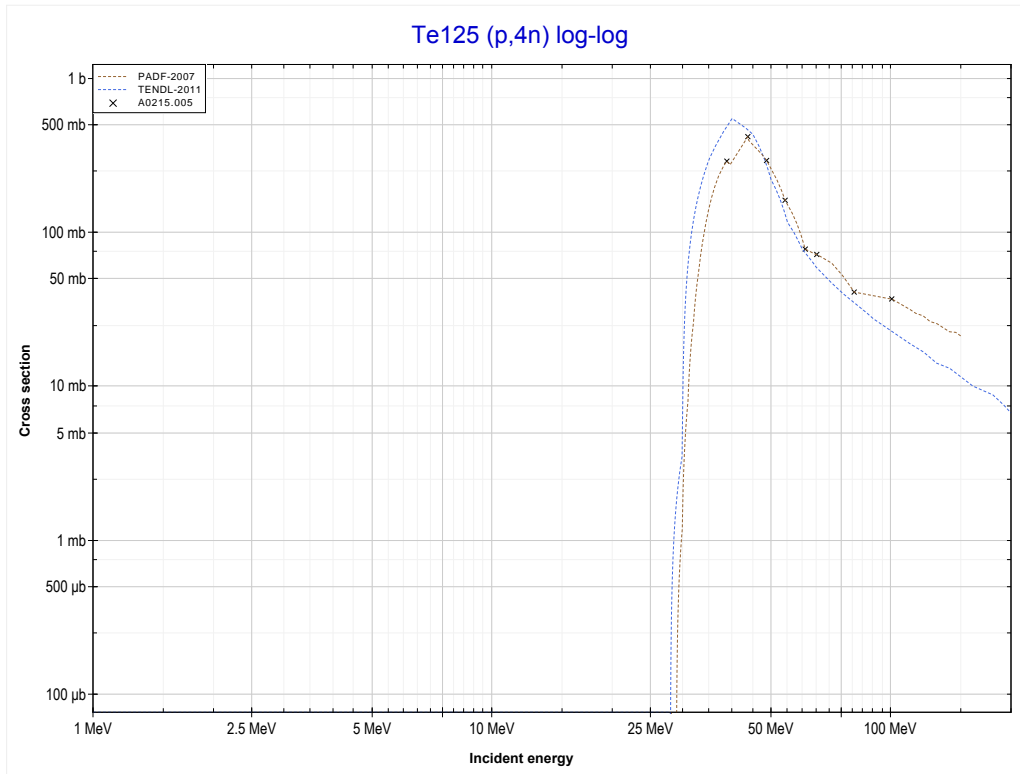


<< 52-Te-122	<b>52-Te-125</b>	52-Te-126 >>
<< MT16 (p,2n)	<b>MT17 (p,3n) or MT5 (I123 production)</b>	MT37 (p,4n) >>



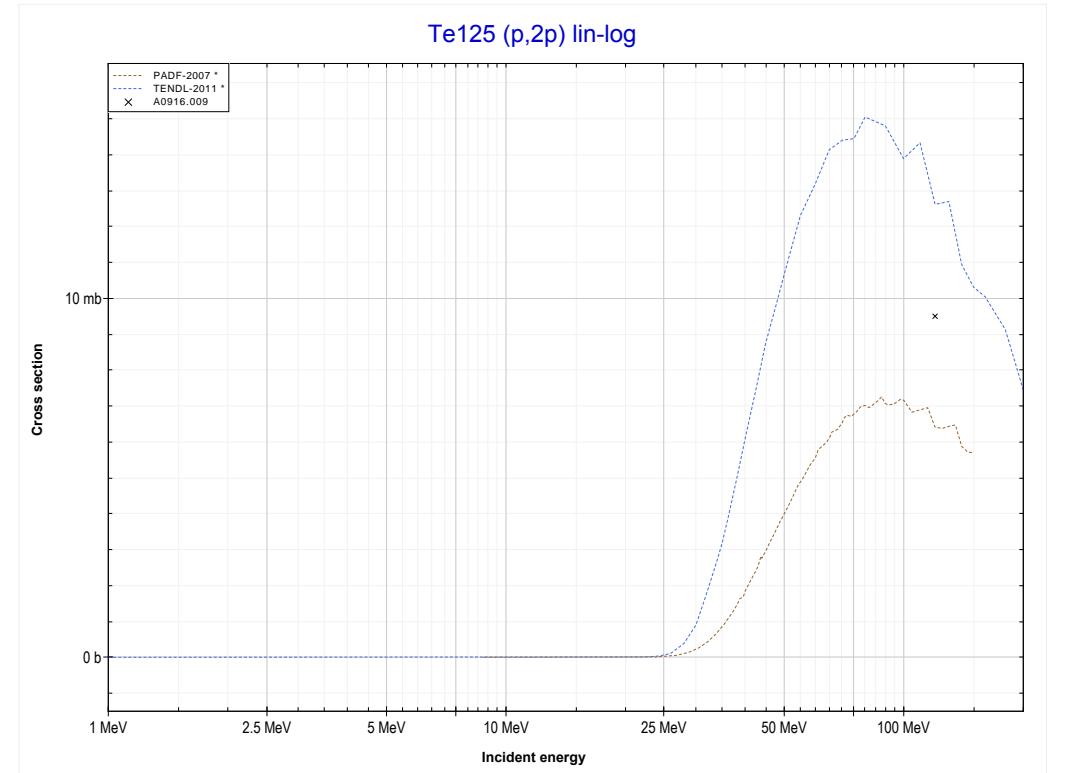
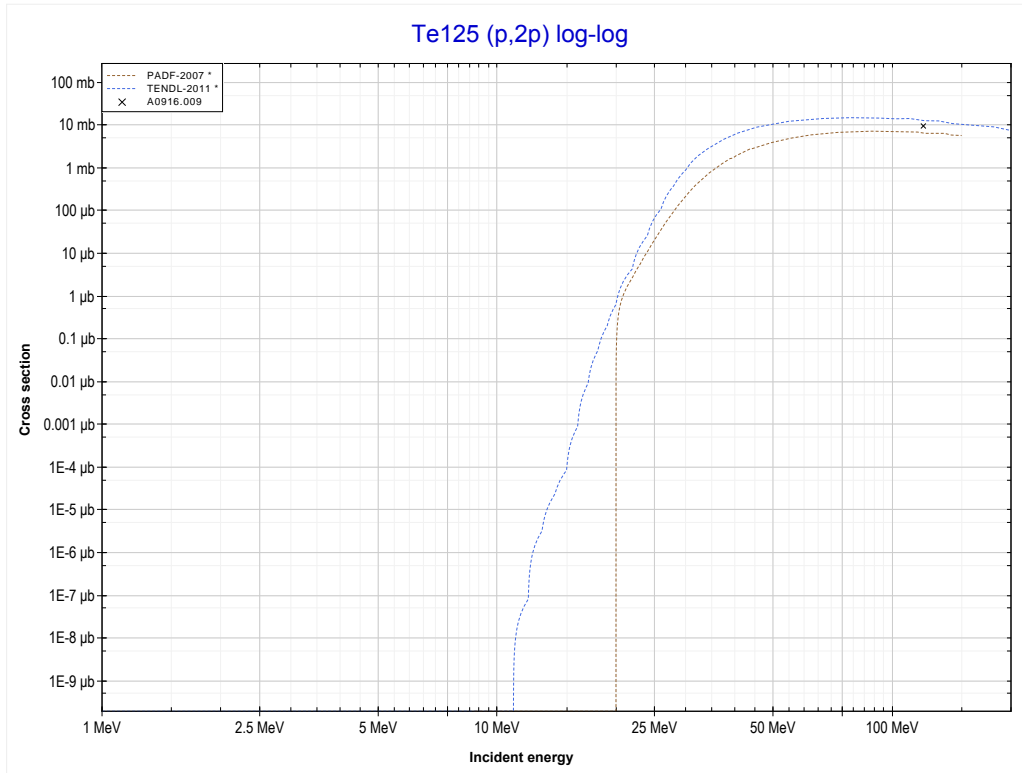
Reaction	Q-Value
Te125(p,3n)I123	-18004.18 keV

<< 52-Te-122	<b>52-Te-125</b>	52-Te-126 >>
<< MT17 (p,3n)	<b>MT37 (p,4n) or MT5 (I122 production)</b>	MT111 (p,2p) >>



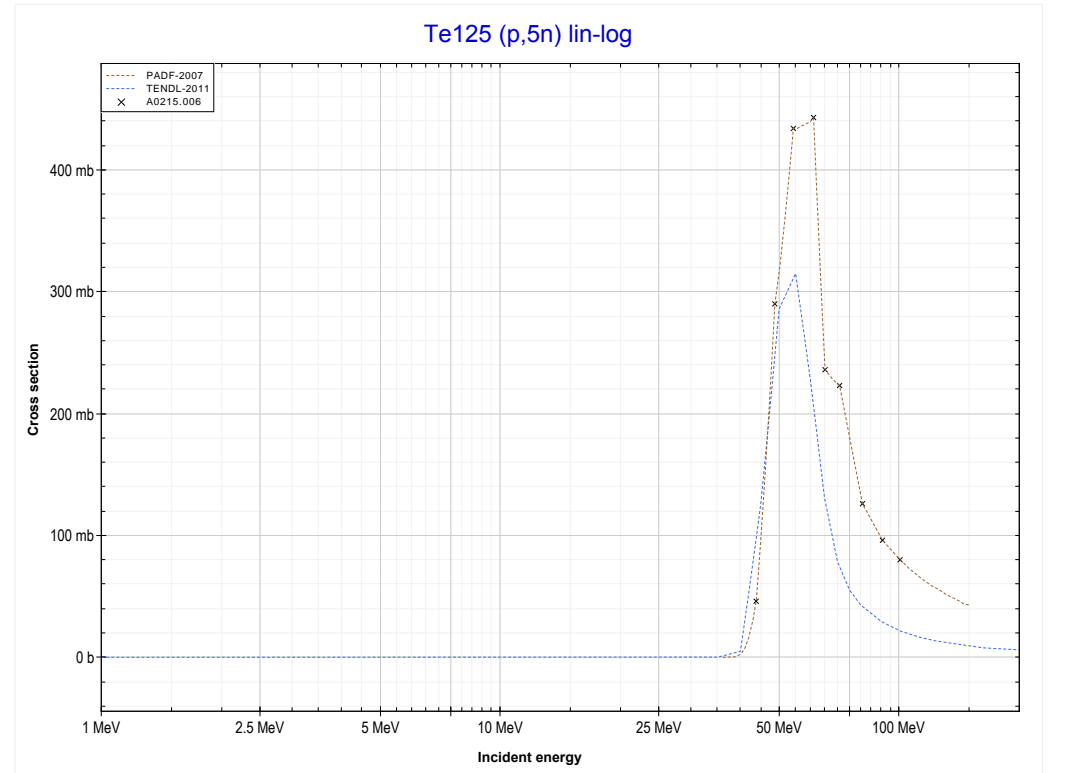
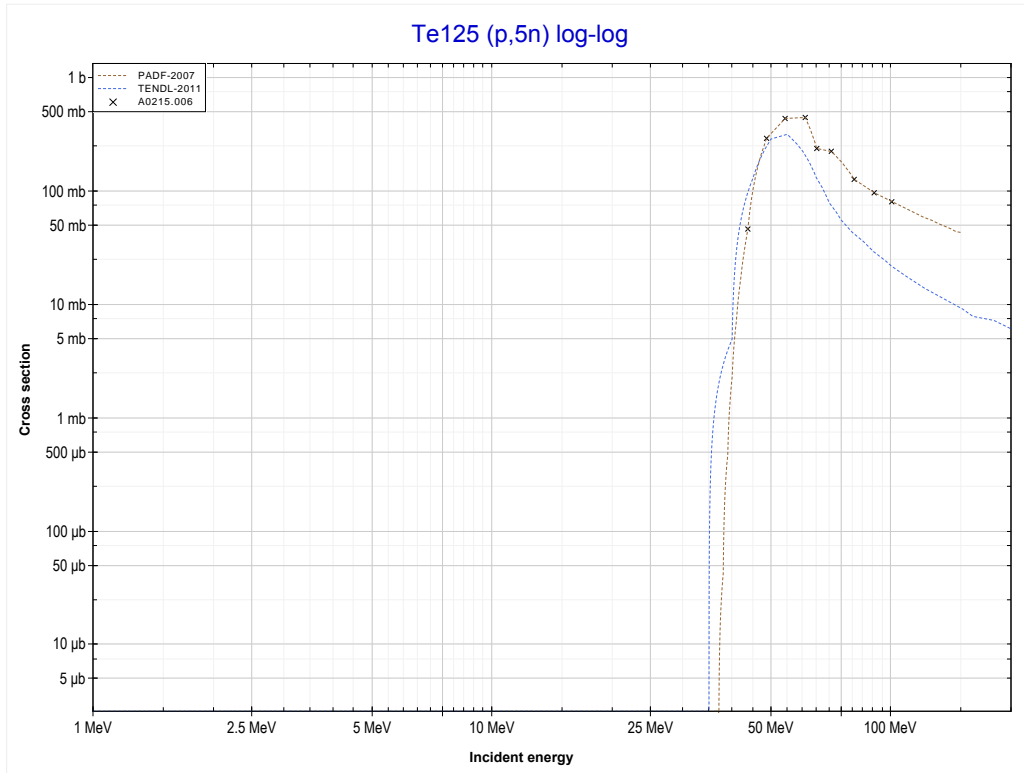
Reaction	Q-Value
Te125(p,4n)I122	-27938.50 keV

<< 52-Te-123	<b>52-Te-125</b>	52-Te-126 >>
<< MT37 (p,4n)	<b>MT111 (p,2p) or MT5 (Sb124 production)</b>	MT152 (p,5n) >>



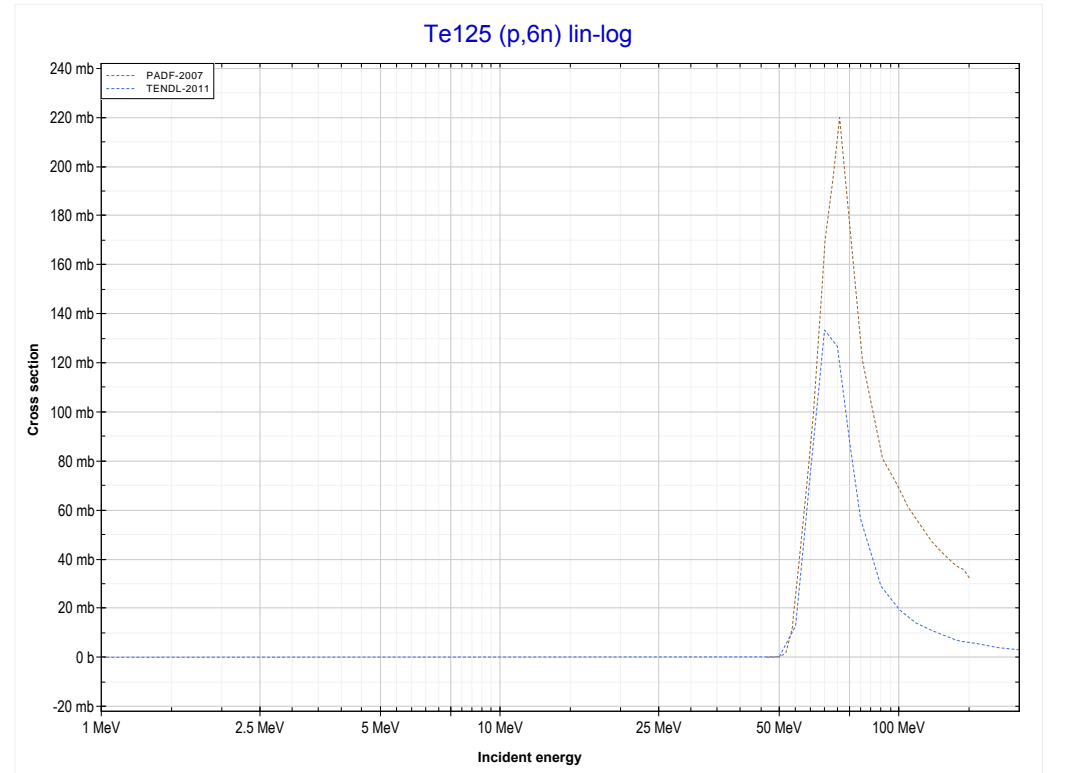
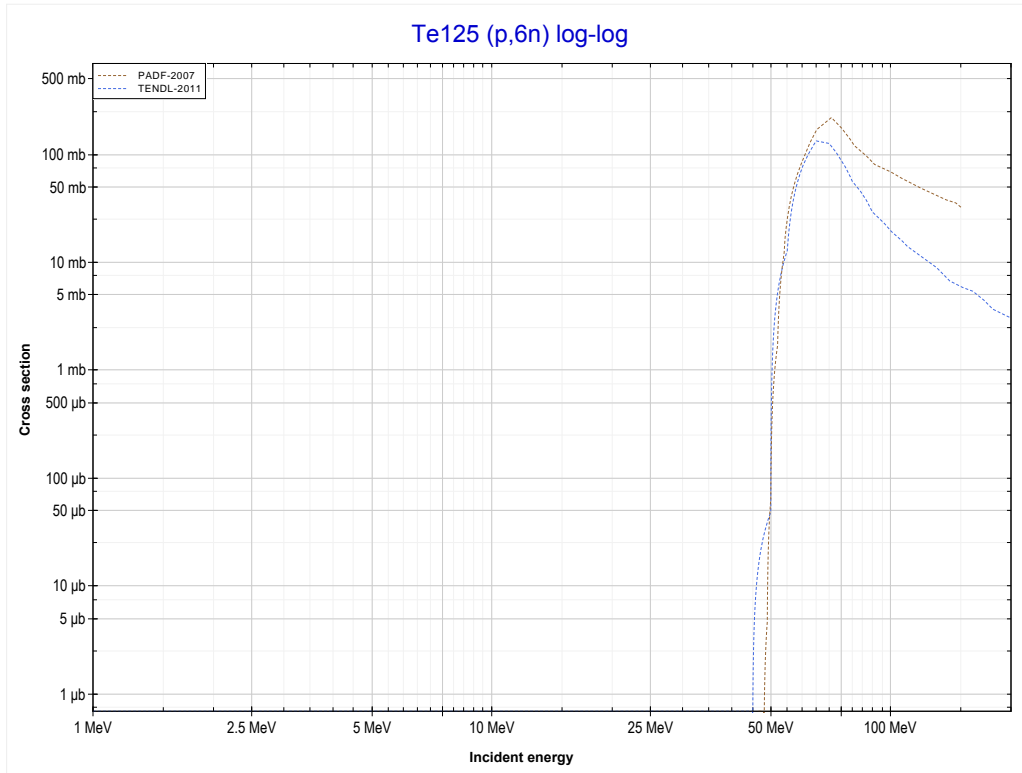
Reaction	Q-Value
Te125(p,2p)Sb124	-8690.87 keV

<< 50-Sn-124	<b>52-Te-125</b>	53-I-127 >>
<< MT111 (p,2p)	<b>MT152 (p,5n) or MT5 (I121 production)</b>	MT153 (p,6n) >>



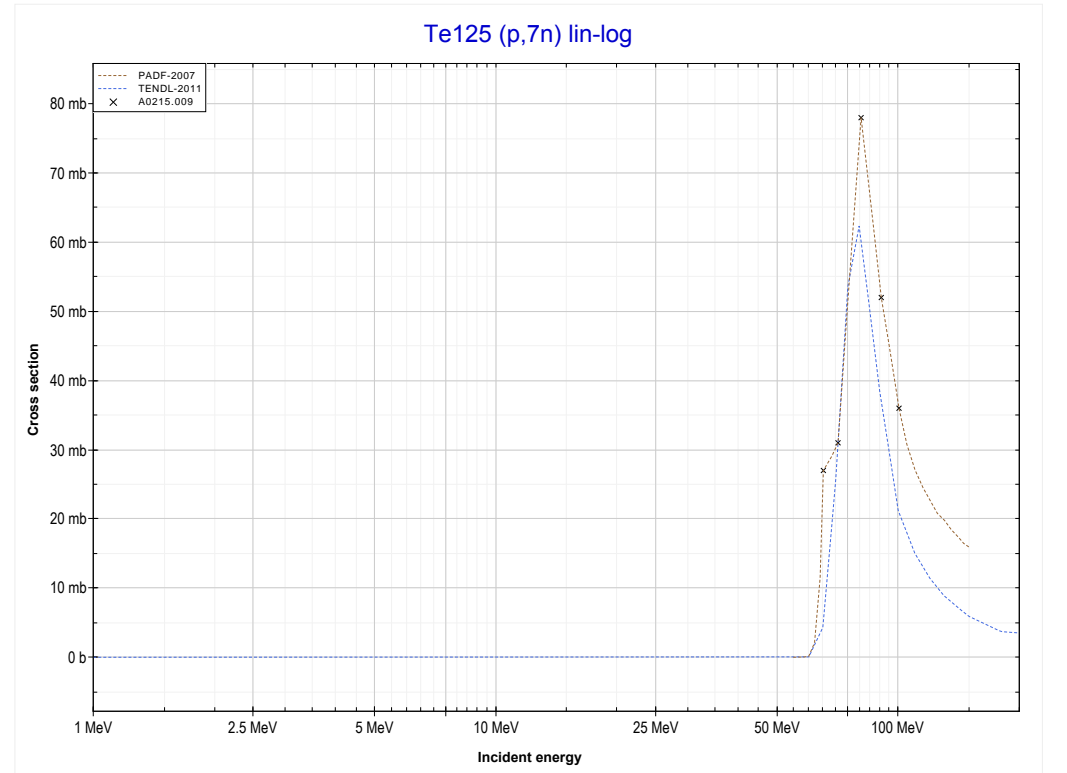
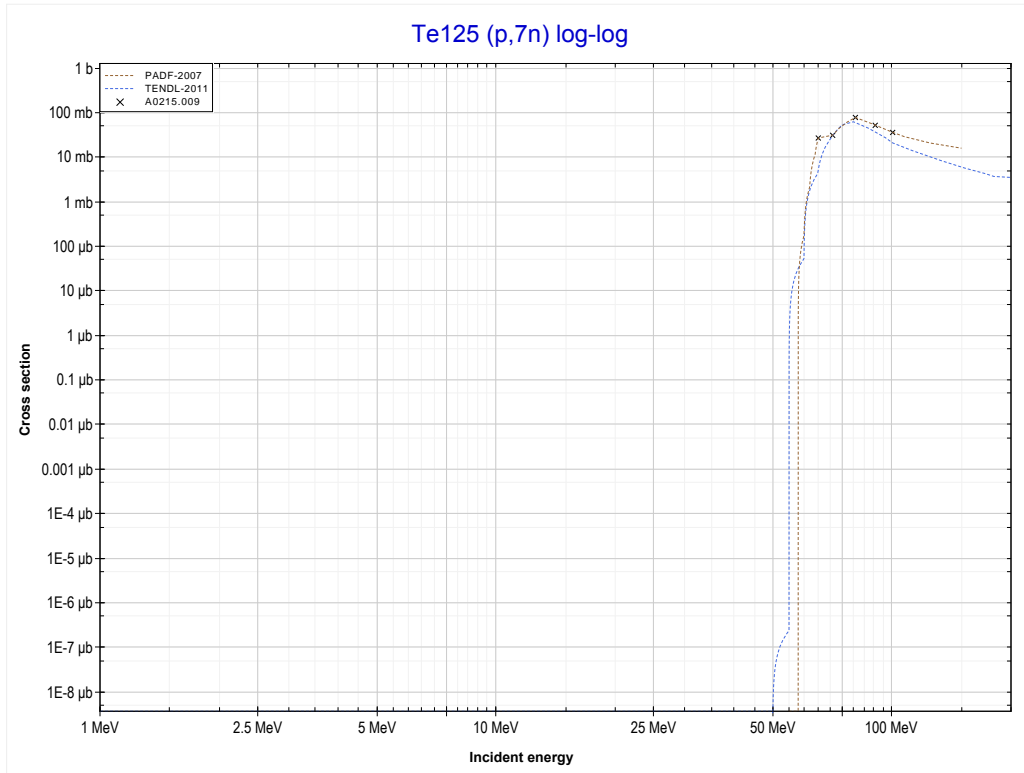
Reaction	Q-Value
Te125(p,5n)I121	-35802.82 keV

<< 48-Cd-116	<b>52-Te-125</b>	53-I-127 >>
<< MT152 (p,5n)	<b>MT153 (p,6n) or MT5 (I120 production)</b>	MT160 (p,7n) >>



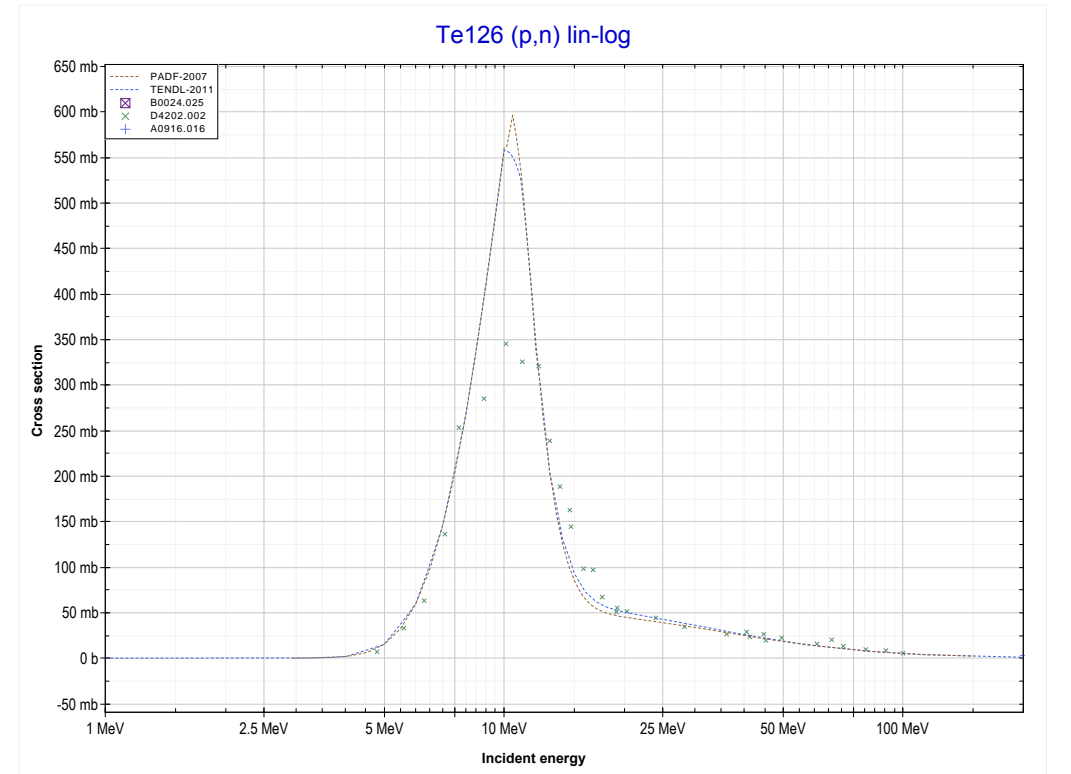
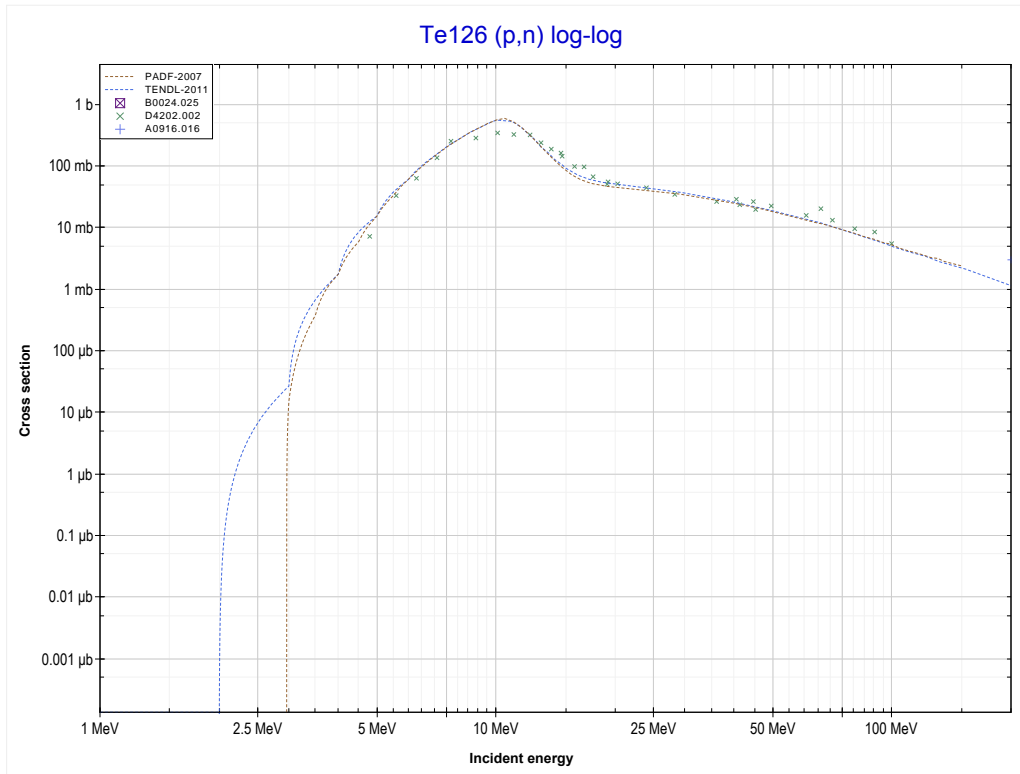
Reaction	Q-Value
Te125(p,6n)I120	-46371.13 keV

<< 50-Sn-124	<b>52-Te-125</b>	53-I-127 >>
<< MT153 (p,6n)	<b>MT160 (p,7n) or MT5 (I119 production)</b>	MT4 (p,n) >>



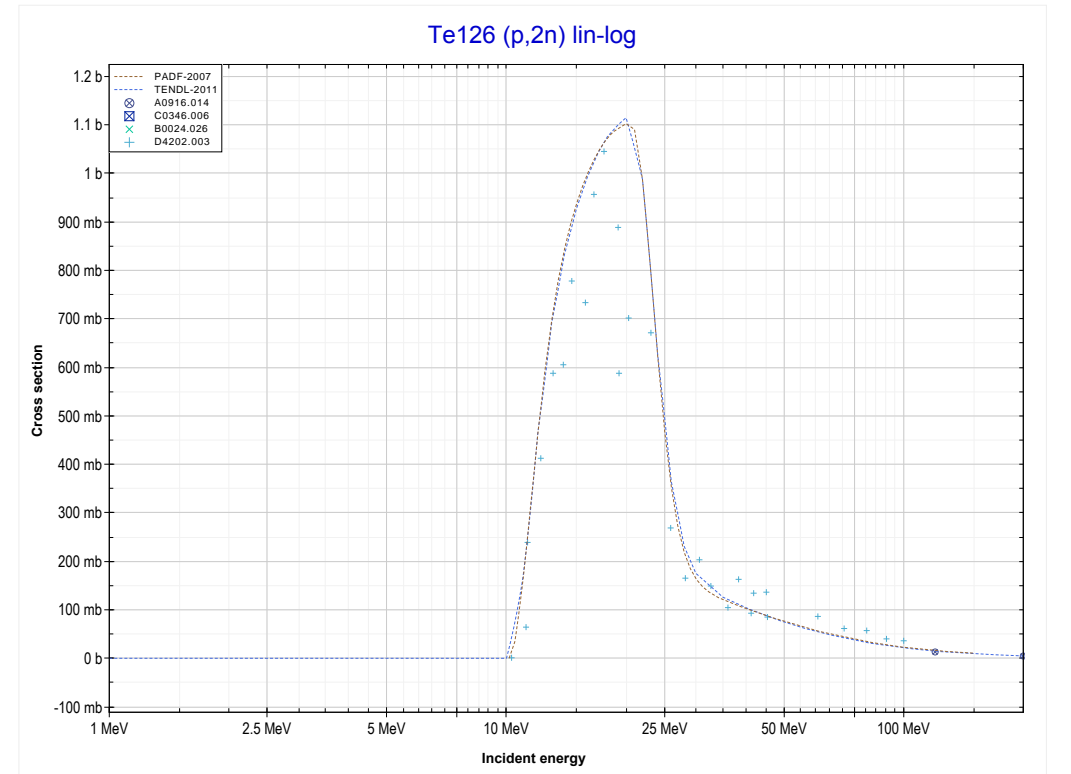
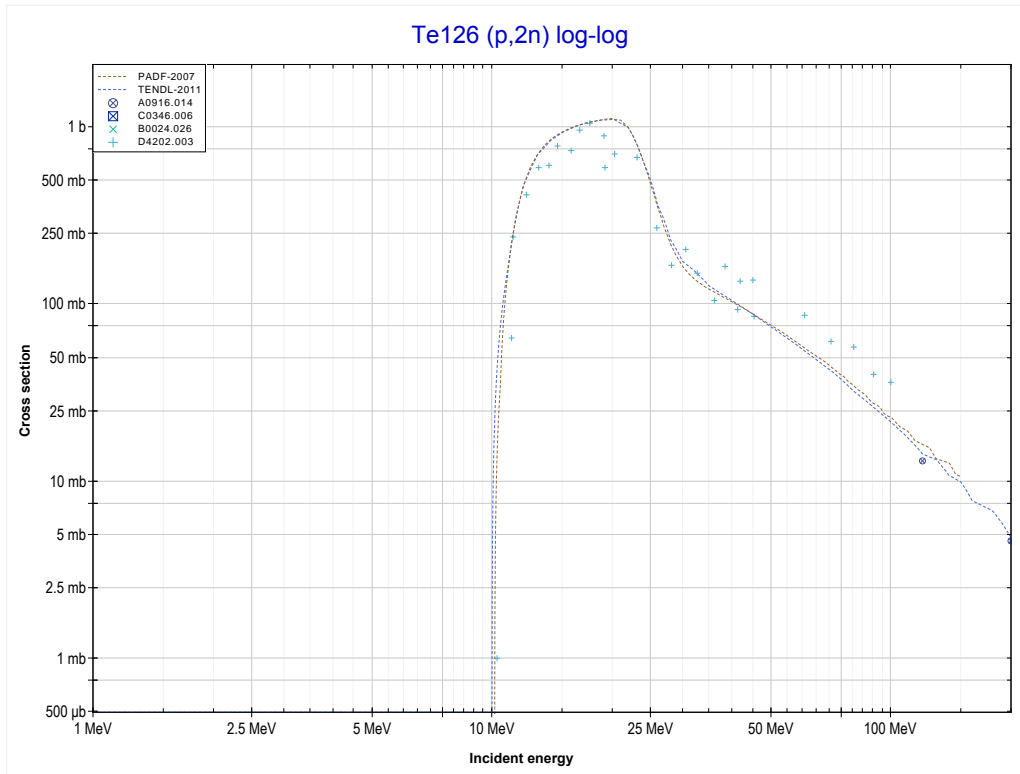
Reaction	Q-Value
Te125(p,7n)I119	-54466.45 keV

<< 52-Te-125	<b>52-Te-126</b>	52-Te-128 >>
<< MT160 (p,7n)	<b>MT4 (p,n) or MT5 (I126 production)</b>	MT16 (p,2n) >>



Reaction	Q-Value
Te126(p,n)I126	-2935.95 keV

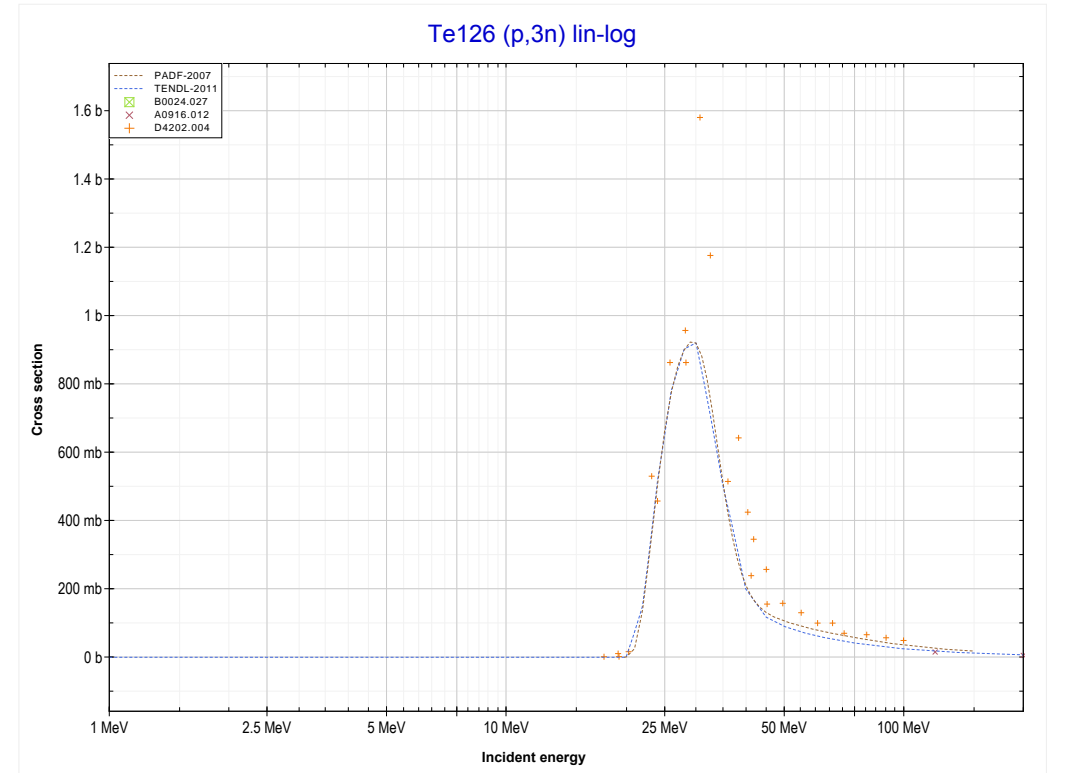
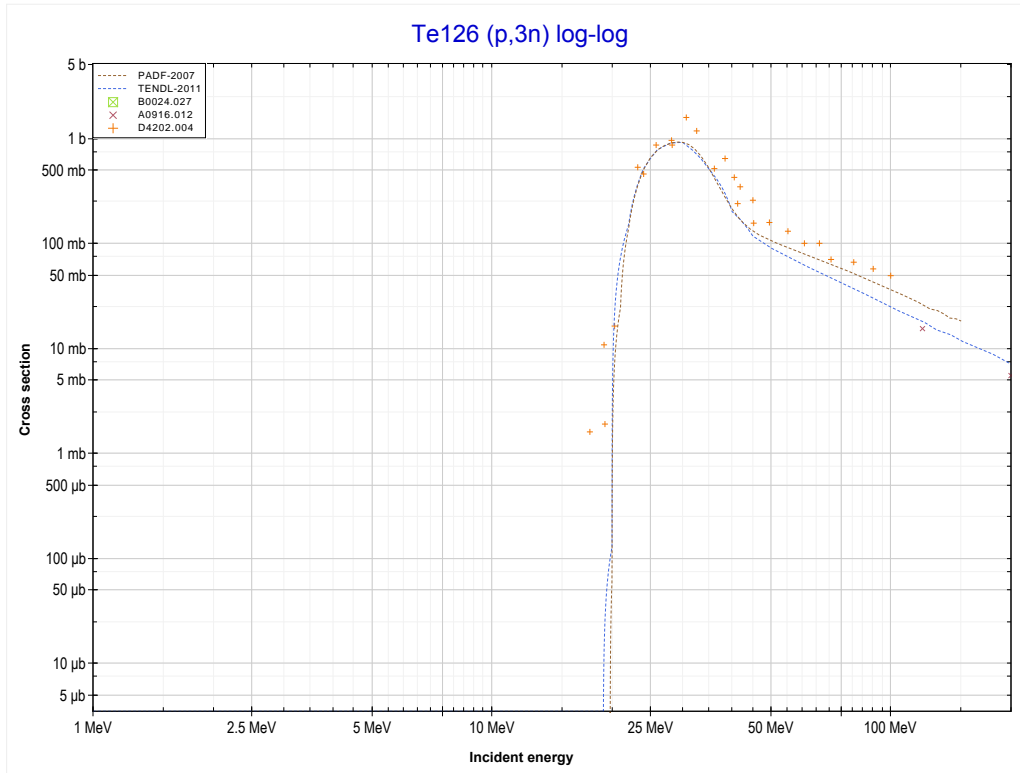
<< 52-Te-125	<b>52-Te-126</b>	54-Xe-124 >>
<< MT4 (p,n)	<b>MT16 (p,2n) or MT5 (I125 production)</b>	MT17 (p,3n) >>



Reaction	Q-Value
Te126(p,2n)I125	-10081.86 keV

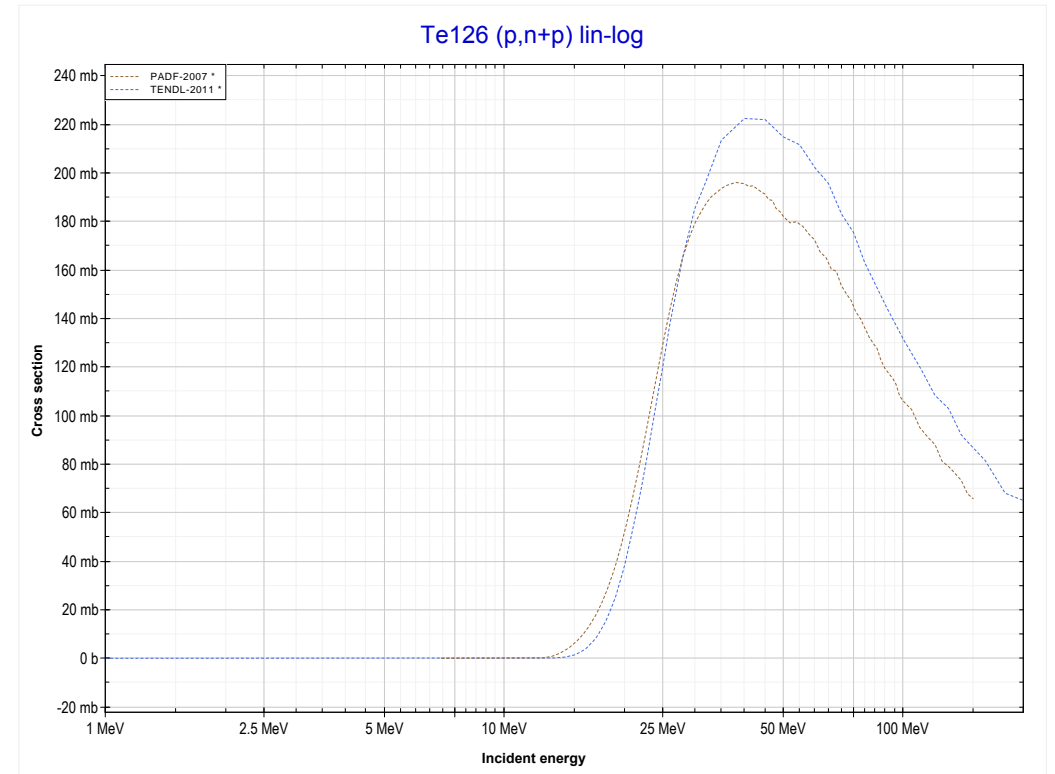
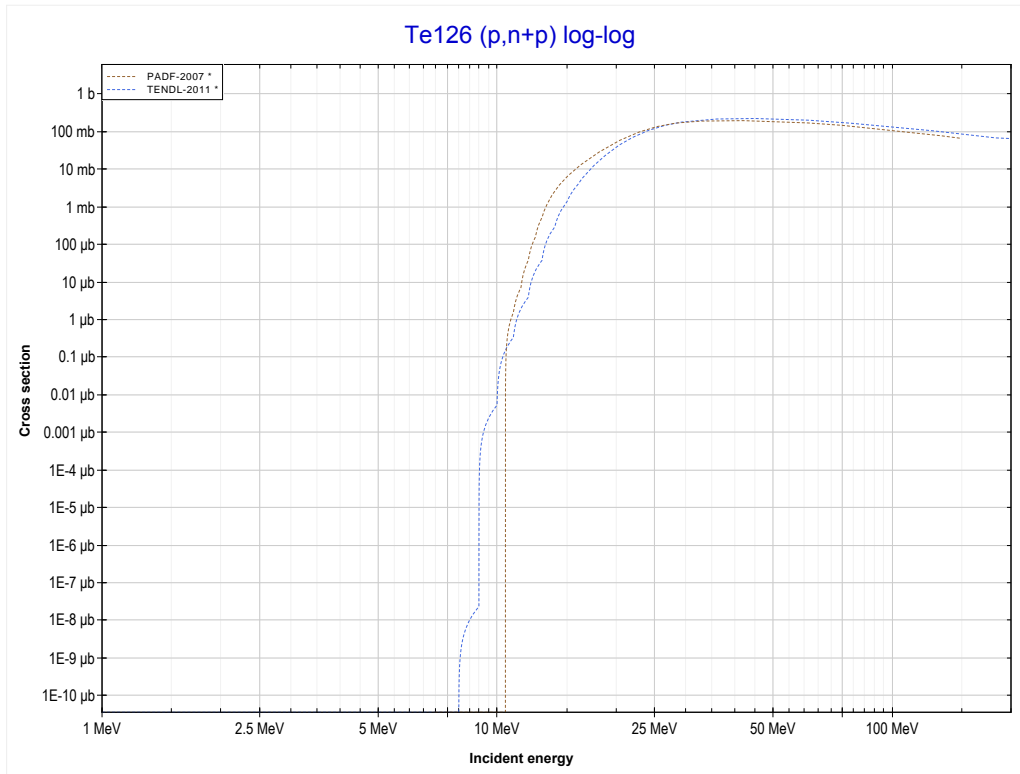


<< 52-Te-125	<b>52-Te-126</b>	53-I-127 >>
<< MT16 (p,2n)	<b>MT17 (p,3n) or MT5 (I124 production)</b>	MT28 (p,n+p) >>



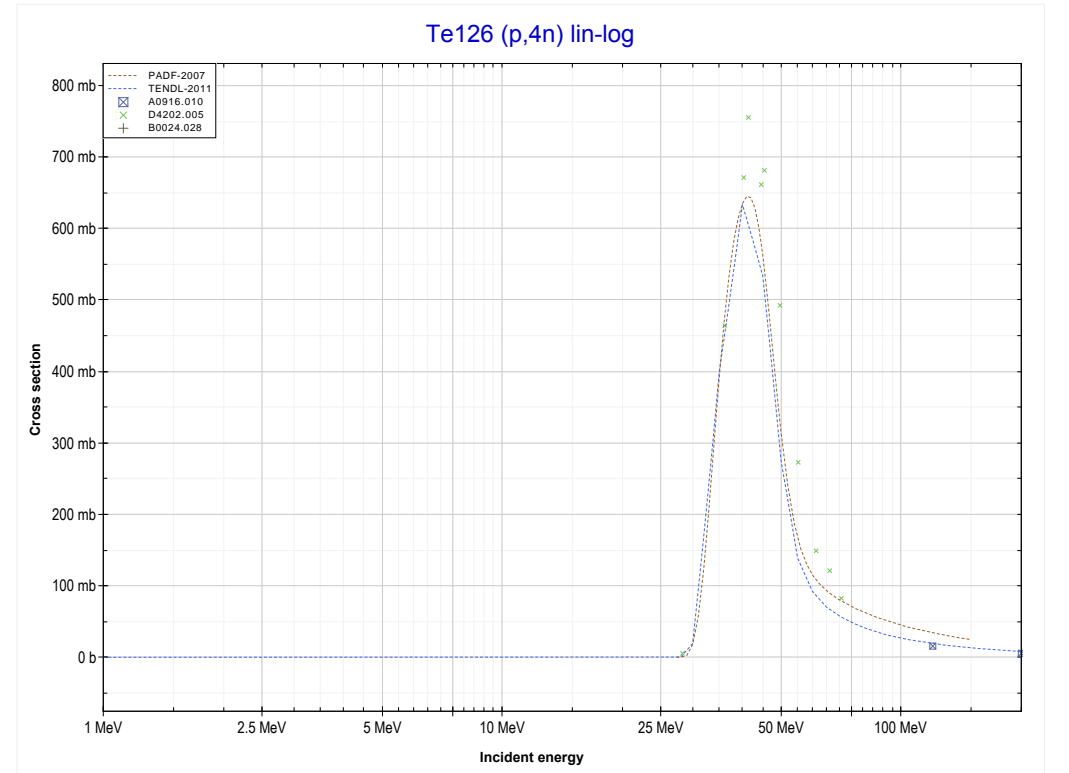
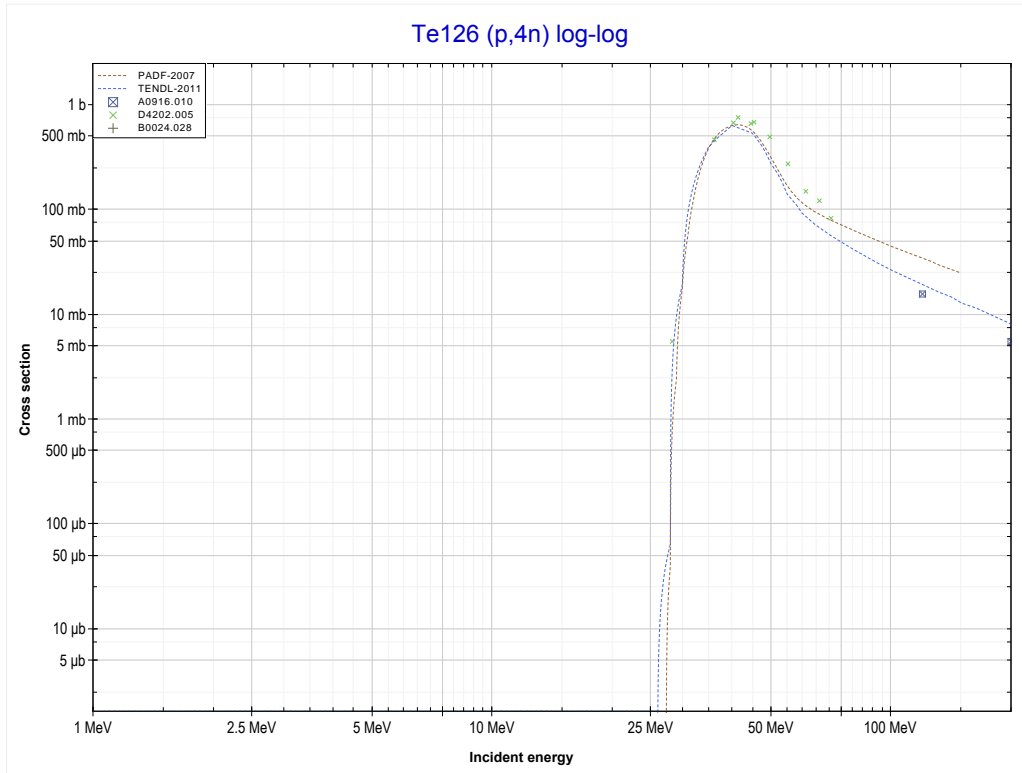
Reaction	Q-Value
Te126(p,3n)I124	-19624.58 keV

<< 52-Te-124	<b>52-Te-126</b>	52-Te-128 >>
<< MT17 (p,3n)	<b>MT28 (p,n+p) or MT5 (Te125 production)</b>	MT37 (p,4n) >>



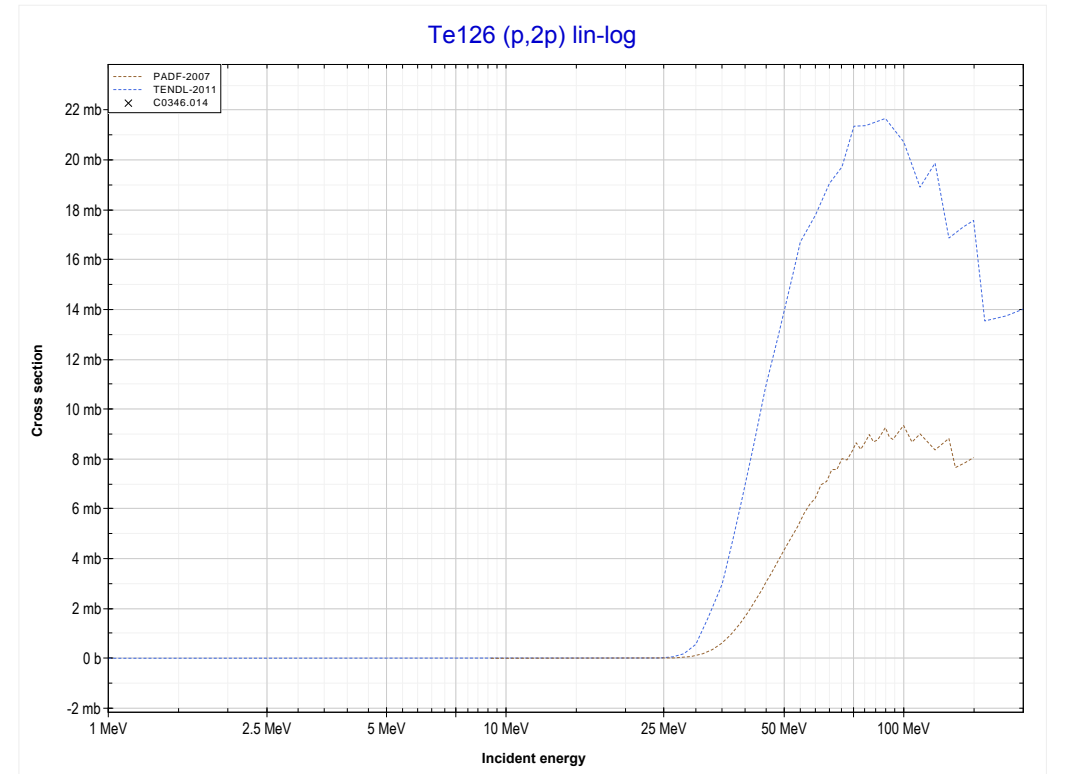
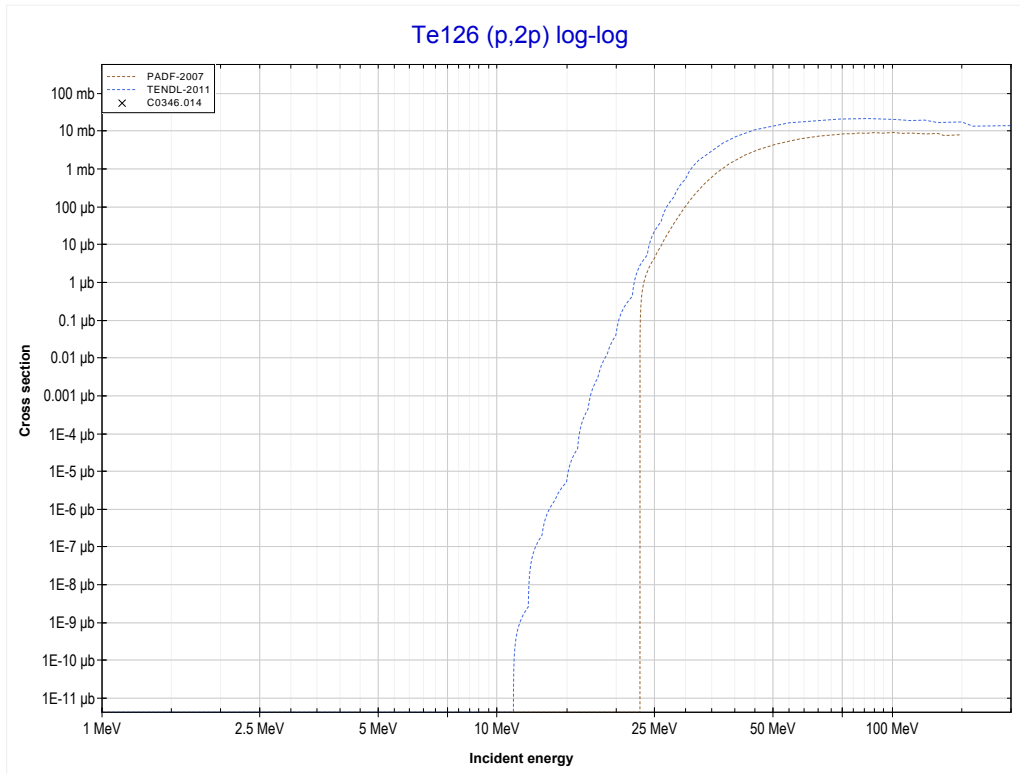
Reaction	Q-Value
Te126(p,d)Te125	-6889.15 keV
Te126(p,n+p)Te125	-9113.72 keV

<< 52-Te-125	<b>52-Te-126</b>	59-Pr-141 >>
<< MT28 (p,n+p)	<b>MT37 (p,4n) or MT5 (I123 production)</b>	MT111 (p,2p) >>



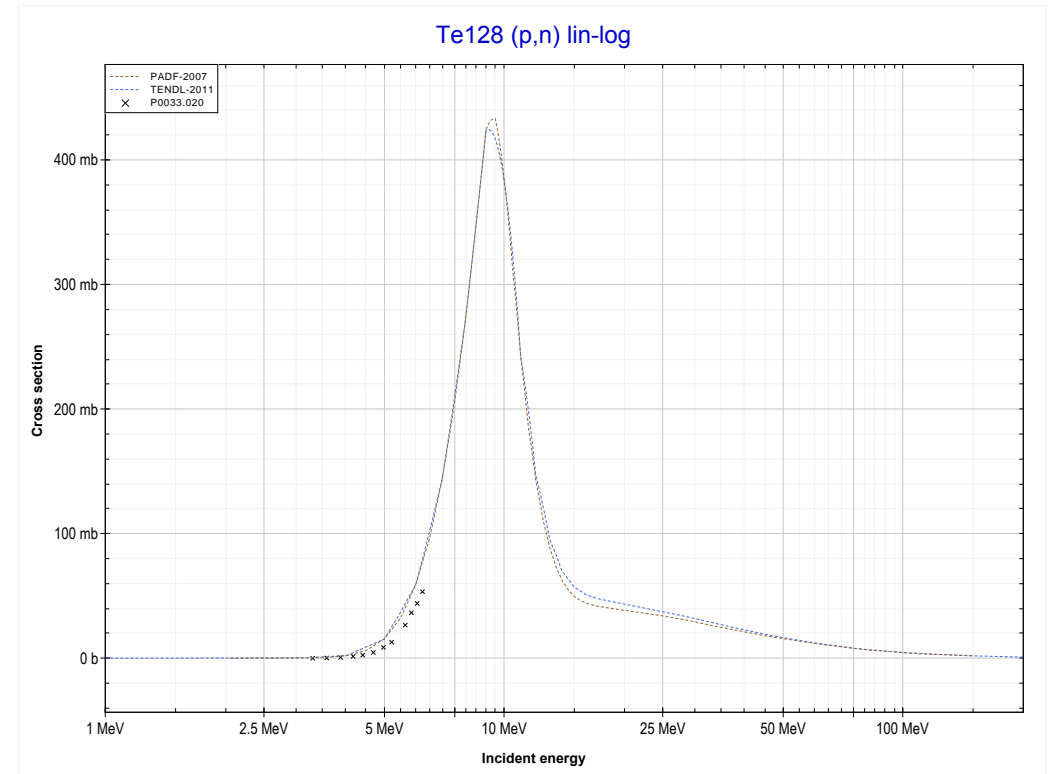
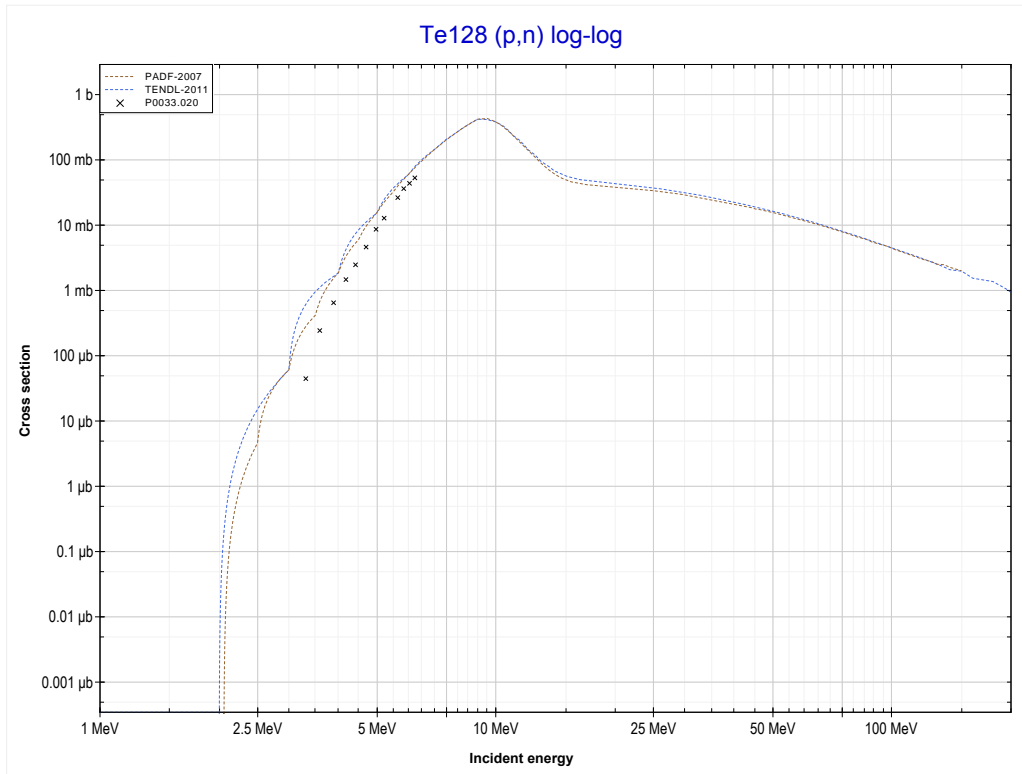
Reaction	Q-Value
Te126(p,4n)I123	-27117.90 keV

<< 52-Te-125	<b>52-Te-126</b>	52-Te-128 >>
<< MT37 (p,4n)	<b>MT111 (p,2p) or MT5 (Sb125 production)</b>	MT4 (p,n) >>



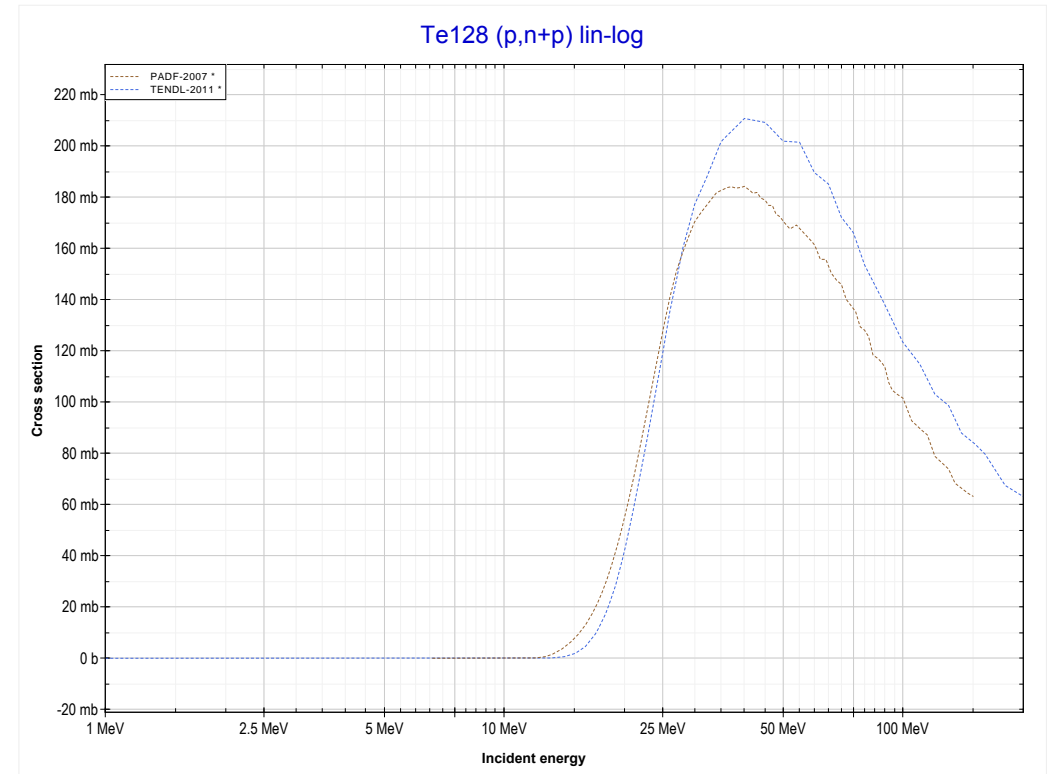
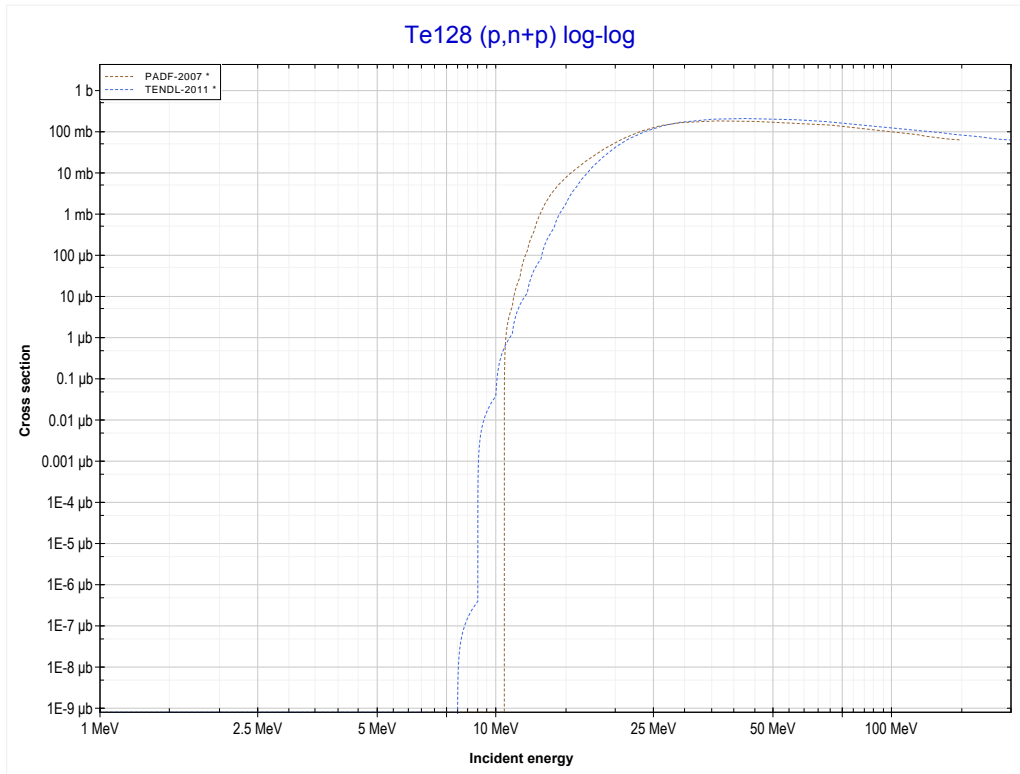
Reaction	Q-Value
Te126(p,2p)Sb125	-9098.07 keV

<< 52-Te-126	<b>52-Te-128</b>	52-Te-130 >>
<< MT111 (p,2p)	<b>MT4 (p,n) or MT5 (I128 production)</b>	MT28 (p,n+p) >>



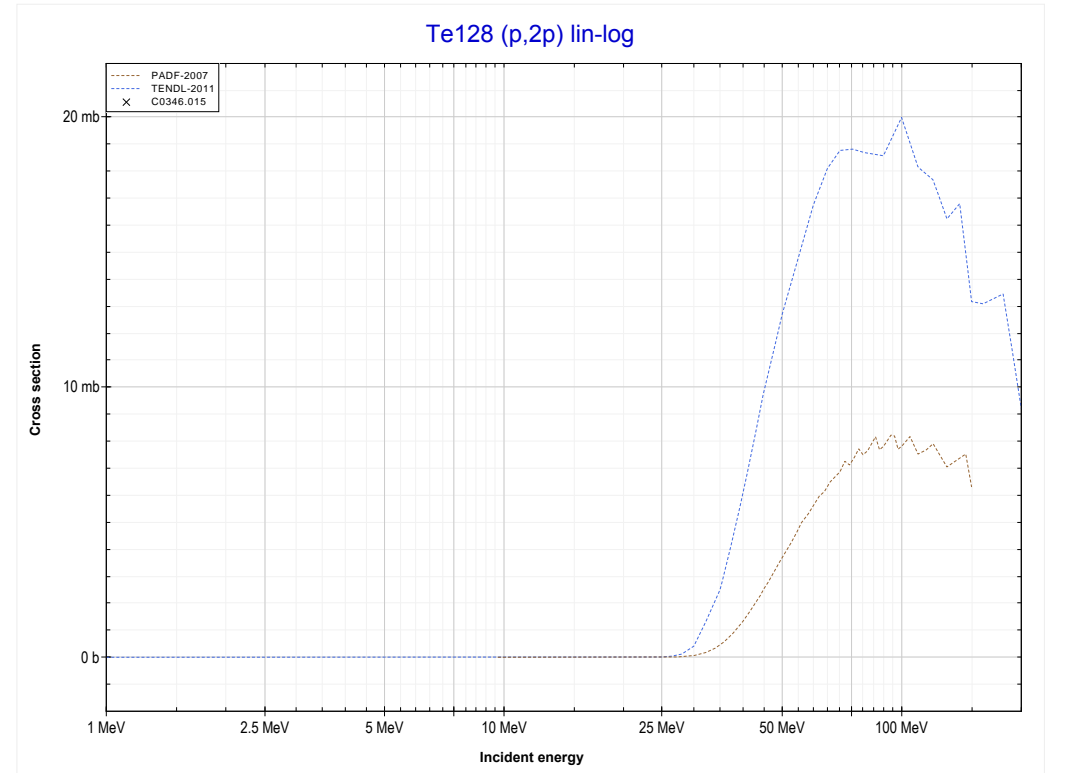
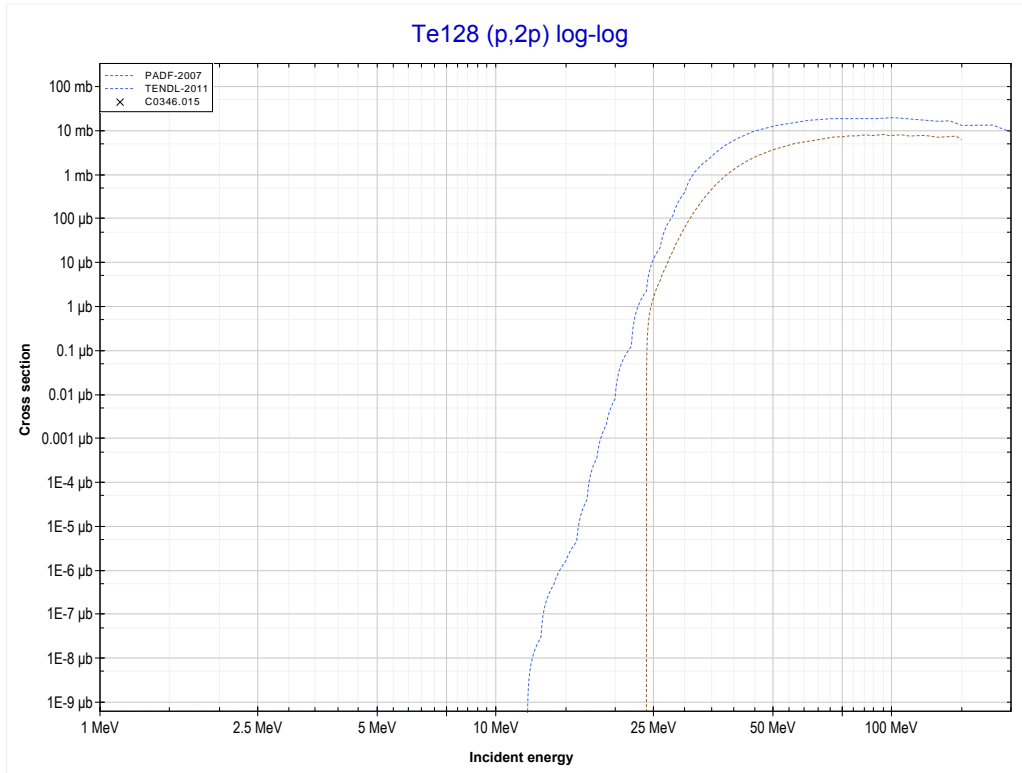
Reaction	Q-Value
Te128(p,n)I128	-2036.45 keV

<< 52-Te-126	<b>52-Te-128</b>	52-Te-130 >>
<< MT4 (p,n)	<b>MT28 (p,n+p) or MT5 (Te127 production)</b>	MT111 (p,2p) >>



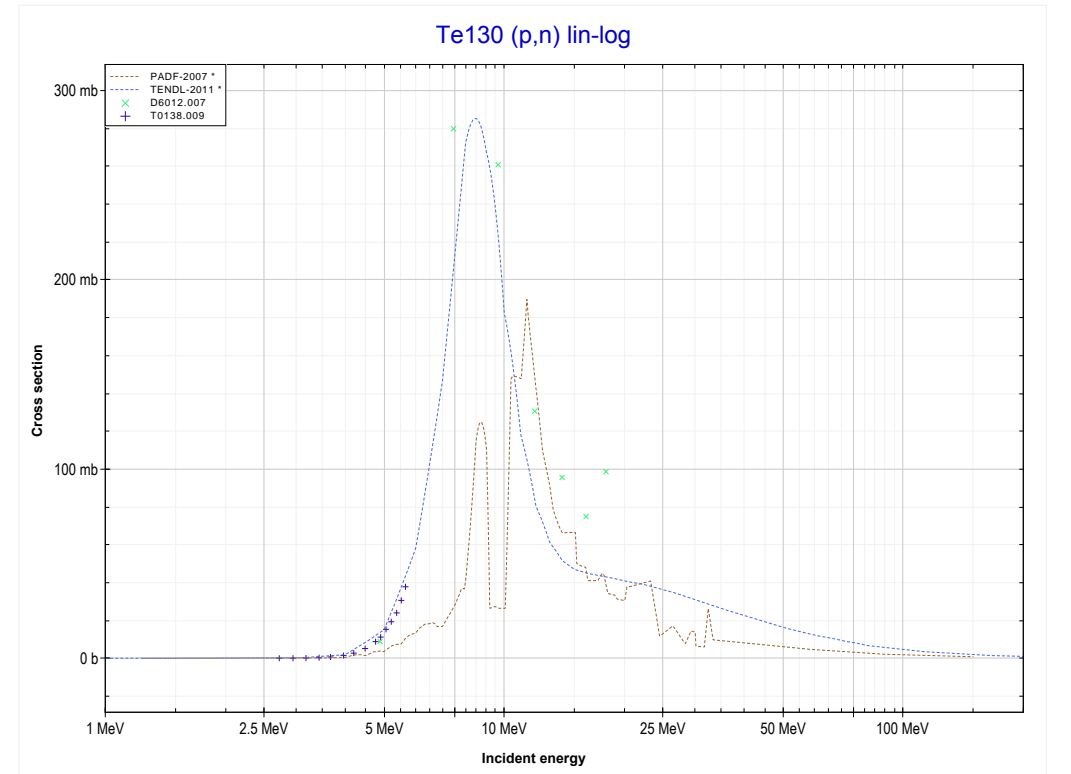
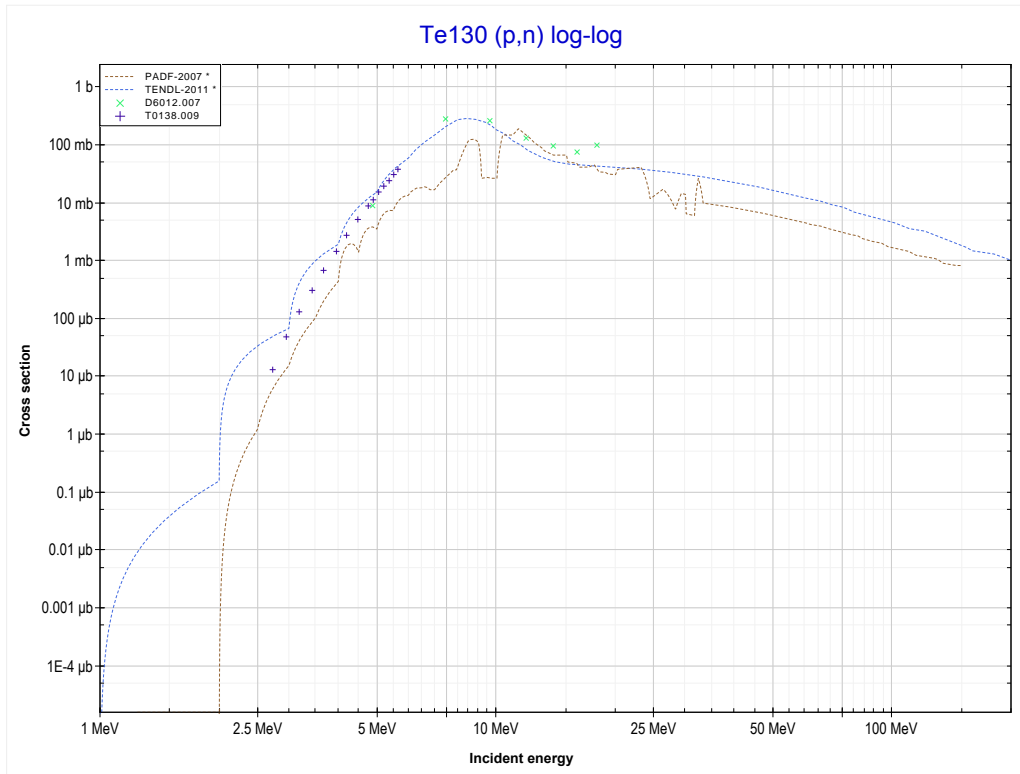
Reaction	Q-Value
Te128(p,d)Te127	-6557.75 keV
Te128(p,n+p)Te127	-8782.32 keV

<< 52-Te-126	<b>52-Te-128</b>	52-Te-130 >>
<< MT28 (p,n+p)	<b>MT111 (p,2p) or MT5 (Sb127 production)</b>	MT4 (p,n) >>



Reaction	Q-Value
Te128(p,2p)Sb127	-9581.07 keV

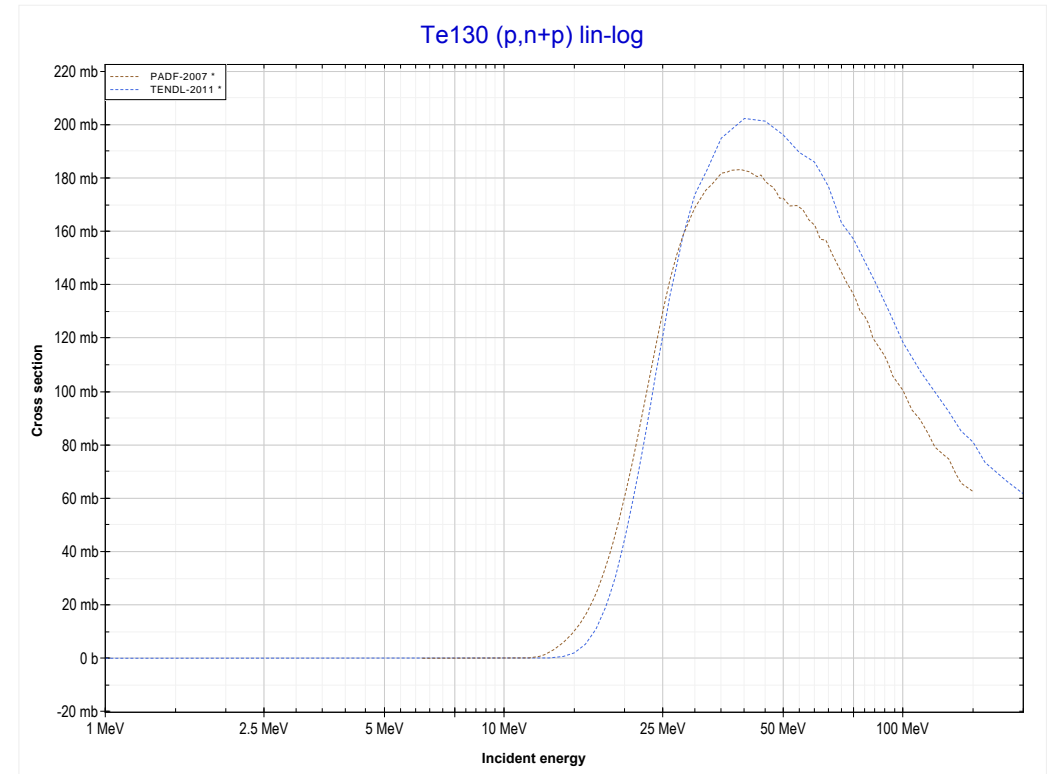
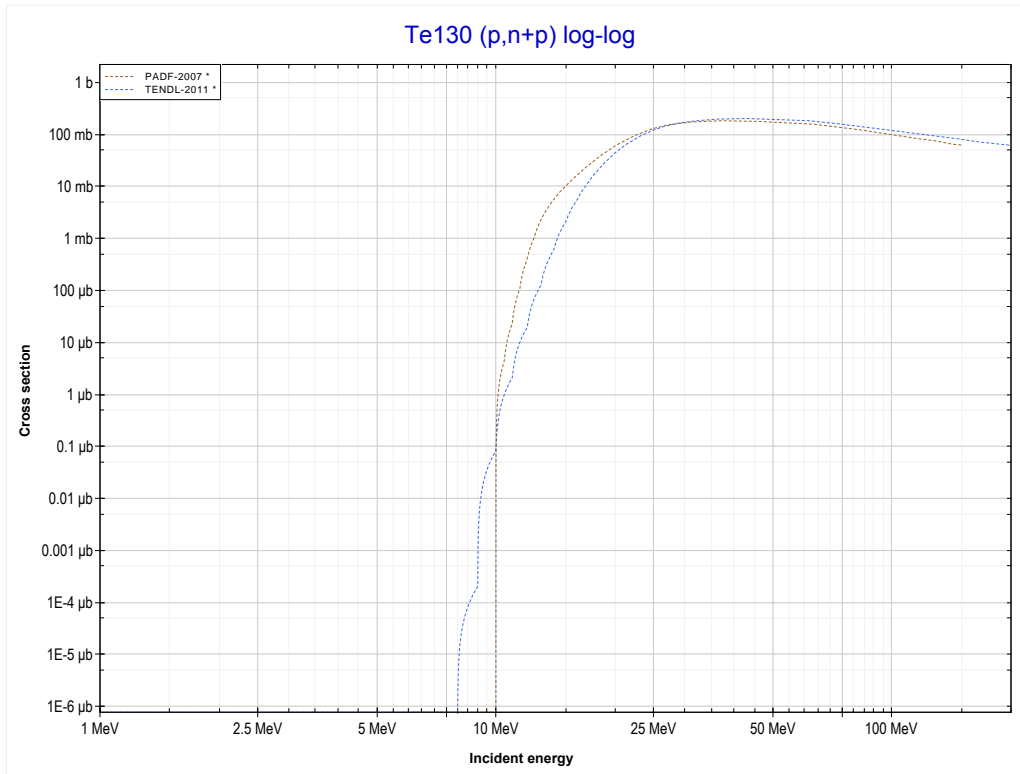
<< 52-Te-128	<b>52-Te-130</b>	53-I-127 >>
<< MT111 (p,2p)	<b>MT4 (p,n) or MT5 (I130 production)</b>	MT28 (p,n+p) >>



Reaction	Q-Value
Te130(p,n)I130	-1201.75 keV

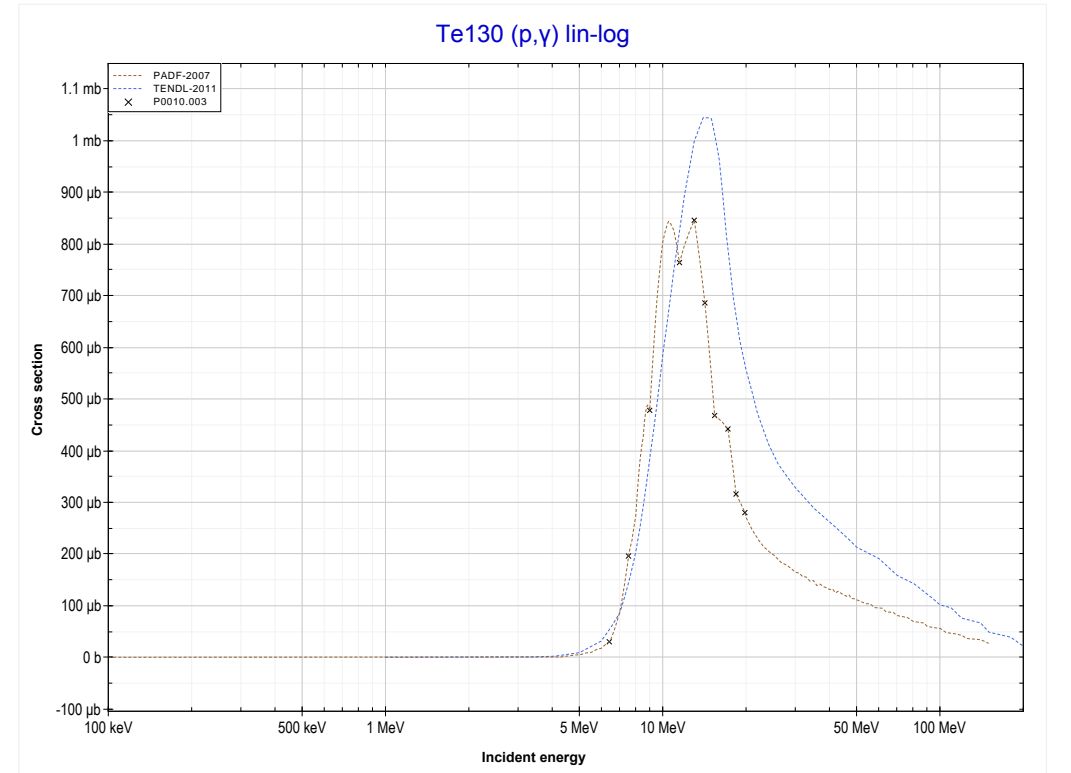
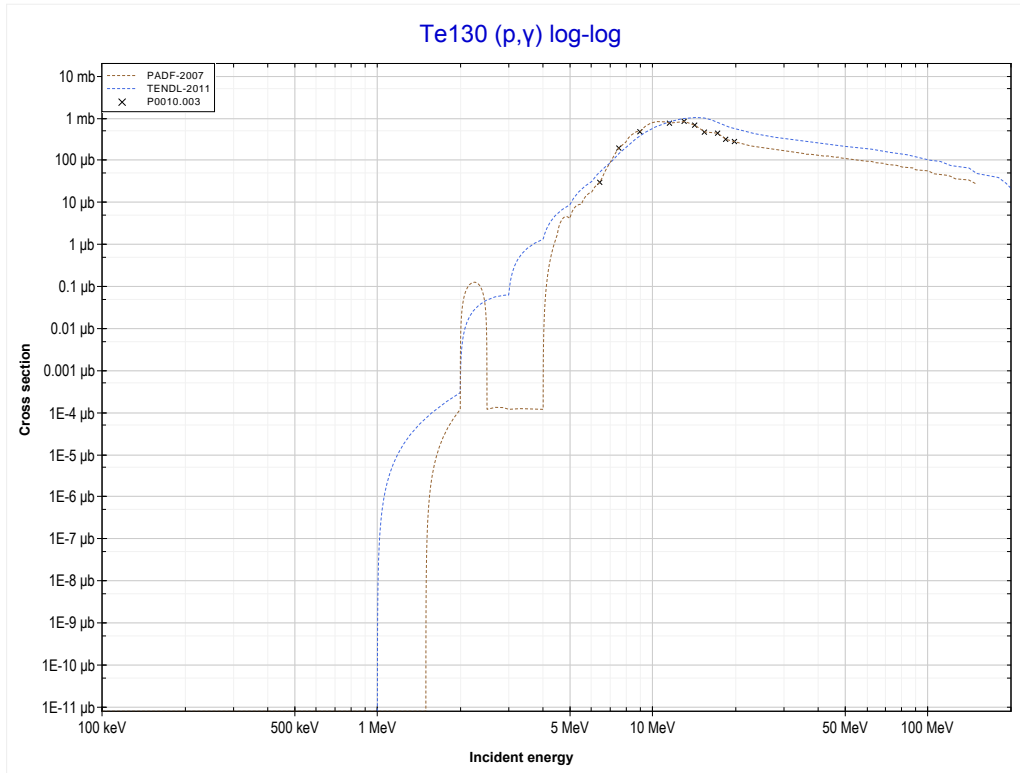


<< 52-Te-128	<b>52-Te-130</b>	53-I-127 >>
<< MT4 (p,n)	<b>MT28 (p,n+p) or MT5 (Te129 production)</b>	MT102 (p, $\gamma$ ) >>



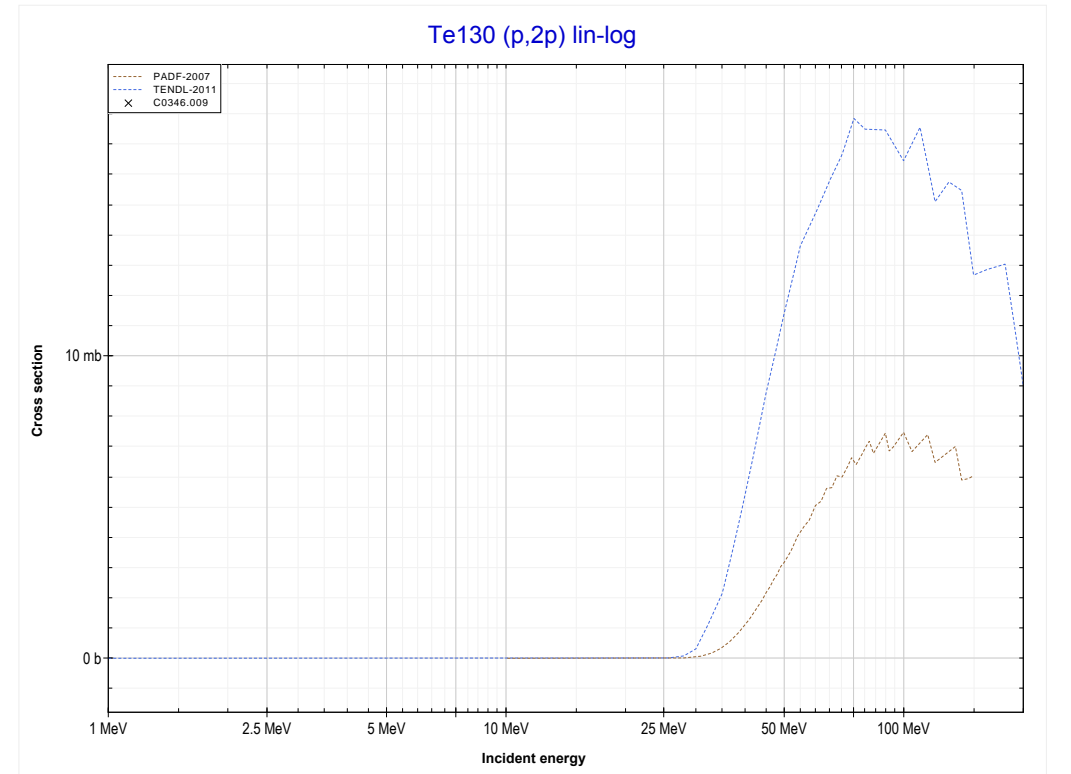
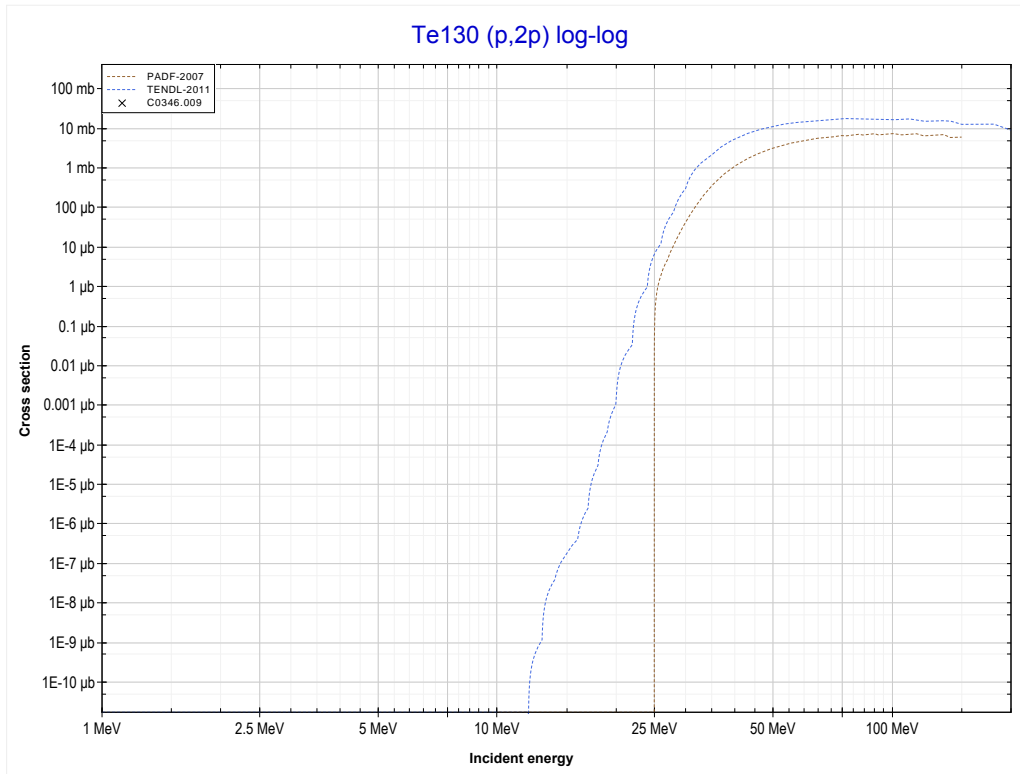
Reaction	Q-Value
Te130(p,d)Te129	-6194.95 keV
Te130(p,n+p)Te129	-8419.52 keV

<< 52-Te-120	<b>52-Te-130</b>	58-Ce-142 >>
<< MT28 (p,n+p)	<b>MT102 (p,<math>\gamma</math>) or MT5 (I131 production)</b>	MT111 (p,2p) >>



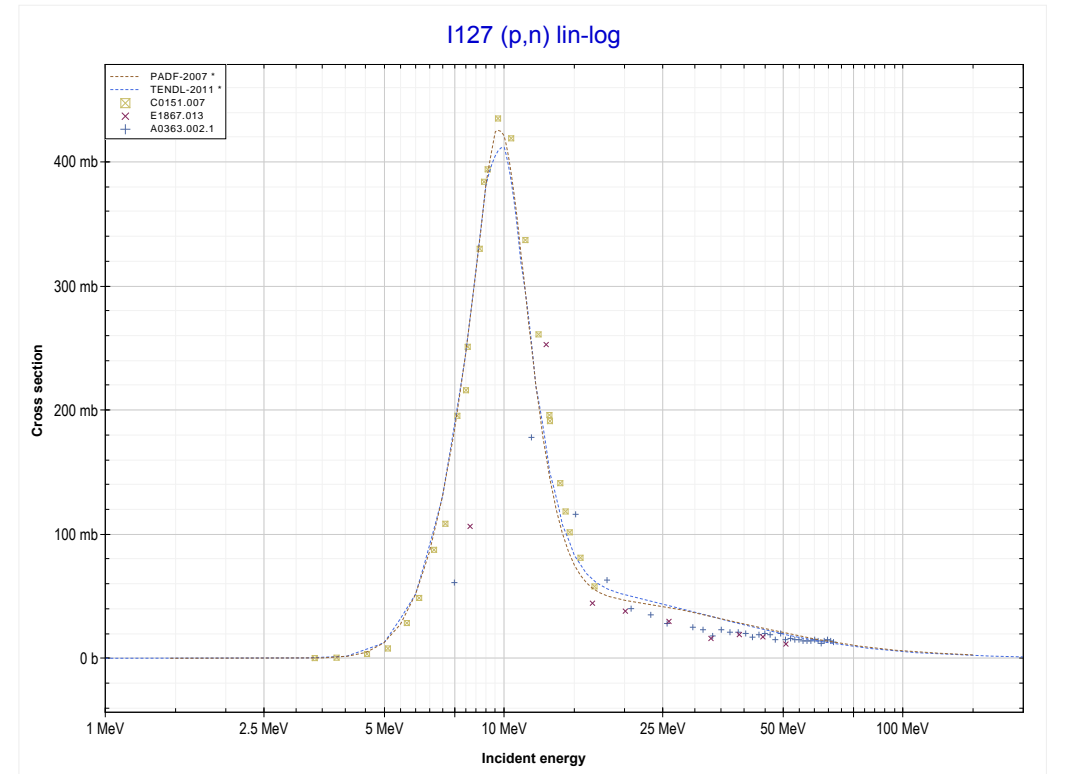
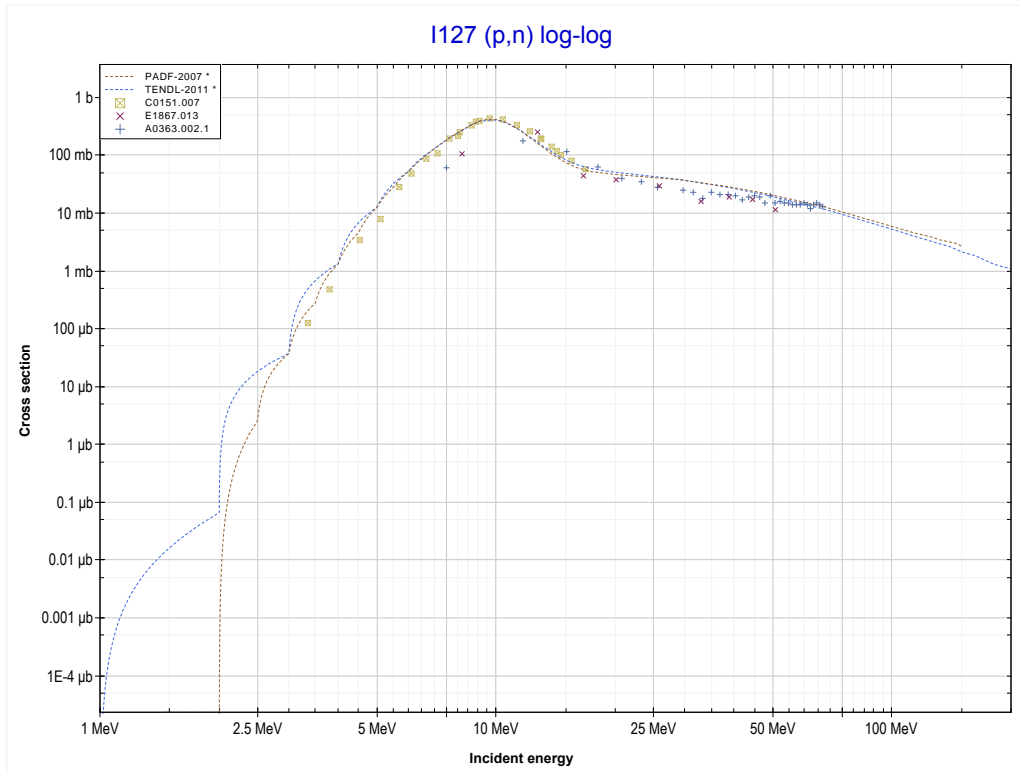
Reaction	Q-Value
Te130(p, $\gamma$ )I131	7381.97 keV

<< 52-Te-128	<b>52-Te-130</b>	58-Ce-142 >>
<< MT102 (p, $\gamma$ )	<b>MT111 (p,2p) or MT5 (Sb129 production)</b>	MT4 (p,n) >>



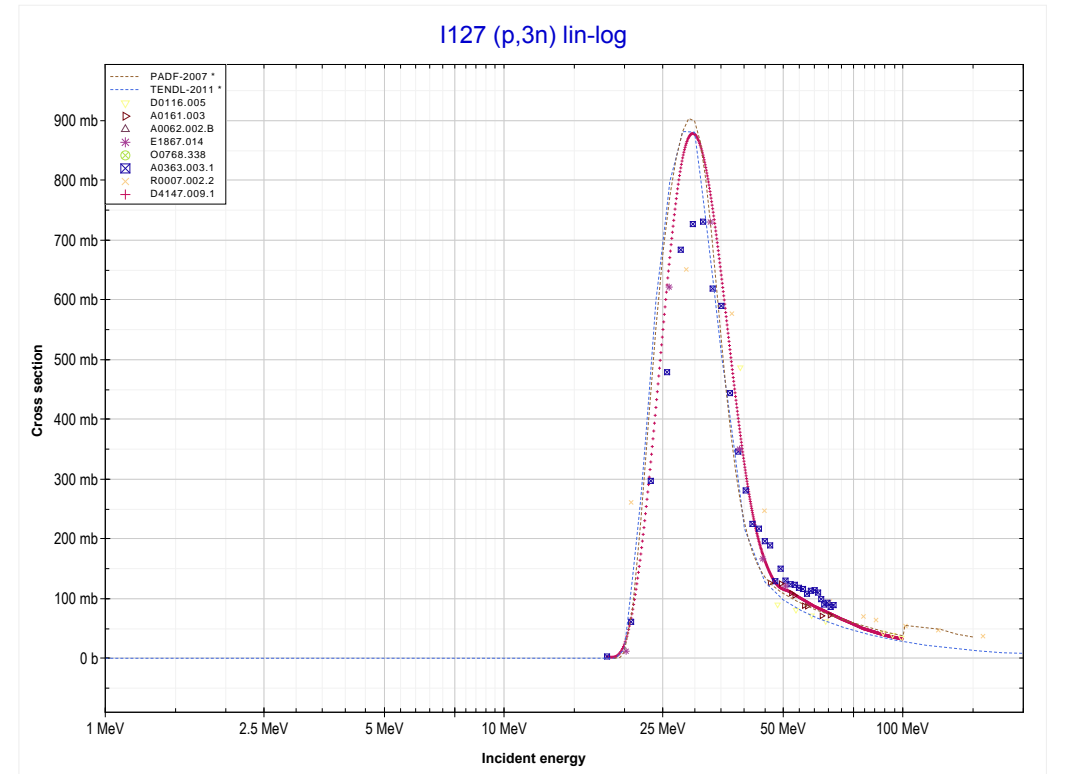
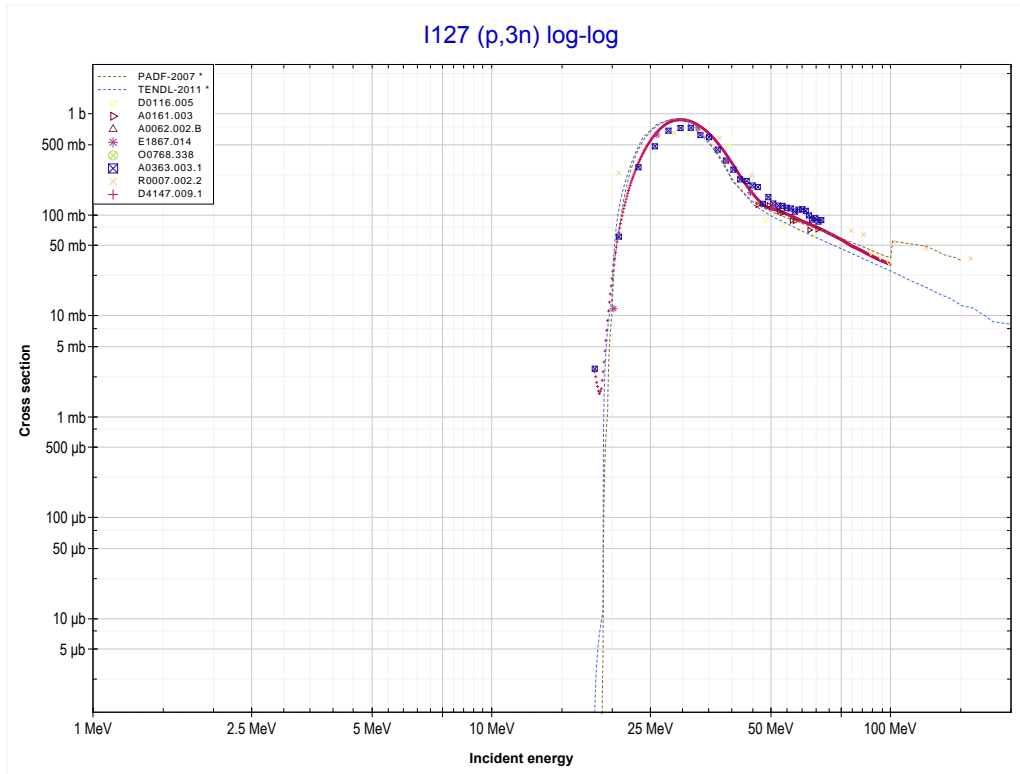
Reaction	Q-Value
Te130(p,2p)Sb129	-10012.37 keV

<< 52-Te-130	<b>53-I-127</b>	54-Xe-131 >>
<< MT111 (p,2p)	<b>MT4 (p,n) or MT5 (Xe127 production)</b>	MT17 (p,3n) >>



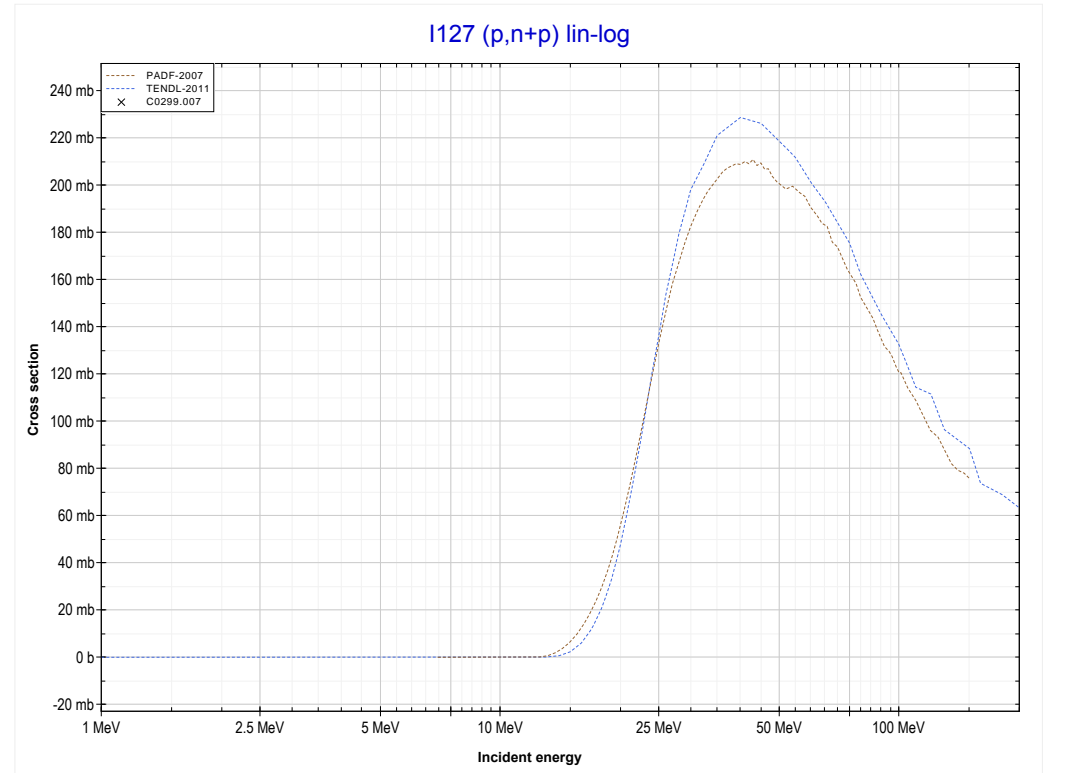
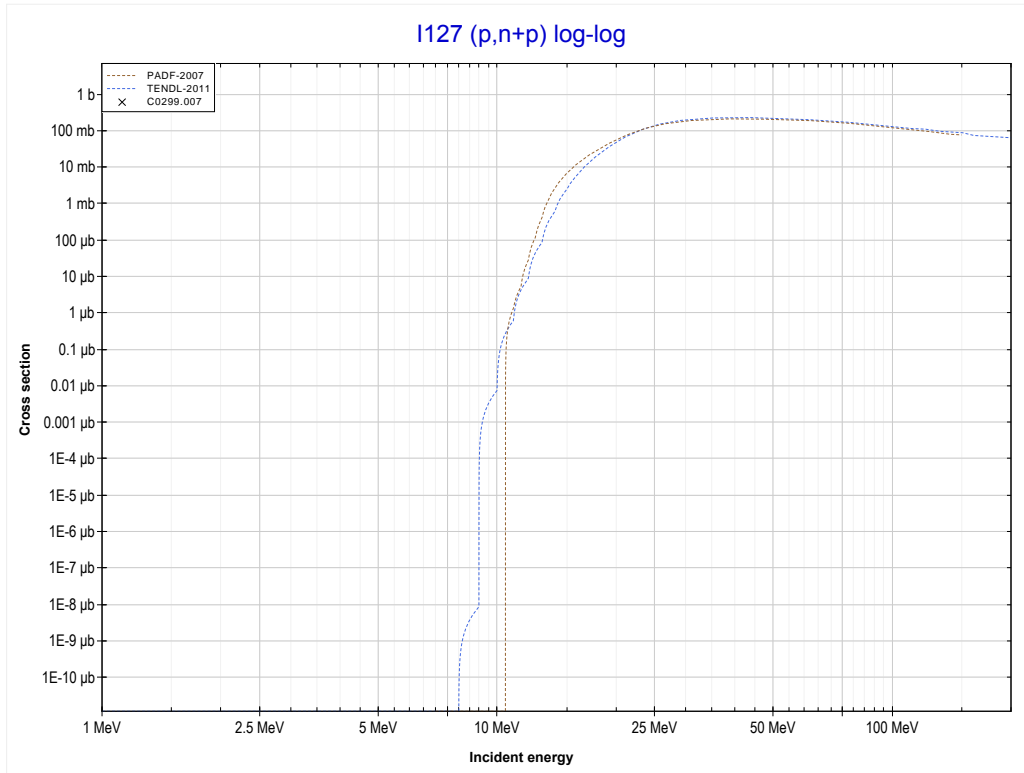
Reaction	Q-Value
1127(p,n)Xe127	-1444.35 keV

<< 52-Te-126	<b>53-I-127</b>	54-Xe-131 >>
<< MT4 (p,n)	<b>MT17 (p,3n) or MT5 (Xe125 production)</b>	MT28 (p,n+p) >>



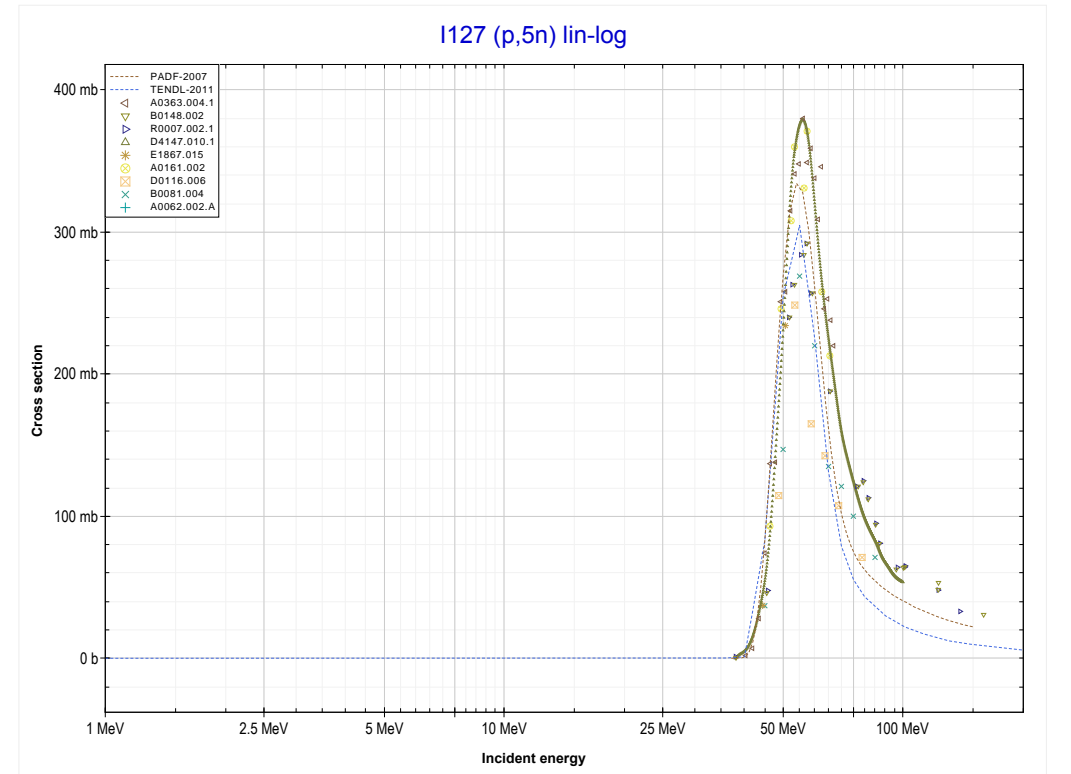
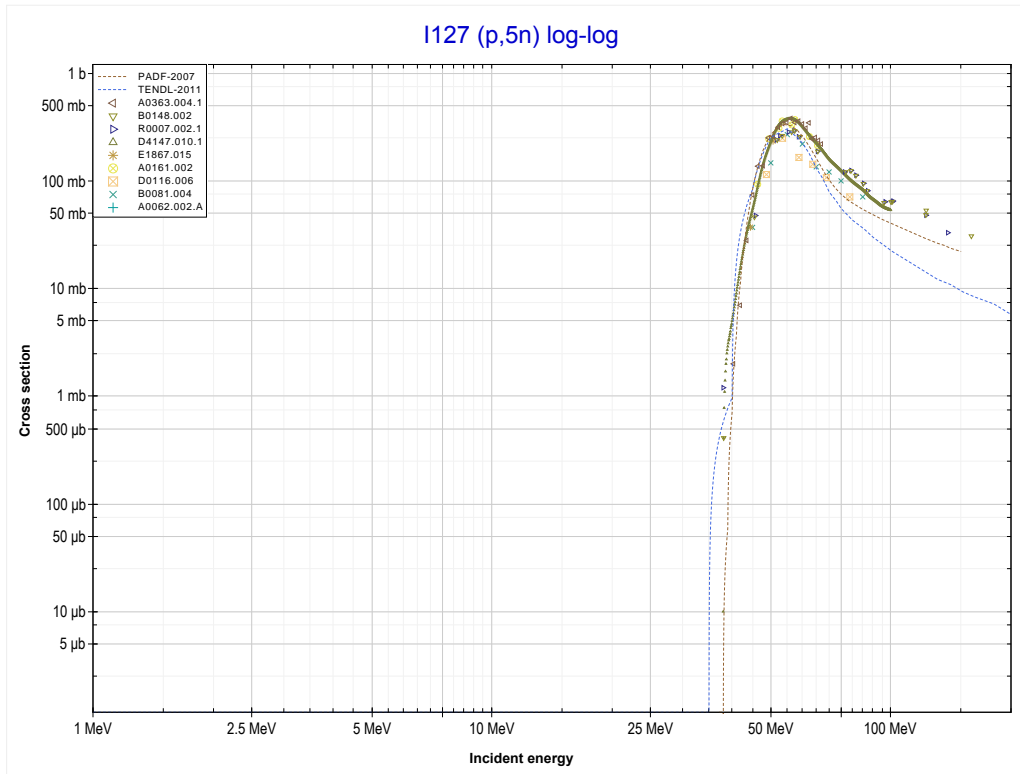
Reaction	Q-Value
I127(p,3n)Xe125	-18715.88 keV

<< 52-Te-130	<b>53-I-127</b>	54-Xe-124 >>
<< MT17 (p,3n)	<b>MT28 (p,n+p) or MT5 (I126 production)</b>	MT152 (p,5n) >>



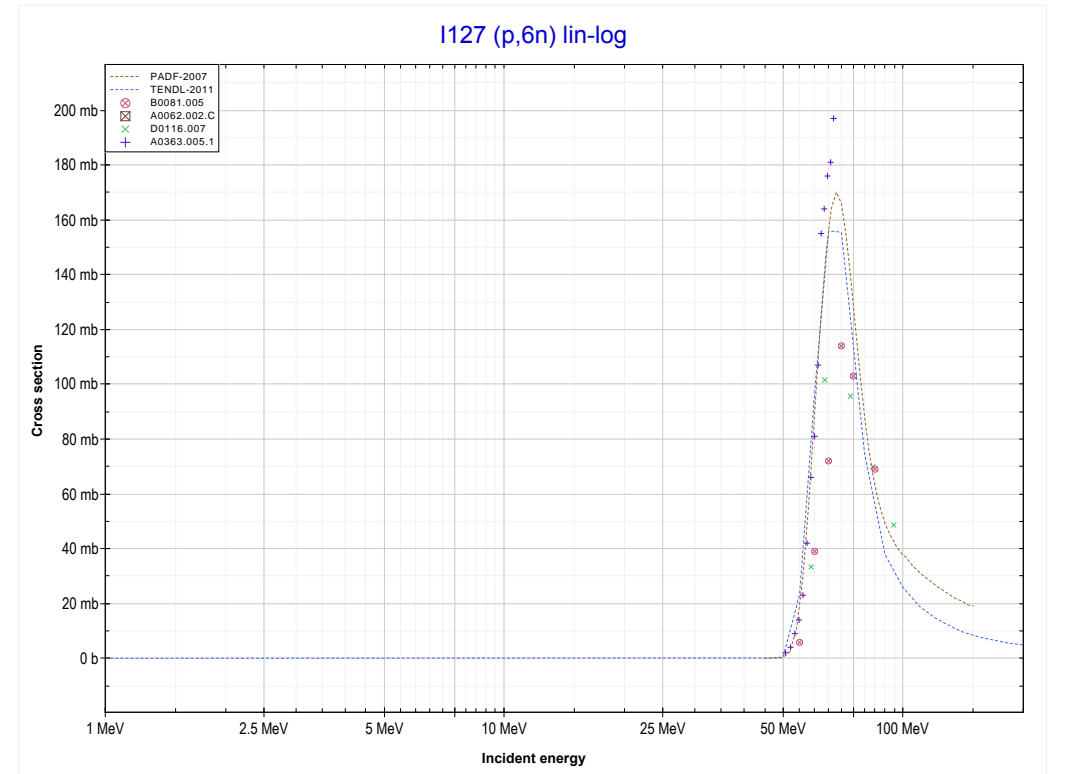
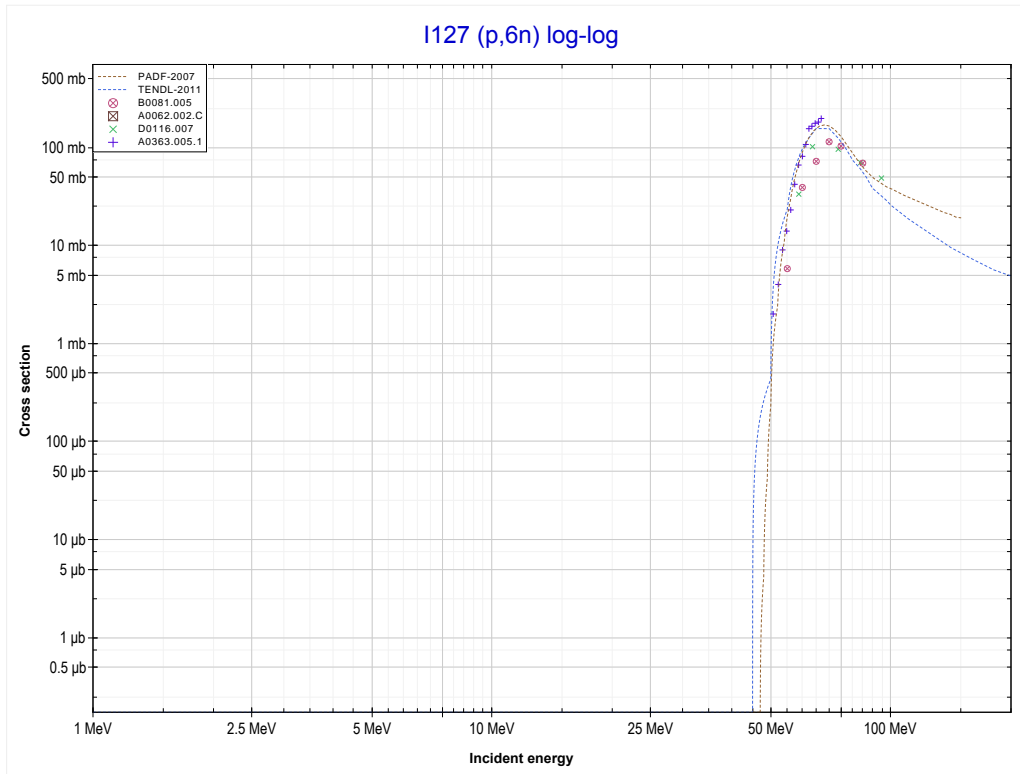
Reaction	Q-Value
I127(p,d)I126	-6918.75 keV
I127(p,n+p)I126	-9143.32 keV

<< 52-Te-125	<b>53-I-127</b>	55-Cs-133 >>
<< MT28 (p,n+p)	<b>MT152 (p,5n) or MT5 (Xe123 production)</b>	MT153 (p,6n) >>



Reaction	Q-Value
I127(p,5n)Xe123	-36801.61 keV

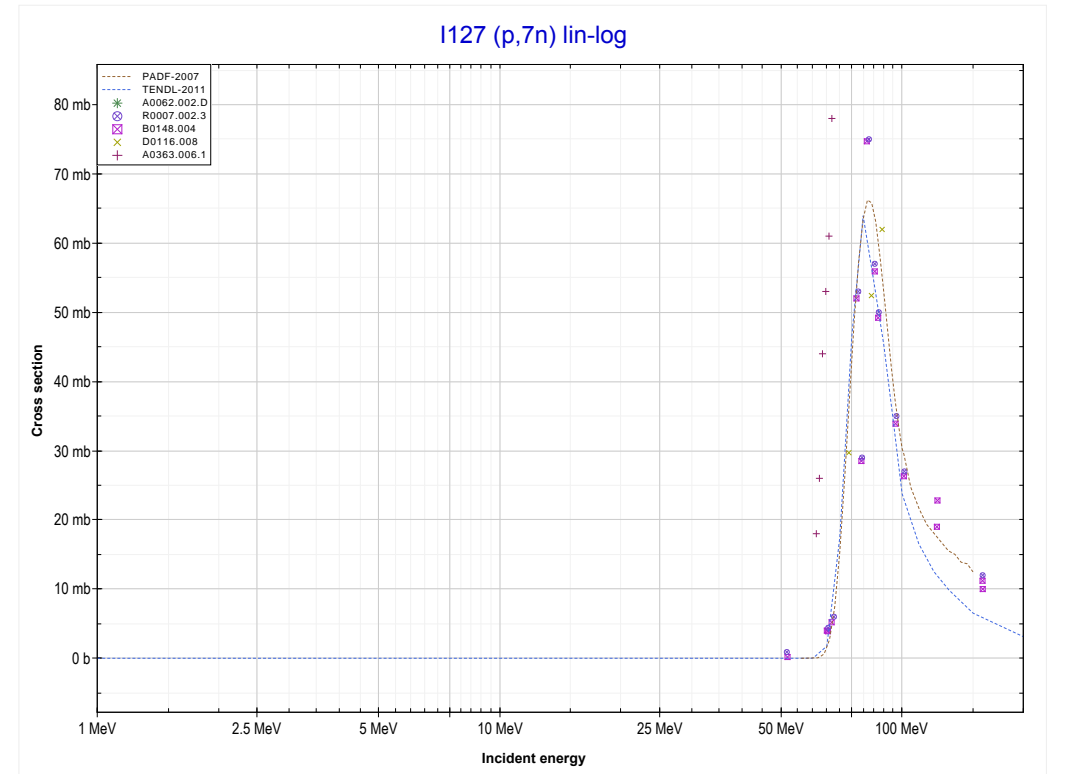
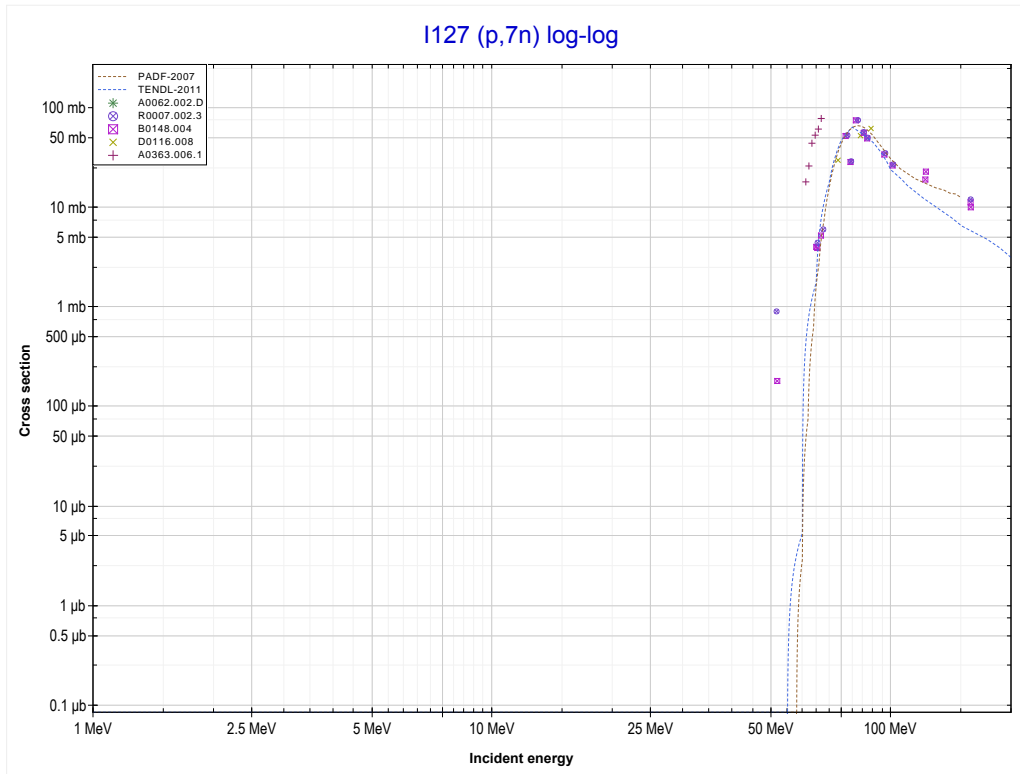
<< 52-Te-125	<b>53-I-127</b>	55-Cs-133 >>
<< MT152 (p,5n)	<b>MT153 (p,6n) or MT5 (Xe122 production)</b>	MT160 (p,7n) >>



Reaction	Q-Value
I127(p,6n)Xe122	-44766.93 keV

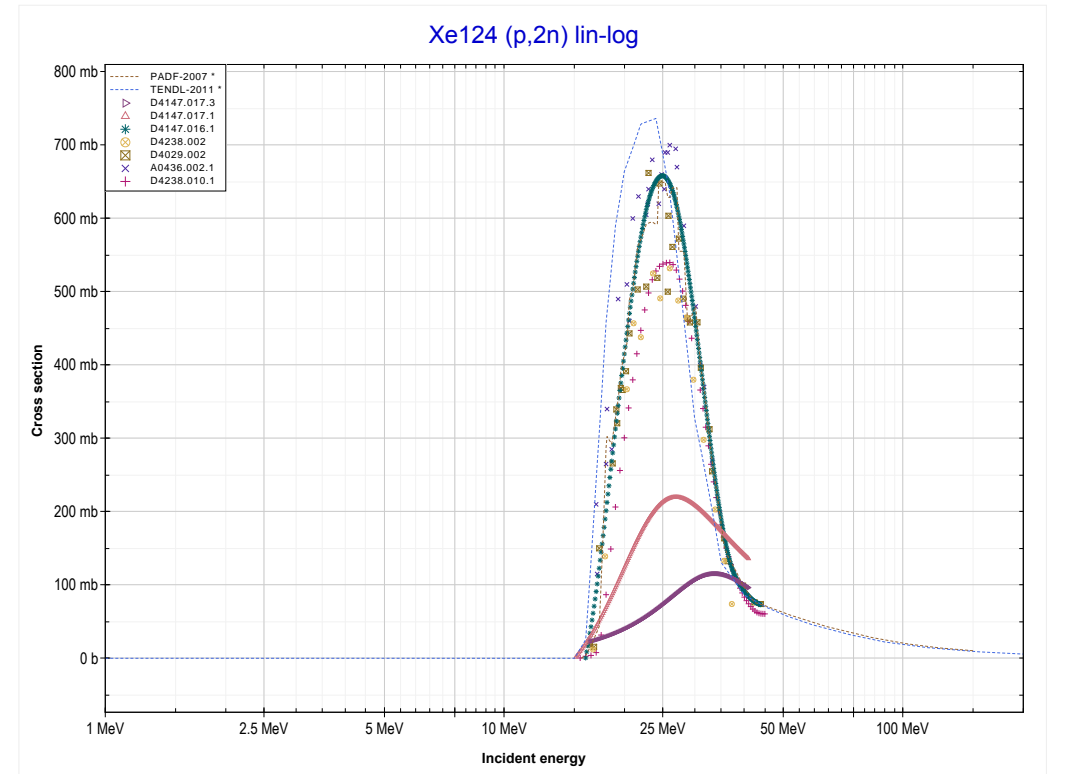
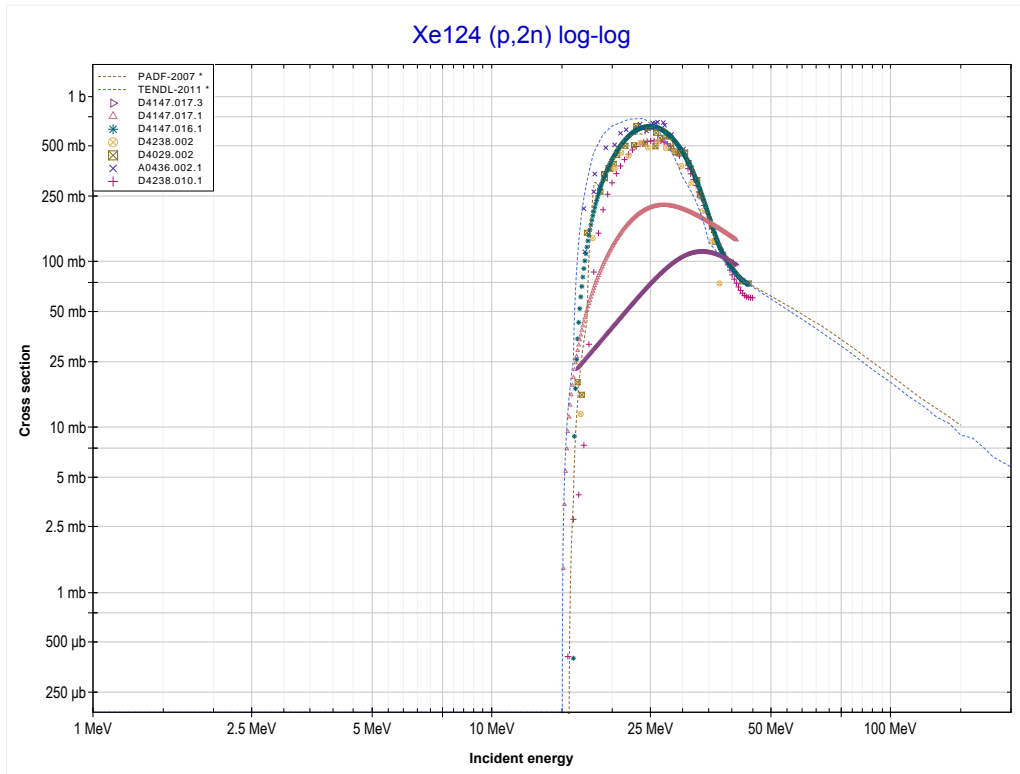


<< 52-Te-125	<b>53-I-127</b>	59-Pr-141 >>
<< MT153 (p,6n)	<b>MT160 (p,7n) or MT5 (Xe121 production)</b>	MT16 (p,2n) >>



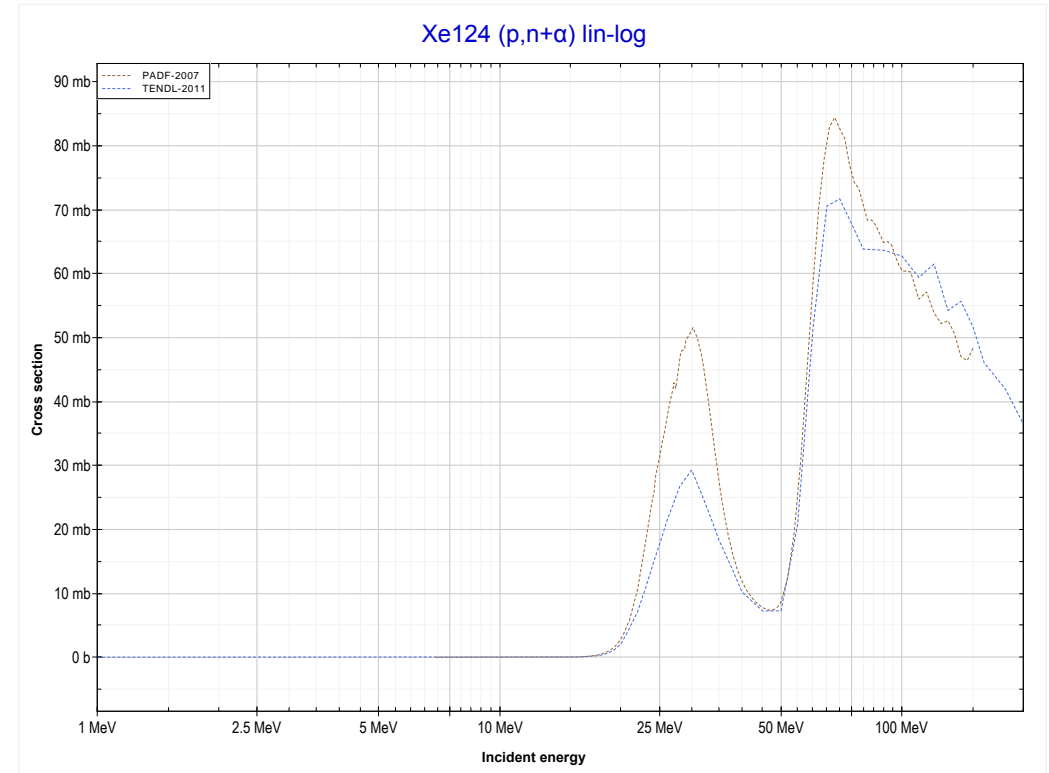
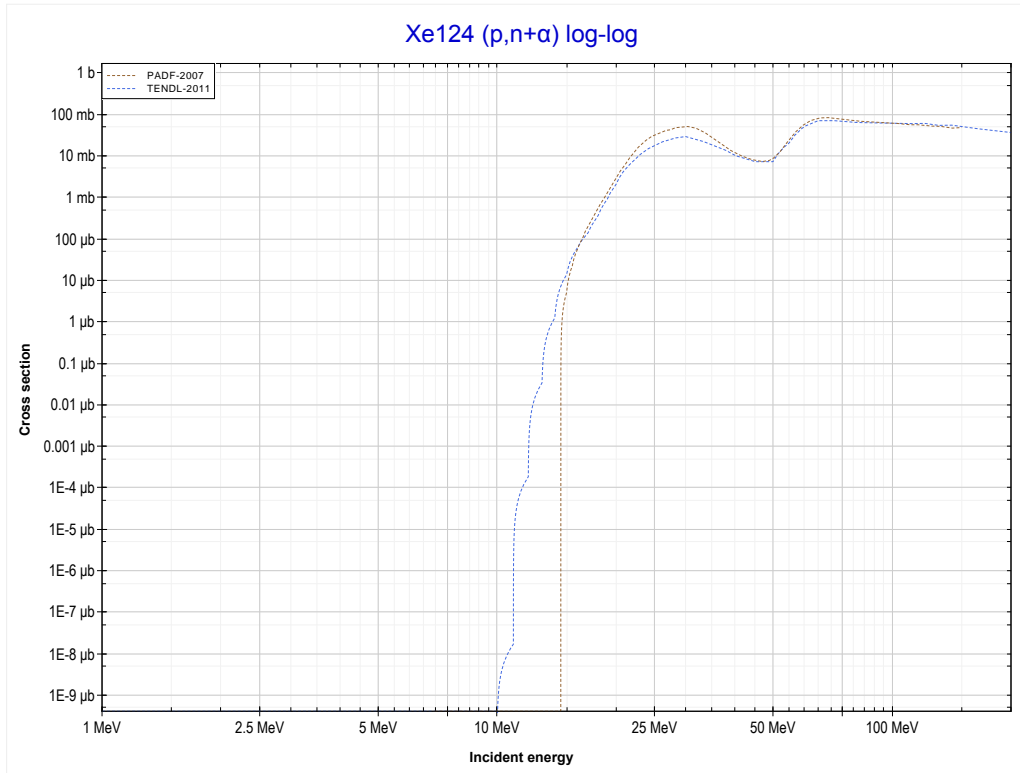
Reaction	Q-Value
I127(p,7n)Xe121	-55720.25 keV

<< 52-Te-126	<b>54-Xe-124</b>	54-Xe-126 >>
<< MT160 (p,7n)	<b>MT16 (p,2n) or MT5 (Cs123 production)</b>	MT22 (p,n+α) >>



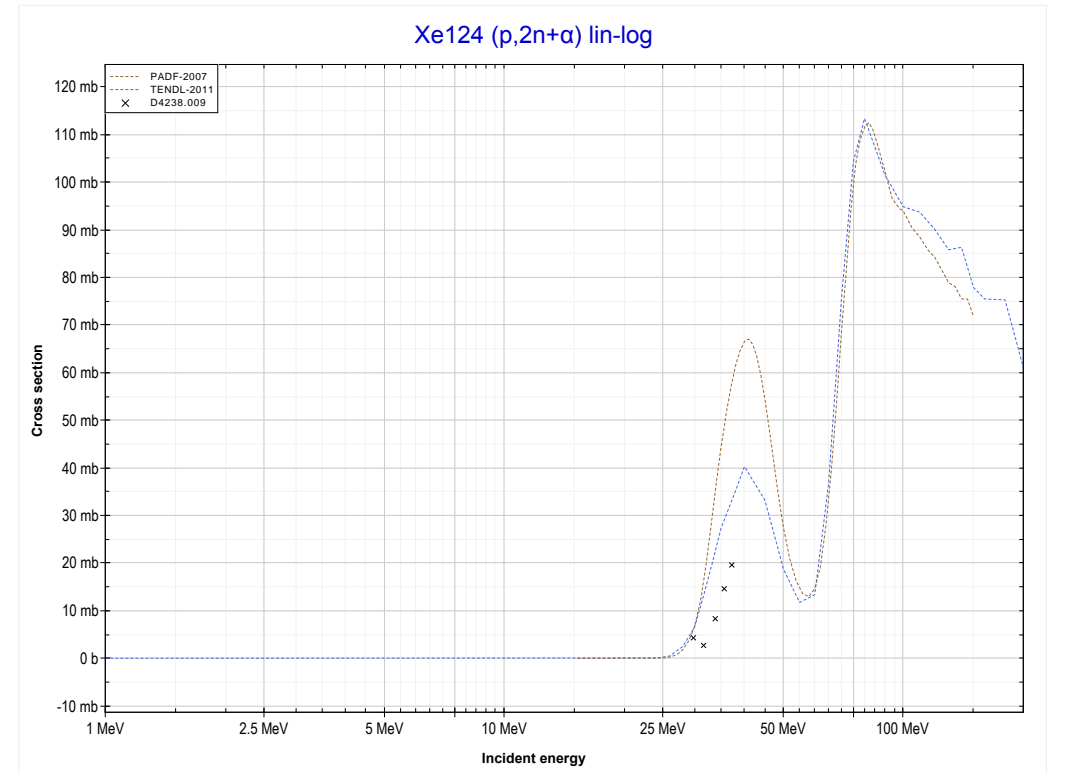
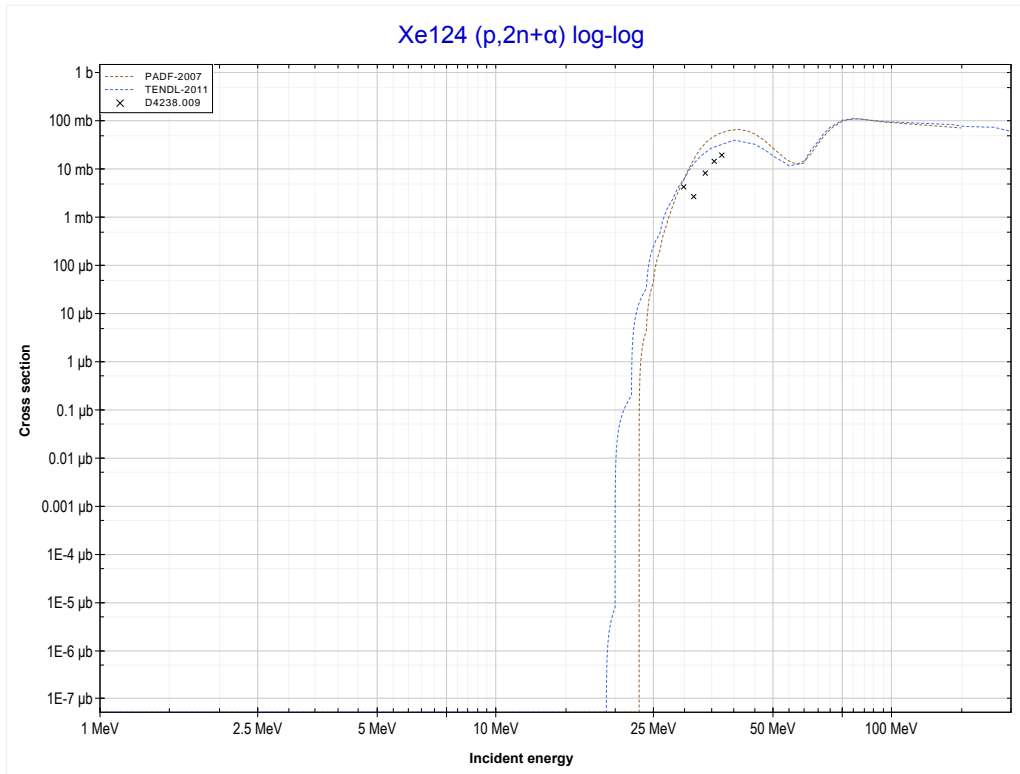
Reaction	Q-Value
Xe124(p,2n)Cs123	-15469.76 keV

<< 48-Cd-114	<b>54-Xe-124</b>	
<< MT16 (p,2n)	<b>MT22 (p,n+α) or MT5 (I120 production)</b>	MT24 (p,2n+α) >>



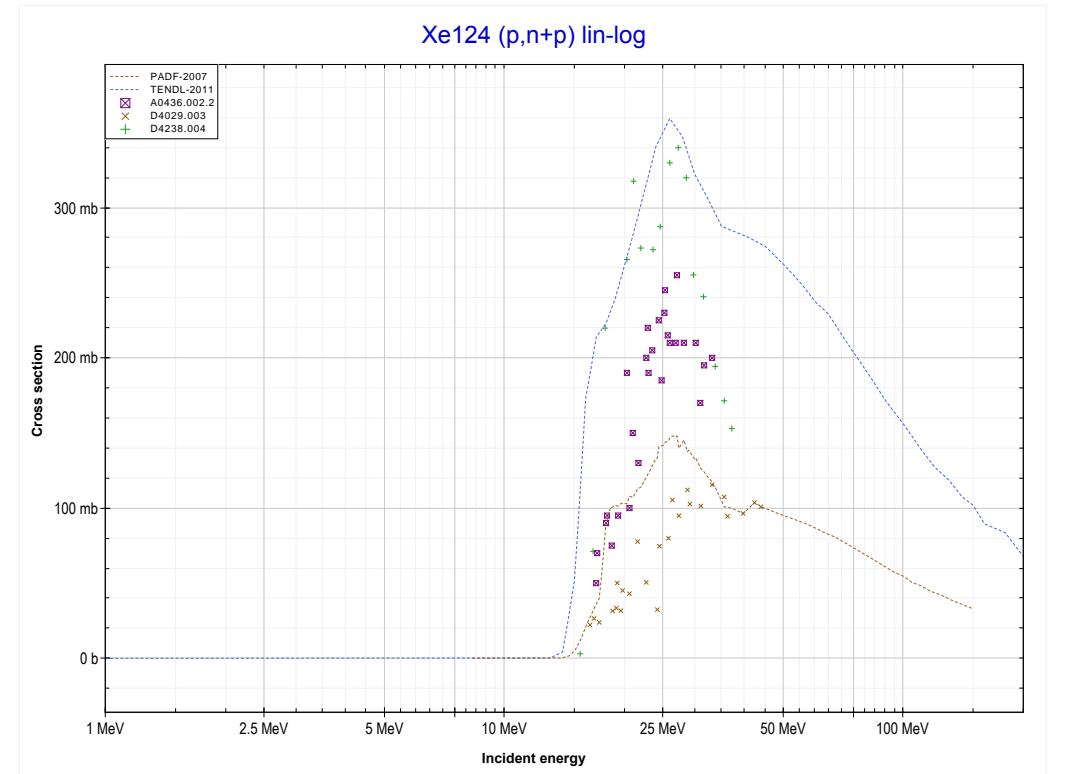
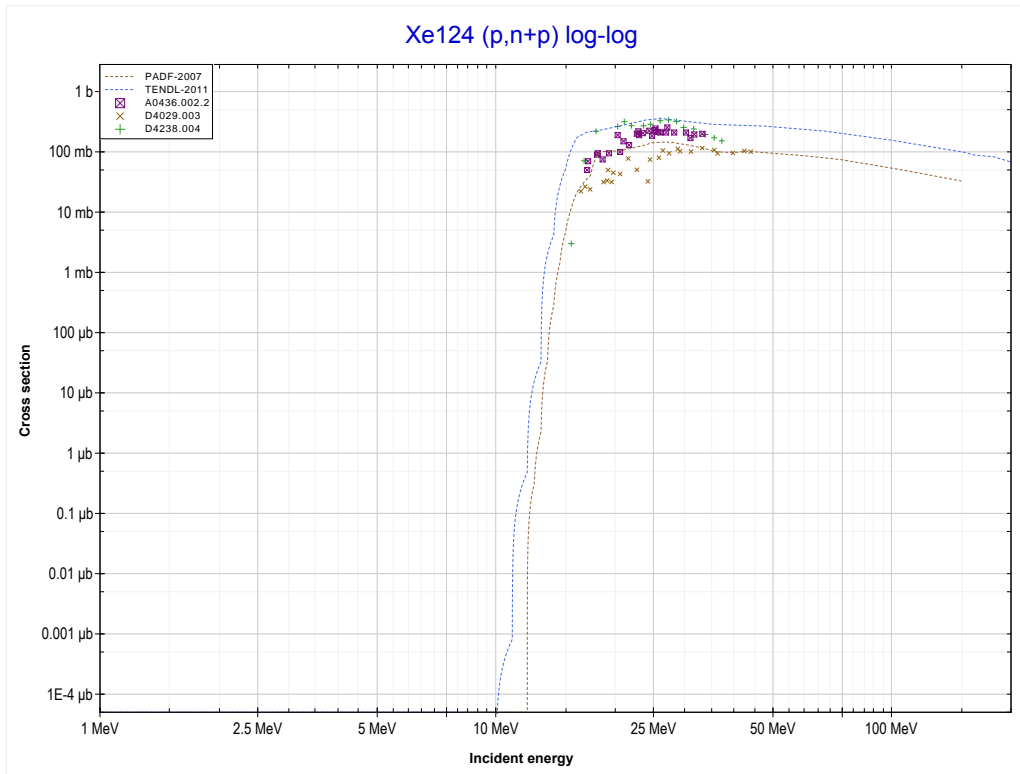
Reaction	Q-Value
Xe124(p,n+α)I120	-7077.36 keV
Xe124(p,d+t)I120	-24666.66 keV
Xe124(p,n+p+t)I120	-26891.22 keV
Xe124(p,2n+He3)I120	-27654.98 keV
Xe124(p,n+2d)I120	-30923.89 keV
Xe124(p,2n+p+d)I120	-33148.46 keV
Xe124(p,3n+2p)I120	-35373.02 keV

<< 42-Mo-100	<b>54-Xe-124</b>	92-U-238 >>
<< MT22 (p,n+α)	<b>MT24 (p,2n+α) or MT5 (I119 production)</b>	MT28 (p,n+p) >>



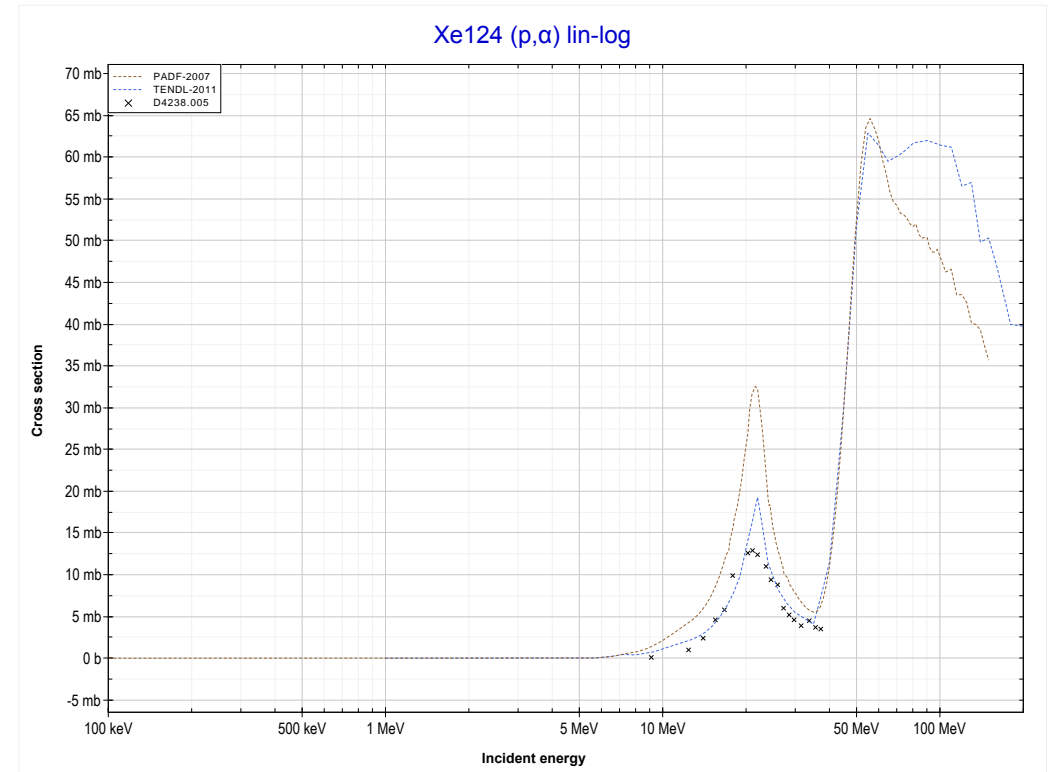
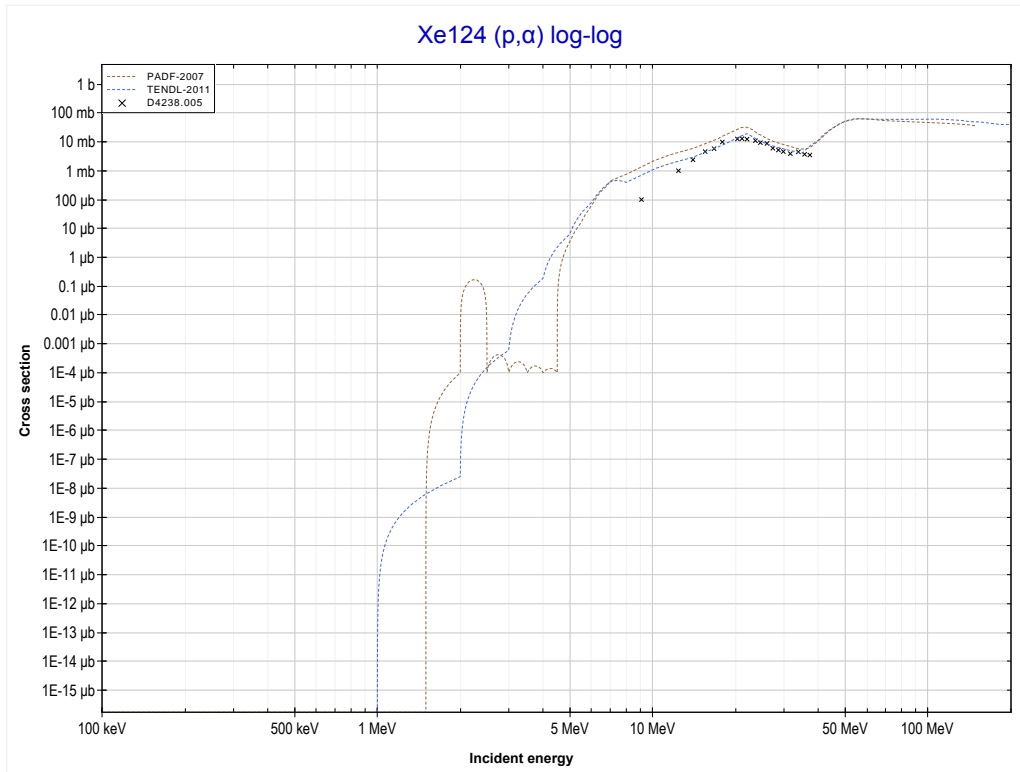
Reaction	Q-Value
Xe124(p,2n+α)I119	-15172.68 keV
Xe124(p,2t)I119	-26504.74 keV
Xe124(p,n+d+t)I119	-32761.97 keV
Xe124(p,2n+p+t)I119	-34986.54 keV
Xe124(p,3n+He3)I119	-35750.30 keV
Xe124(p,2n+2d)I119	-39019.21 keV
Xe124(p,3n+p+d)I119	-41243.77 keV
Xe124(p,4n+2p)I119	-43468.34 keV

<< 53-I-127	<b>54-Xe-124</b>	54-Xe-126 >>
<< MT24 (p,2n+α)	<b>MT28 (p,n+p) or MT5 (Xe123 production)</b>	MT107 (p,α) >>



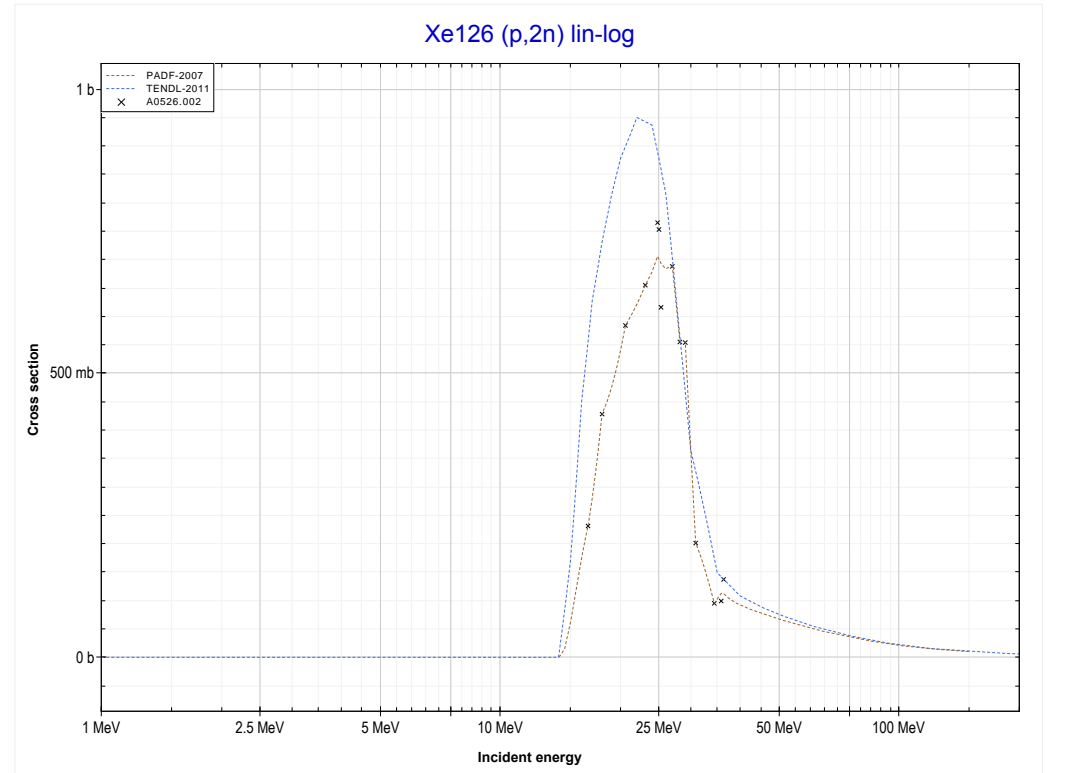
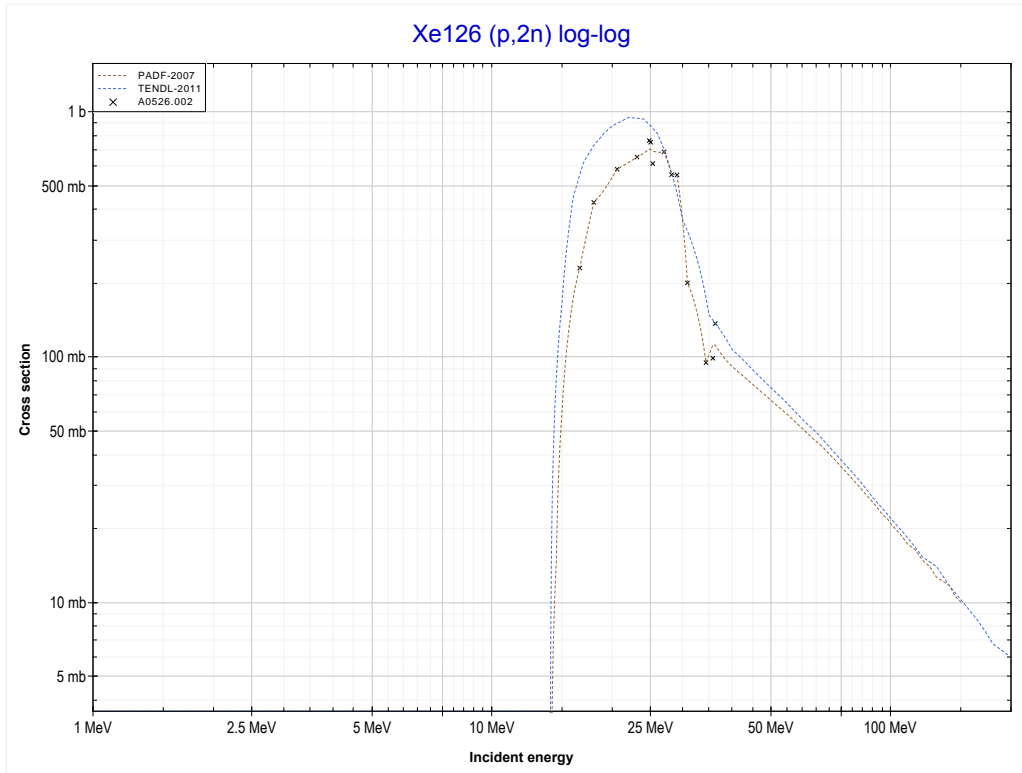
Reaction	Q-Value
Xe124(p,d)Xe123	-8257.85 keV
Xe124(p,n+p)Xe123	-10482.42 keV

<< 50-Sn-120	<b>54-Xe-124</b>	57-La-139 >>
<< MT28 (p,n+p)	<b>MT107 (p,<math>\alpha</math>) or MT5 (I121 production)</b>	MT16 (p,2n) >>



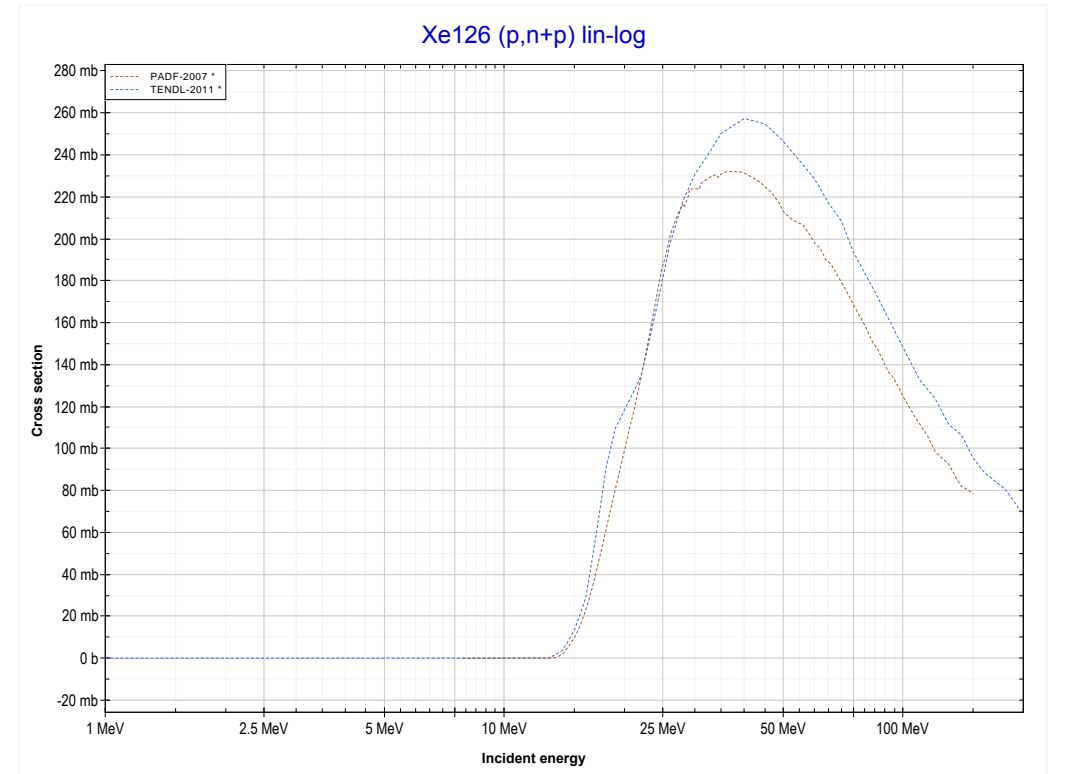
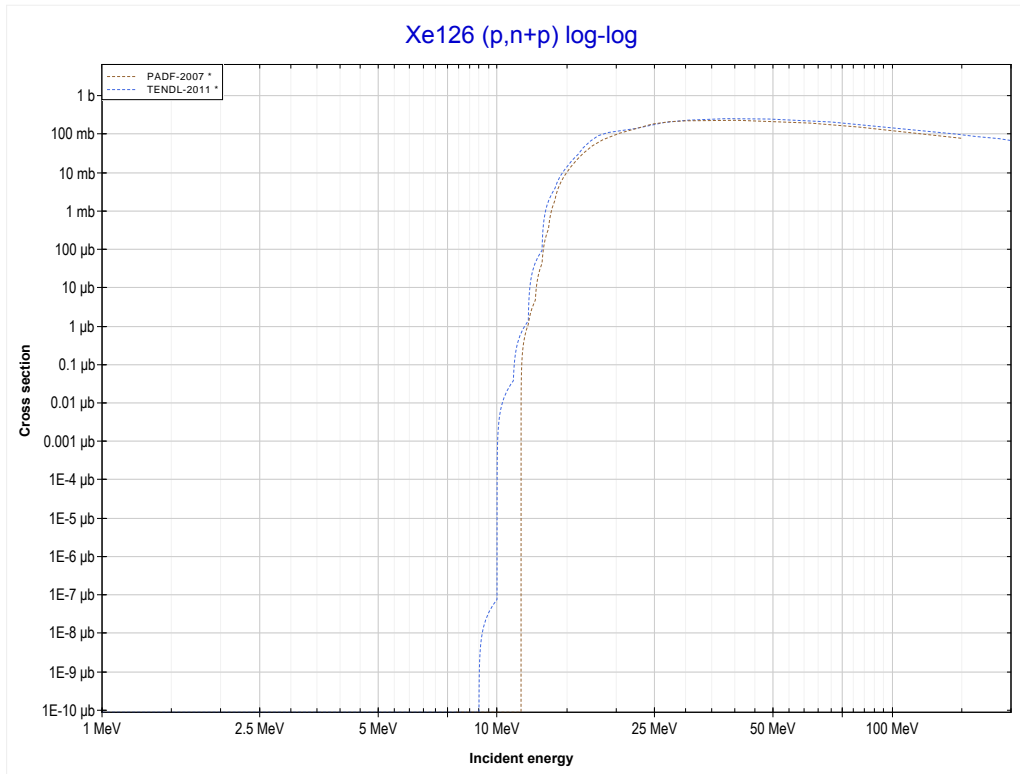
Reaction	Q-Value
Xe124(p, $\alpha$ )I121	3490.95 keV
Xe124(p,p+t)I121	-16322.91 keV
Xe124(p,n+He3)I121	-17086.66 keV
Xe124(p,2d)I121	-20355.57 keV
Xe124(p,n+p+d)I121	-22580.14 keV
Xe124(p,2n+2p)I121	-24804.70 keV

<< 54-Xe-124	<b>54-Xe-126</b>	58-Ce-140 >>
<< MT107 (p, $\alpha$ )	<b>MT16 (p,2n) or MT5 (Cs125 production)</b>	MT28 (p,n+p) >>



Reaction	Q-Value
Xe126(p,2n)Cs125	-13934.66 keV

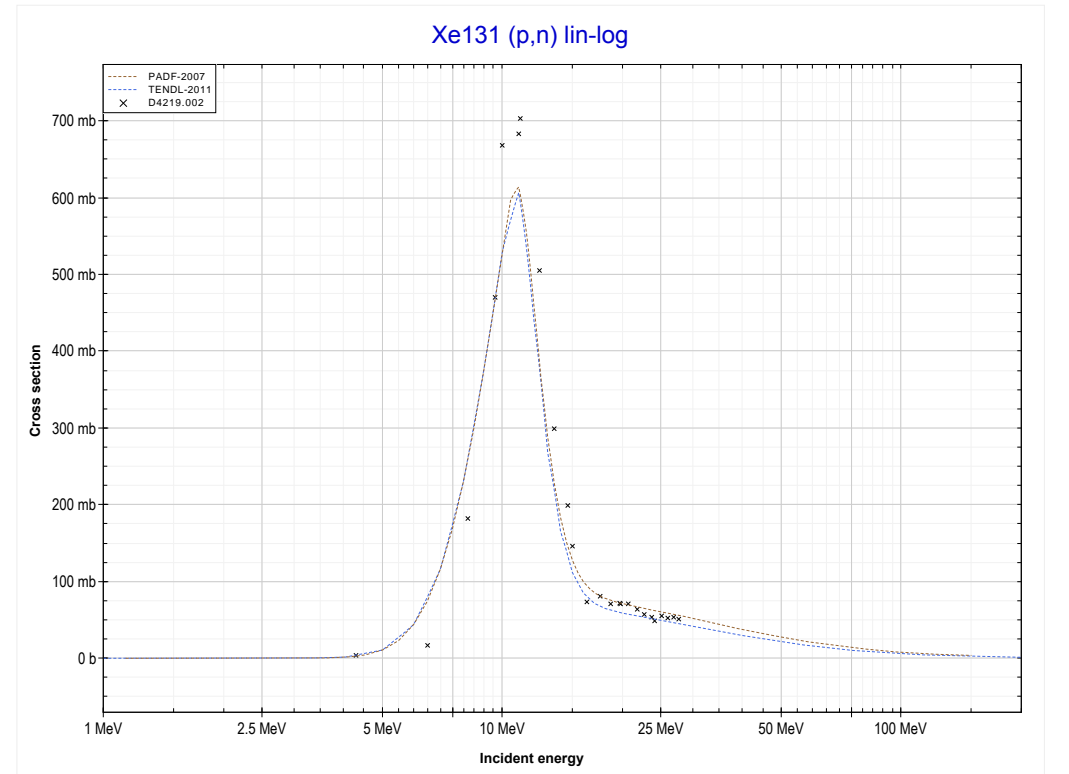
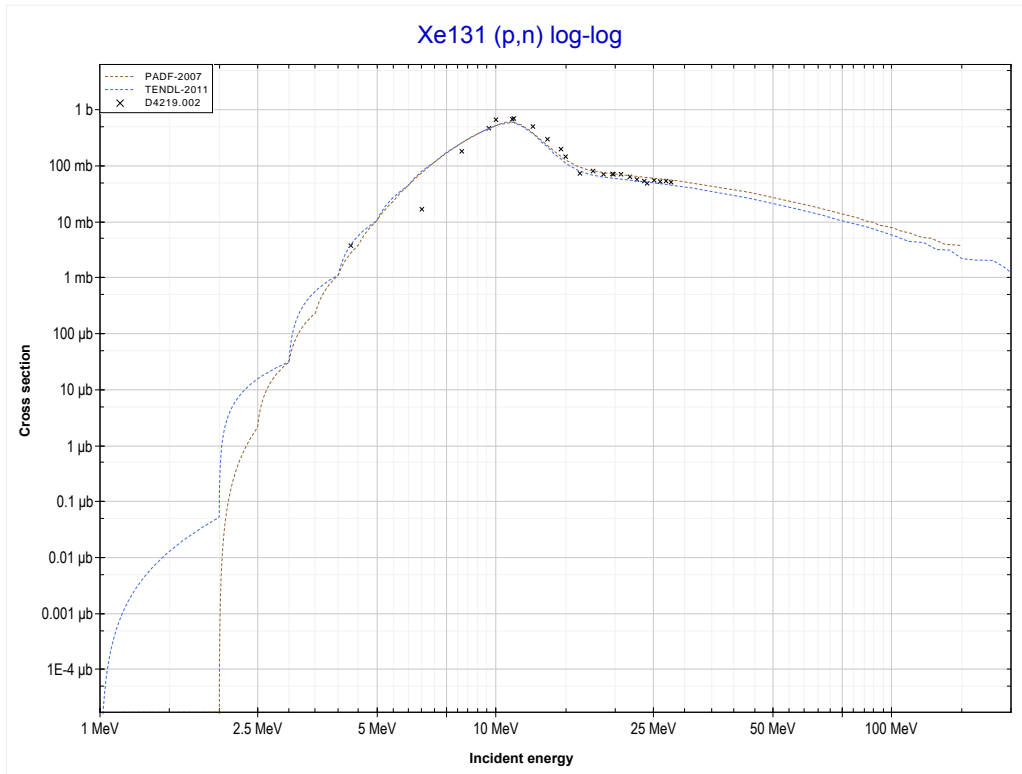
<< 54-Xe-124	<b>54-Xe-126</b>	55-Cs-133 >>
<< MT16 (p,2n)	<b>MT28 (p,n+p) or MT5 (Xe125 production)</b>	MT4 (p,n) >>



Reaction	Q-Value
Xe126(p,d)Xe125	-7823.65 keV
Xe126(p,n+p)Xe125	-10048.22 keV

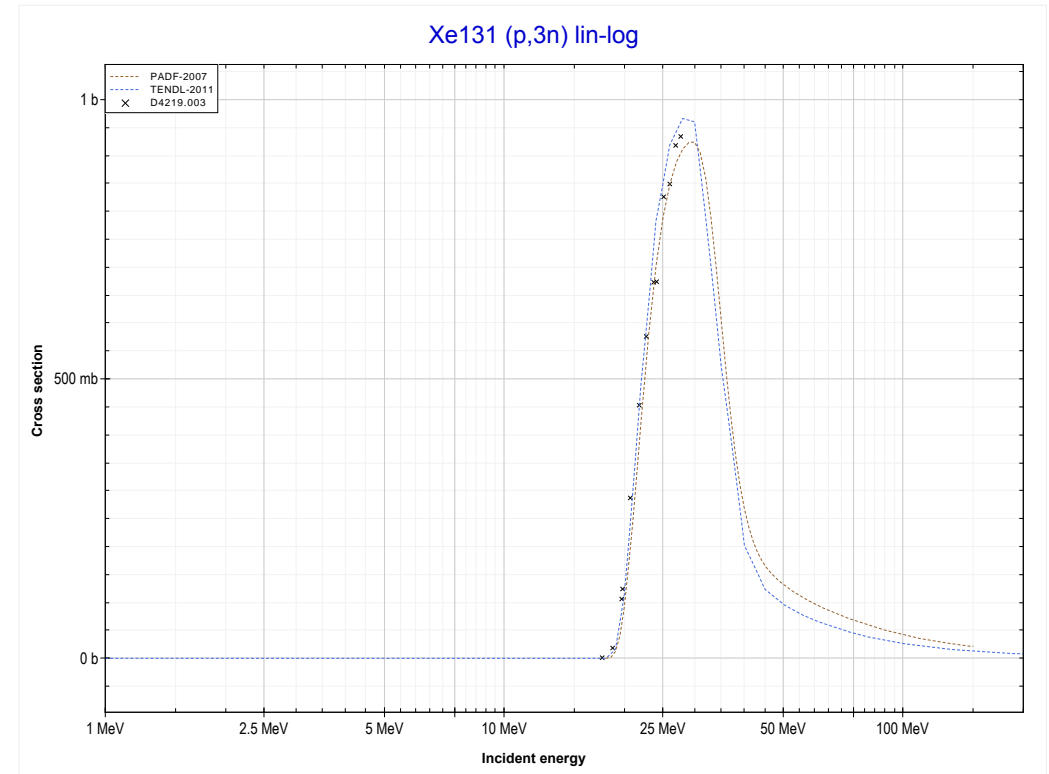
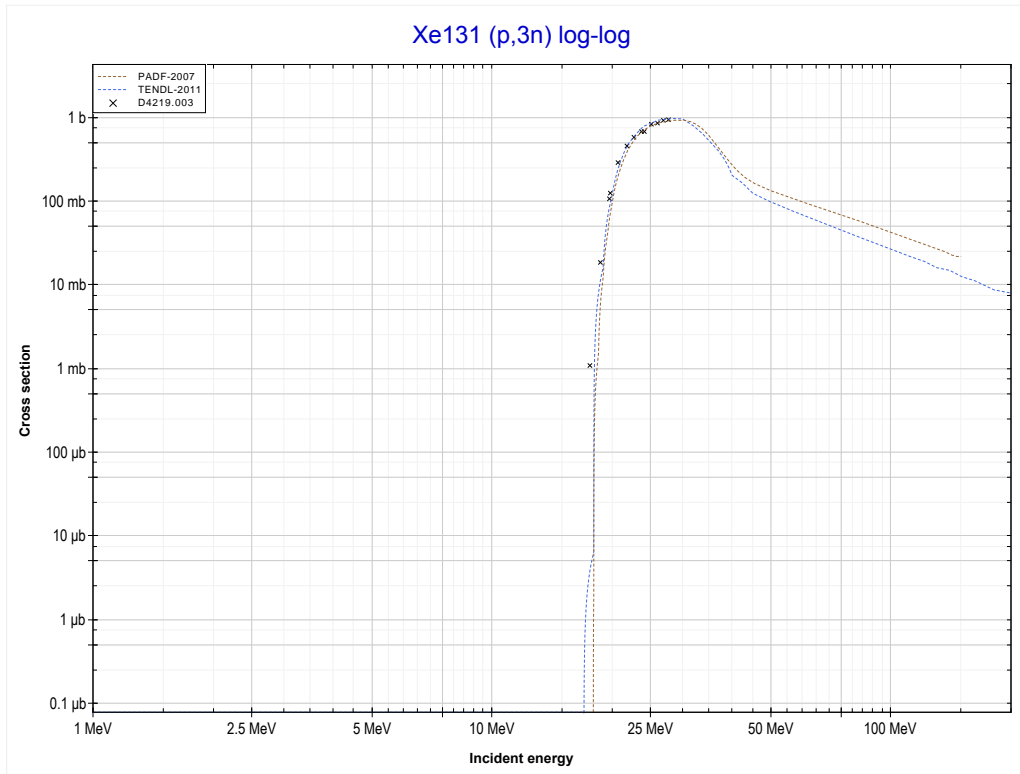


<< 53-I-127	<b>54-Xe-131</b>	55-Cs-133 >>
<< MT28 (p,n+p)	<b>MT4 (p,n) or MT5 (Cs131 production)</b>	MT17 (p,3n) >>



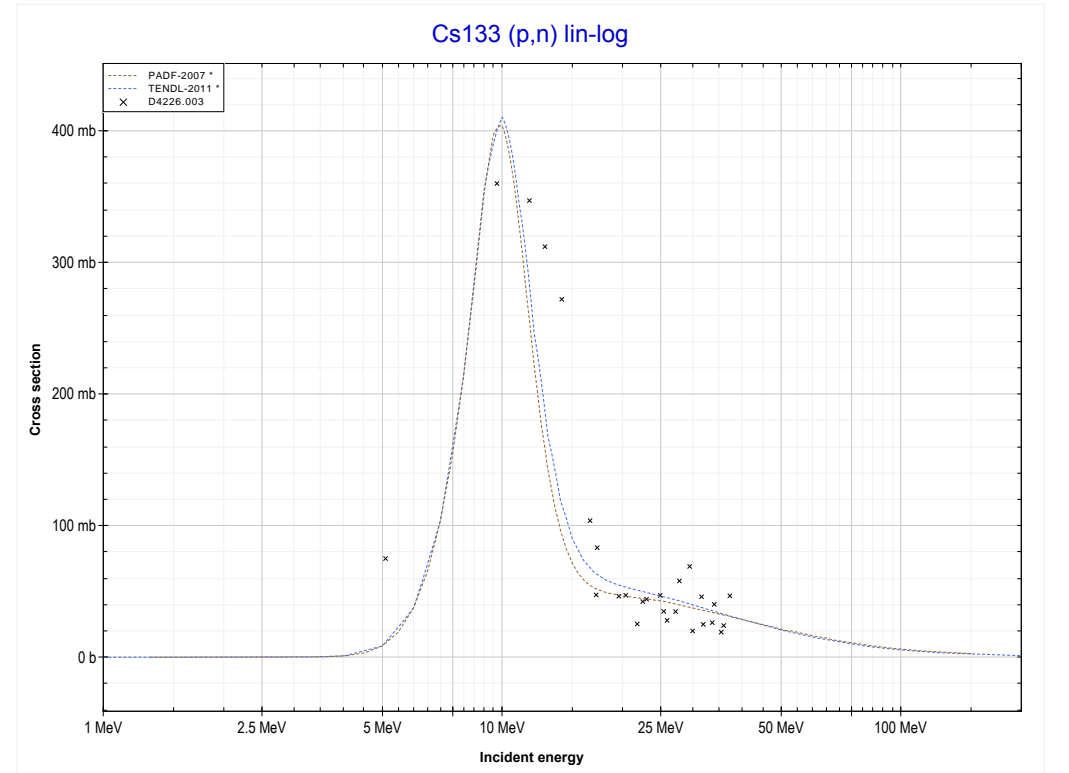
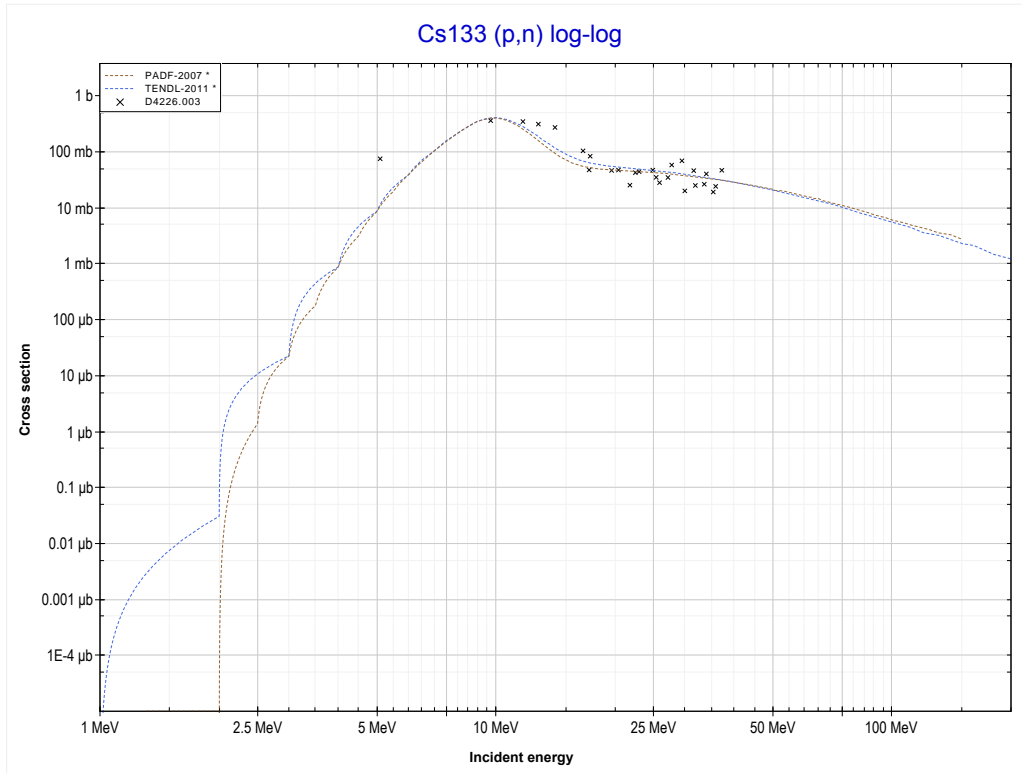
Reaction	Q-Value
Xe131(p,n)Cs131	-1137.55 keV

<< 53-I-127	<b>54-Xe-131</b>	55-Cs-133 >>
<< MT4 (p,n)	<b>MT17 (p,3n) or MT5 (Cs129 production)</b>	MT4 (p,n) >>



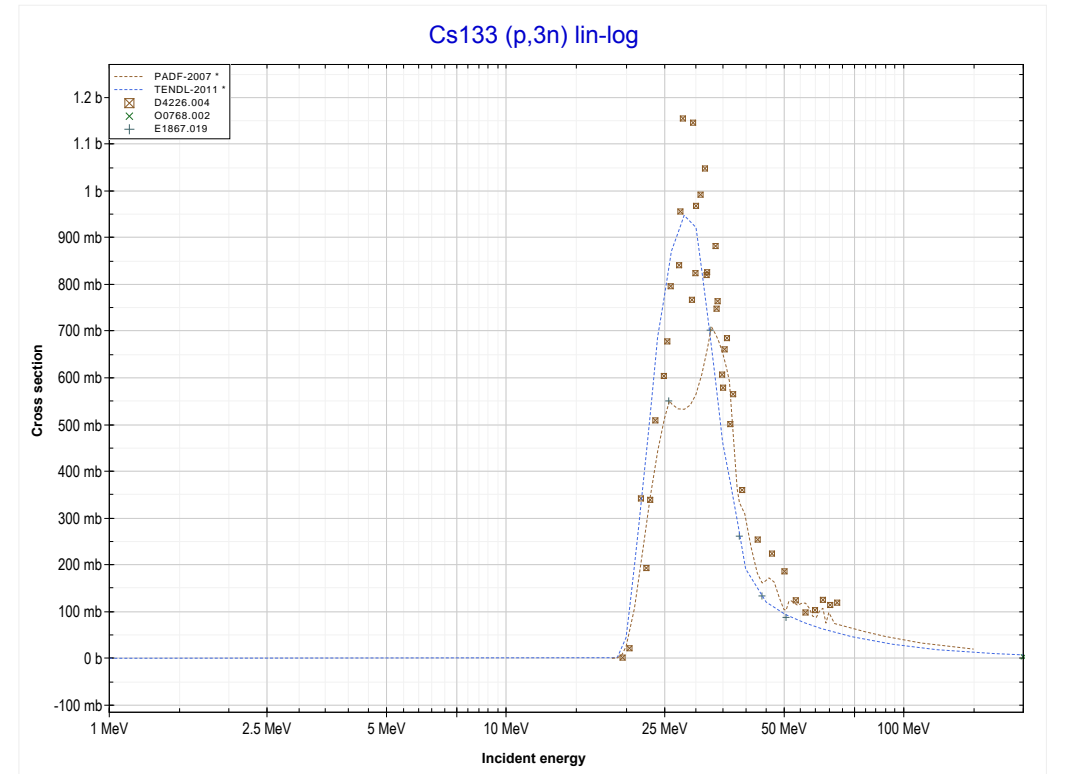
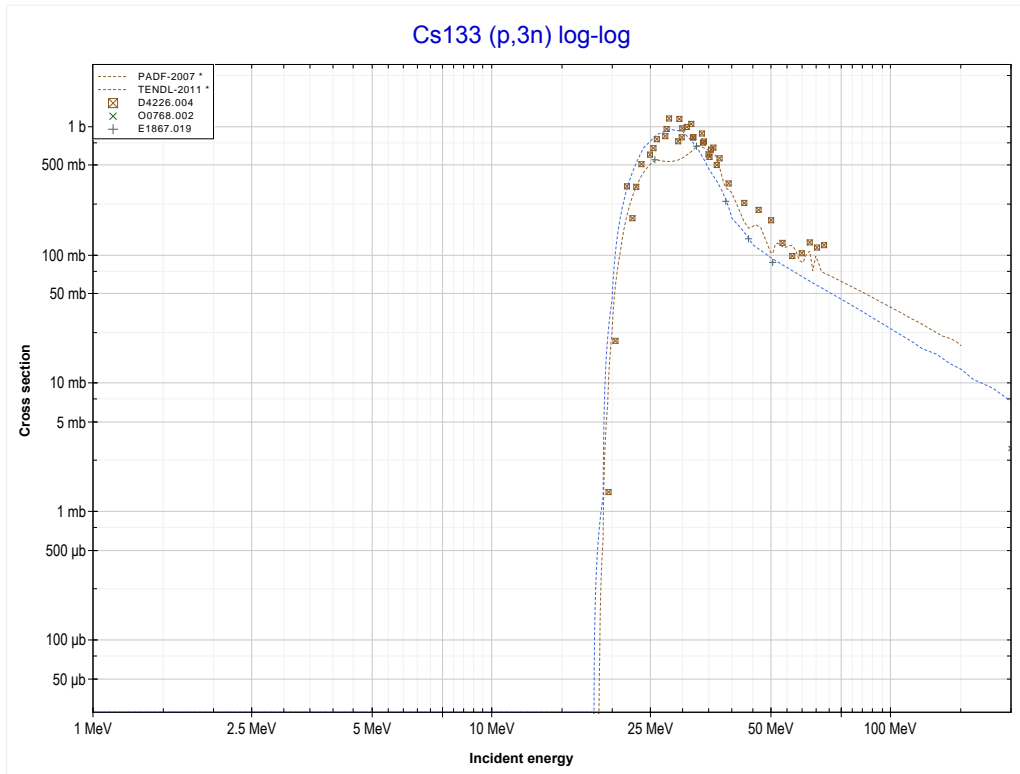
Reaction	Q-Value
Xe131(p,3n)Cs129	-17840.18 keV

<< 54-Xe-131	<b>55-Cs-133</b>	56-Ba-134 >>
<< MT17 (p,3n)	<b>MT4 (p,n) or MT5 (Ba133 production)</b>	MT17 (p,3n) >>



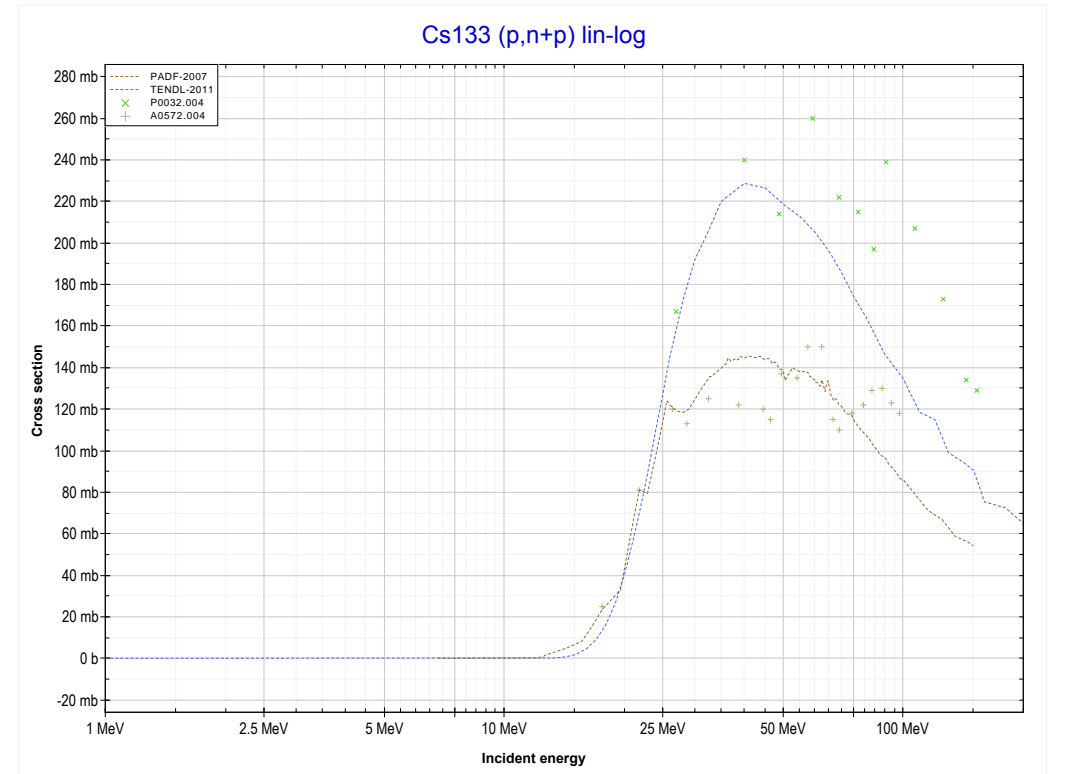
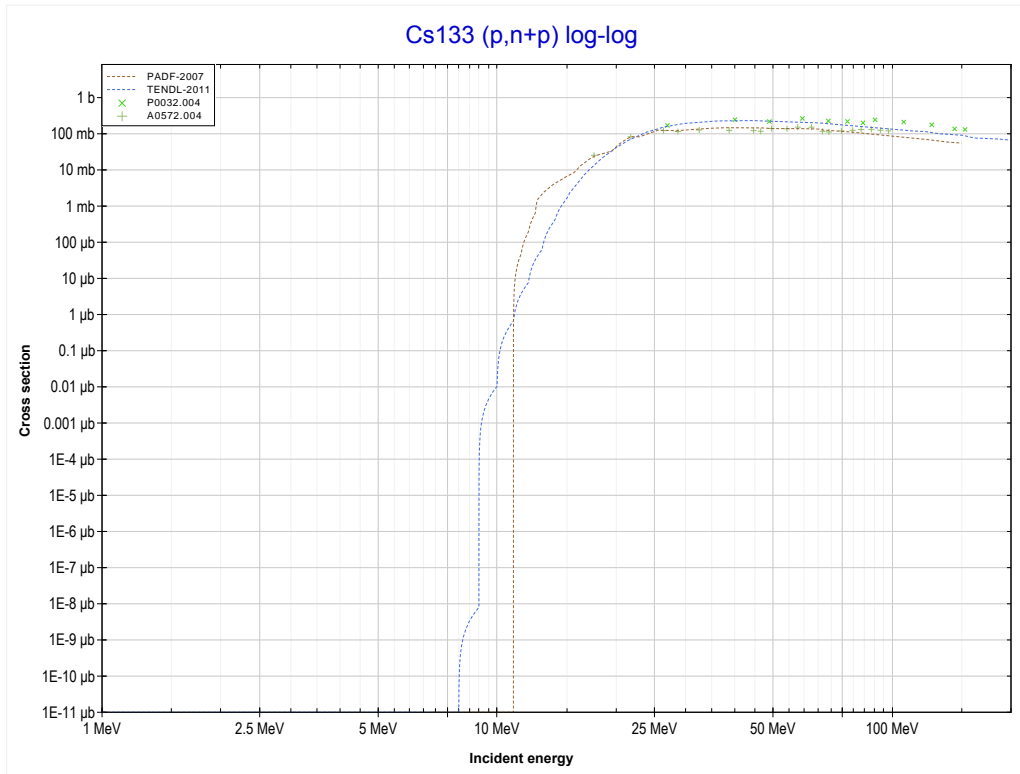
Reaction	Q-Value
Cs133(p,n)Ba133	-1299.80 keV

<< 54-Xe-131	<b>55-Cs-133</b>	58-Ce-140 >>
<< MT4 (p,n)	<b>MT17 (p,3n) or MT5 (Ba131 production)</b>	MT28 (p,n+p) >>



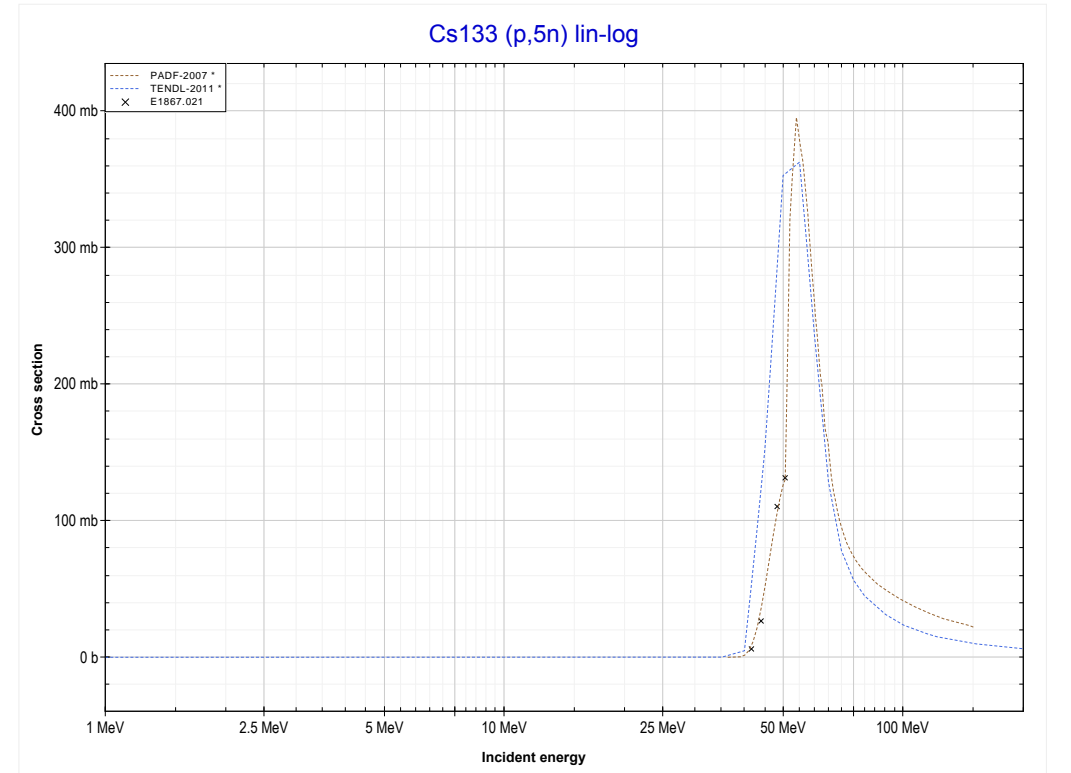
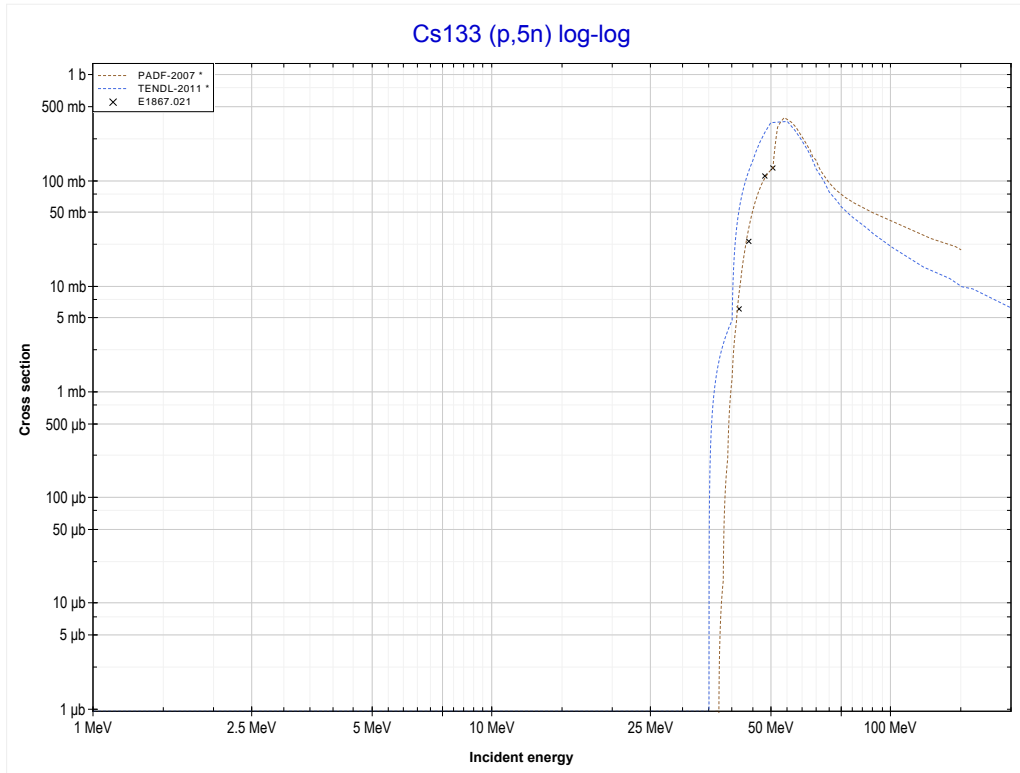
Reaction	Q-Value
Cs133(p,3n)Ba131	-18312.14 keV

<< 54-Xe-126	<b>55-Cs-133</b>	58-Ce-142 >>
<< MT17 (p,3n)	<b>MT28 (p,n+p) or MT5 (Cs132 production)</b>	MT152 (p,5n) >>



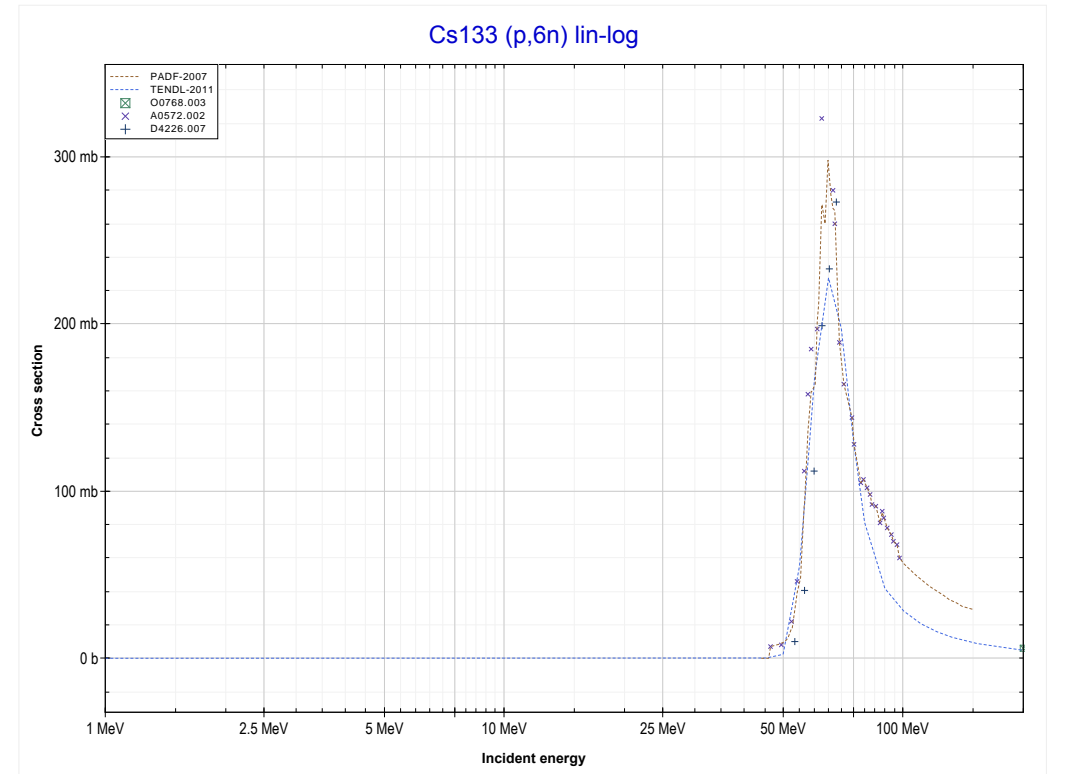
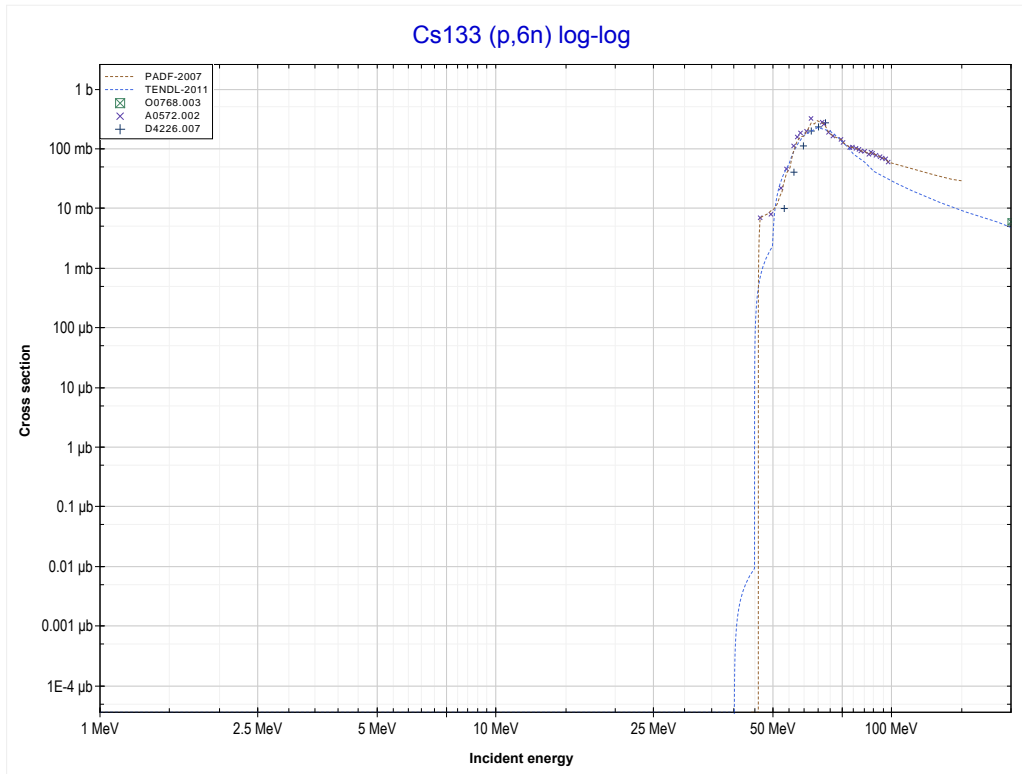
Reaction	Q-Value
Cs133(p,d)Cs132	-6761.81 keV
Cs133(p,n+p)Cs132	-8986.38 keV

<< 53-I-127	<b>55-Cs-133</b>	59-Pr-141 >>
<< MT28 (p,n+p)	<b>MT152 (p,5n) or MT5 (Ba129 production)</b>	MT153 (p,6n) >>



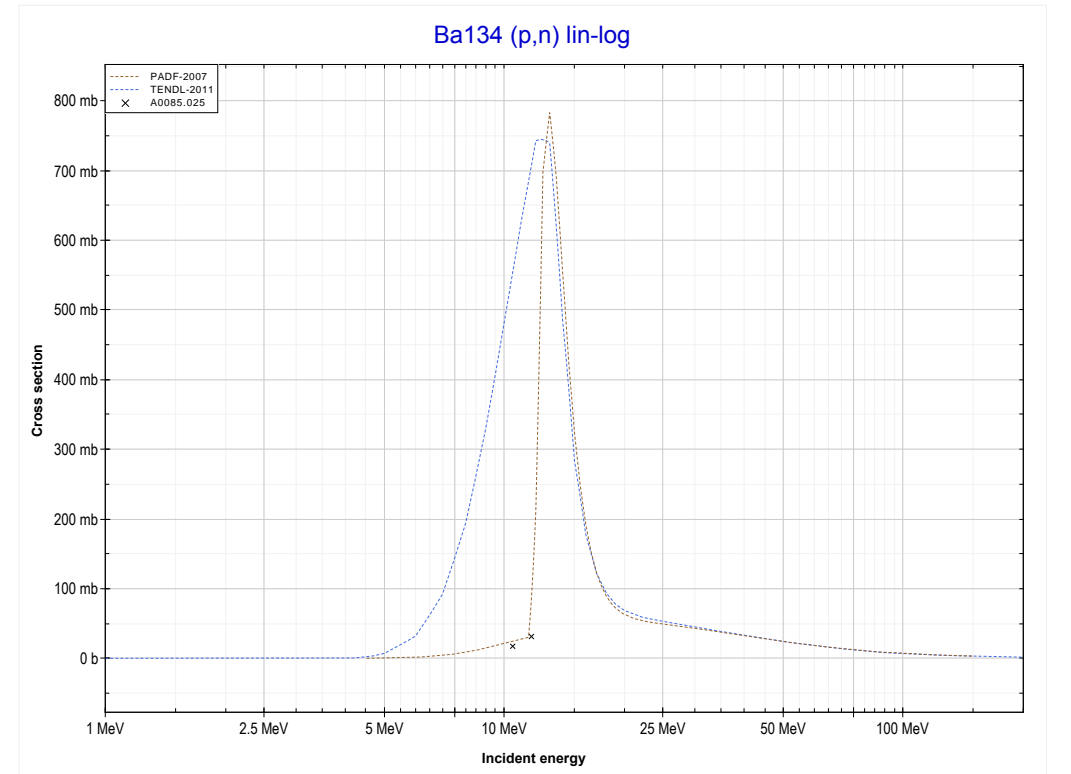
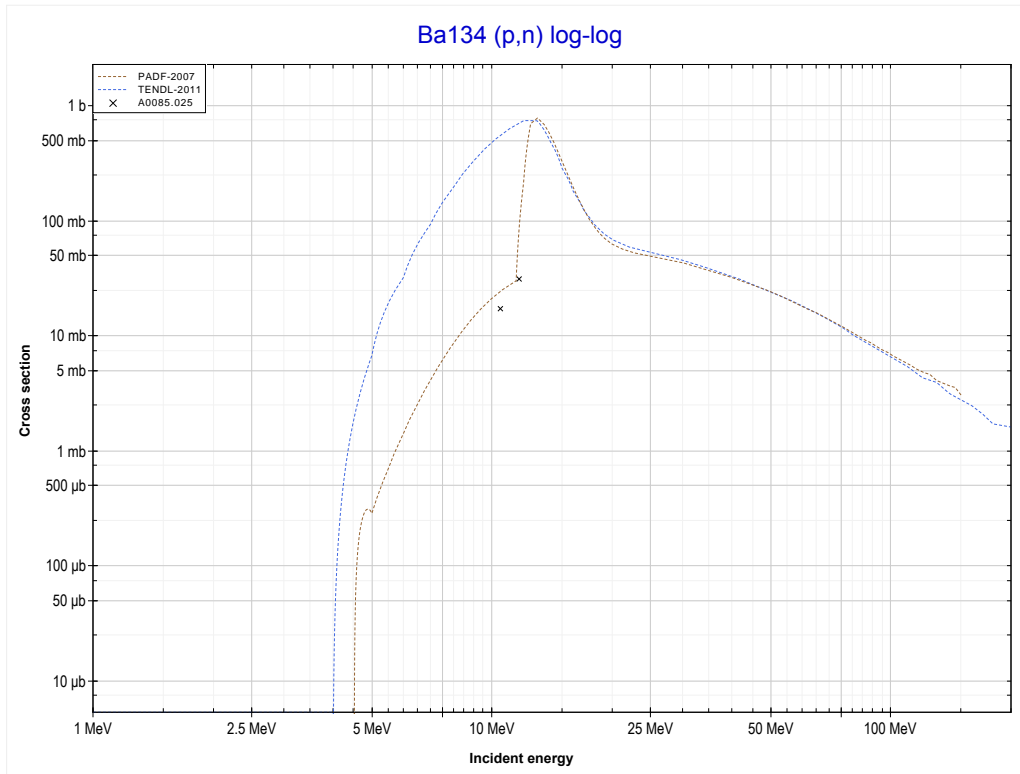
Reaction	Q-Value
Cs133(p,5n)Ba129	-36073.57 keV

<< 53-I-127	<b>55-Cs-133</b>	59-Pr-141 >>
<< MT152 (p,5n)	<b>MT153 (p,6n) or MT5 (Ba128 production)</b>	MT4 (p,n) >>



Reaction	Q-Value
Cs133(p,6n)Ba128	-43807.89 keV

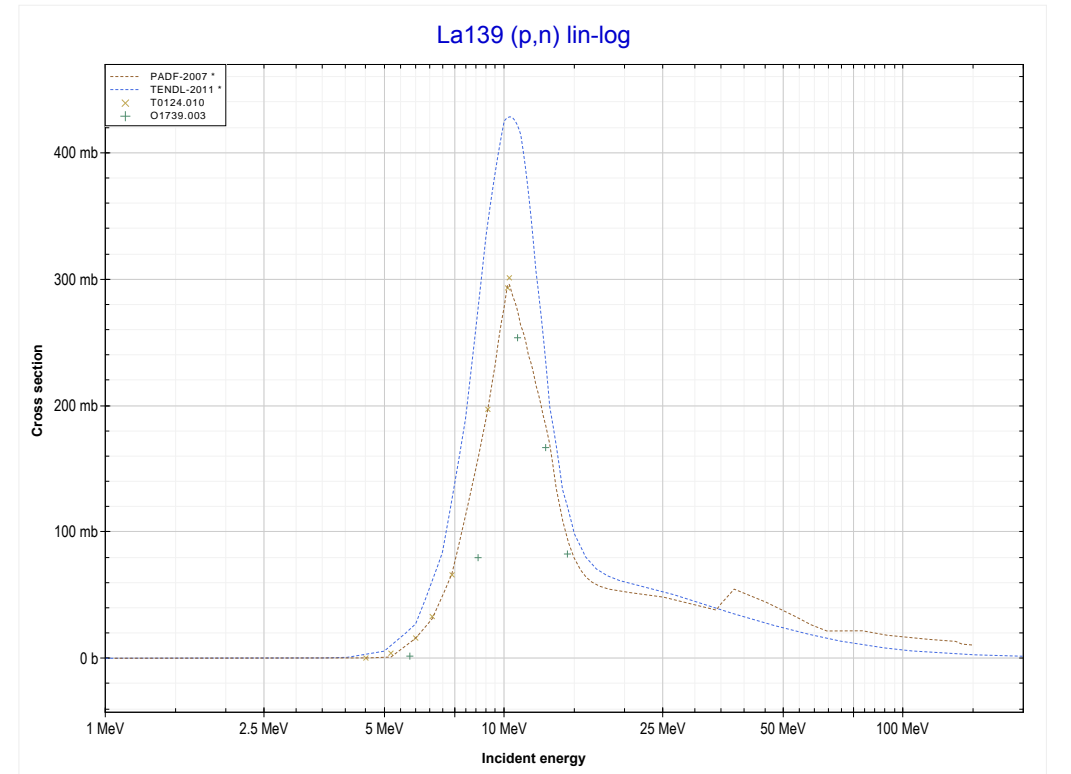
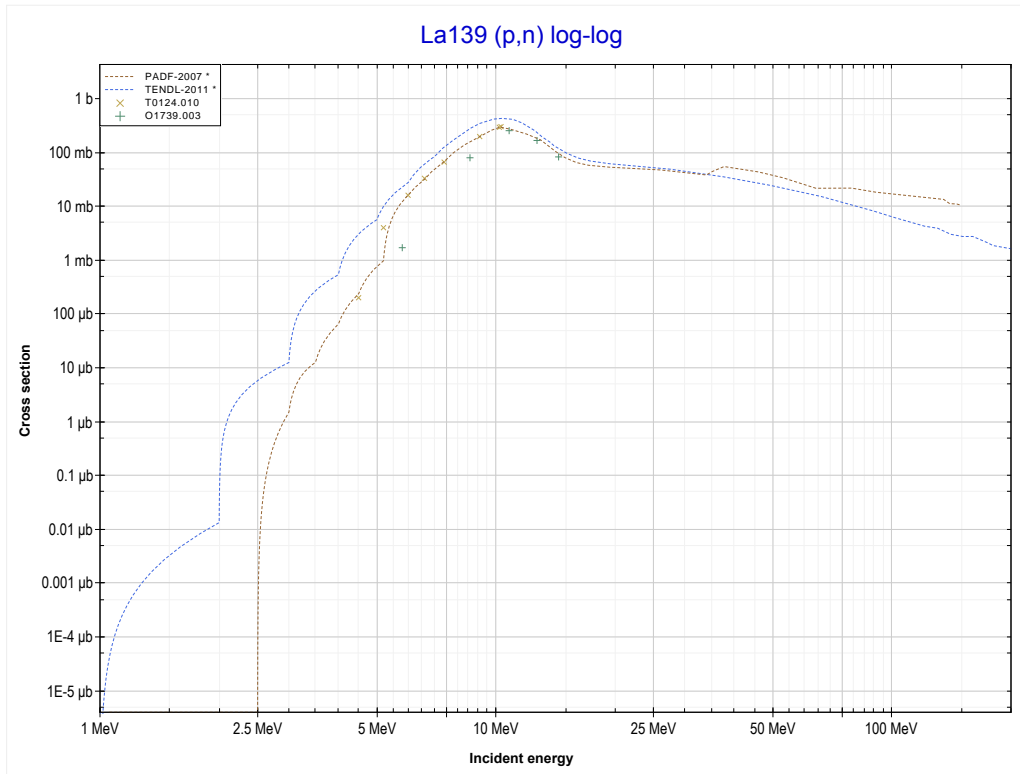
<< 55-Cs-133	<b>56-Ba-134</b>	57-La-139 >>
<< MT153 (p,6n)	<b>MT4 (p,n) or MT5 (La134 production)</b>	MT4 (p,n) >>



Reaction	Q-Value
Ba134(p,n)La134	-4513.25 keV

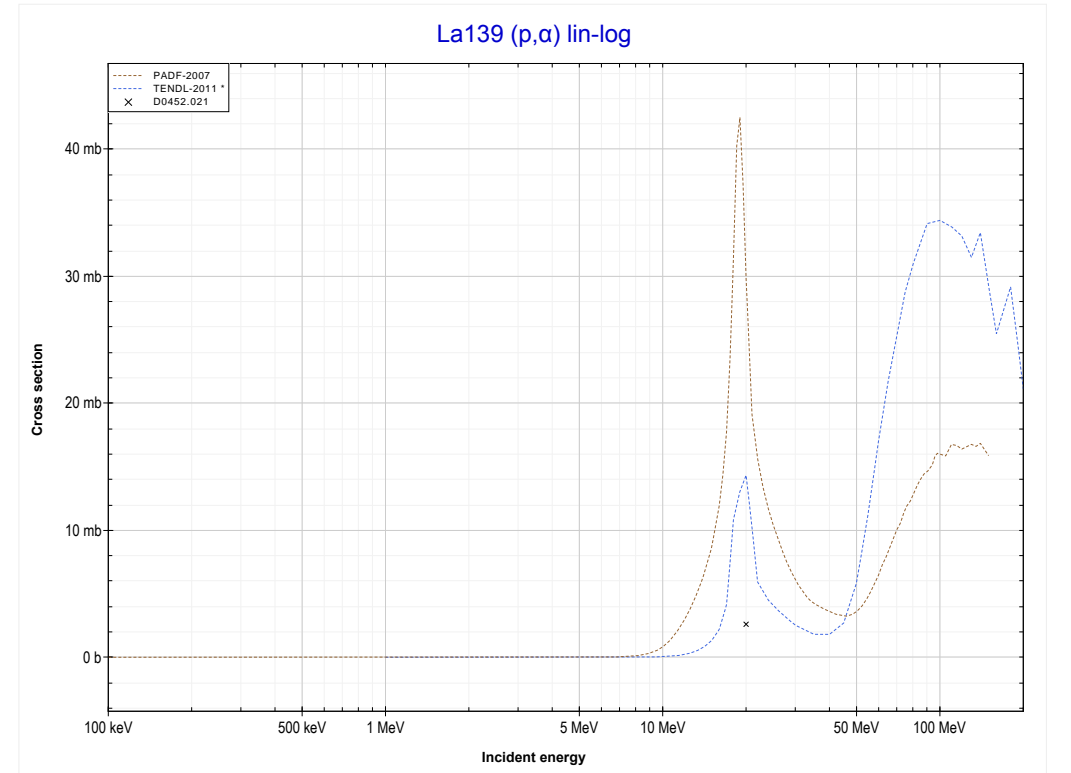
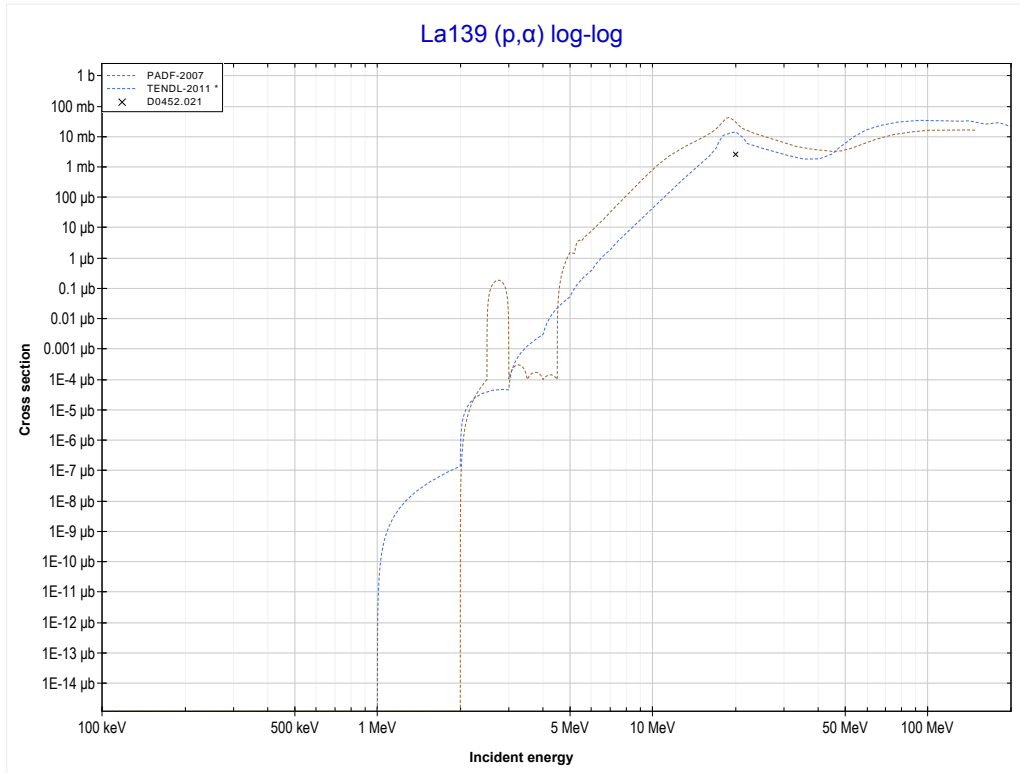


<< 56-Ba-134	<b>57-La-139</b>	58-Ce-140 >>
<< MT4 (p,n)	<b>MT4 (p,n) or MT5 (Ce139 production)</b>	MT107 (p, $\alpha$ ) >>



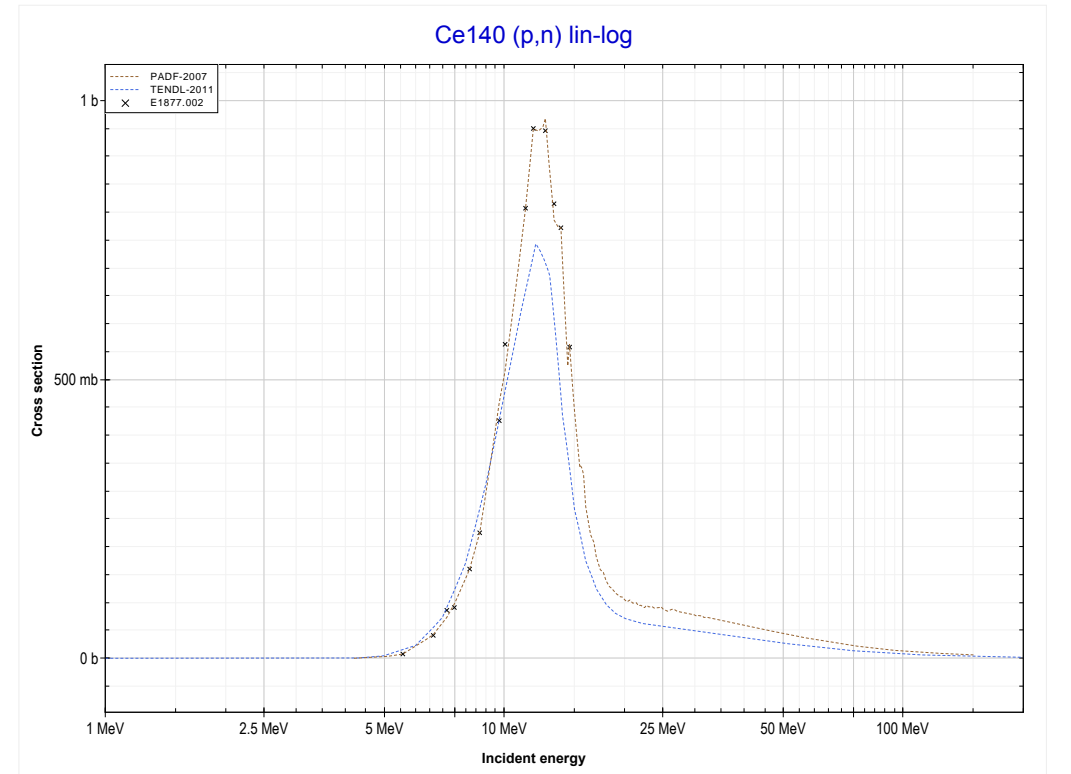
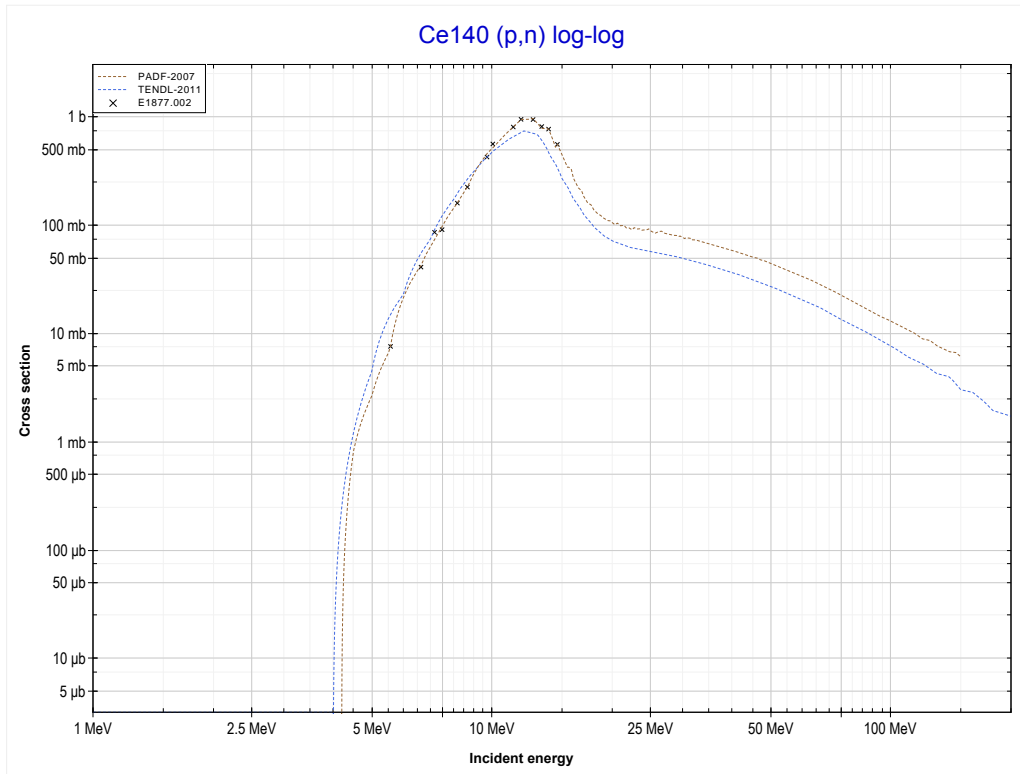
Reaction	Q-Value
La139(p,n)Ce139	-1061.75 keV

<< 54-Xe-124	<b>57-La-139</b>	58-Ce-140 >>
<< MT4 (p,n)	<b>MT107 (p,<math>\alpha</math>) or MT5 (Ba136 production)</b>	MT4 (p,n) >>



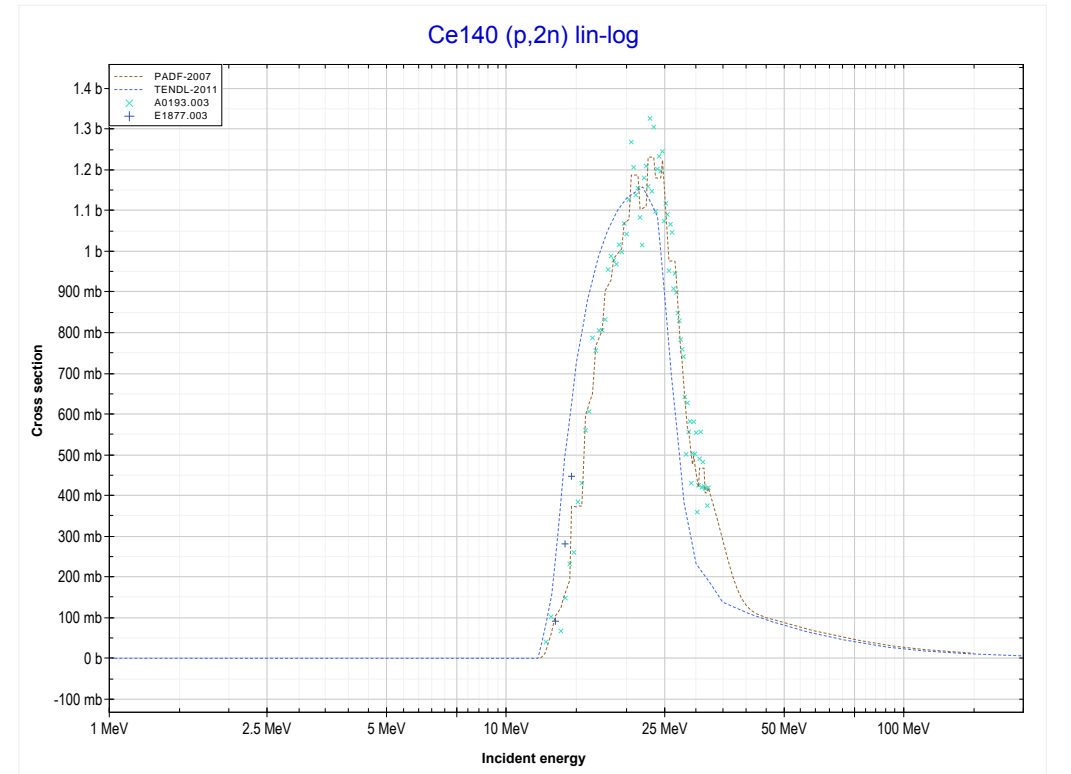
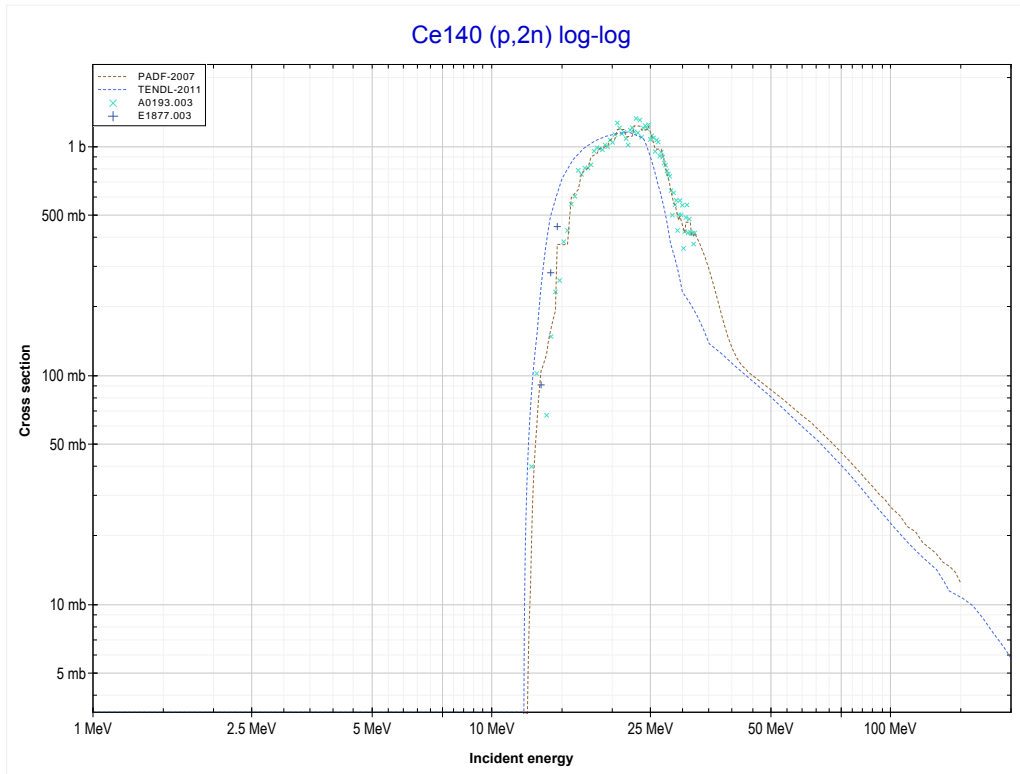
Reaction	Q-Value
La139(p, $\alpha$ )Ba136	6519.55 keV
La139(p,p+t)Ba136	-13294.31 keV
La139(p,n+He3)Ba136	-14058.06 keV
La139(p,2d)Ba136	-17326.97 keV
La139(p,n+p+d)Ba136	-19551.54 keV
La139(p,2n+2p)Ba136	-21776.10 keV

<< 57-La-139	<b>58-Ce-140</b>	58-Ce-142 >>
<< MT107 (p, $\alpha$ )	<b>MT4 (p,n) or MT5 (Pr140 production)</b>	MT16 (p,2n) >>



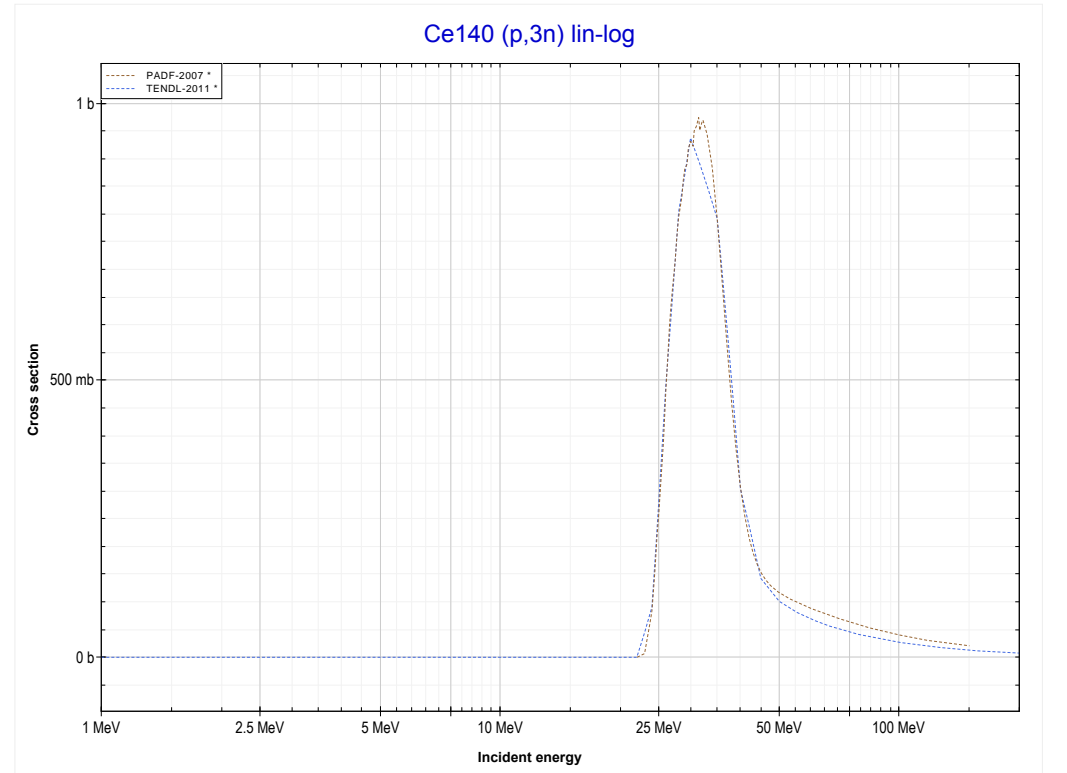
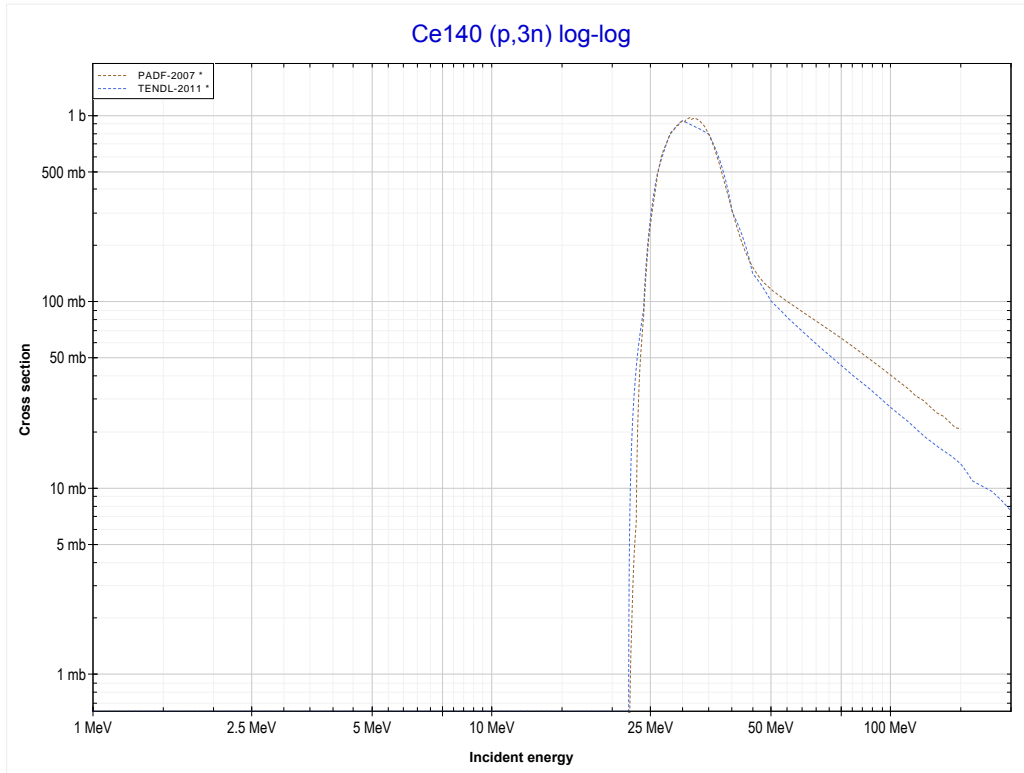
Reaction	Q-Value
Ce140(p,n)Pr140	-4170.65 keV

<< 54-Xe-126	<b>58-Ce-140</b>	59-Pr-141 >>
<< MT4 (p,n)	<b>MT16 (p,2n) or MT5 (Pr139 production)</b>	MT17 (p,3n) >>



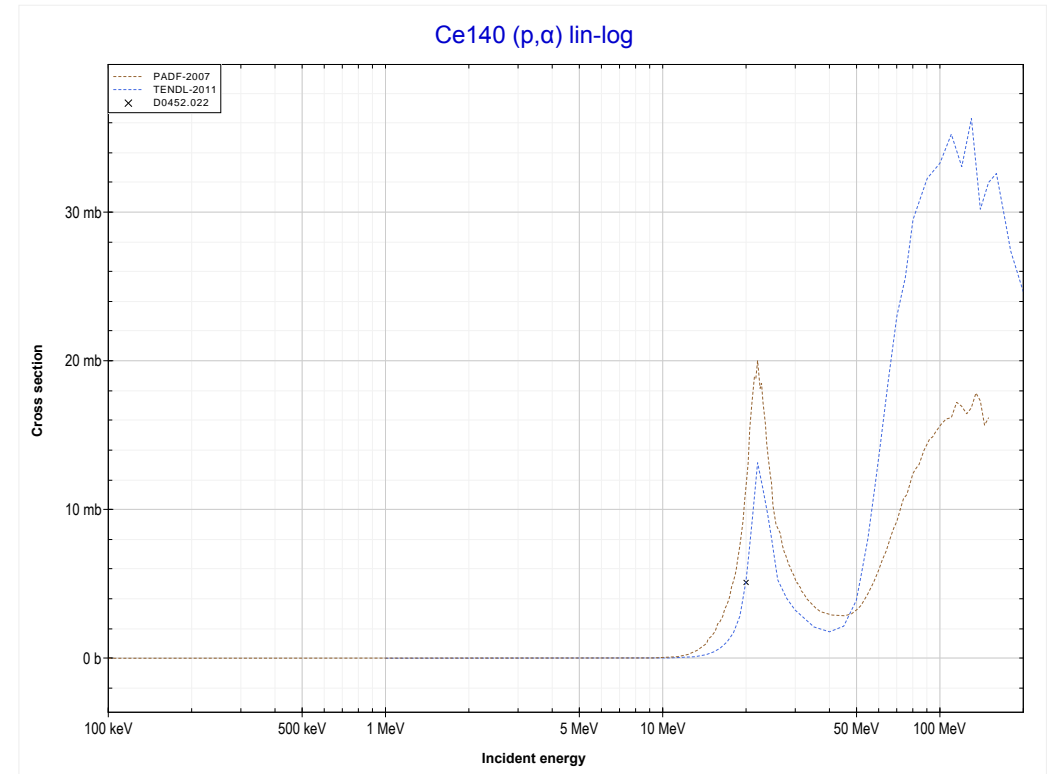
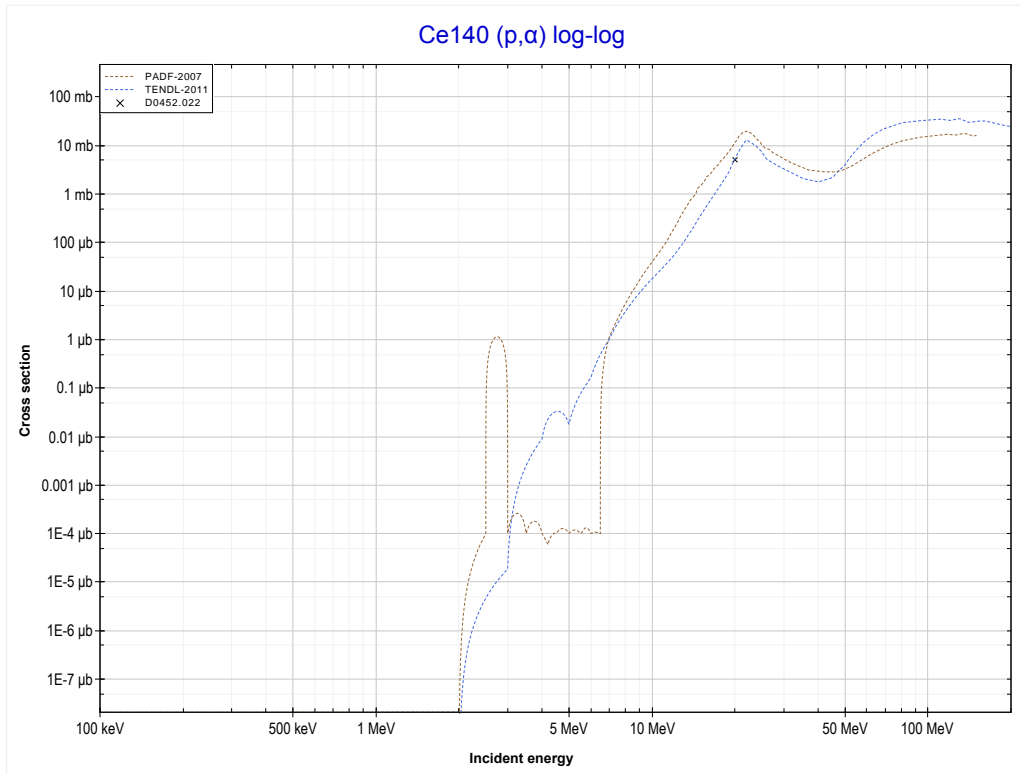
Reaction	Q-Value
Ce140(p,2n)Pr139	-12113.96 keV

<< 55-Cs-133	<b>58-Ce-140</b>	59-Pr-141 >>
<< MT16 (p,2n)	<b>MT17 (p,3n) or MT5 (Pr138 production)</b>	MT107 (p, $\alpha$ ) >>



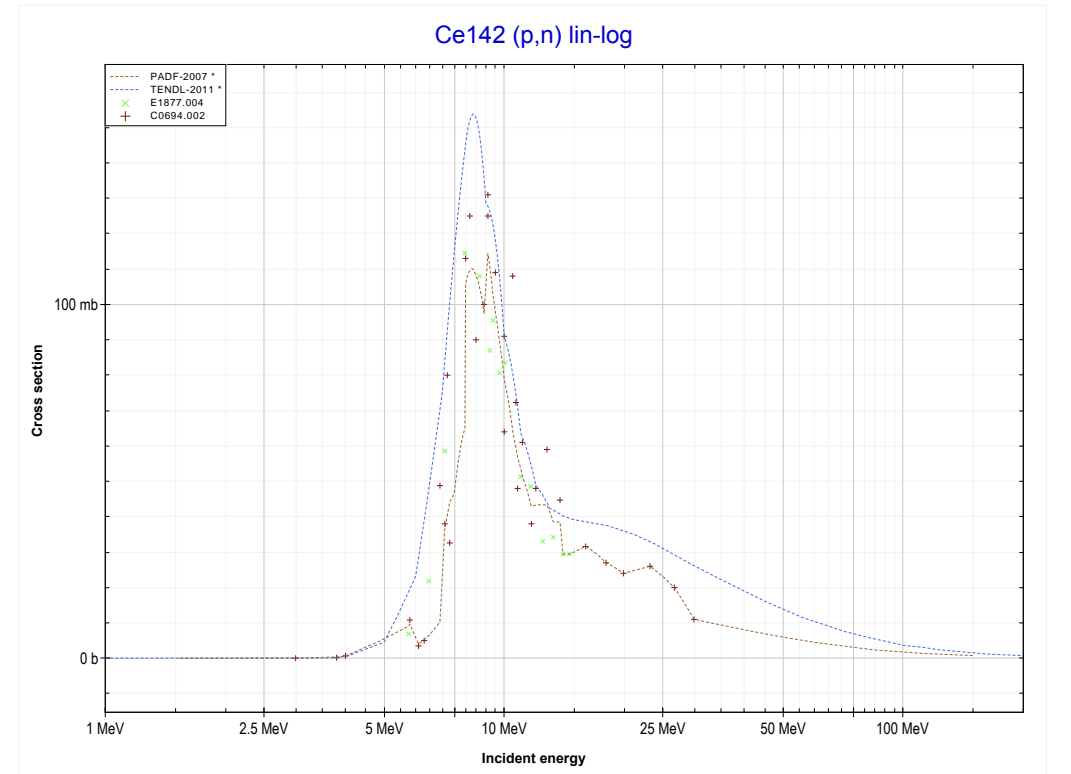
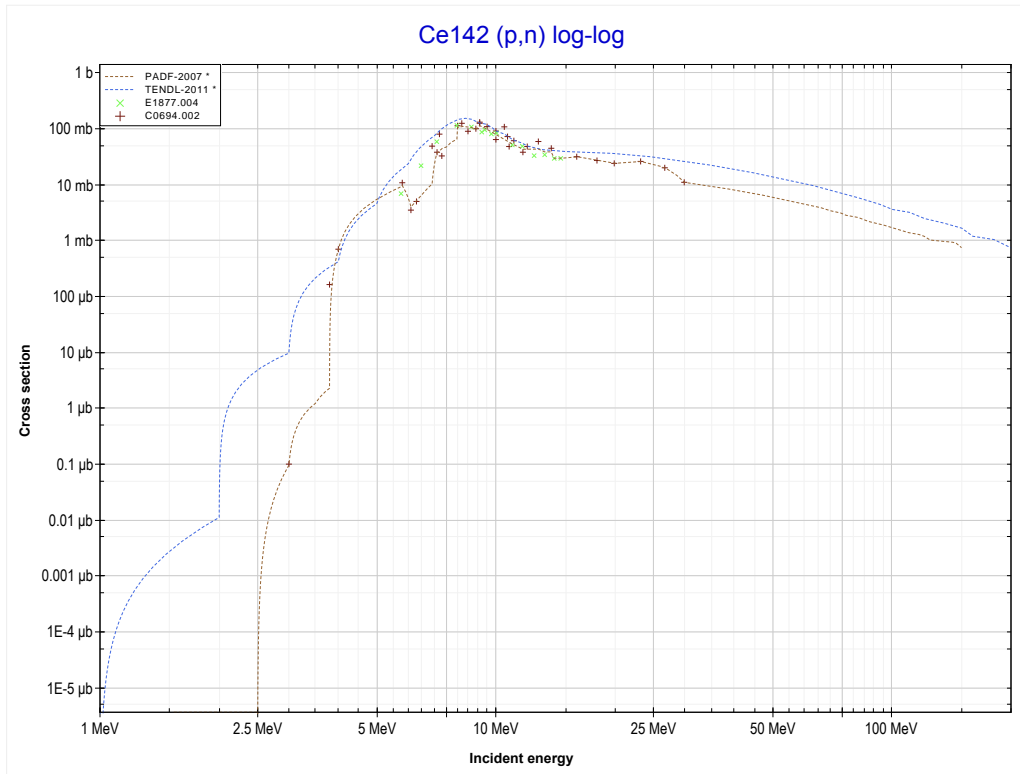
Reaction	Q-Value
Ce140(p,3n)Pr138	-21876.28 keV

<< 57-La-139	<b>58-Ce-140</b>	60-Nd-150 >>
<< MT17 (p,3n)	<b>MT107 (p,<math>\alpha</math>) or MT5 (La137 production)</b>	MT4 (p,n) >>



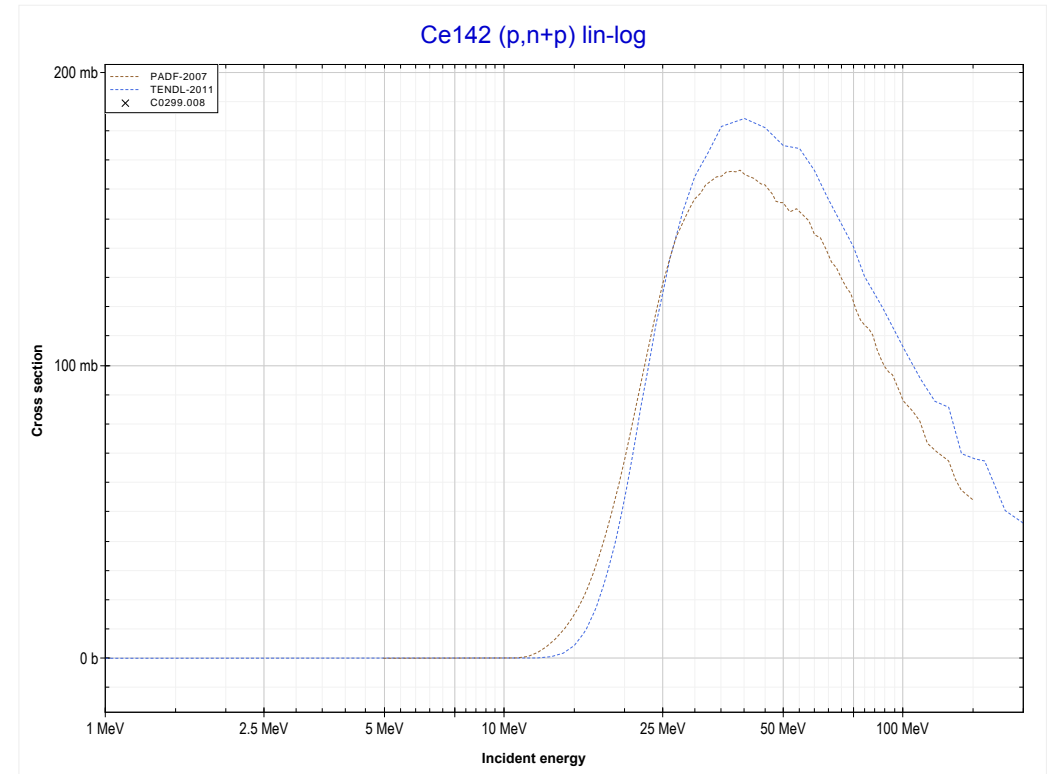
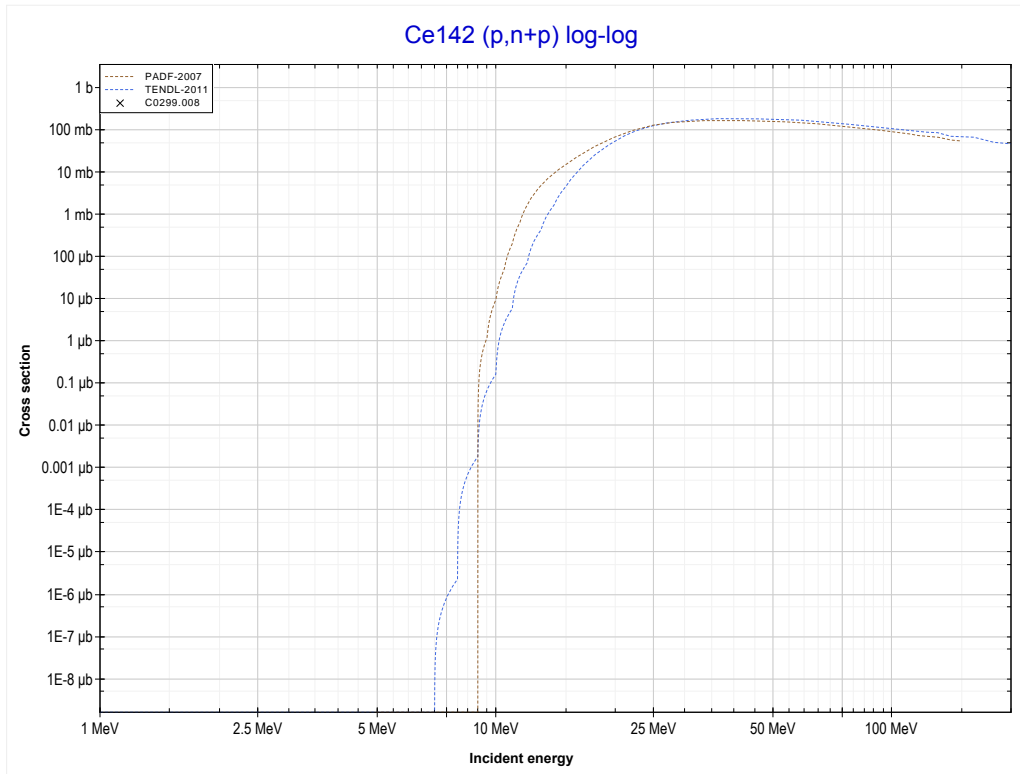
Reaction	Q-Value
Ce140(p, $\alpha$ )La137	3881.75 keV
Ce140(p,p+t)La137	-15932.11 keV
Ce140(p,n+He3)La137	-16695.86 keV
Ce140(p,2d)La137	-19964.77 keV
Ce140(p,n+p+d)La137	-22189.34 keV
Ce140(p,2n+2p)La137	-24413.90 keV

<< 58-Ce-140	<b>58-Ce-142</b>	59-Pr-141 >>
<< MT107 (p, $\alpha$ )	<b>MT4 (p,n) or MT5 (Pr142 production)</b>	MT28 (p,n+p) >>



Reaction	Q-Value
Ce142(p,n)Pr142	-1528.15 keV

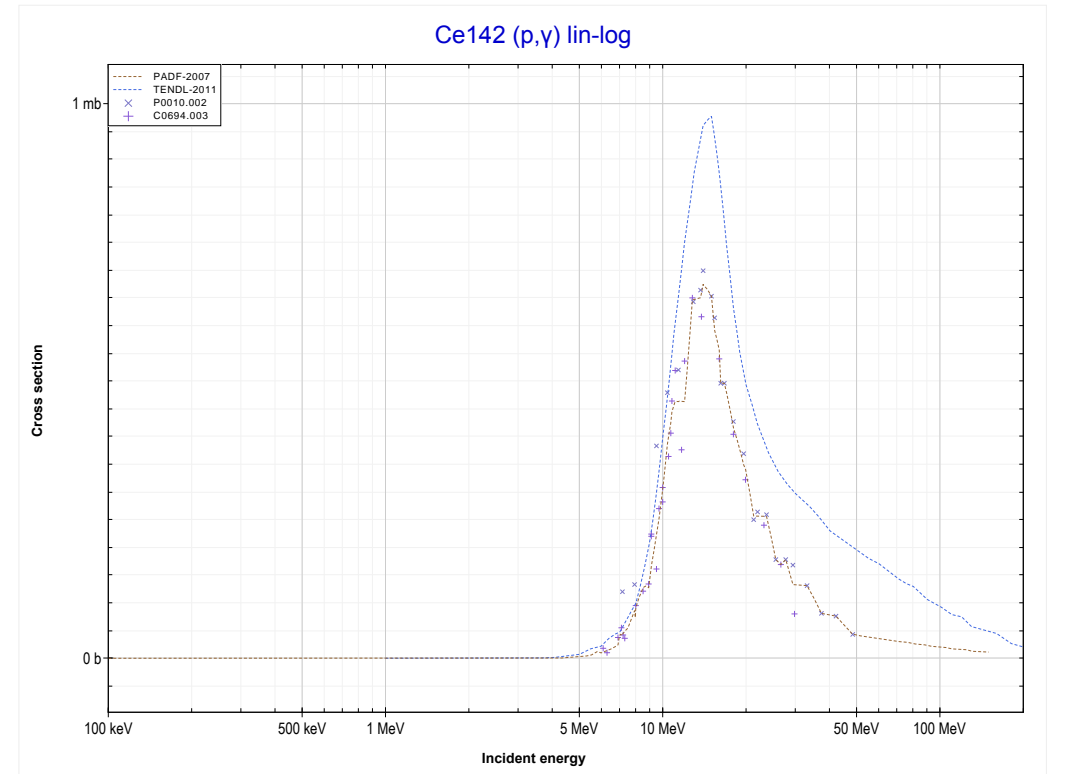
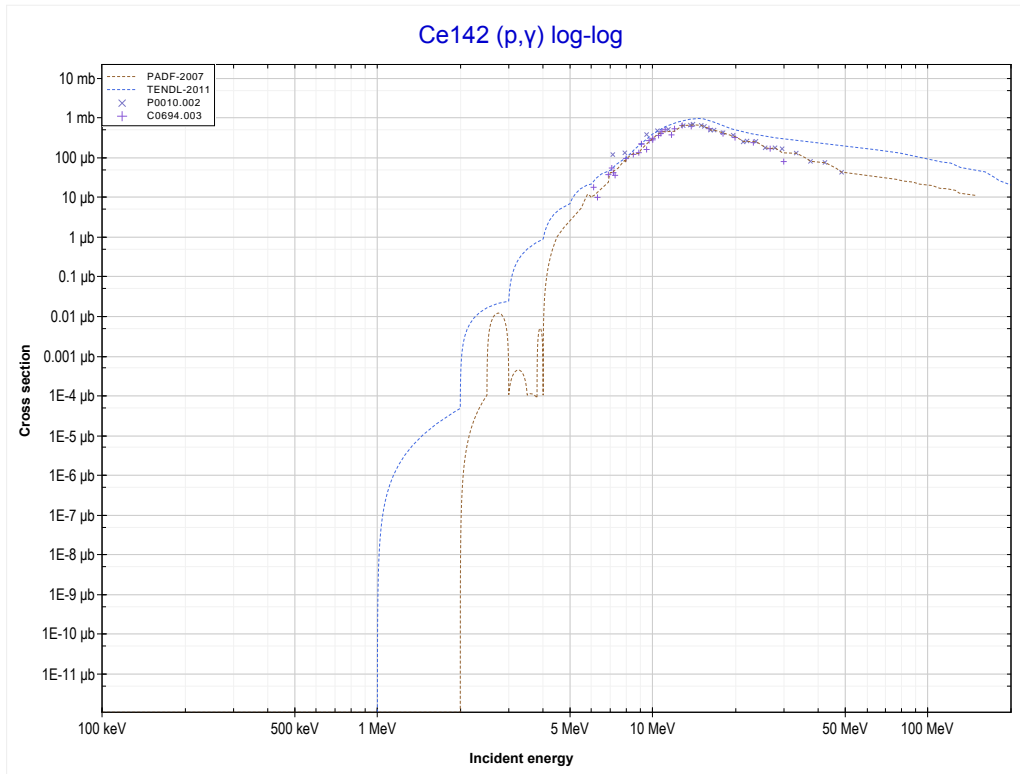
<< 55-Cs-133	<b>58-Ce-142</b>	73-Ta-181 >>
<< MT4 (p,n)	<b>MT28 (p,n+p) or MT5 (Ce141 production)</b>	MT102 (p, $\gamma$ ) >>



Reaction	Q-Value
Ce142(p,d)Ce141	-4945.15 keV
Ce142(p,n+p)Ce141	-7169.72 keV

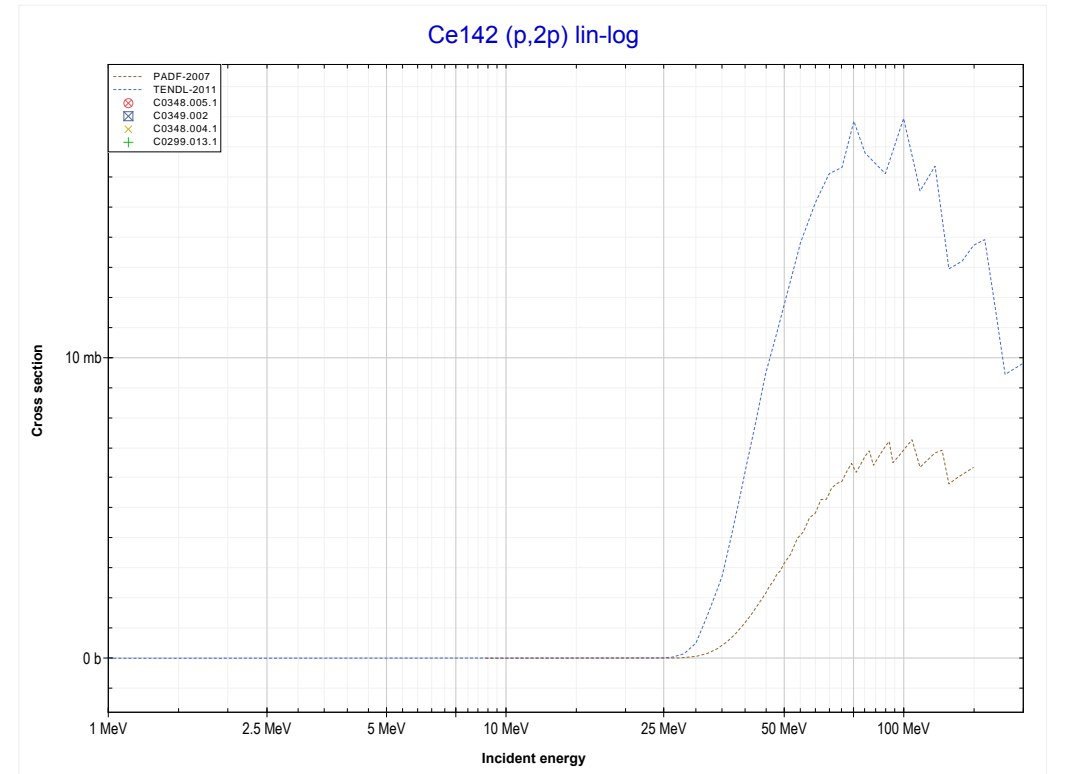
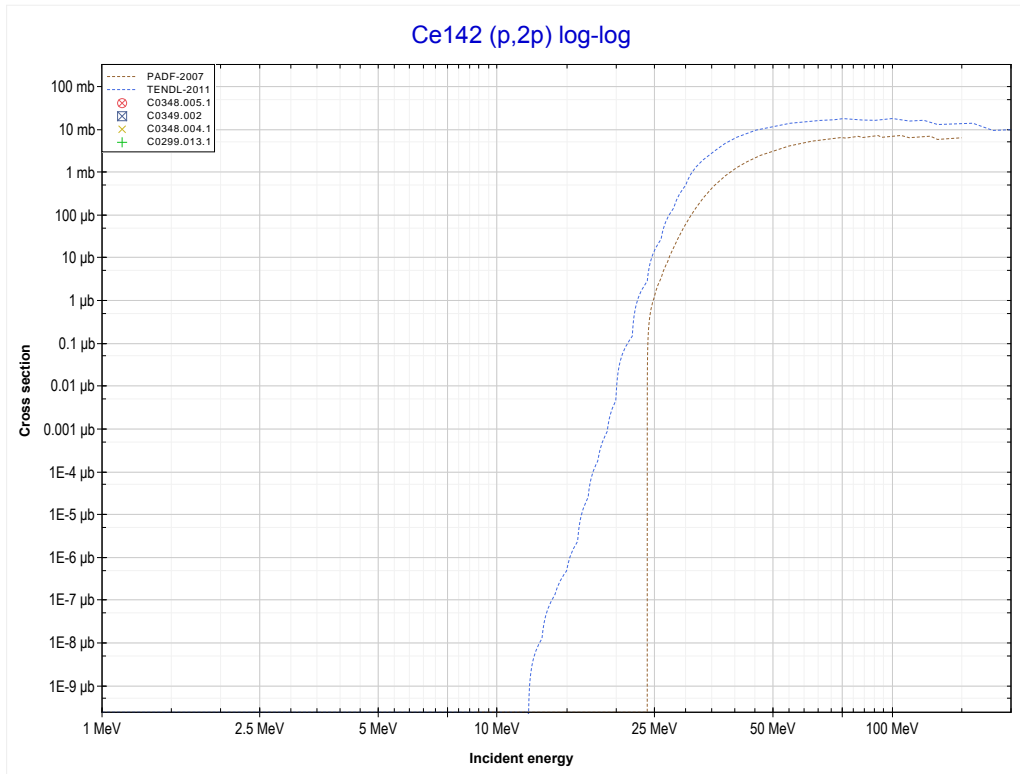


<< 52-Te-130	<b>58-Ce-142</b>	62-Sm-147 >>
<< MT28 (p,n+p)	<b>MT102 (p,<math>\gamma</math>) or MT5 (Pr143 production)</b>	MT111 (p,2p) >>



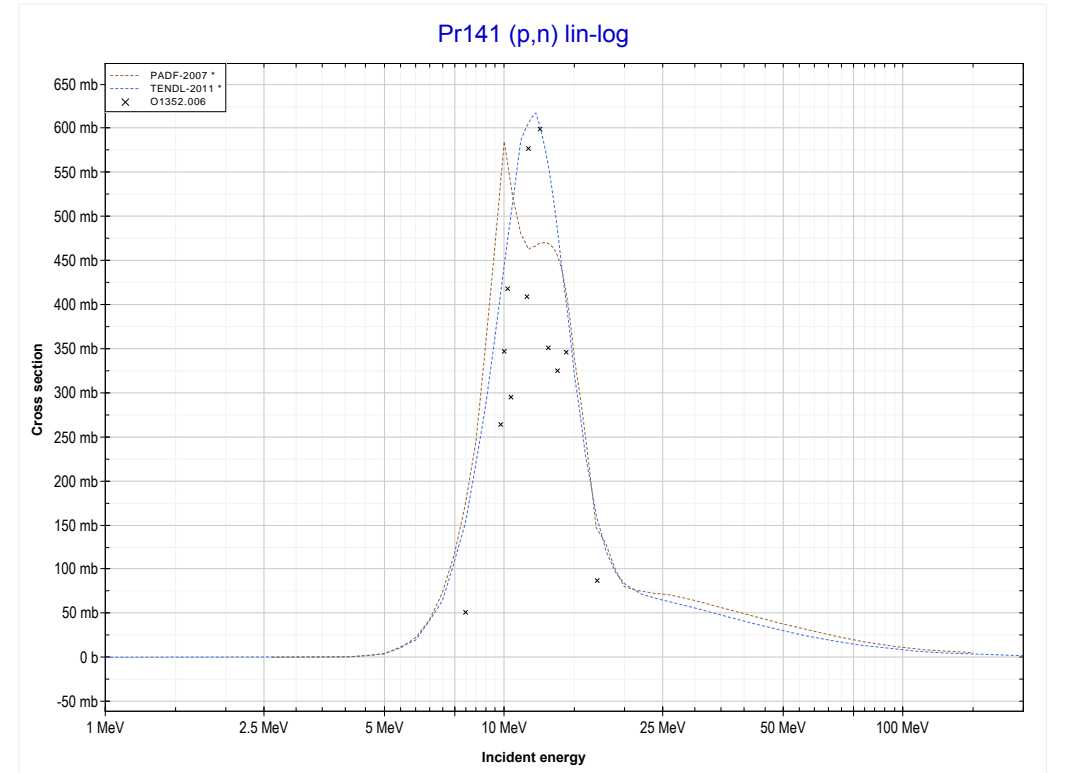
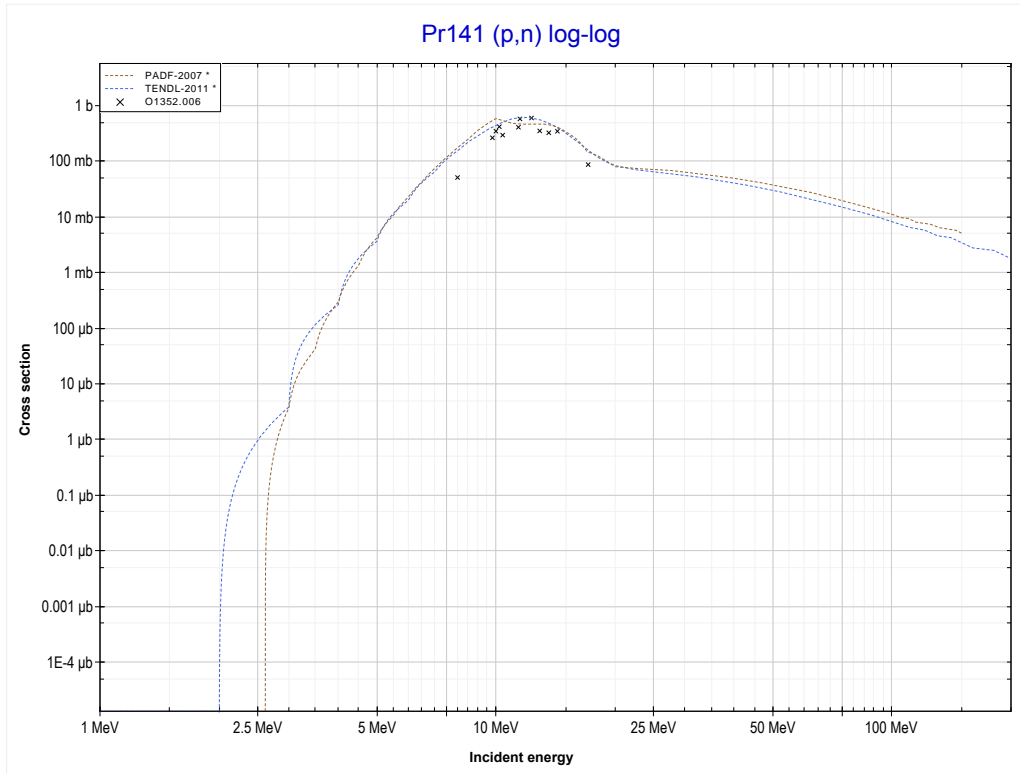
Reaction	Q-Value
Ce142(p, $\gamma$ )Pr143	5823.97 keV

<< 52-Te-130	<b>58-Ce-142</b>	74-W-186 >>
<< MT102 (p, $\gamma$ )	<b>MT111 (p,2p) or MT5 (La141 production)</b>	MT4 (p,n) >>



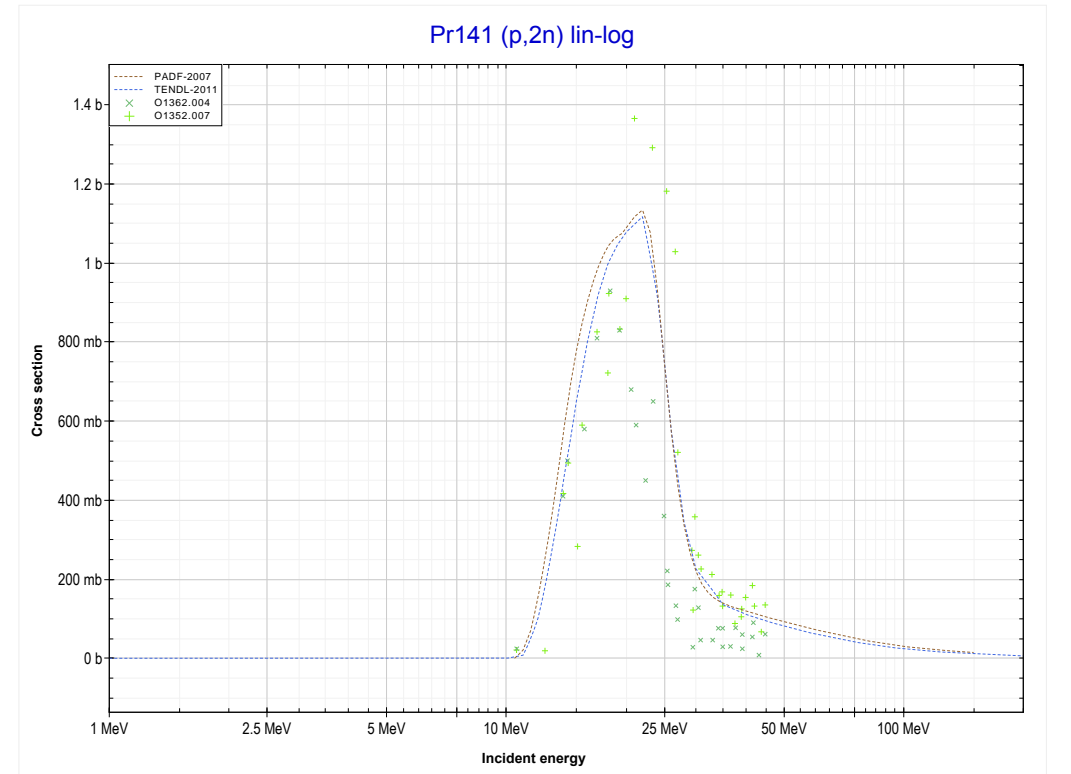
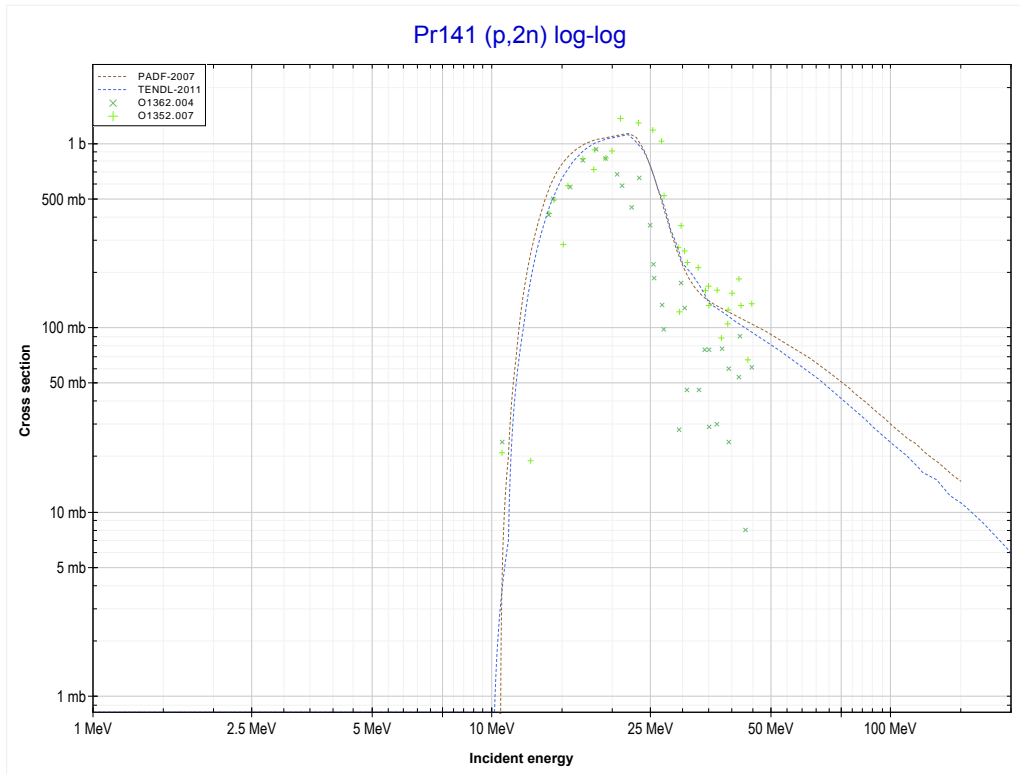
Reaction	Q-Value
Ce142(p,2p)La141	-8889.47 keV

<< 58-Ce-142	<b>59-Pr-141</b>	60-Nd-148 >>
<< MT111 (p,2p)	<b>MT4 (p,n) or MT5 (Nd141 production)</b>	MT16 (p,2n) >>



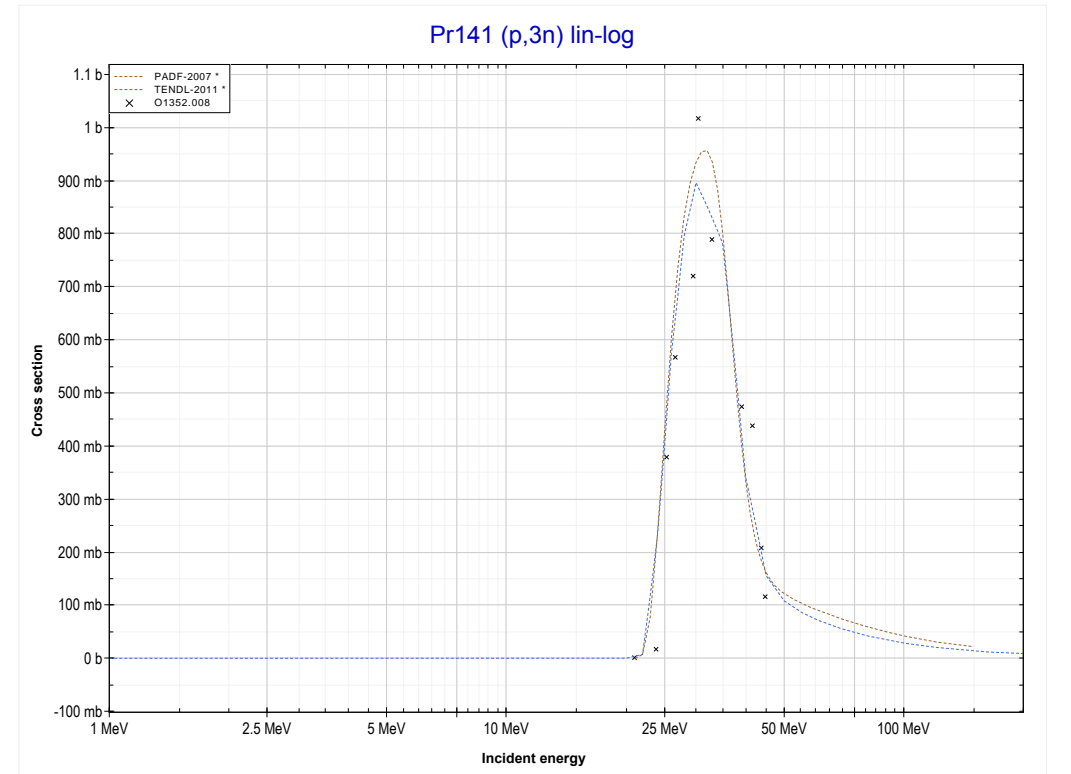
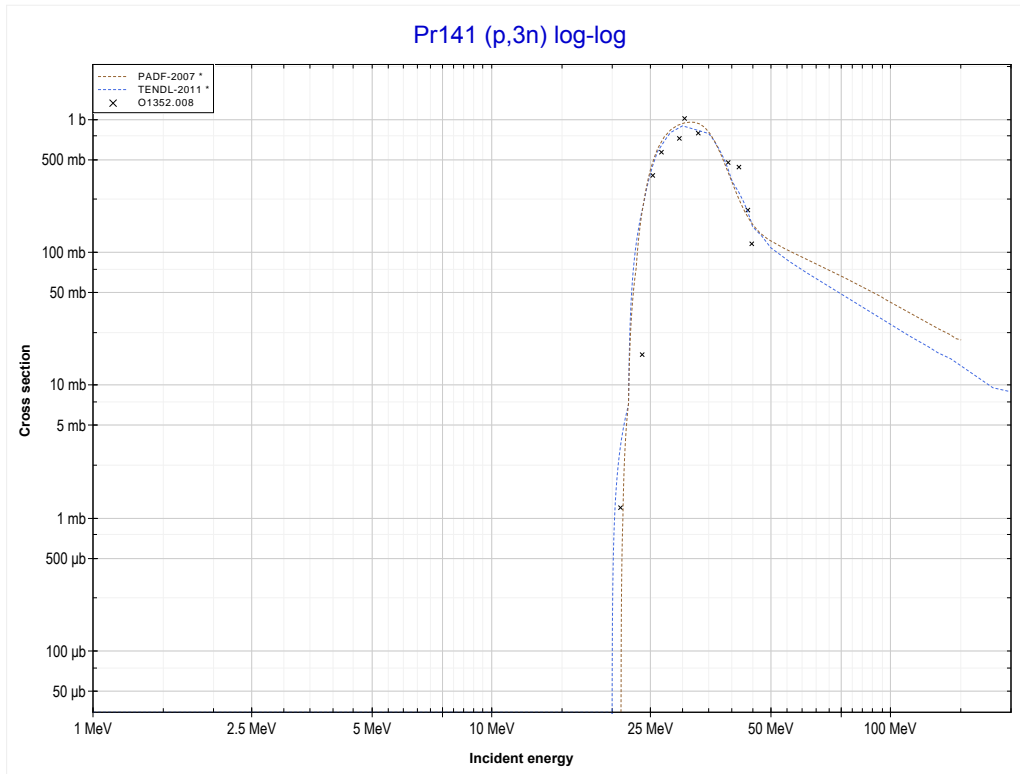
<b>Reaction</b>	<b>Q-Value</b>
Pr141(p,n)Nd141	-2605.25 keV

<< 58-Ce-140	<b>59-Pr-141</b>	62-Sm-147 >>
<< MT4 (p,n)	<b>MT16 (p,2n) or MT5 (Nd140 production)</b>	MT17 (p,3n) >>



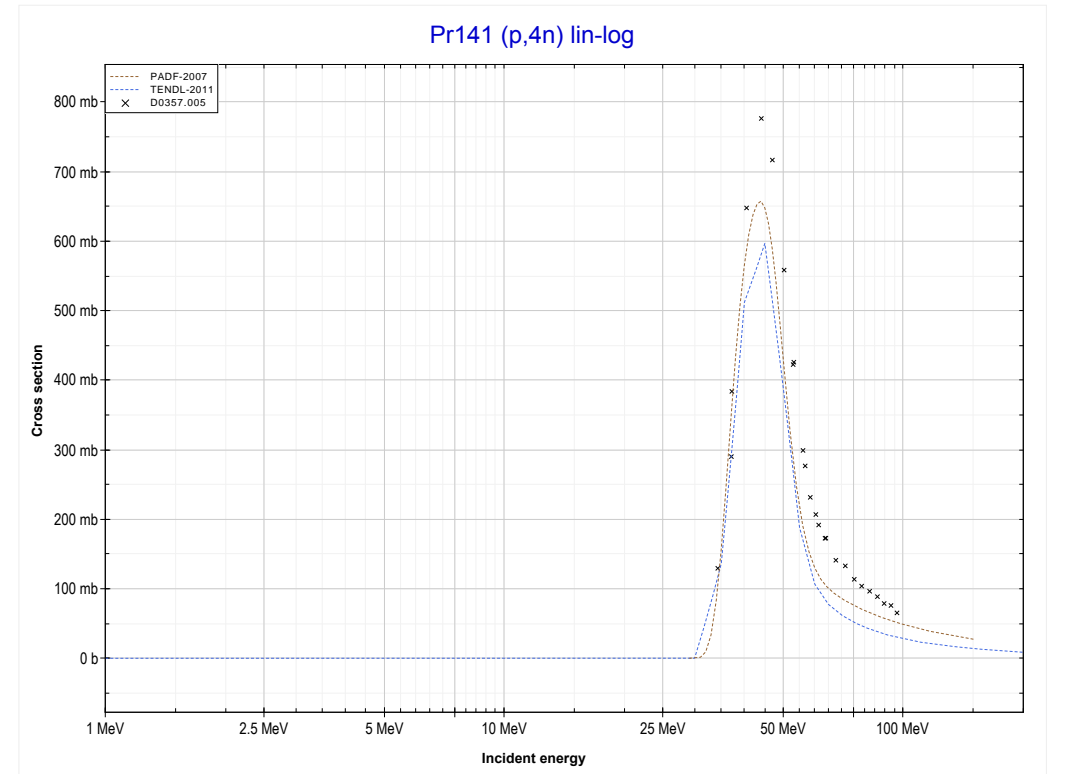
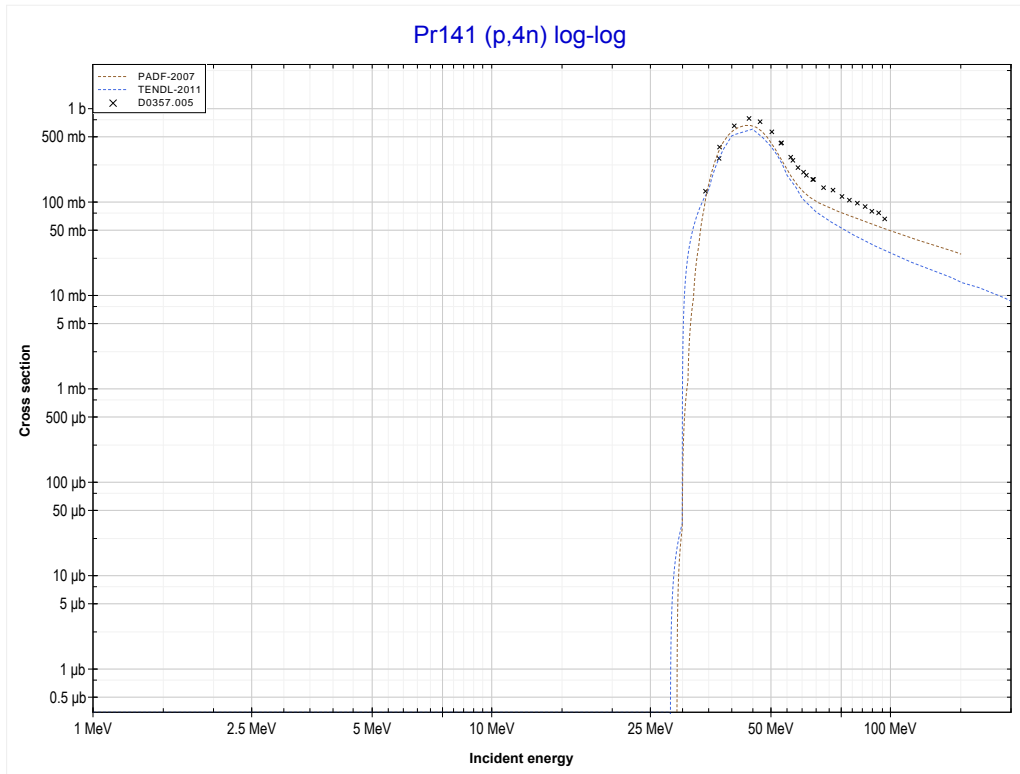
Reaction	Q-Value
Pr141(p,2n)Nd140	-10622.56 keV

<< 58-Ce-140	<b>59-Pr-141</b>	63-Eu-151 >>
<< MT16 (p,2n)	<b>MT17 (p,3n) or MT5 (Nd139 production)</b>	MT37 (p,4n) >>



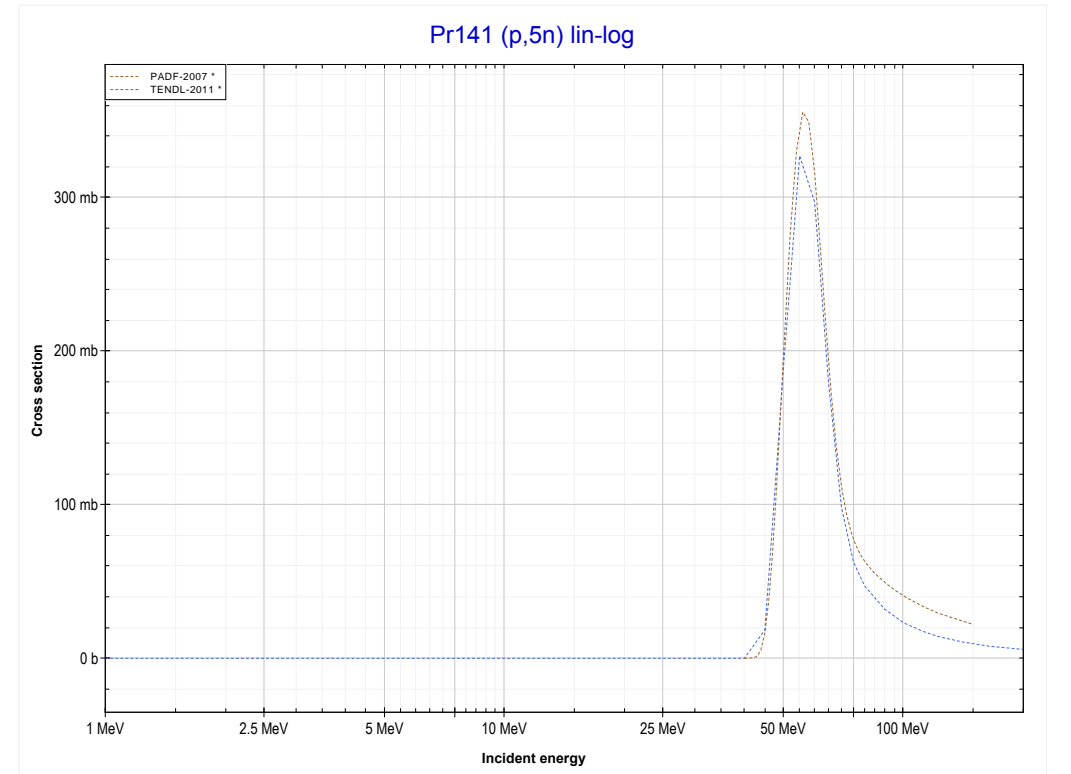
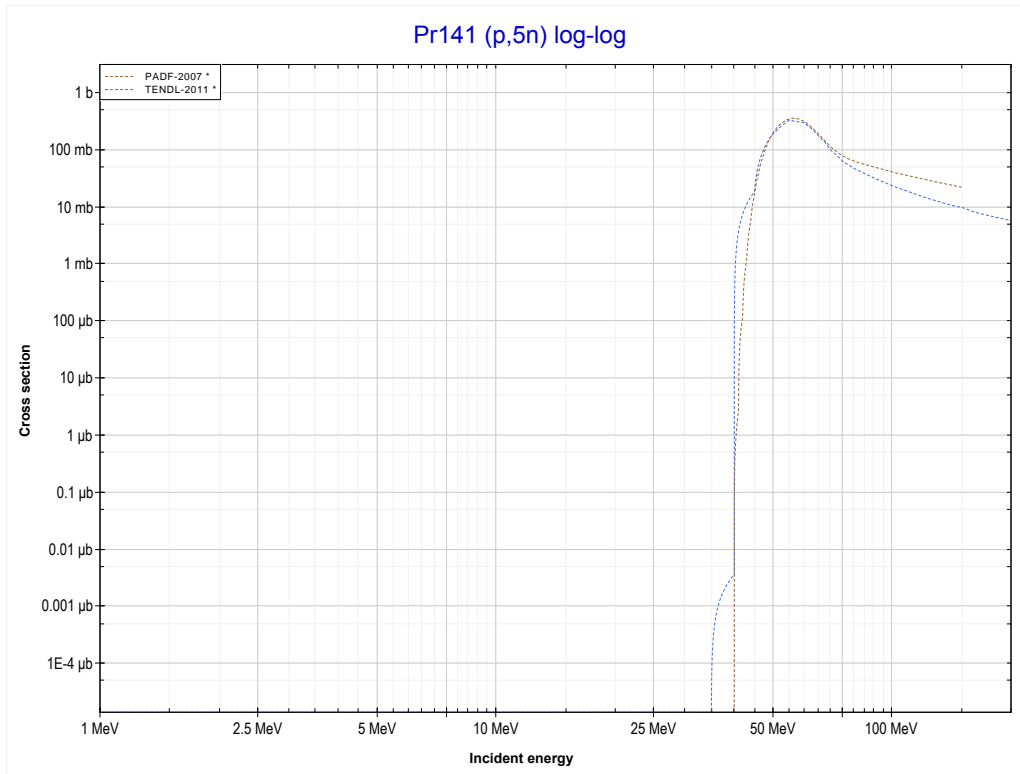
Reaction	Q-Value
Pr141(p,3n)Nd139	-20953.88 keV

<< 52-Te-126	<b>59-Pr-141</b>	69-Tm-169 >>
<< MT17 (p,3n)	<b>MT37 (p,4n) or MT5 (Nd138 production)</b>	MT152 (p,5n) >>



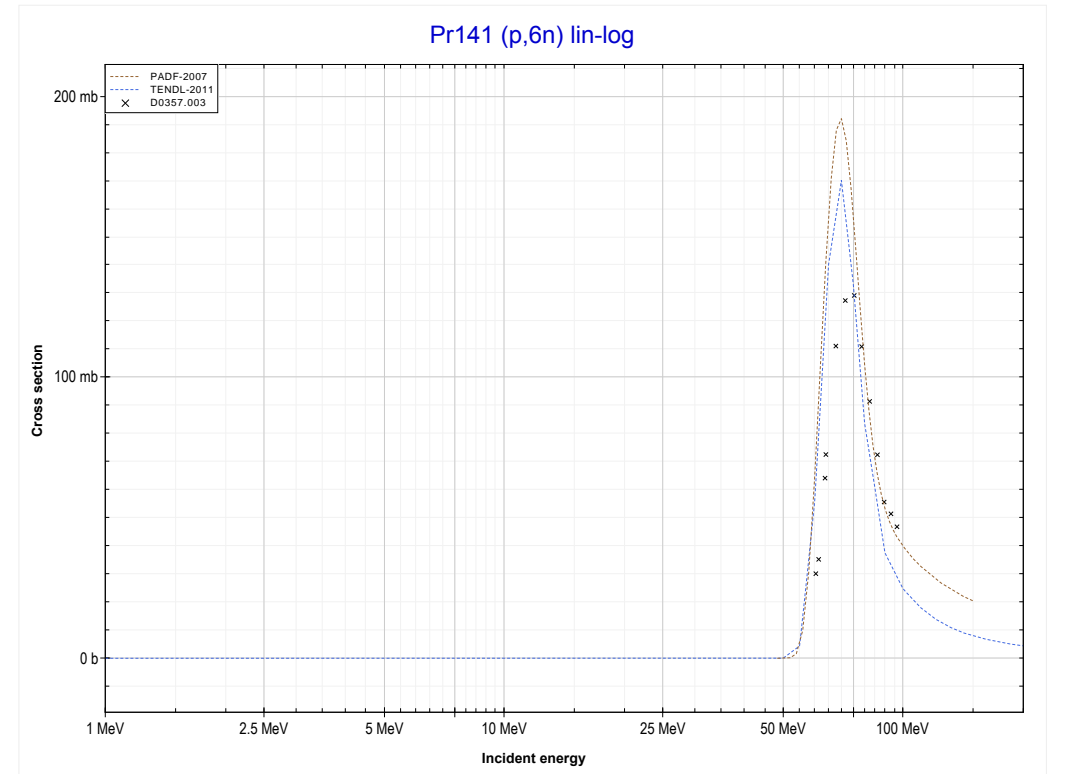
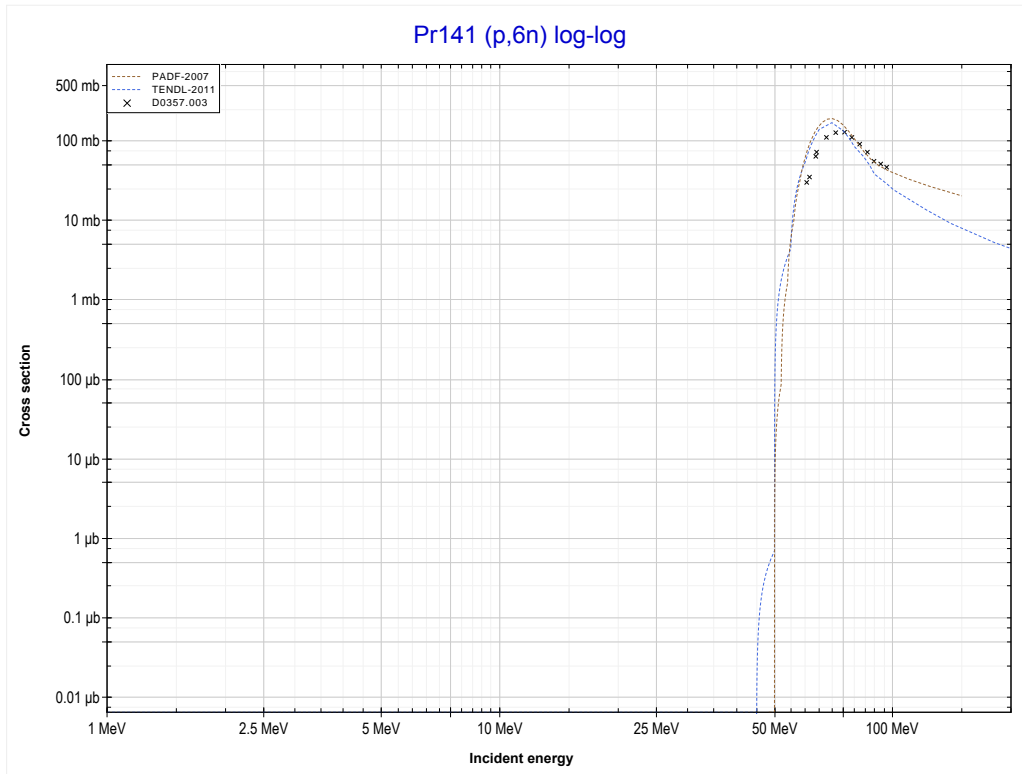
Reaction	Q-Value
Pr141(p,4n)Nd138	-28999.20 keV

<< 55-Cs-133	<b>59-Pr-141</b>	73-Ta-181 >>
<< MT37 (p,4n)	<b>MT152 (p,5n) or MT5 (Nd137 production)</b>	MT153 (p,6n) >>



Reaction	Q-Value
Pr141(p,5n)Nd137	-39508.51 keV

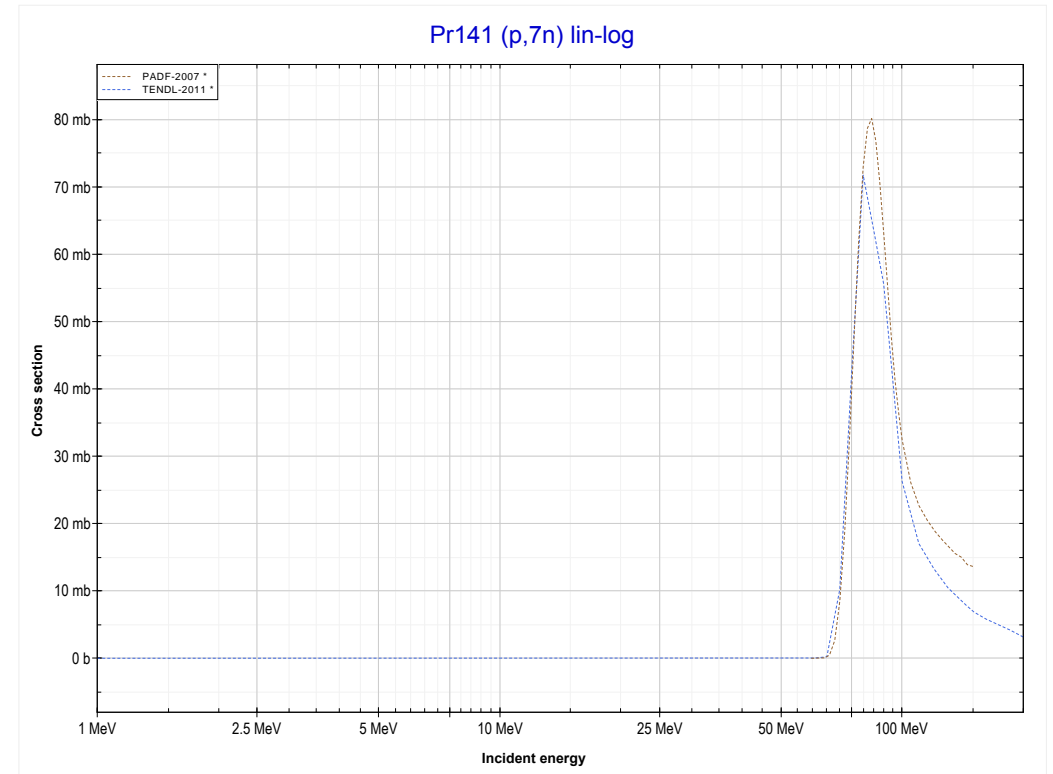
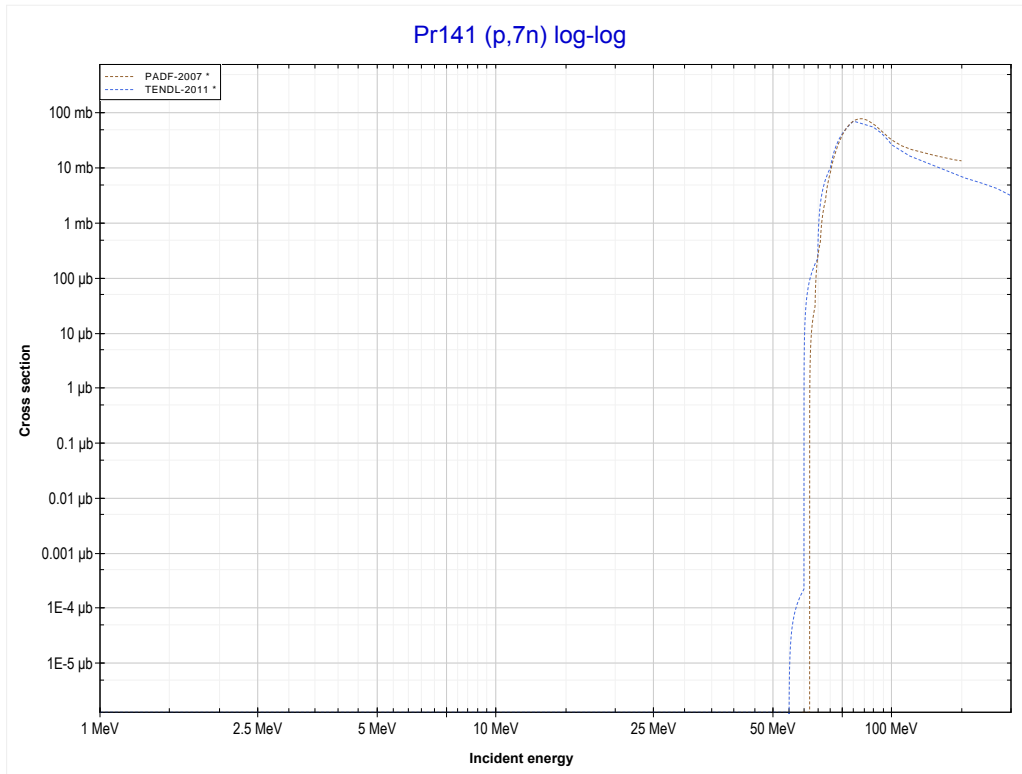
<< 55-Cs-133	<b>59-Pr-141</b>	76-Os-192 >>
<< MT152 (p,5n)	<b>MT153 (p,6n) or MT5 (Nd136 production)</b>	MT160 (p,7n) >>



Reaction	Q-Value
Pr141(p,6n)Nd136	-47960.83 keV

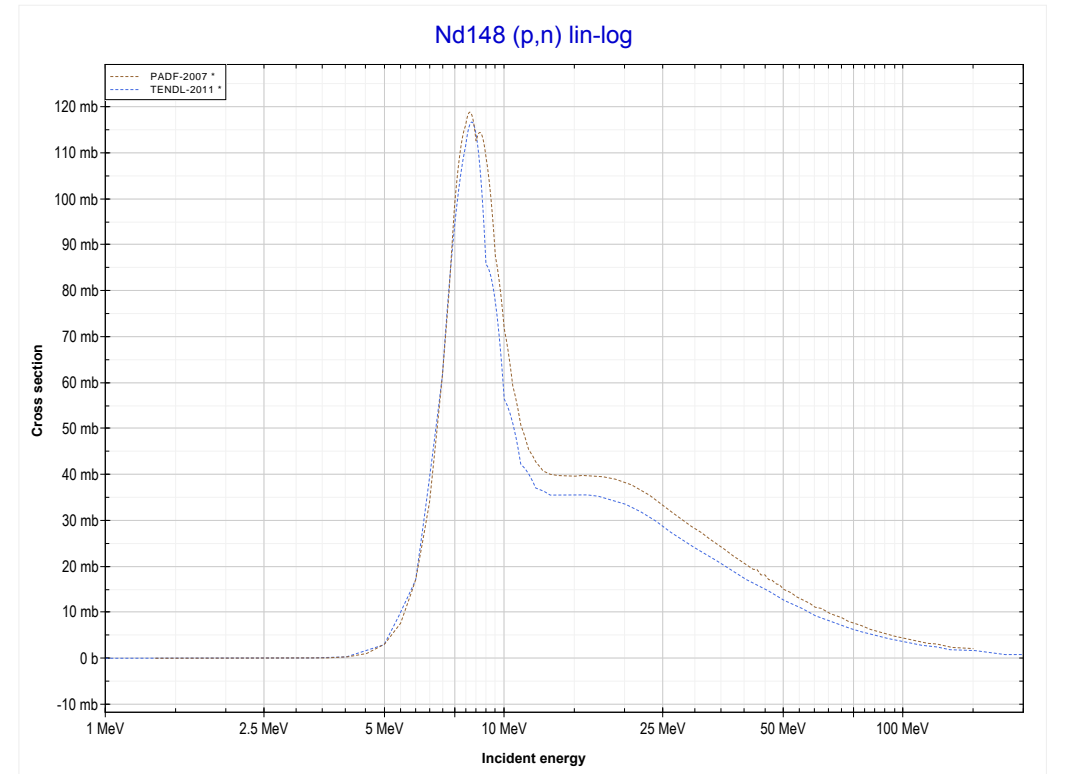
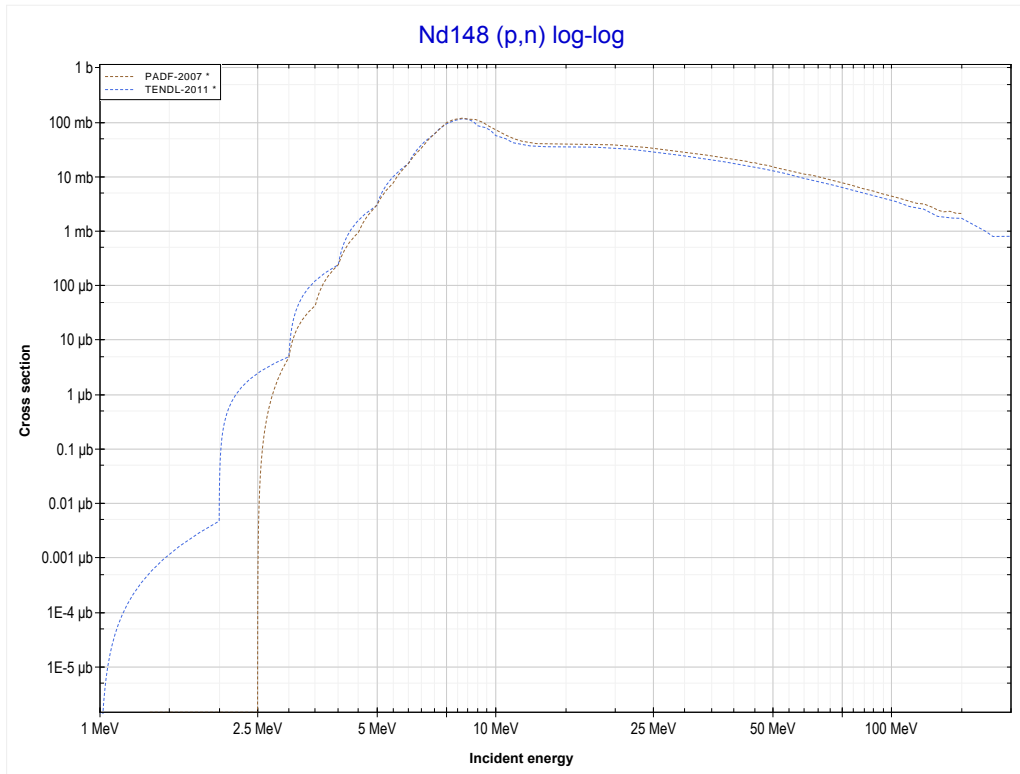


<< 53-I-127	<b>59-Pr-141</b>	76-Os-192 >>
<< MT153 (p,6n)	<b>MT160 (p,7n) or MT5 (Nd135 production)</b>	MT4 (p,n) >>



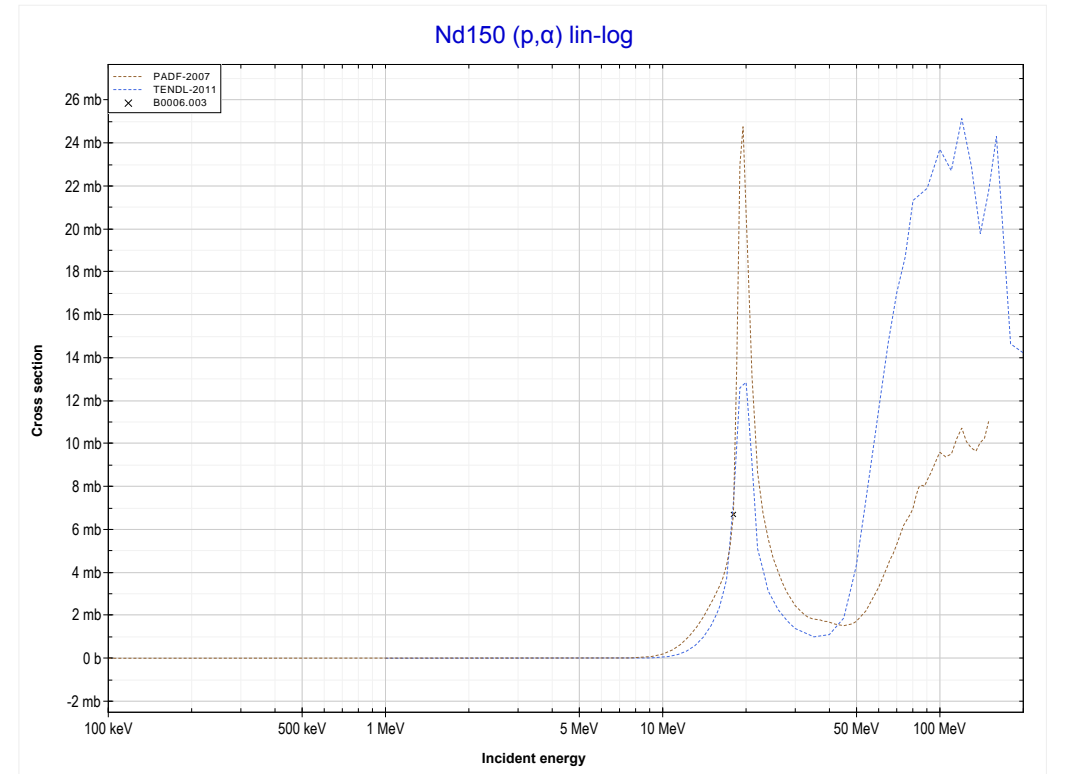
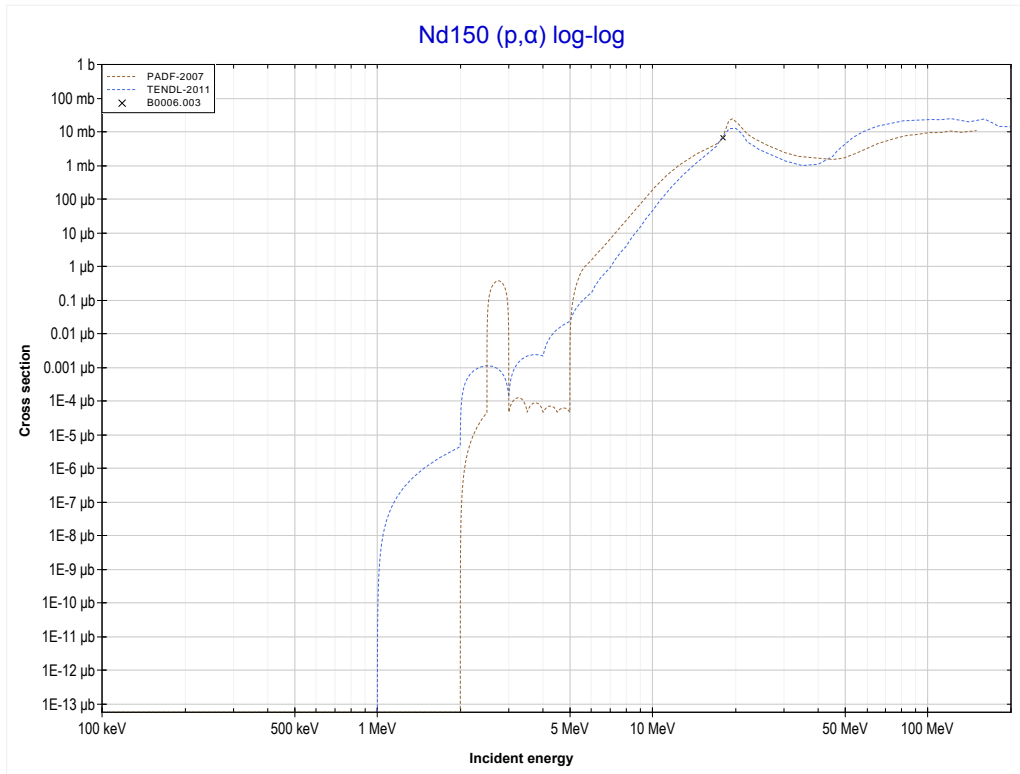
Reaction	Q-Value
Pr141(p,7n)Nd135	-59017.15 keV

<< 59-Pr-141	<b>60-Nd-148</b>	62-Sm-147 >>
<< MT160 (p,7n)	<b>MT4 (p,n) or MT5 (Pm148 production)</b>	MT107 (p, $\alpha$ ) >>



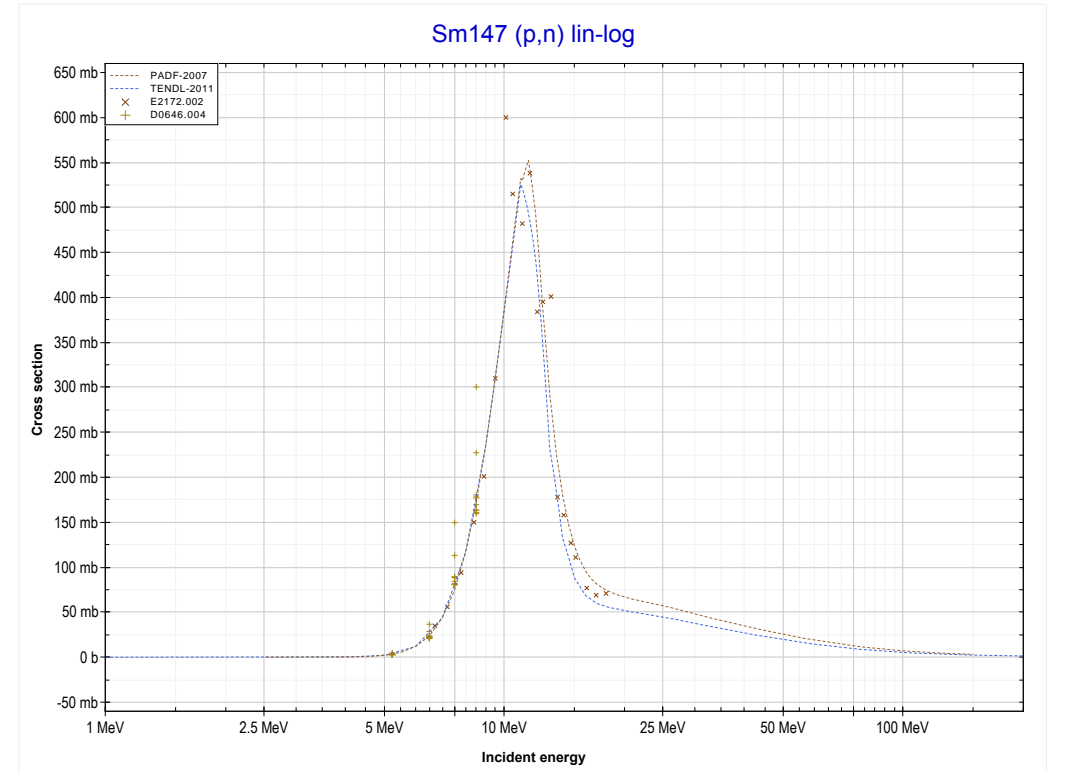
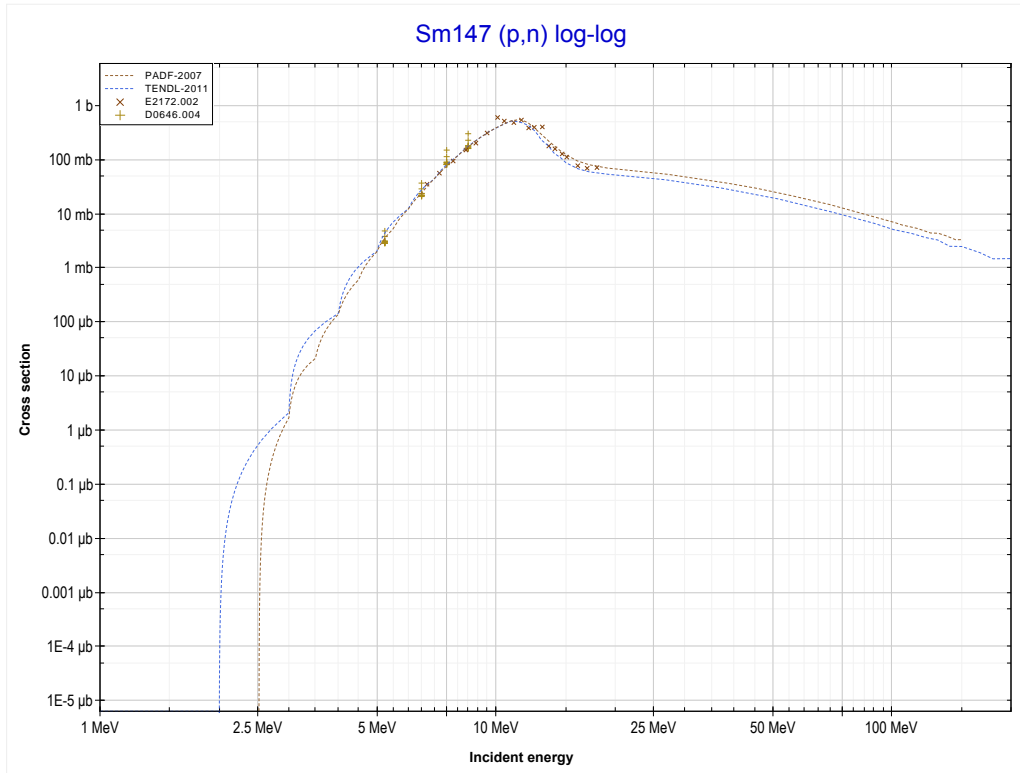
Reaction	Q-Value
Nd148(p,n)Pm148	-1323.75 keV

<< 58-Ce-140	<b>60-Nd-150</b>	62-Sm-147 >>
<< MT4 (p,n)	<b>MT107 (p,<math>\alpha</math>) or MT5 (Pr147 production)</b>	MT4 (p,n) >>



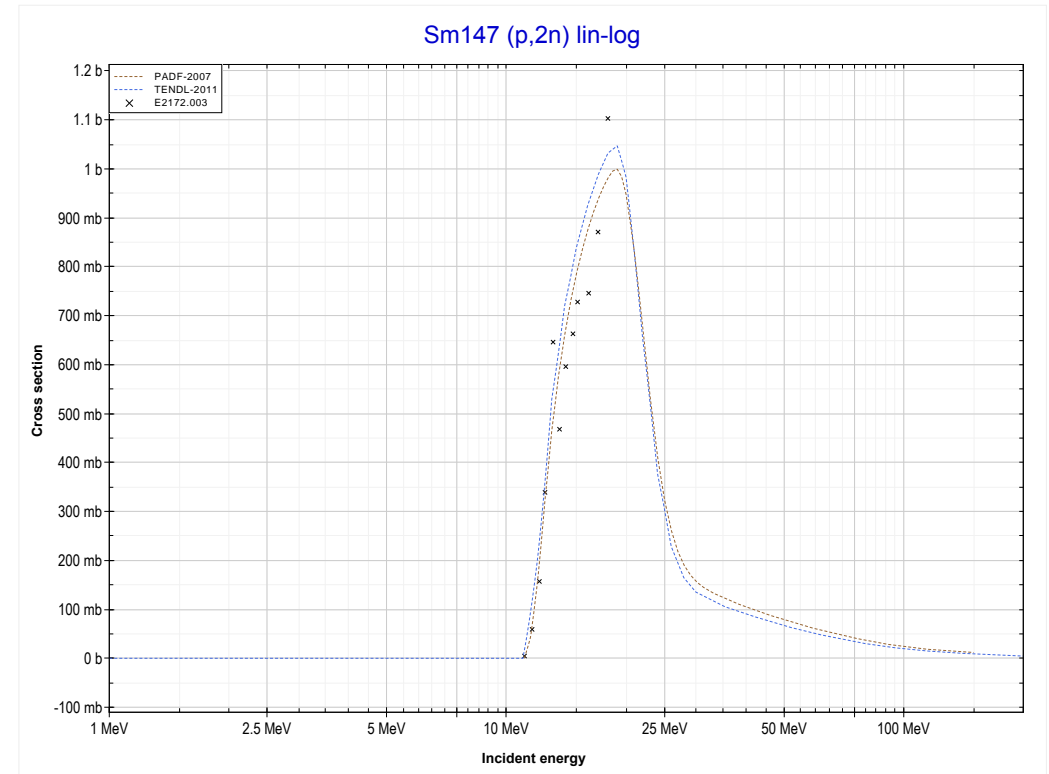
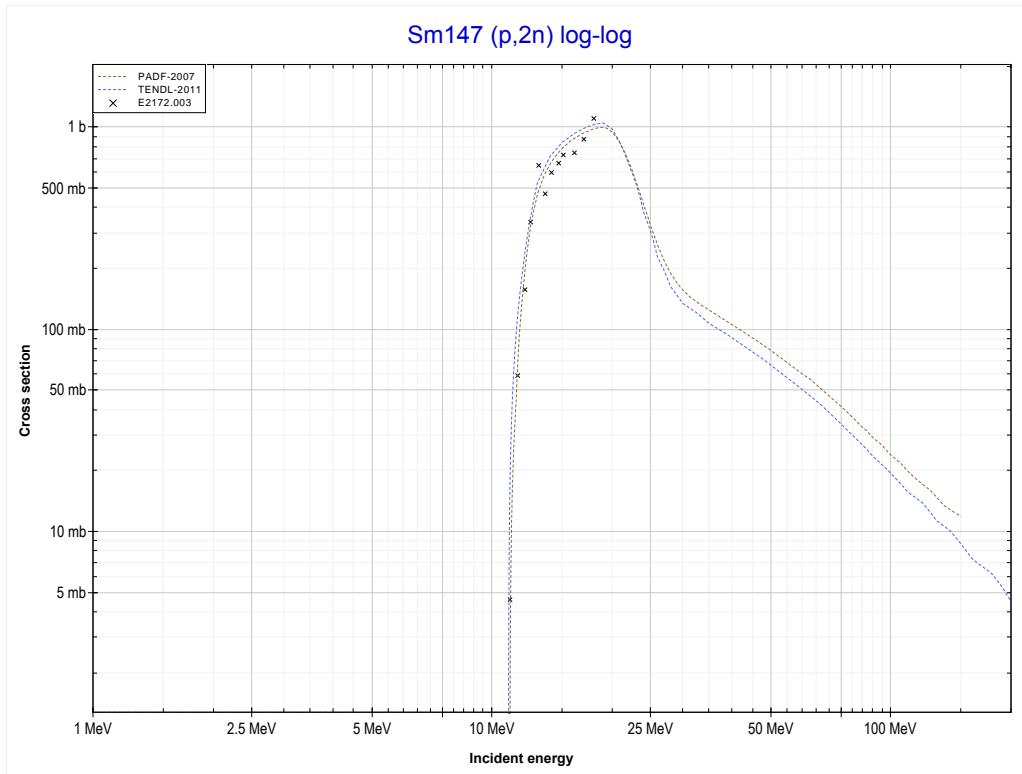
Reaction	Q-Value
Nd150(p, $\alpha$ )Pr147	6629.05 keV
Nd150(p,p+t)Pr147	-13184.81 keV
Nd150(p,n+He3)Pr147	-13948.56 keV
Nd150(p,2d)Pr147	-17217.47 keV
Nd150(p,n+p+d)Pr147	-19442.04 keV
Nd150(p,2n+2p)Pr147	-21666.60 keV

<< 60-Nd-148	<b>62-Sm-147</b>	62-Sm-148 >>
<< MT107 (p, $\alpha$ )	<b>MT4 (p,n) or MT5 (Eu147 production)</b>	MT16 (p,2n) >>



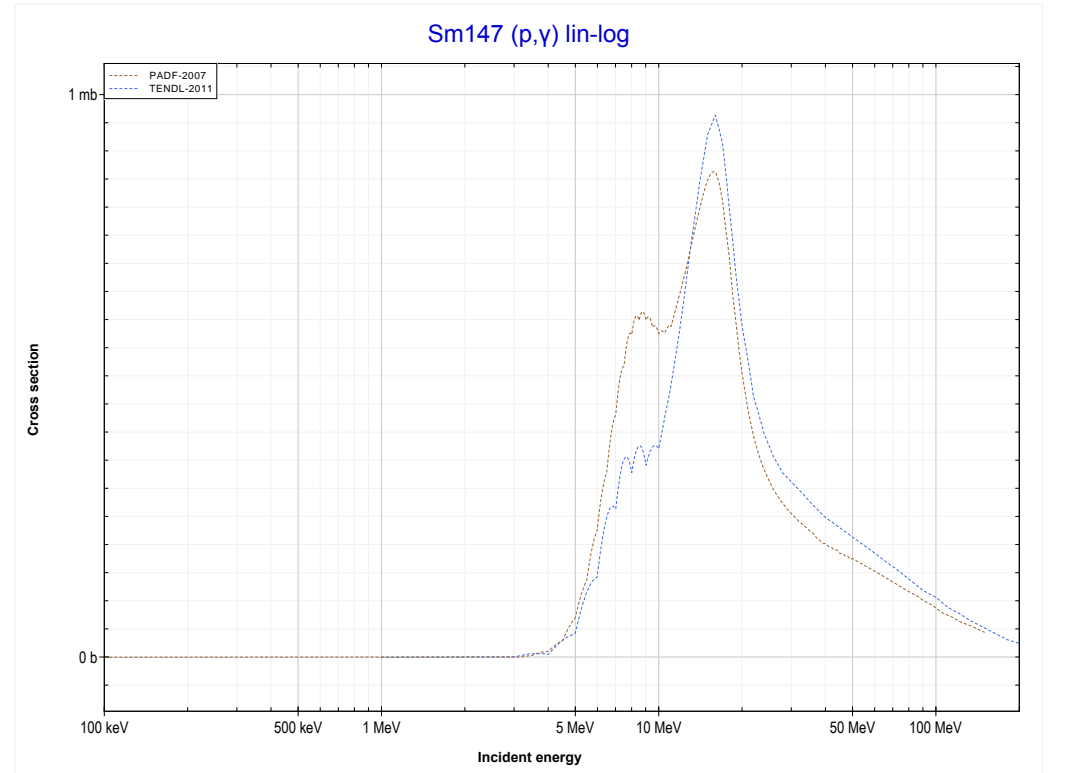
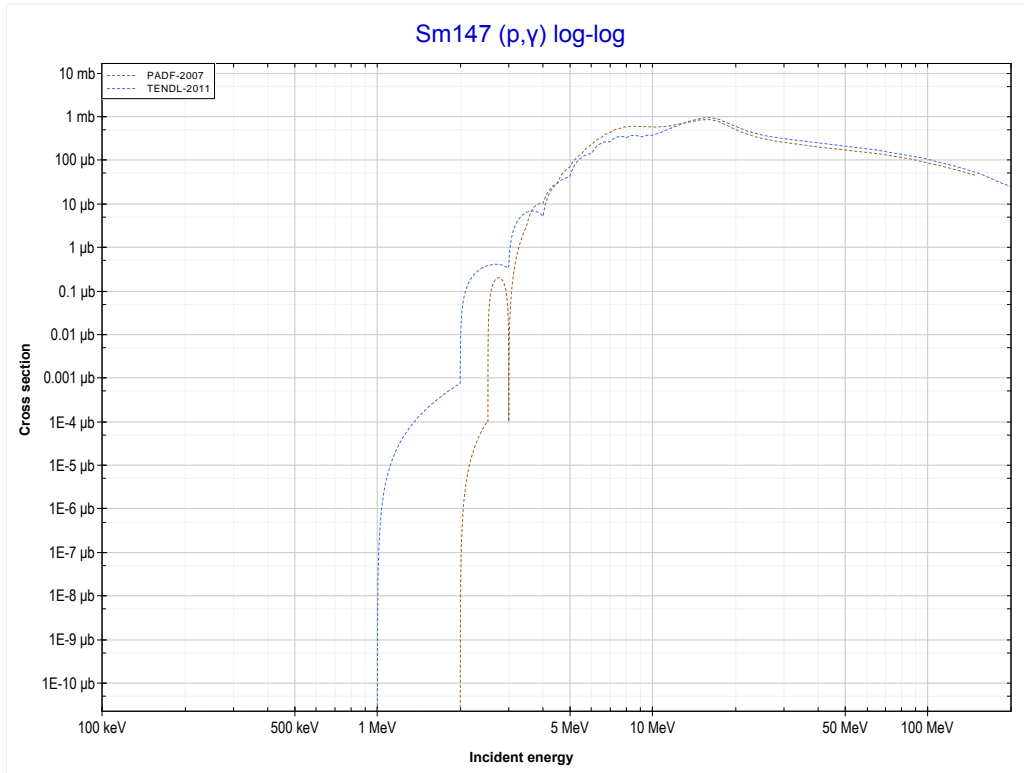
Reaction	Q-Value
Sm147(p,n)Eu147	-2504.45 keV

<< 59-Pr-141	<b>62-Sm-147</b>	68-Er-166 >>
<< MT4 (p,n)	<b>MT16 (p,2n) or MT5 (Eu146 production)</b>	MT102 (p, $\gamma$ ) >>



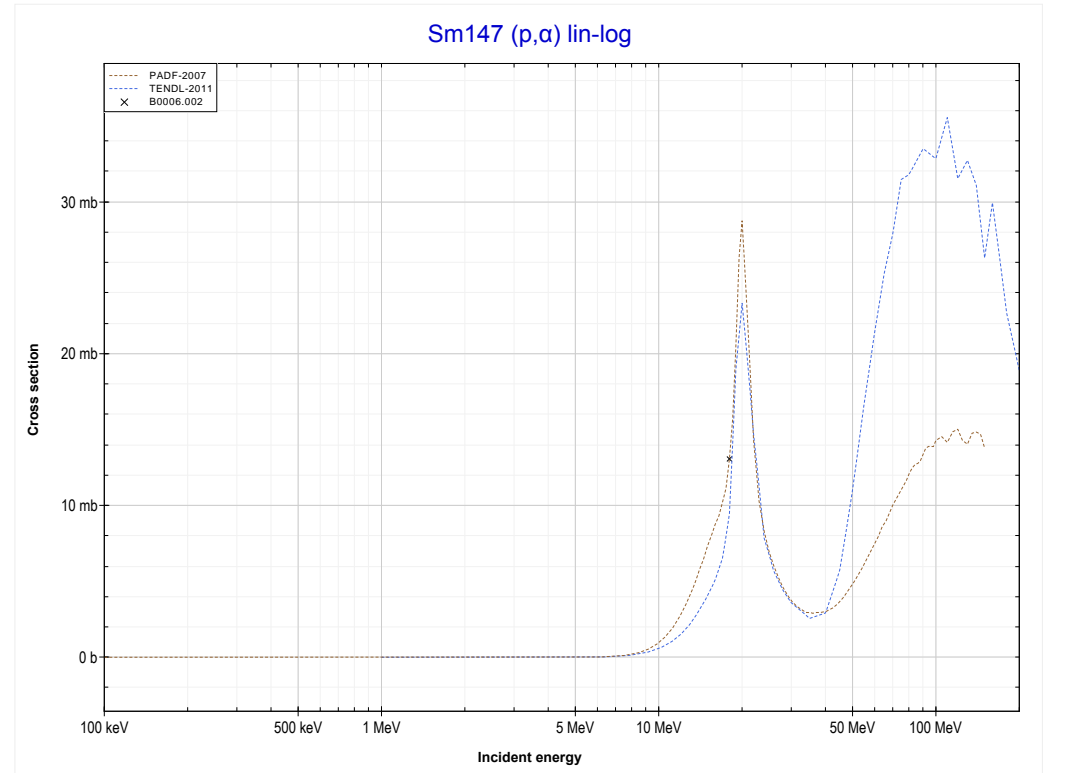
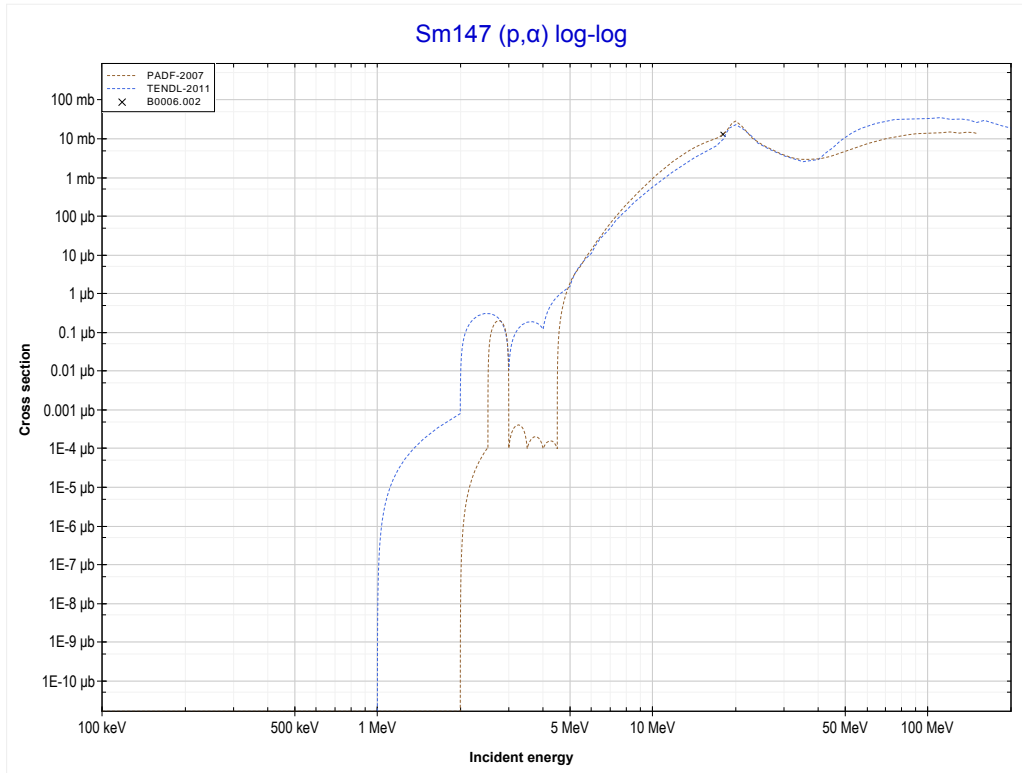
Reaction	Q-Value
Sm147(p,2n)Eu146	-11003.76 keV

<< 58-Ce-142	<b>62-Sm-147</b>	62-Sm-149 >>
<< MT16 (p,2n)	<b>MT102 (p,<math>\gamma</math>) or MT5 (Eu148 production)</b>	MT107 (p, $\alpha$ ) >>



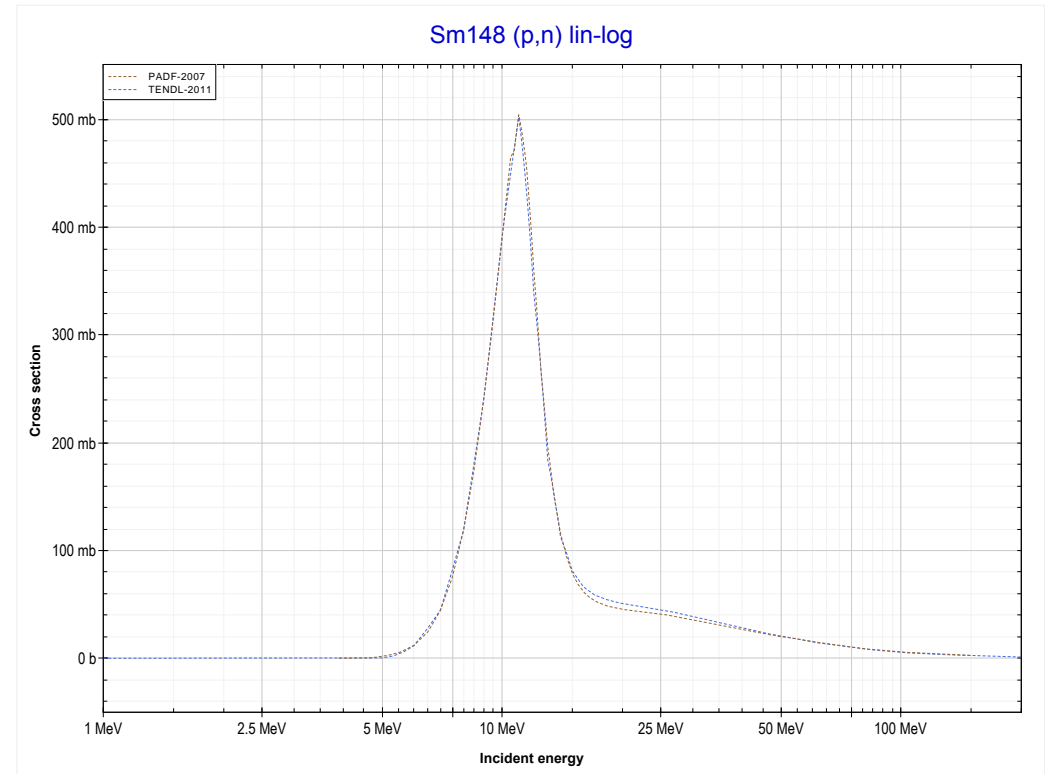
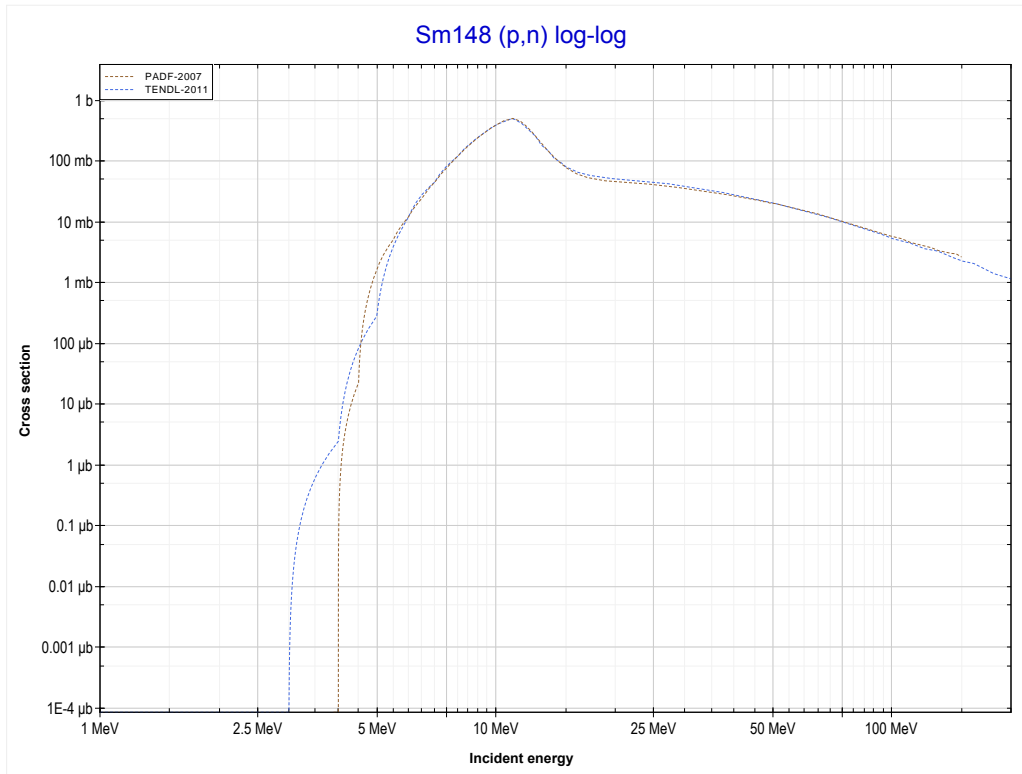
Reaction	Q-Value
Sm147(p, $\gamma$ )Eu148	4318.87 keV

<< 60-Nd-150	<b>62-Sm-147</b>	62-Sm-150 >>
<< MT102 (p, $\gamma$ )	<b>MT107 (p,<math>\alpha</math>) or MT5 (Pm144 production)</b>	MT4 (p,n) >>



Reaction	Q-Value
Sm147(p, $\alpha$ )Pm144	7012.95 keV
Sm147(p,p+t)Pm144	-12800.91 keV
Sm147(p,n+He3)Pm144	-13564.66 keV
Sm147(p,2d)Pm144	-16833.57 keV
Sm147(p,n+p+d)Pm144	-19058.14 keV
Sm147(p,2n+2p)Pm144	-21282.70 keV

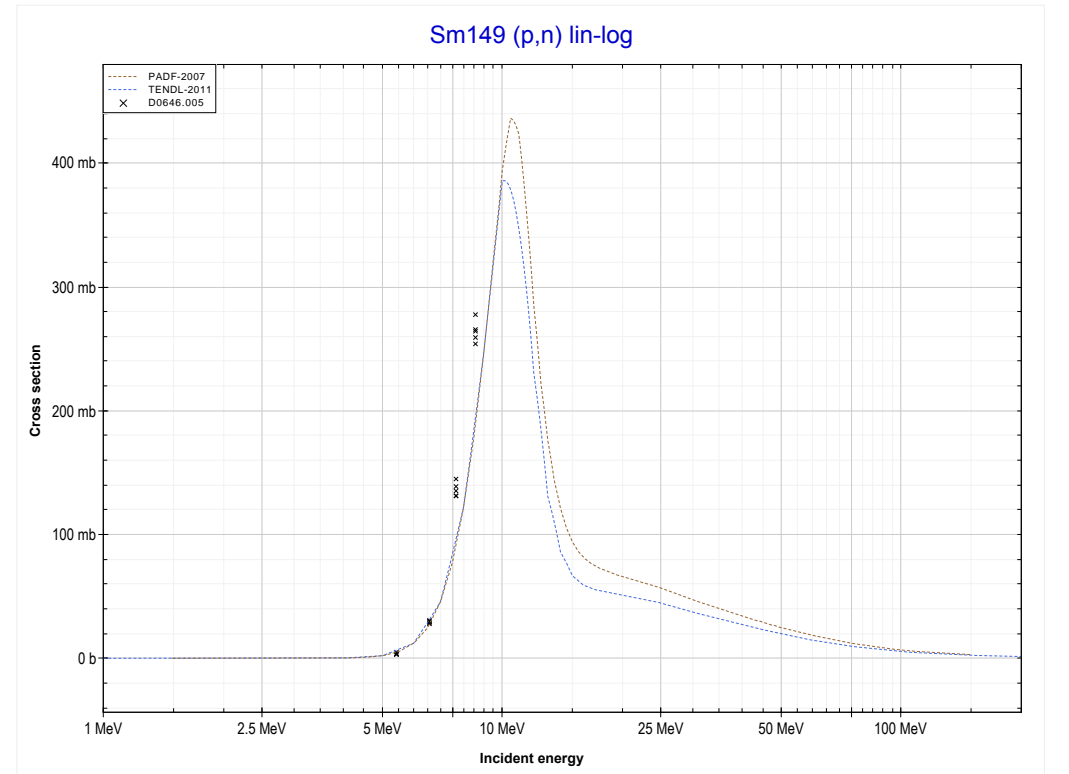
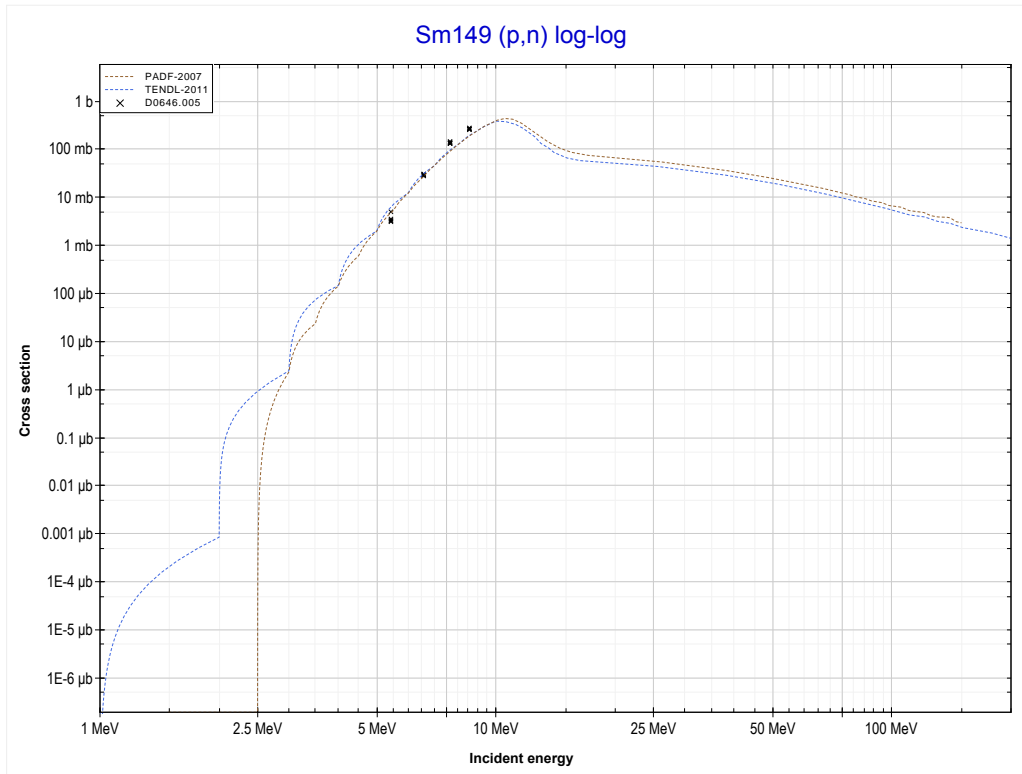
<< 62-Sm-147	<b>62-Sm-148</b>	62-Sm-149 >>
<< MT107 (p, $\alpha$ )	<b>MT4 (p,n) or MT5 (Eu148 production)</b>	MT4 (p,n) >>



Reaction	Q-Value
Sm148(p,n)Eu148	-3822.55 keV

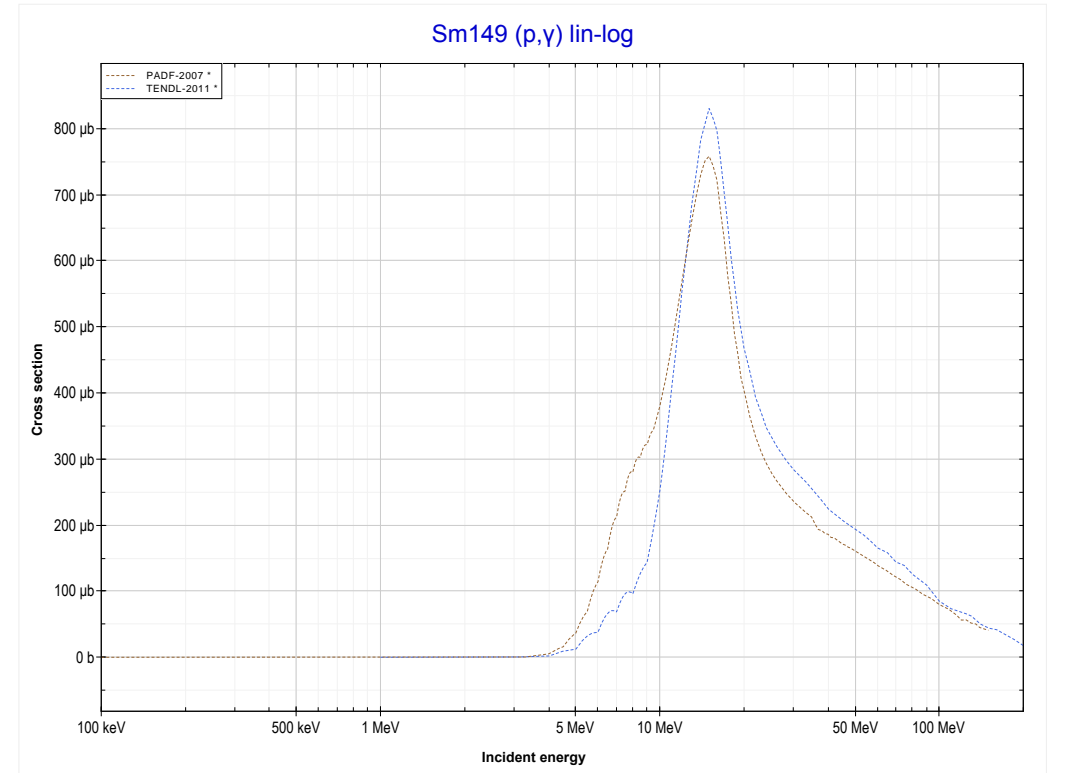
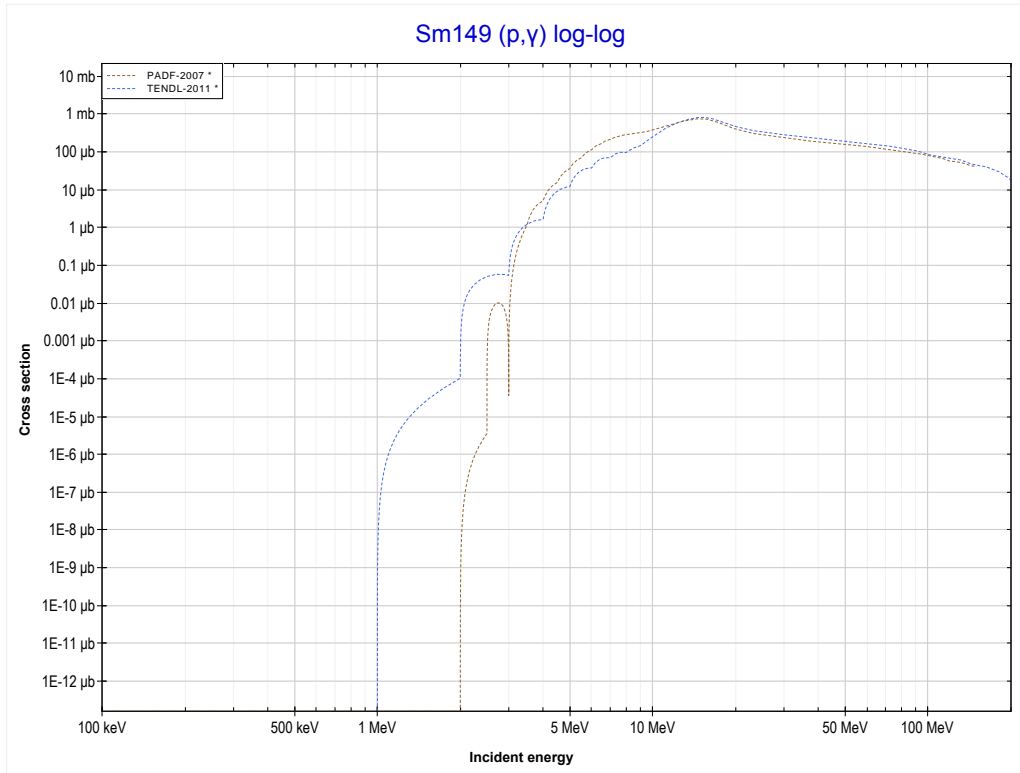


<< 62-Sm-148	<b>62-Sm-149</b>	63-Eu-151 >>
<< MT4 (p,n)	<b>MT4 (p,n) or MT5 (Eu149 production)</b>	MT102 (p, $\gamma$ ) >>



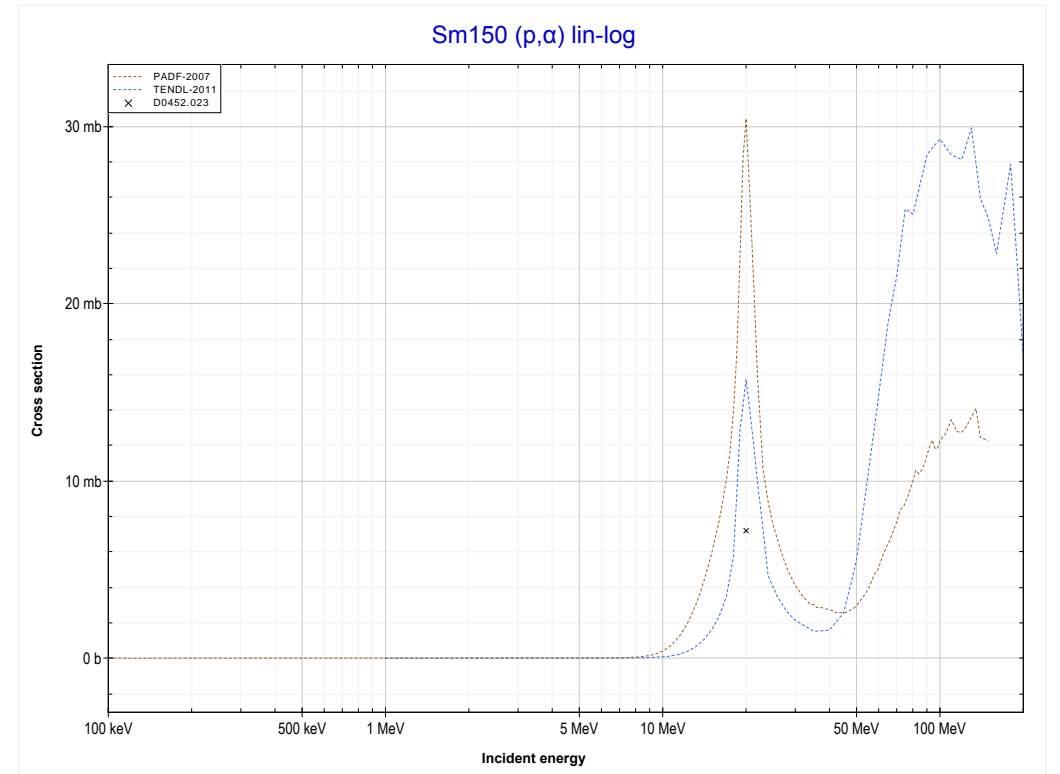
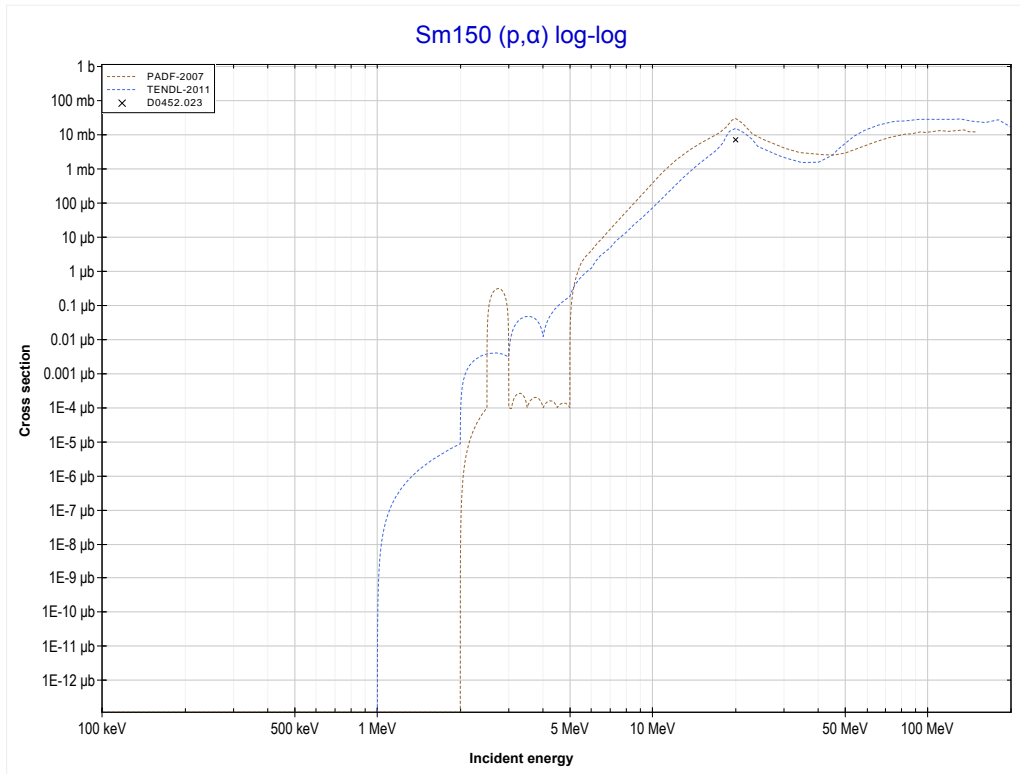
Reaction	Q-Value
Sm149(p,n)Eu149	-1477.25 keV

<< 62-Sm-147	<b>62-Sm-149</b>	83-Bi-209 >>
<< MT4 (p,n)	<b>MT102 (p,<math>\gamma</math>) or MT5 (Eu150 production)</b>	MT107 (p, $\alpha$ ) >>



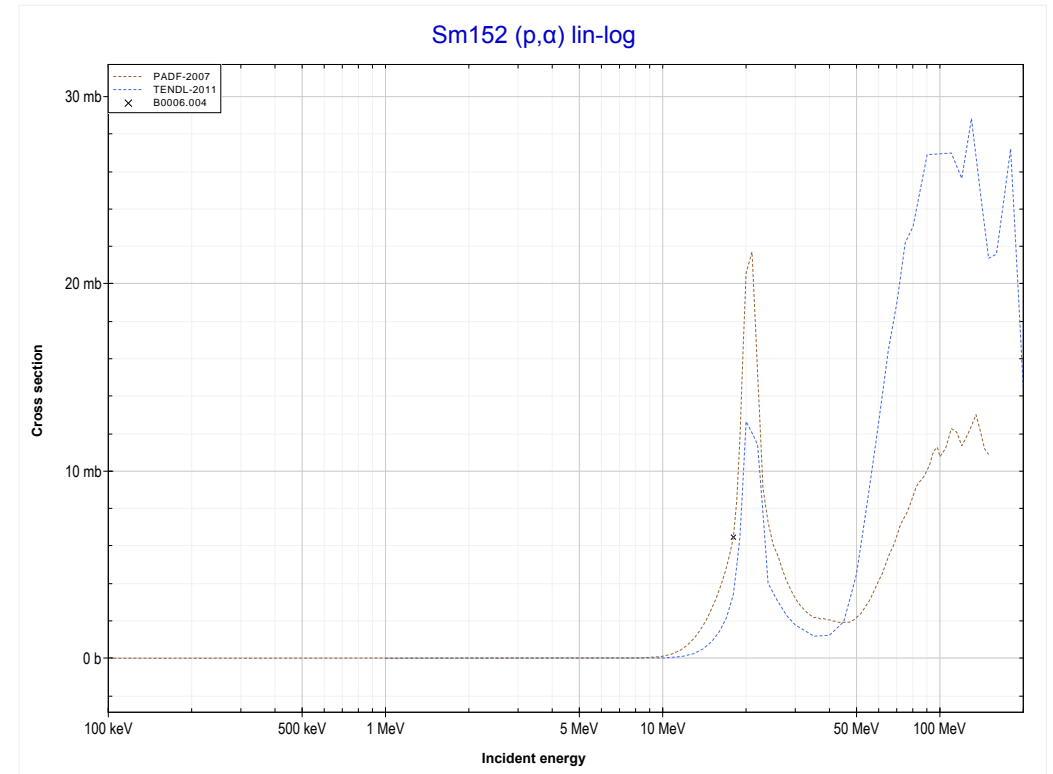
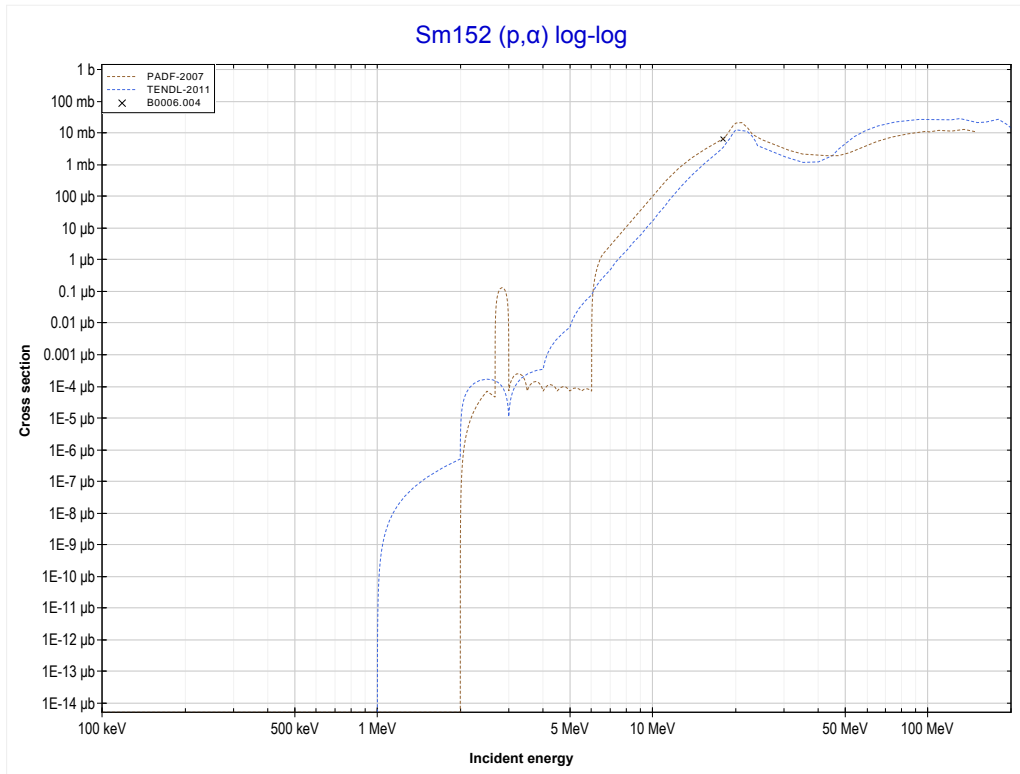
Reaction	Q-Value
Sm149(p, $\gamma$ )Eu150	4944.07 keV

<< 62-Sm-147	<b>62-Sm-150</b>	62-Sm-152 >>
<< MT102 (p, $\gamma$ )	<b>MT107 (p,<math>\alpha</math>) or MT5 (Pm147 production)</b>	MT107 (p, $\alpha$ ) >>



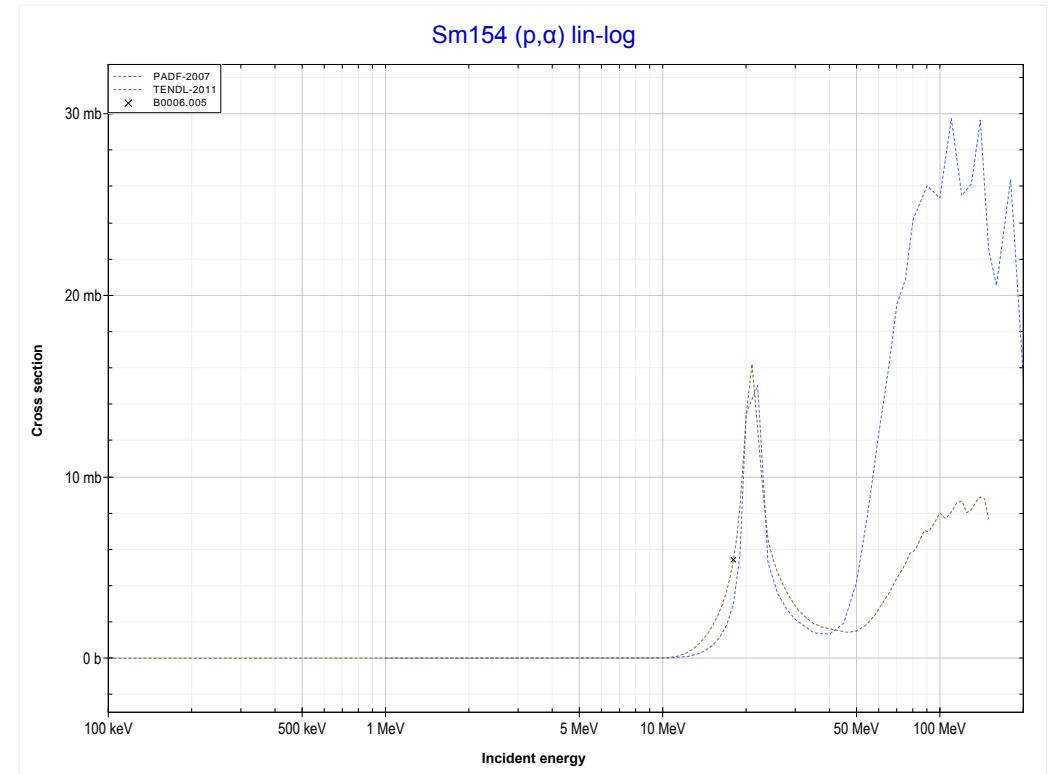
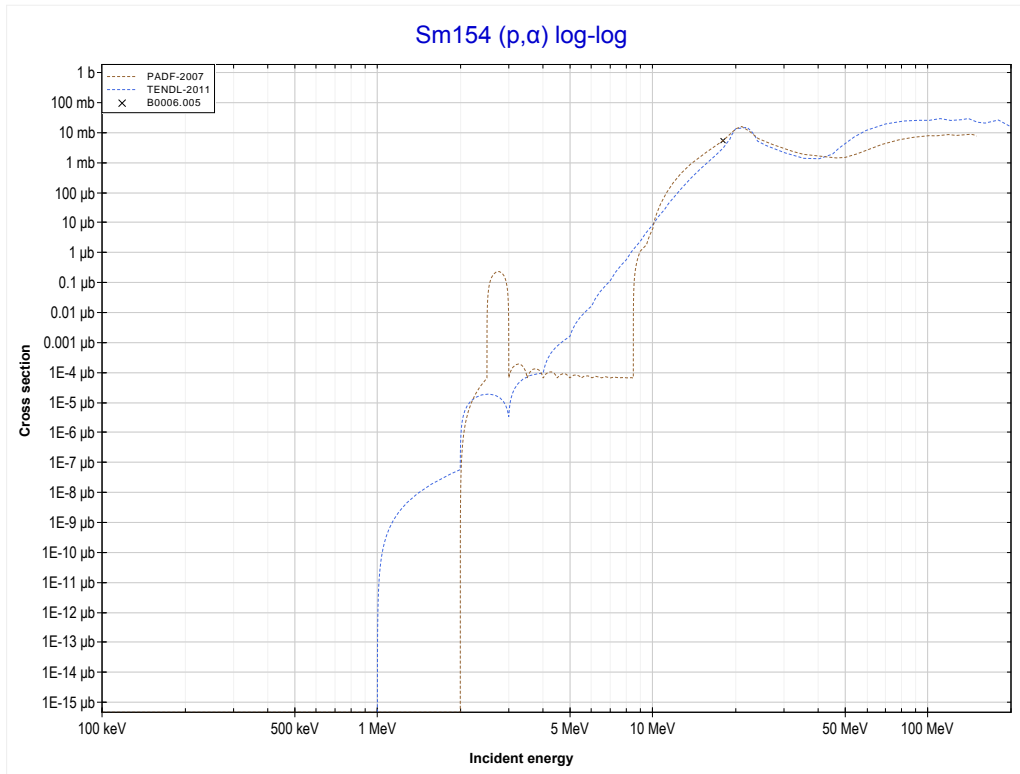
Reaction	Q-Value
Sm150(p, $\alpha$ )Pm147	6854.65 keV
Sm150(p,p+t)Pm147	-12959.21 keV
Sm150(p,n+He3)Pm147	-13722.96 keV
Sm150(p,2d)Pm147	-16991.87 keV
Sm150(p,n+p+d)Pm147	-19216.44 keV
Sm150(p,2n+2p)Pm147	-21441.00 keV

<< 62-Sm-150	<b>62-Sm-152</b>	62-Sm-154 >>
<< MT107 (p, $\alpha$ )	<b>MT107 (p,<math>\alpha</math>) or MT5 (Pm149 production)</b>	MT107 (p, $\alpha$ ) >>



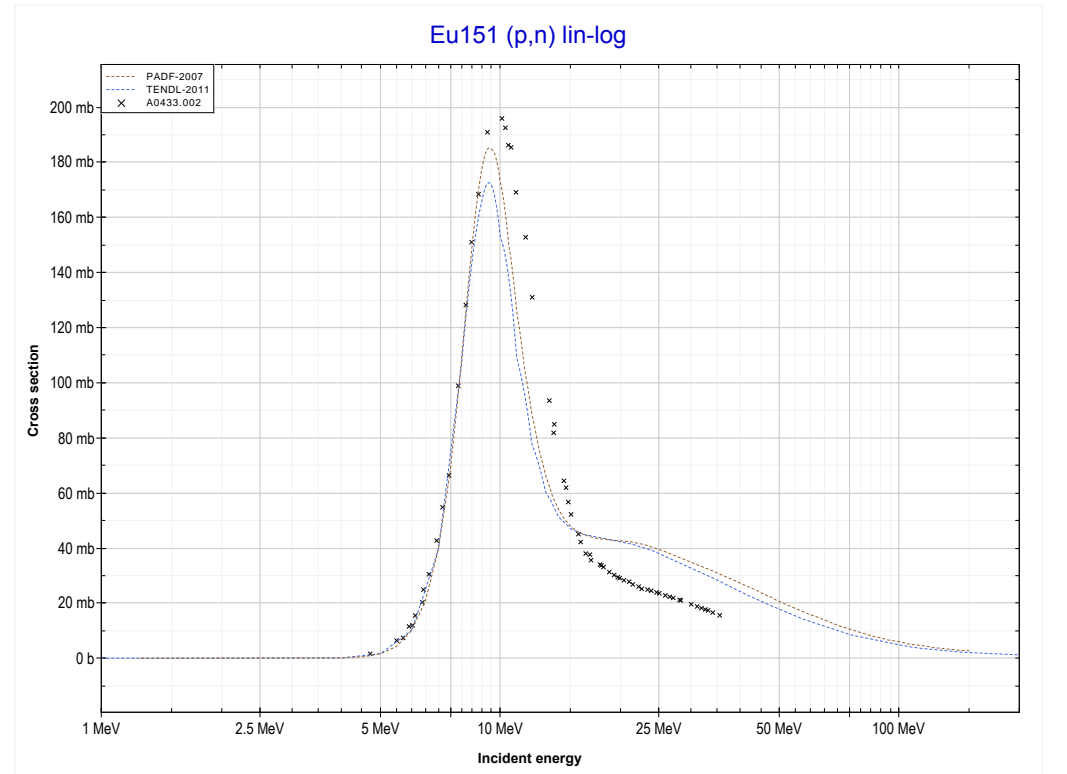
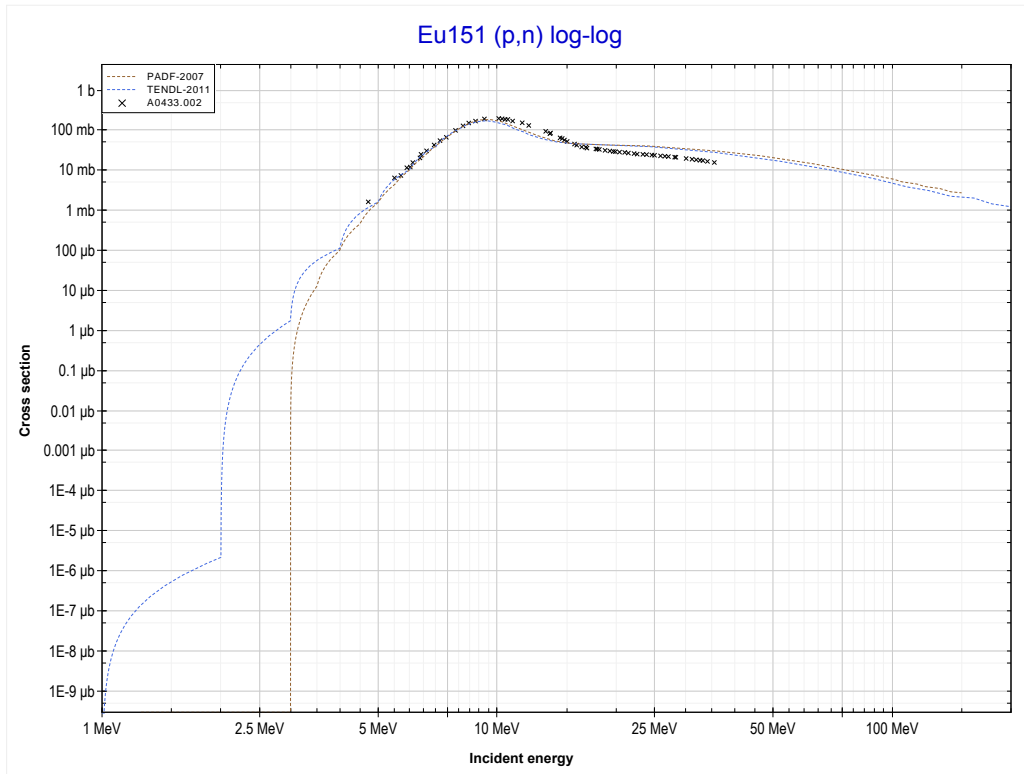
Reaction	Q-Value
Sm152(p, $\alpha$ )Pm149	6166.25 keV
Sm152(p,p+t)Pm149	-13647.61 keV
Sm152(p,n+He3)Pm149	-14411.36 keV
Sm152(p,2d)Pm149	-17680.27 keV
Sm152(p,n+p+d)Pm149	-19904.84 keV
Sm152(p,2n+2p)Pm149	-22129.40 keV

<< 62-Sm-152	<b>62-Sm-154</b>	64-Gd-156 >>
<< MT107 (p, $\alpha$ )	<b>MT107 (p,<math>\alpha</math>) or MT5 (Pm151 production)</b>	MT4 (p,n) >>



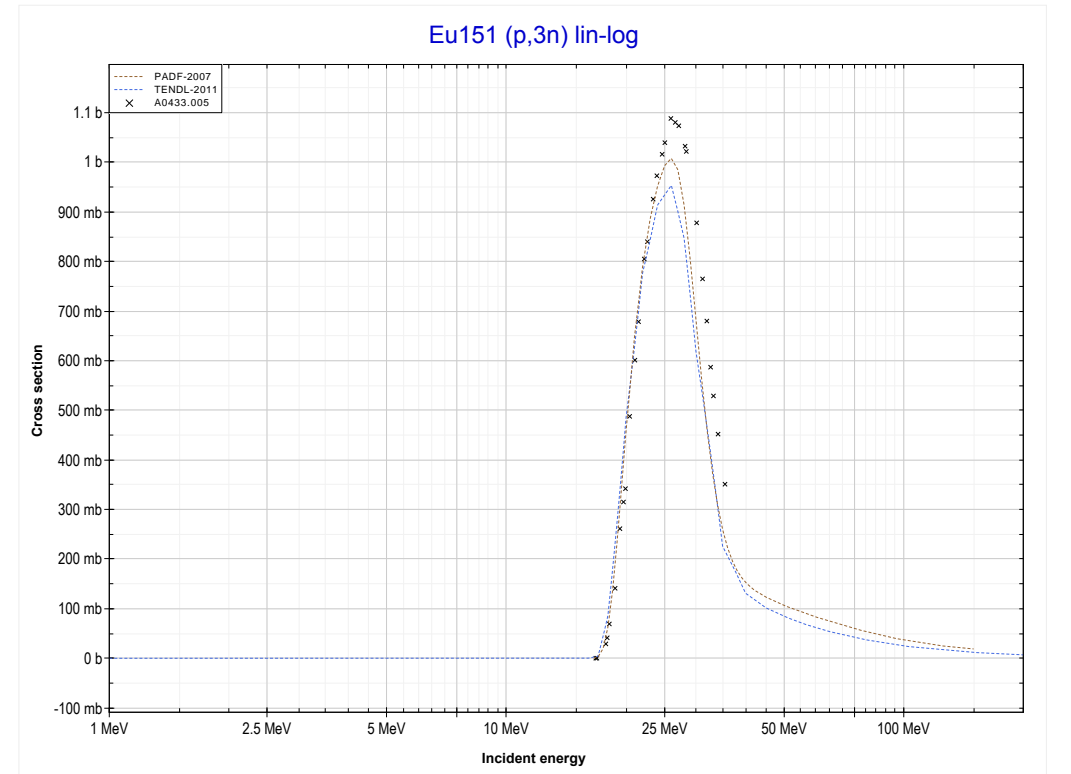
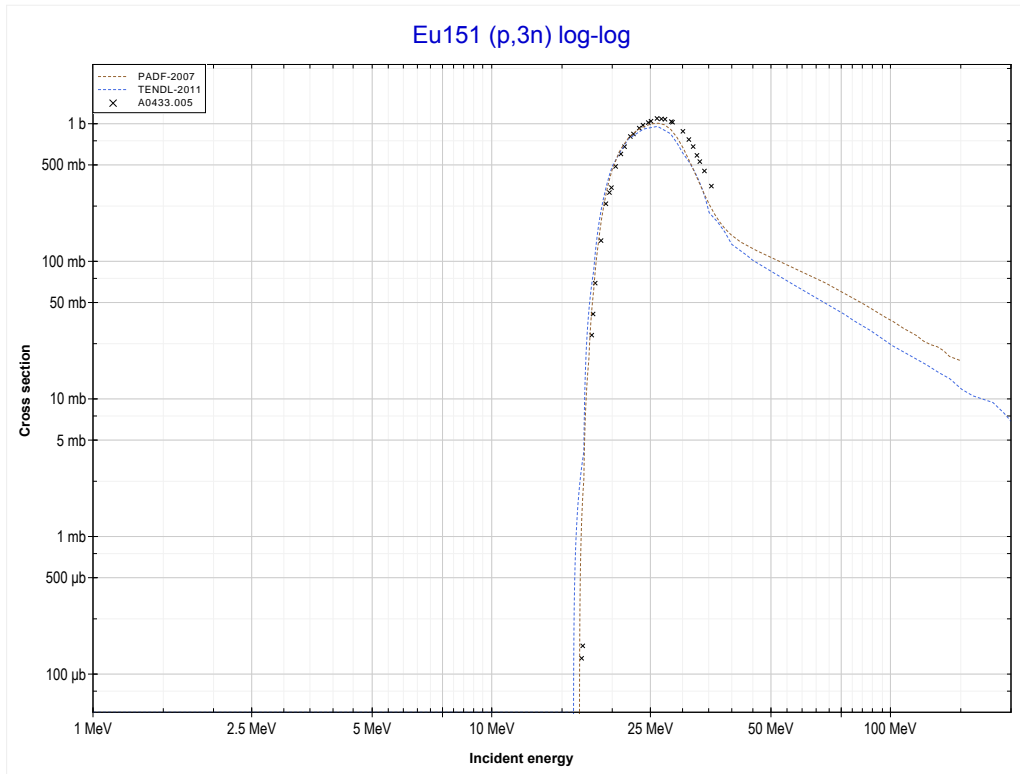
Reaction	Q-Value
Sm154(p, $\alpha$ )Pm151	5797.45 keV
Sm154(p,p+t)Pm151	-14016.41 keV
Sm154(p,n+He3)Pm151	-14780.16 keV
Sm154(p,2d)Pm151	-18049.07 keV
Sm154(p,n+p+d)Pm151	-20273.64 keV
Sm154(p,2n+2p)Pm151	-22498.20 keV

<< 62-Sm-149	<b>63-Eu-151</b>	63-Eu-153 >>
<< MT107 (p, $\alpha$ )	<b>MT4 (p,n) or MT5 (Gd151 production)</b>	MT17 (p,3n) >>



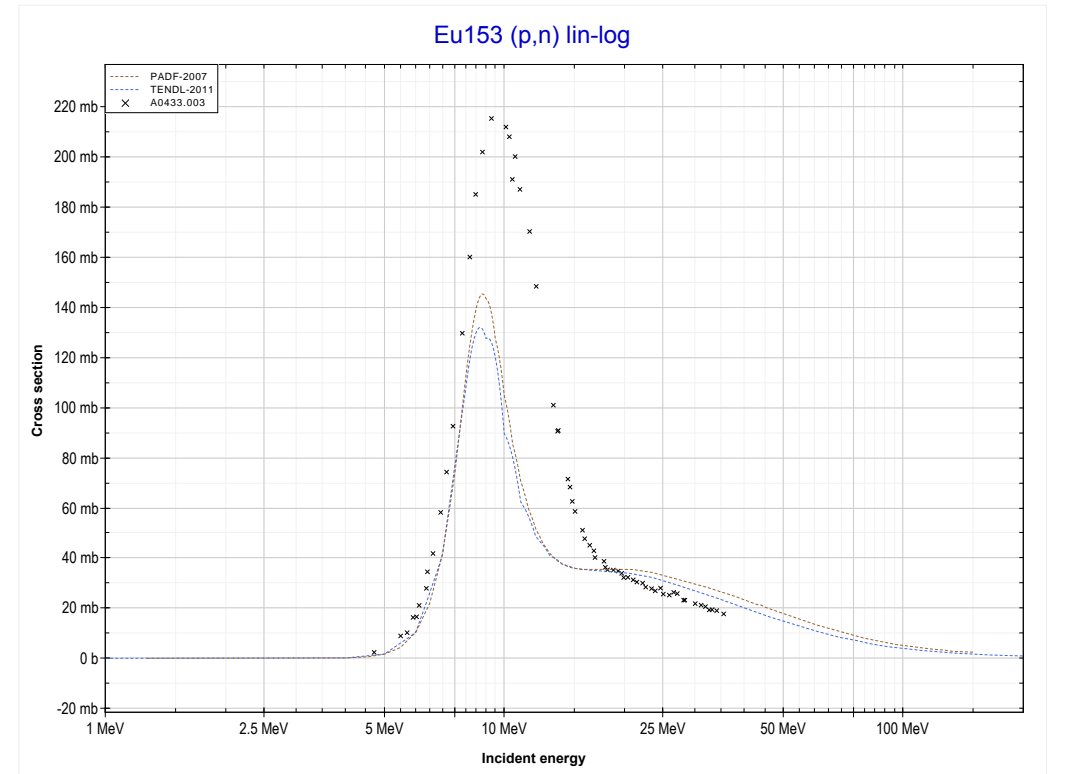
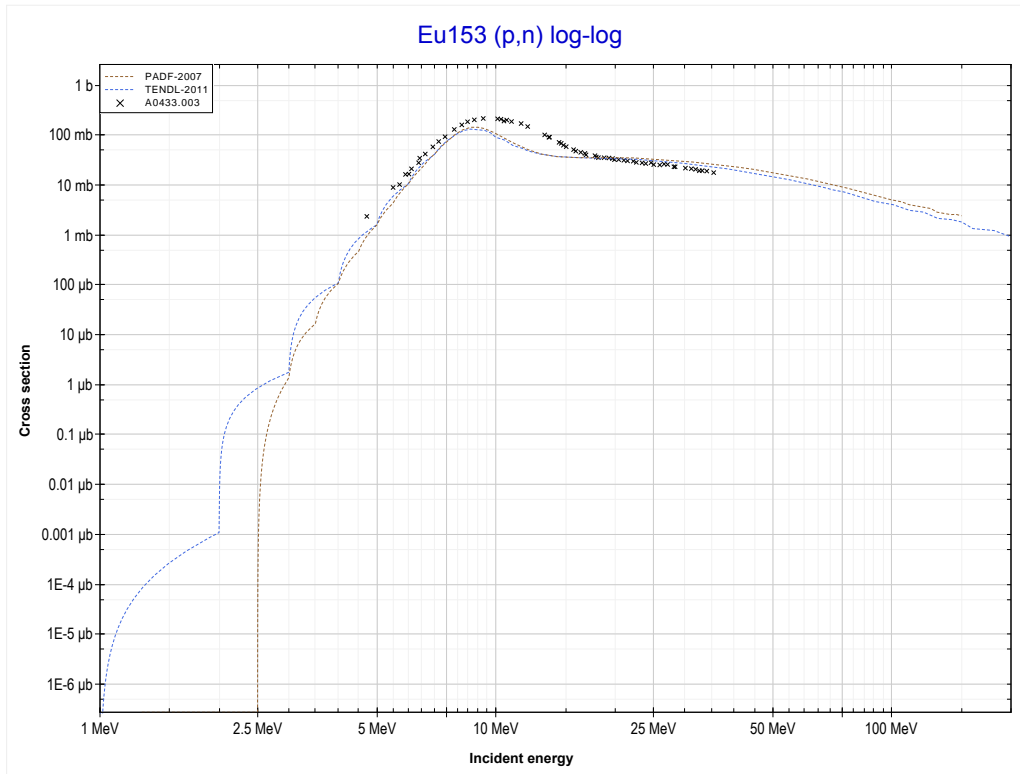
Reaction	Q-Value
Eu151(p,n)Gd151	-1246.45 keV

<< 59-Pr-141	<b>63-Eu-151</b>	63-Eu-153 >>
<< MT4 (p,n)	<b>MT17 (p,3n) or MT5 (Gd149 production)</b>	MT4 (p,n) >>



Reaction	Q-Value
Eu151(p,3n)Gd149	-16451.08 keV

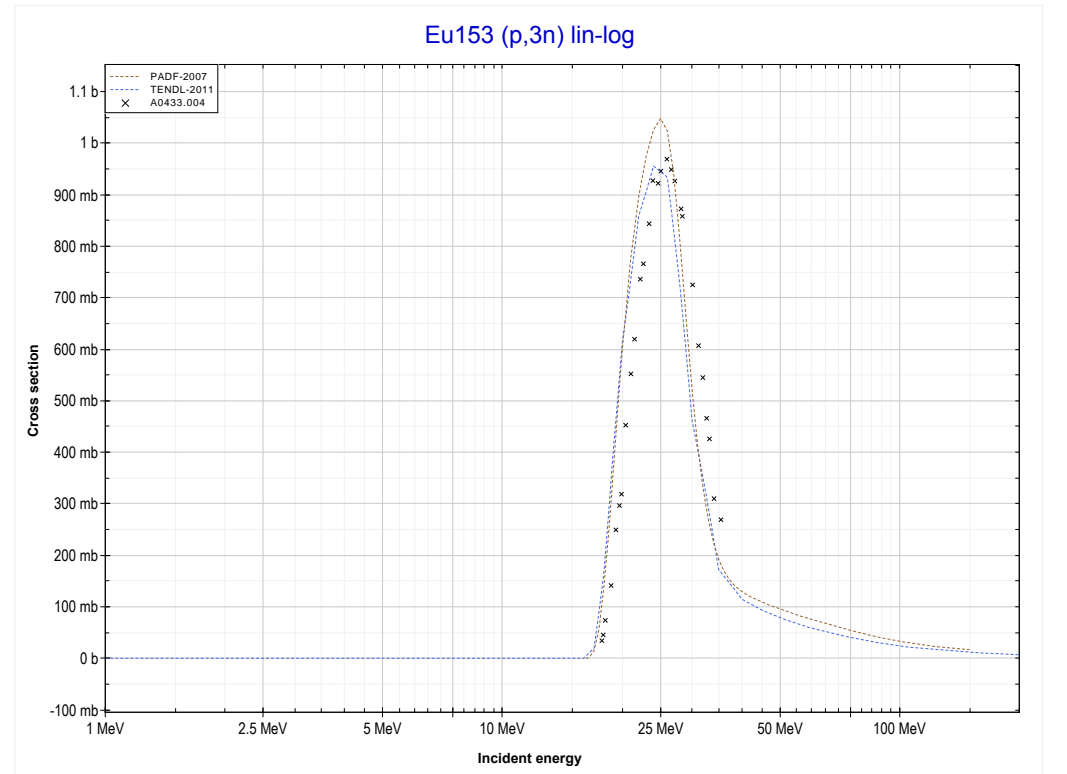
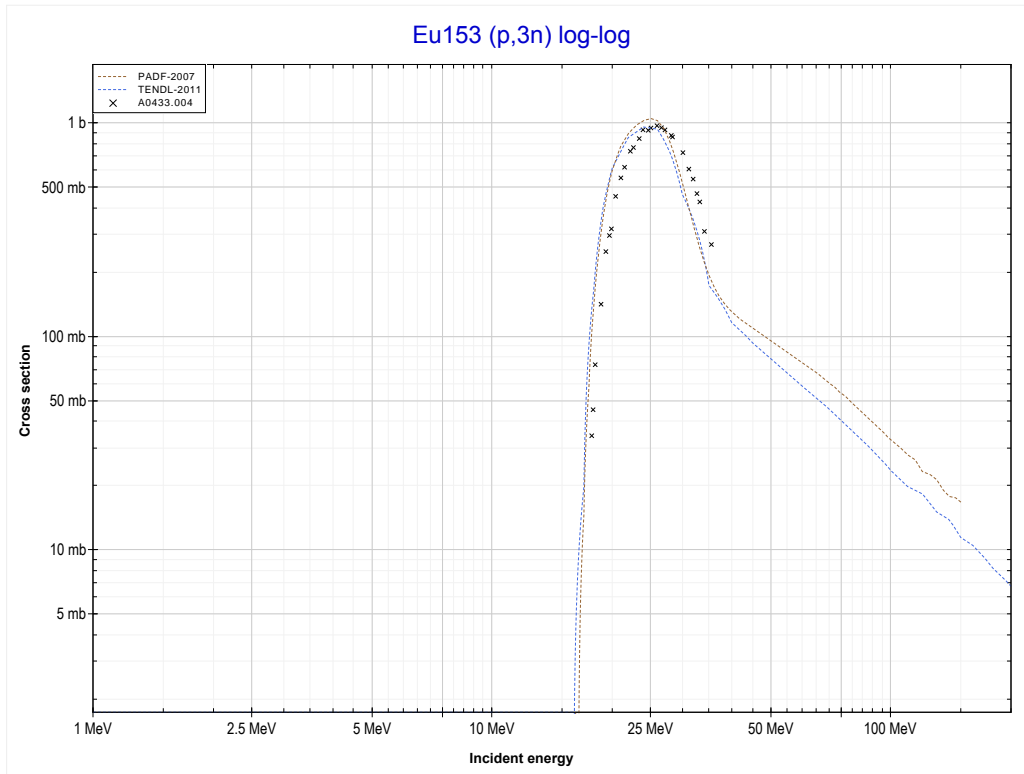
<< 63-Eu-151	<b>63-Eu-153</b>	64-Gd-152 >>
<< MT17 (p,3n)	<b>MT4 (p,n) or MT5 (Gd153 production)</b>	MT17 (p,3n) >>



Reaction	Q-Value
Eu153(p,n)Gd153	-1266.05 keV

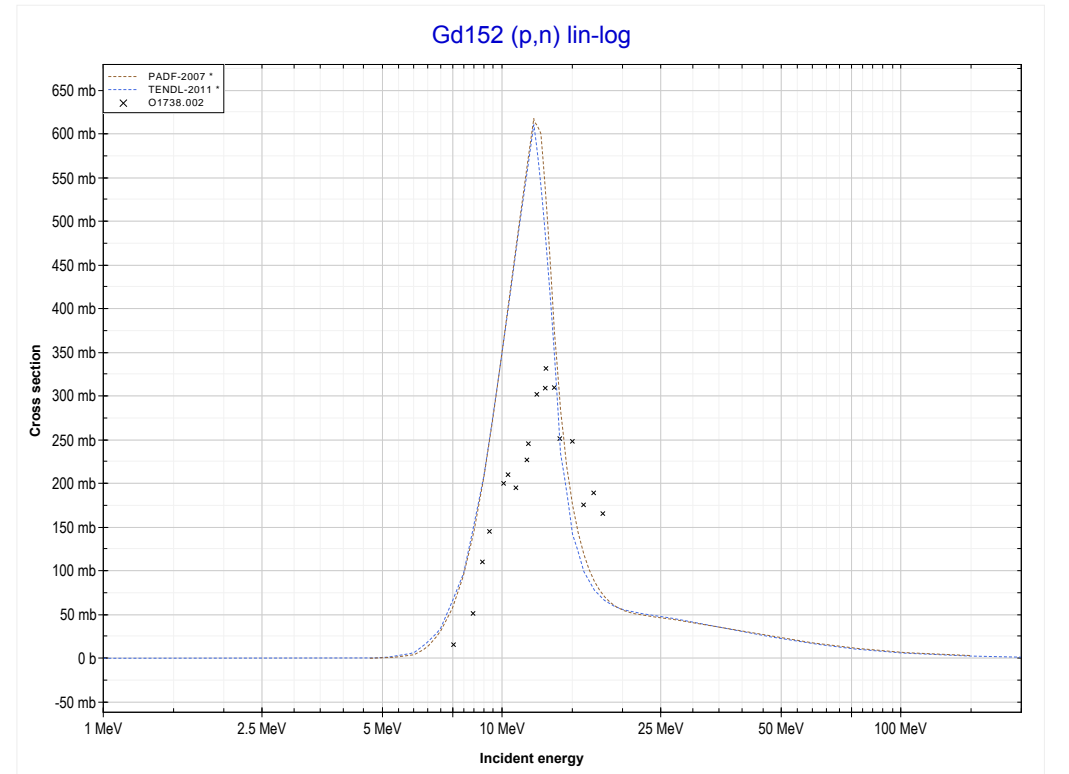
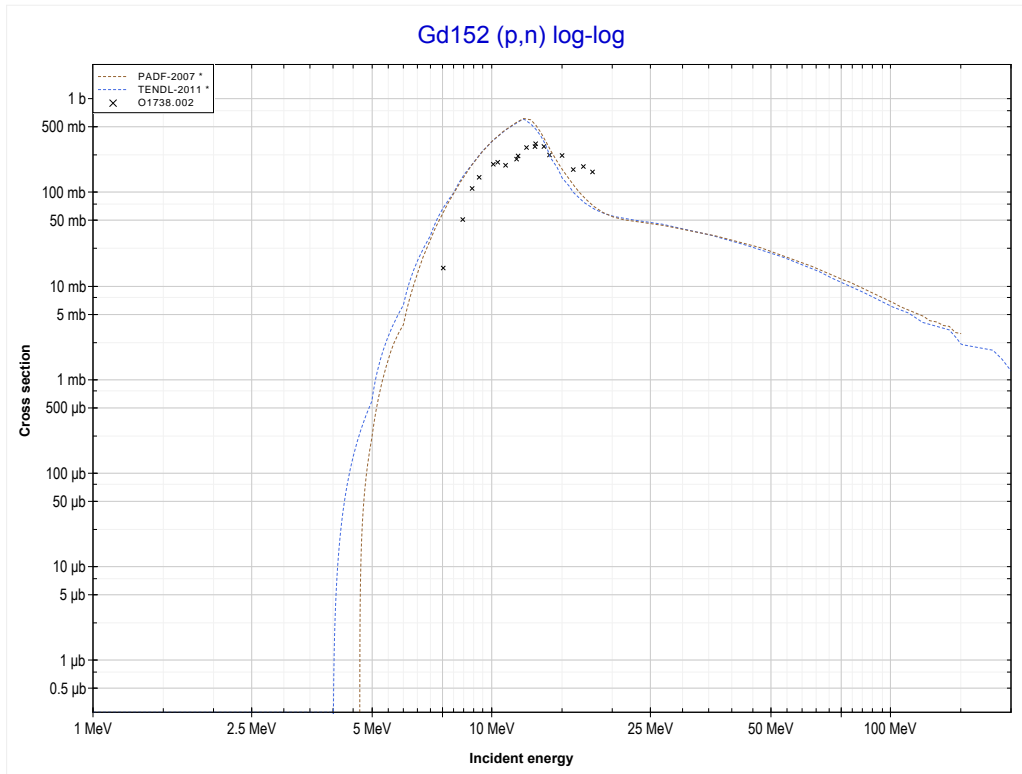


<< 63-Eu-151	<b>63-Eu-153</b>	69-Tm-169 >>
<< MT4 (p,n)	<b>MT17 (p,3n) or MT5 (Gd151 production)</b>	MT4 (p,n) >>



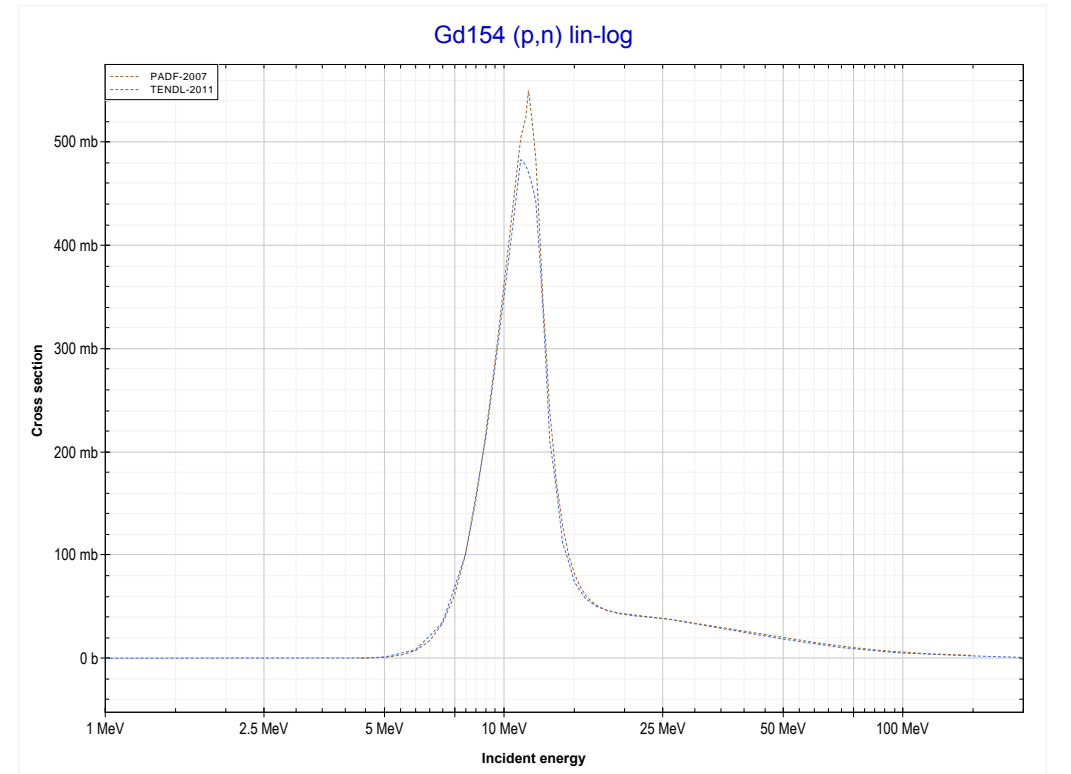
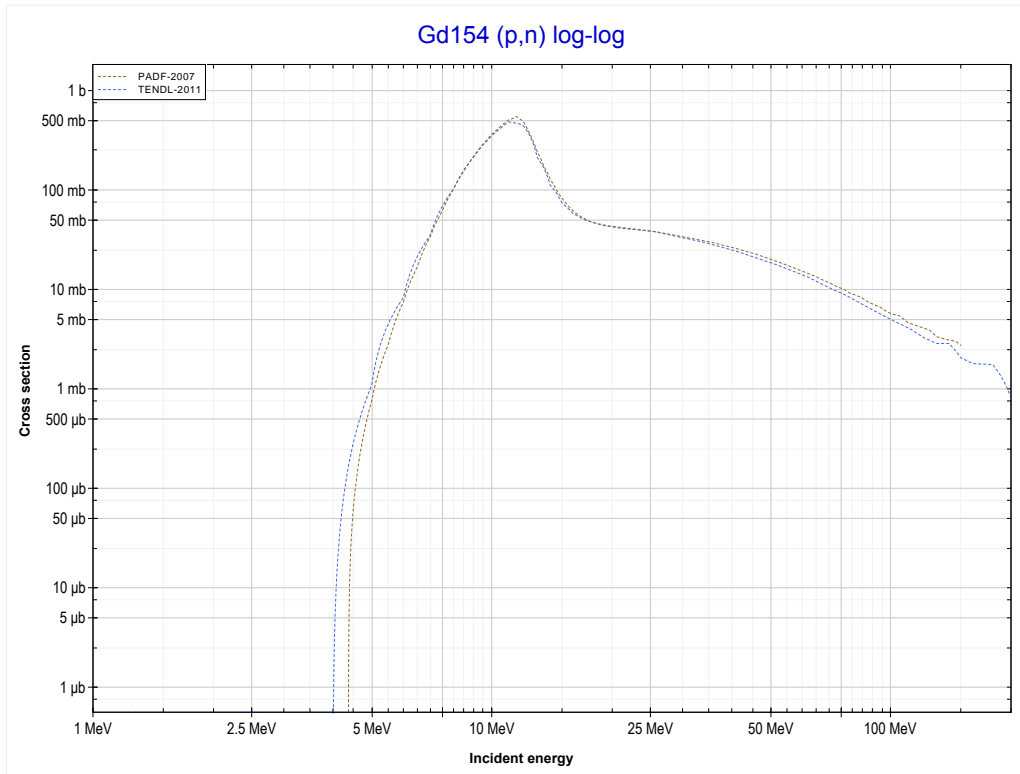
<b>Reaction</b>	<b>Q-Value</b>
Eu153(p,3n)Gd151	-16103.48 keV

<< 63-Eu-153	<b>64-Gd-152</b>	64-Gd-154 >>
<< MT17 (p,3n)	<b>MT4 (p,n) or MT5 (Tb152 production)</b>	MT4 (p,n) >>



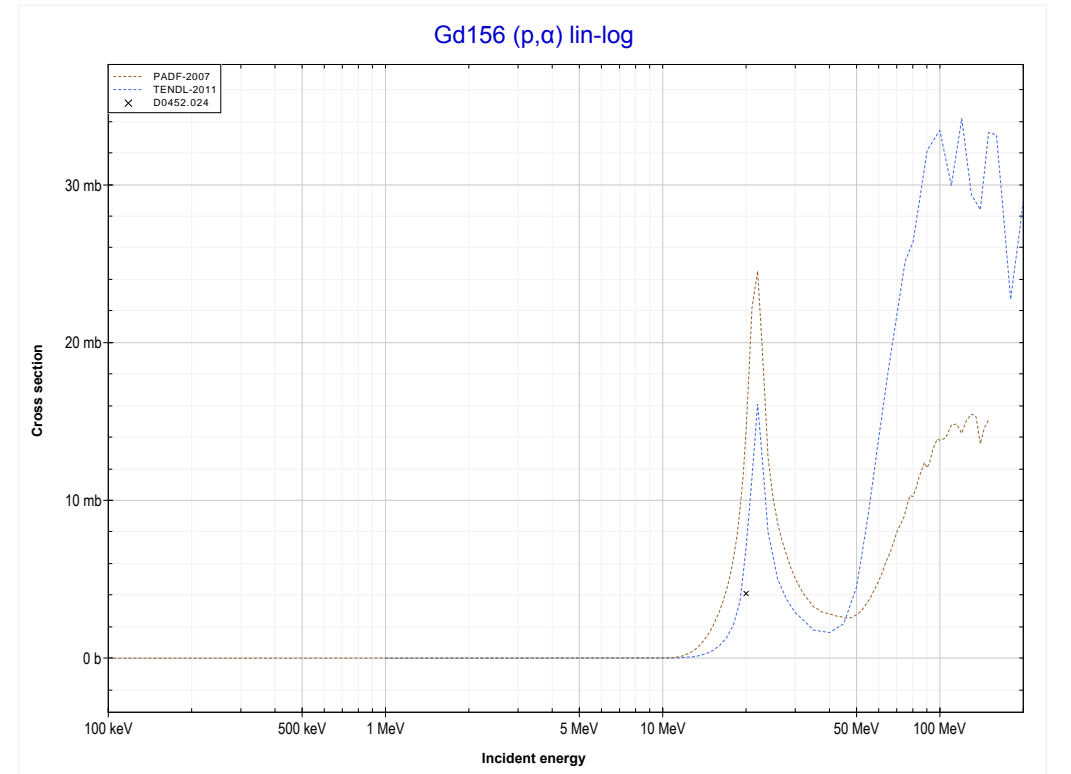
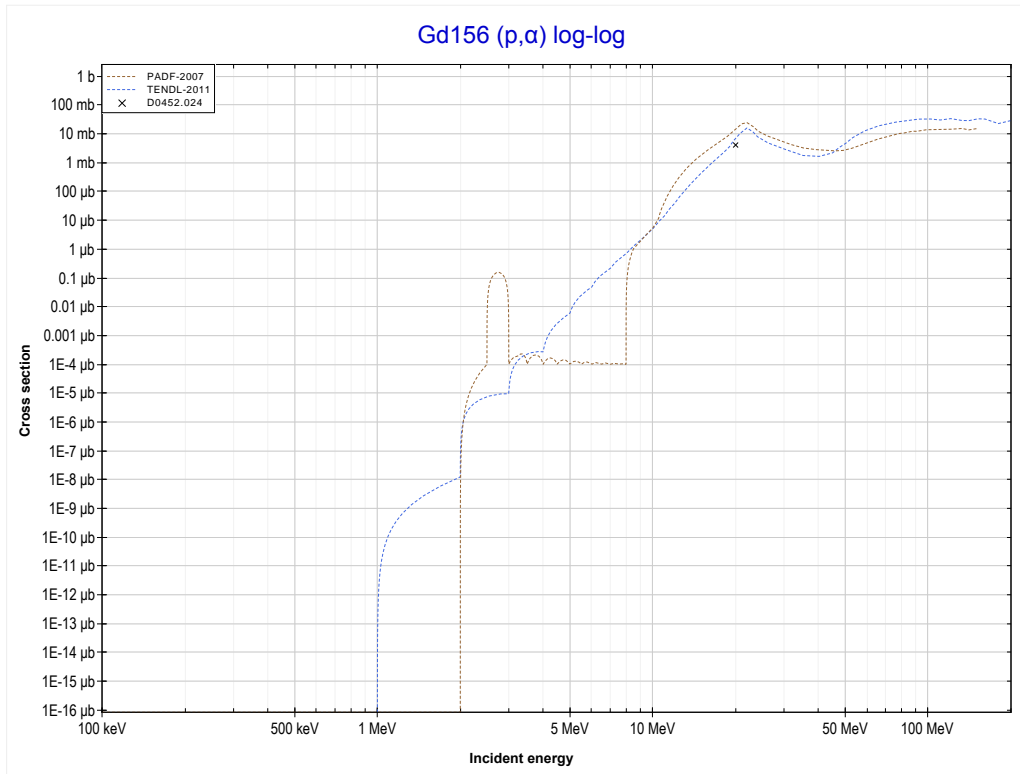
<b>Reaction</b>	<b>Q-Value</b>
Gd152(p,n)Tb152	-4776.55 keV

<< 64-Gd-152	<b>64-Gd-154</b>	64-Gd-160 >>
<< MT4 (p,n)	<b>MT4 (p,n) or MT5 (Tb154 production)</b>	MT107 (p, $\alpha$ ) >>



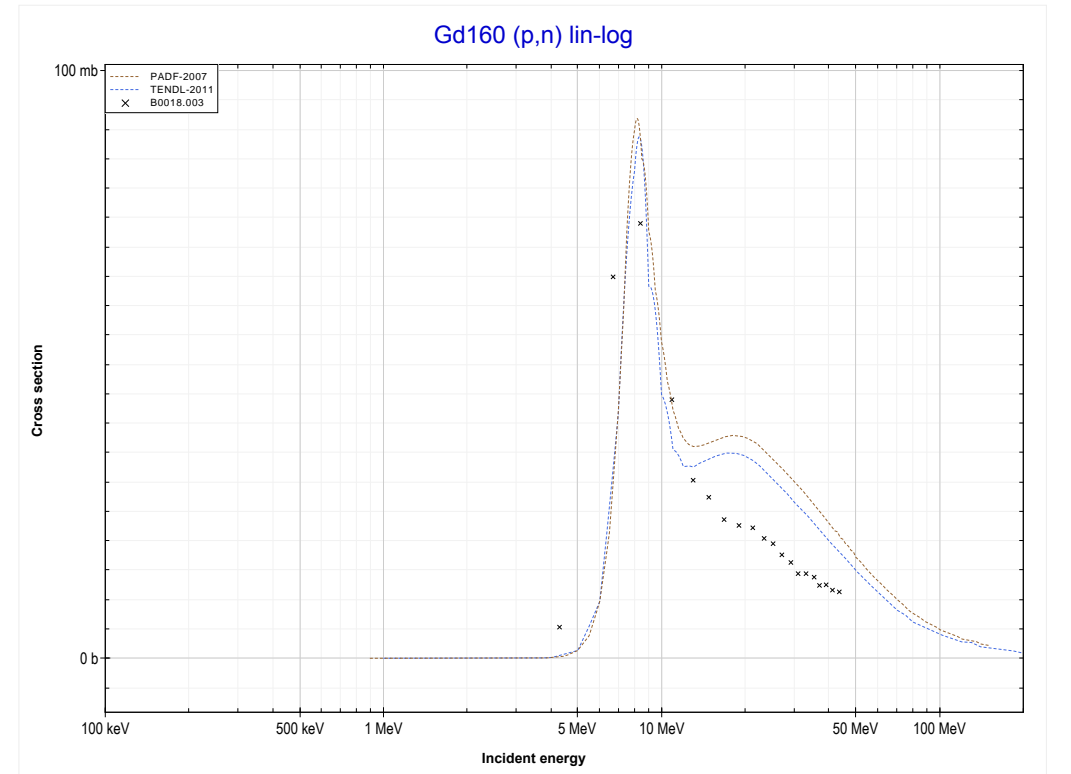
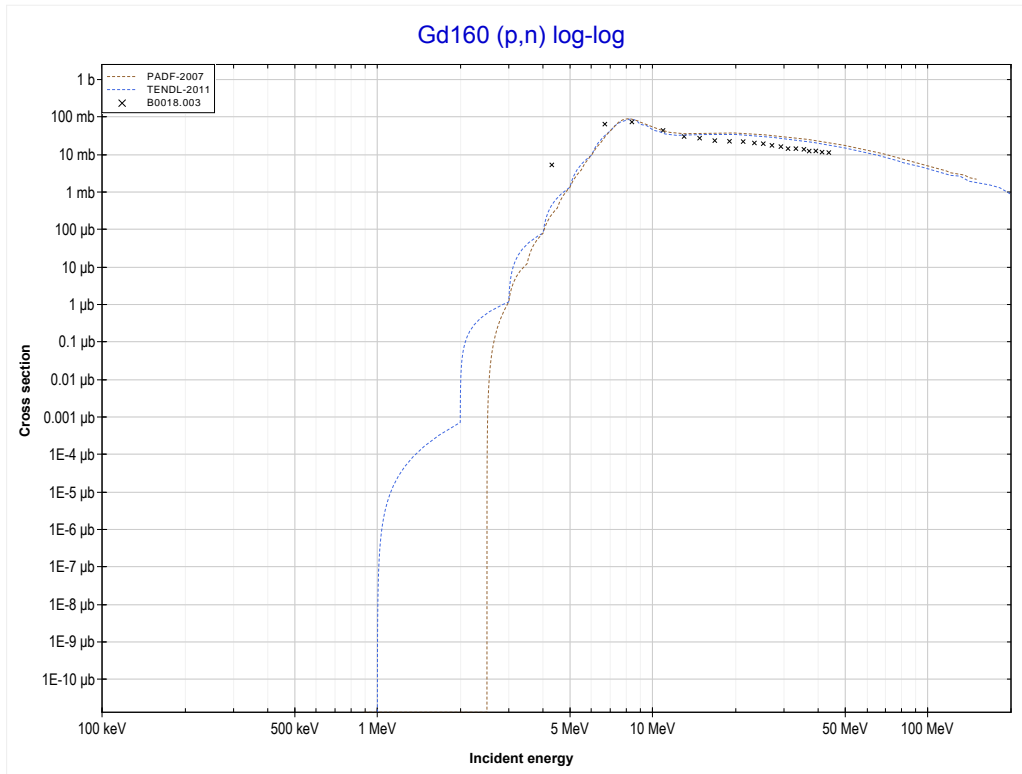
Reaction	Q-Value
Gd154(p,n)Tb154	-4335.55 keV

<< 62-Sm-154	<b>64-Gd-156</b>	70-Yb-171 >>
<< MT4 (p,n)	<b>MT107 (p,<math>\alpha</math>) or MT5 (Eu153 production)</b>	MT4 (p,n) >>



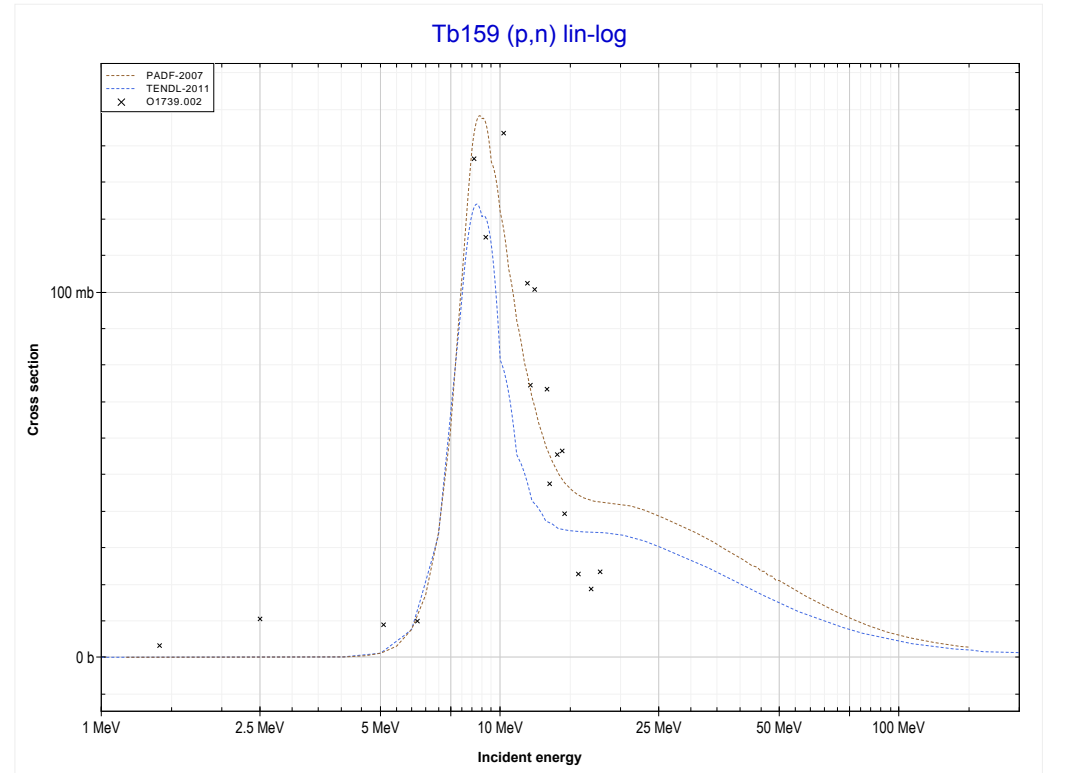
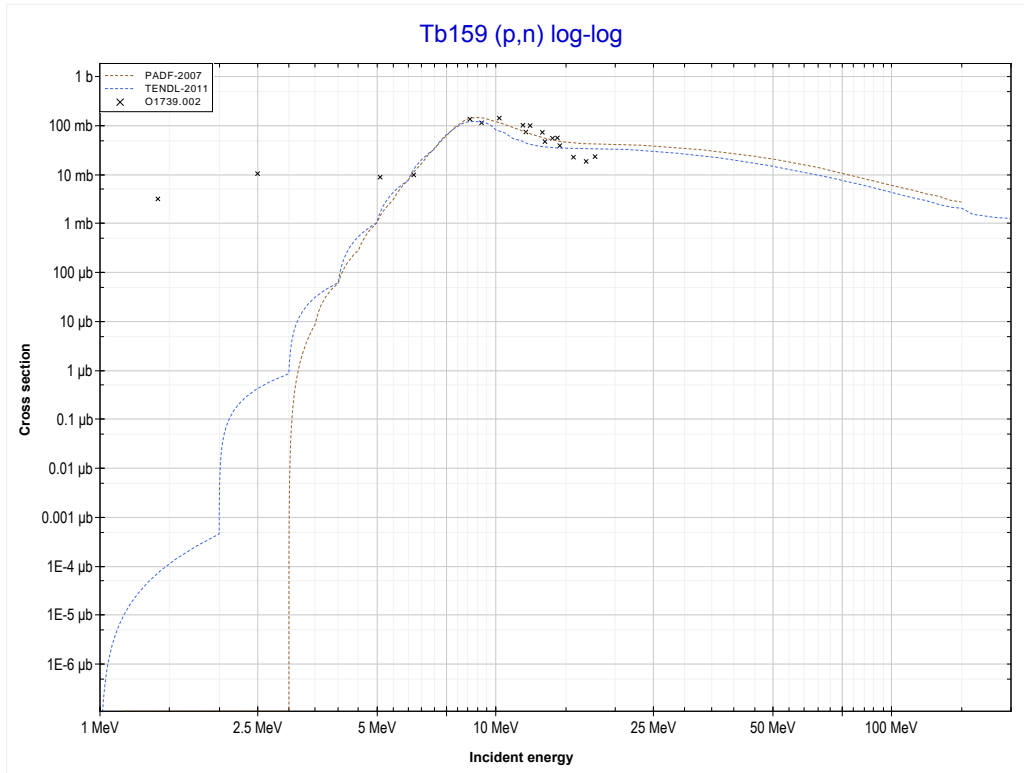
Reaction	Q-Value
Gd156(p, $\alpha$ )Eu153	5695.35 keV
Gd156(p,p+t)Eu153	-14118.51 keV
Gd156(p,n+He3)Eu153	-14882.26 keV
Gd156(p,2d)Eu153	-18151.17 keV
Gd156(p,n+p+d)Eu153	-20375.74 keV
Gd156(p,2n+2p)Eu153	-22600.30 keV

<< 64-Gd-154	<b>64-Gd-160</b>	65-Tb-159 >>
<< MT107 (p, $\alpha$ )	<b>MT4 (p,n) or MT5 (Tb160 production)</b>	MT4 (p,n) >>



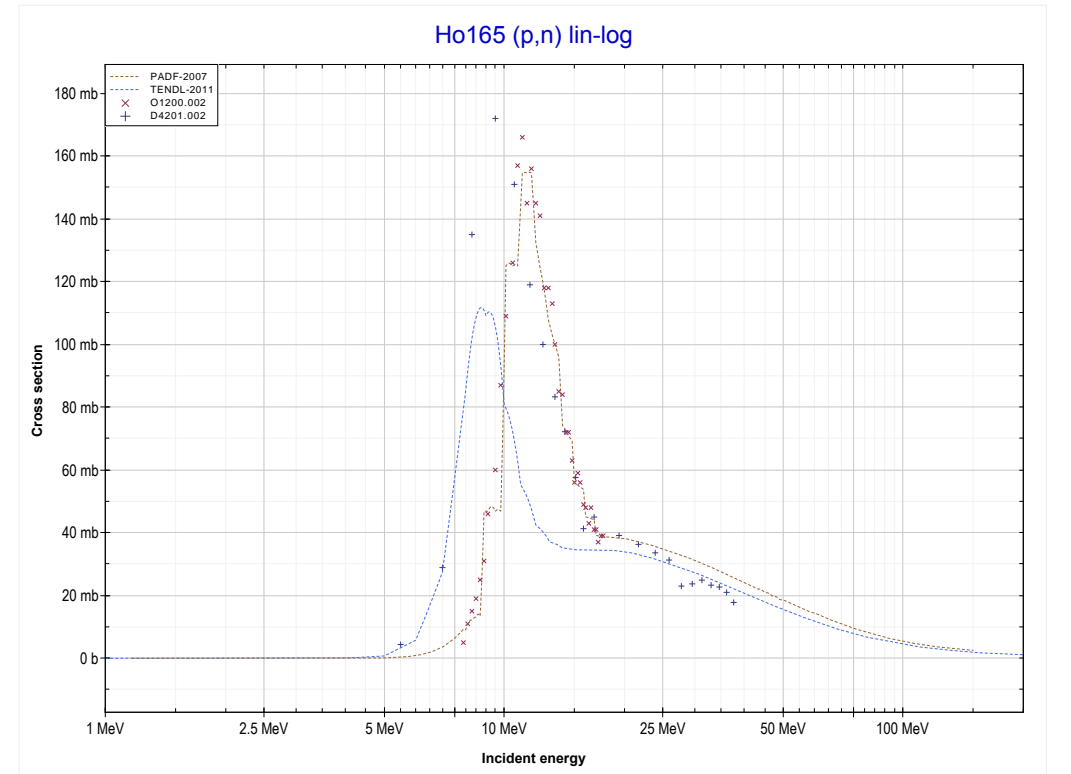
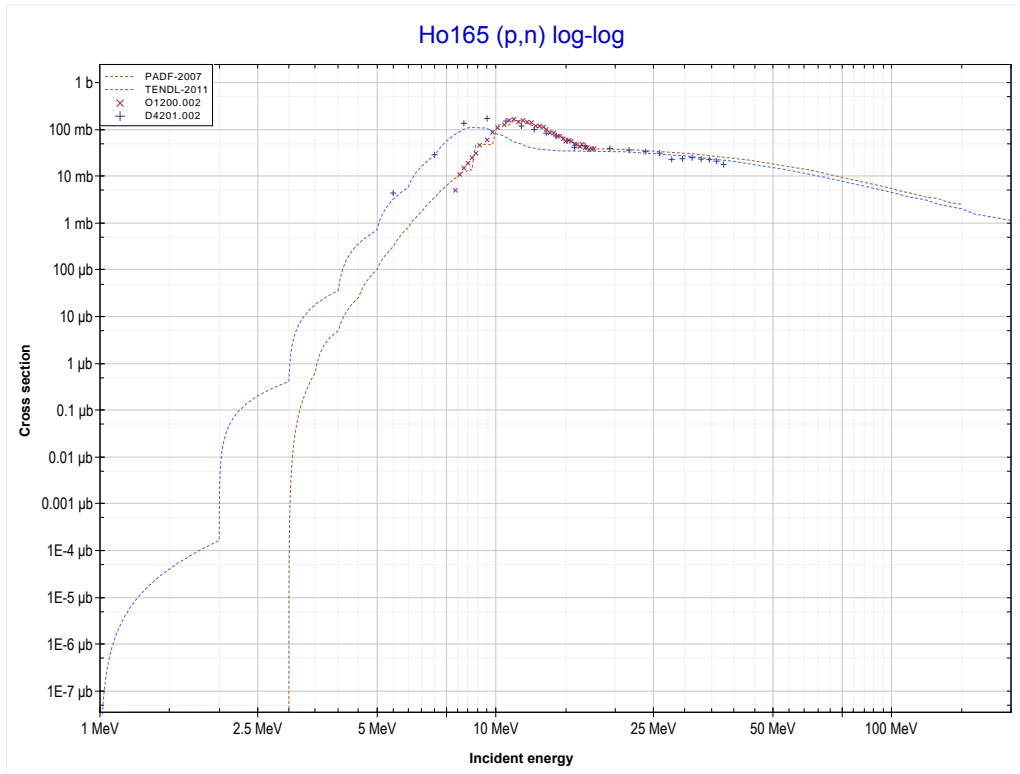
Reaction	Q-Value
Gd160(p,n)Tb160	-888.05 keV

<< 64-Gd-160	<b>65-Tb-159</b>	67-Ho-165 >>
<< MT4 (p,n)	<b>MT4 (p,n) or MT5 (Dy159 production)</b>	MT4 (p,n) >>



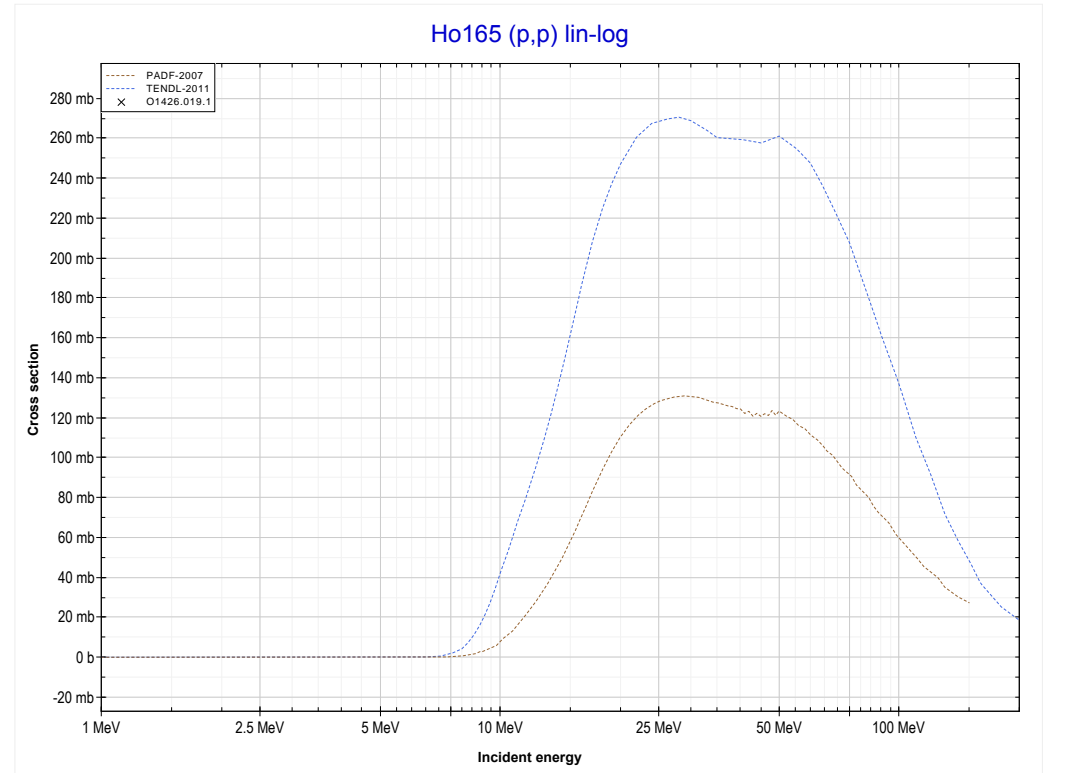
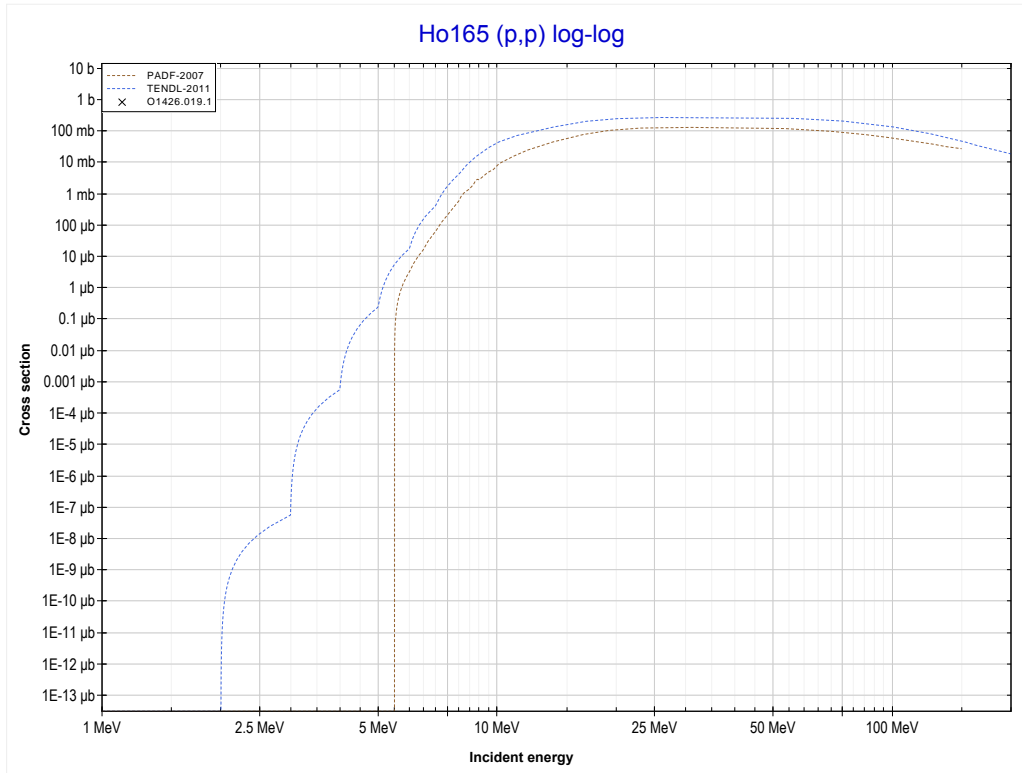
Reaction	Q-Value
Tb159(p,n)Dy159	-1147.85 keV

<< 65-Tb-159	<b>67-Ho-165</b>	68-Er-167 >>
<< MT4 (p,n)	<b>MT4 (p,n) or MT5 (Er165 production)</b>	MT103 (p,p) >>



Reaction	Q-Value
Ho165(p,n)Er165	-1158.95 keV

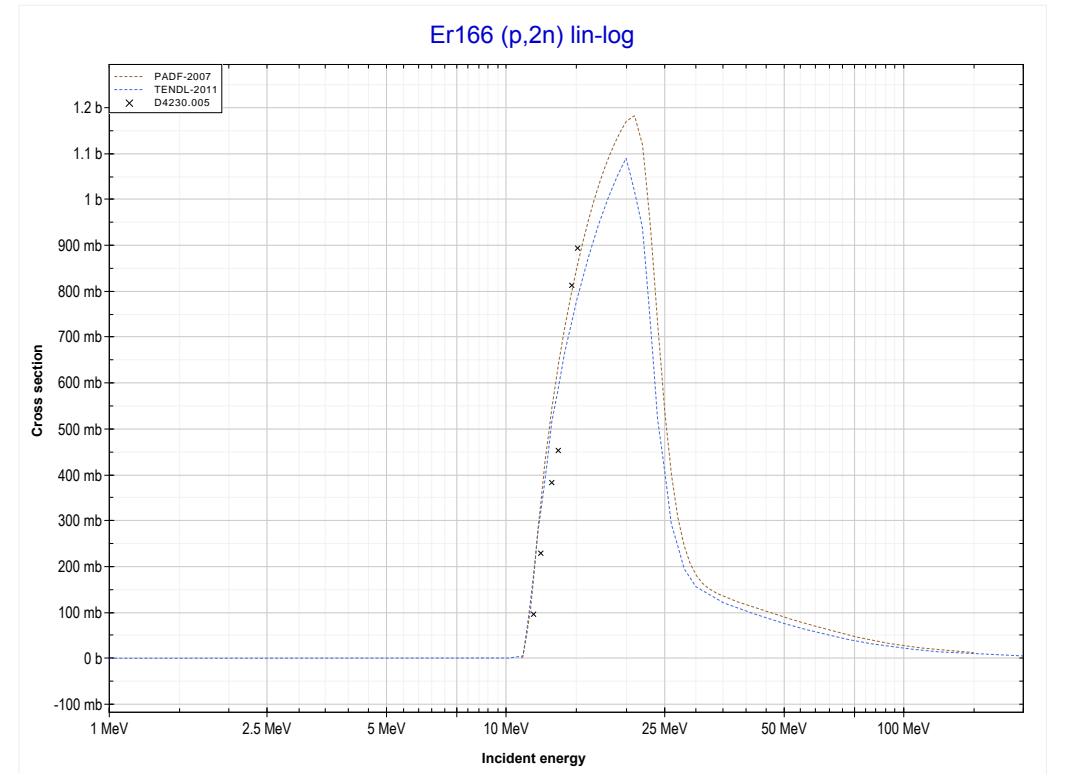
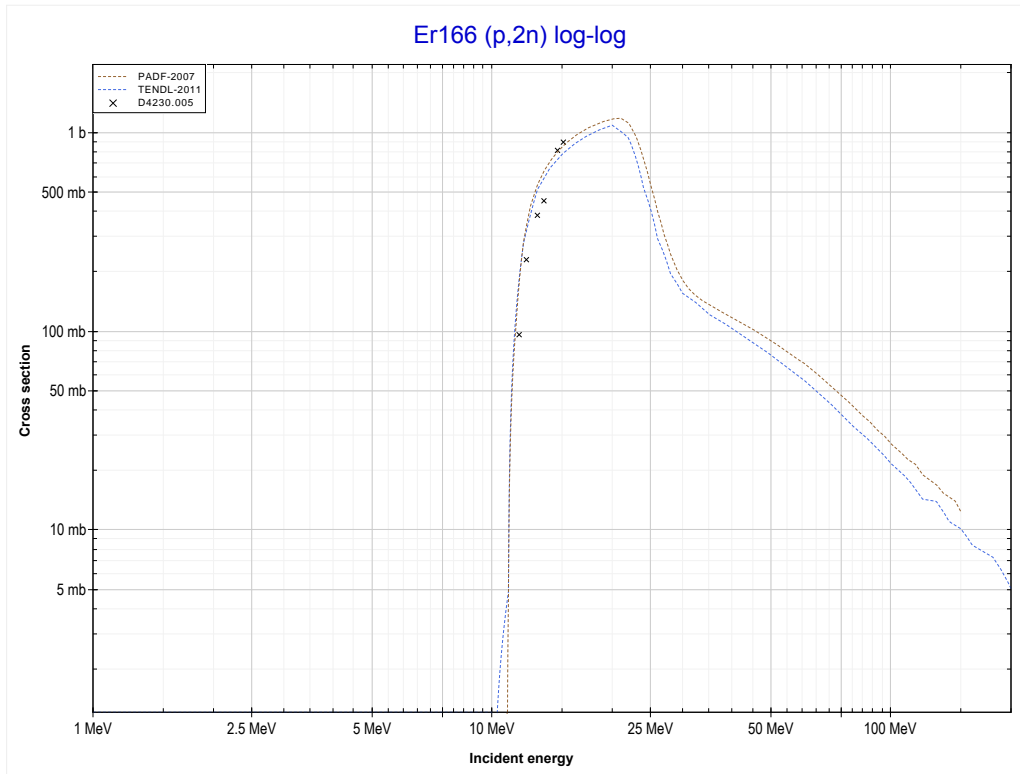
<< 49-In-115	<b>67-Ho-165</b>	92-U-235 >>
<< MT4 (p,n)	<b>MT103 (p,p) or MT5 (Ho165 production)</b>	MT16 (p,2n) >>



Reaction	Q-Value
Ho165(p,p)Ho165	0.00 keV

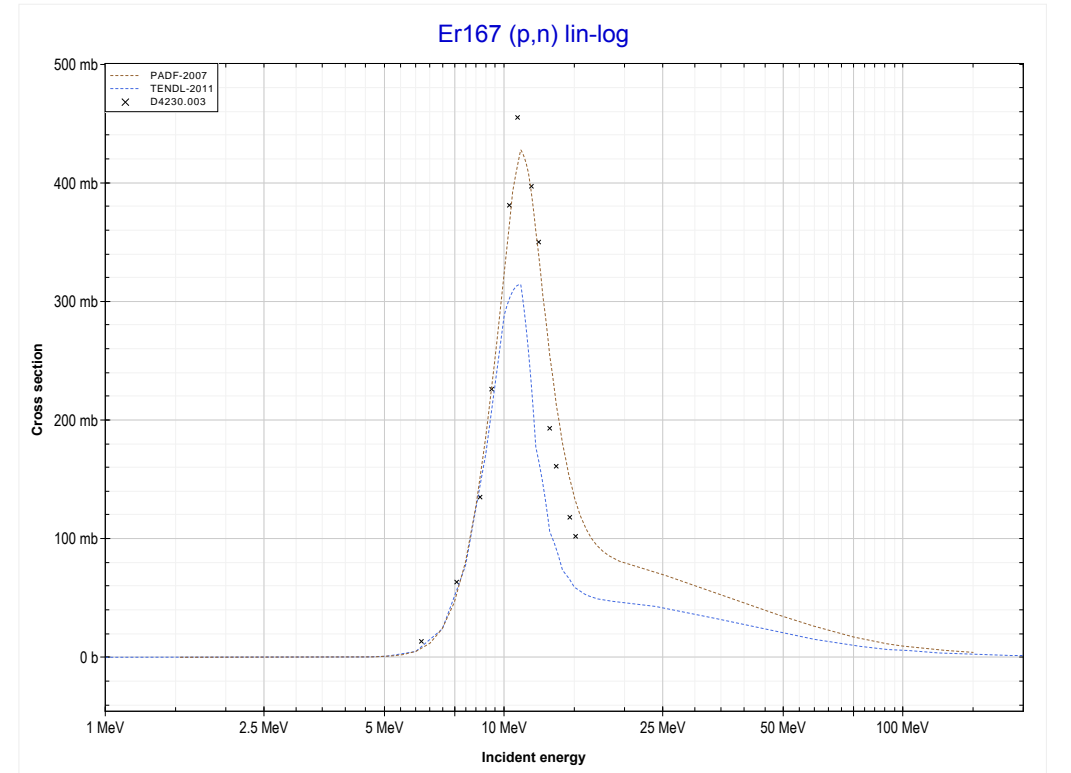
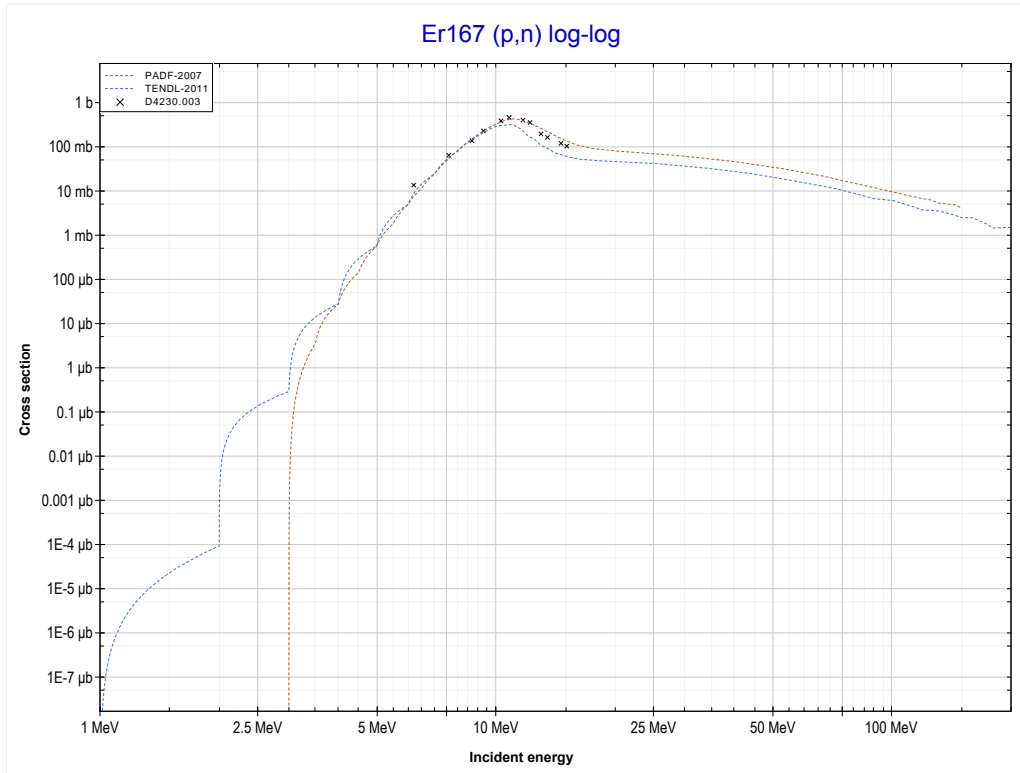


<< 62-Sm-147	<b>68-Er-166</b>	68-Er-167 >>
<< MT103 (p,p)	<b>MT16 (p,2n) or MT5 (Tm165 production)</b>	MT4 (p,n) >>



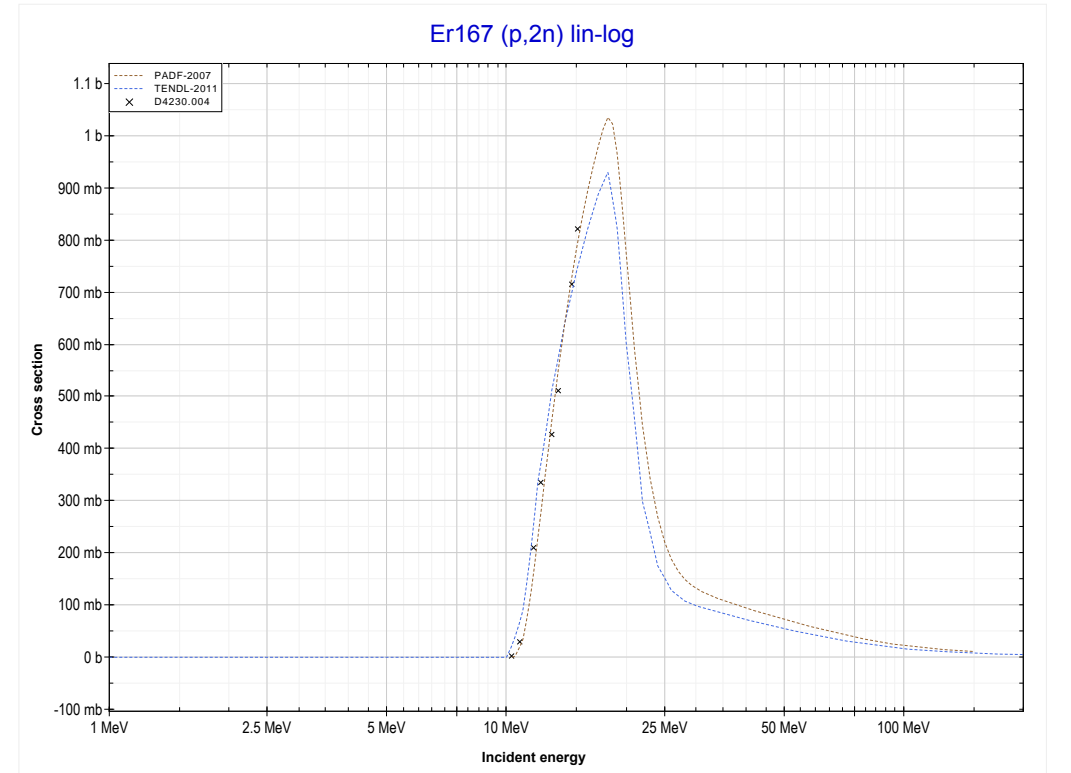
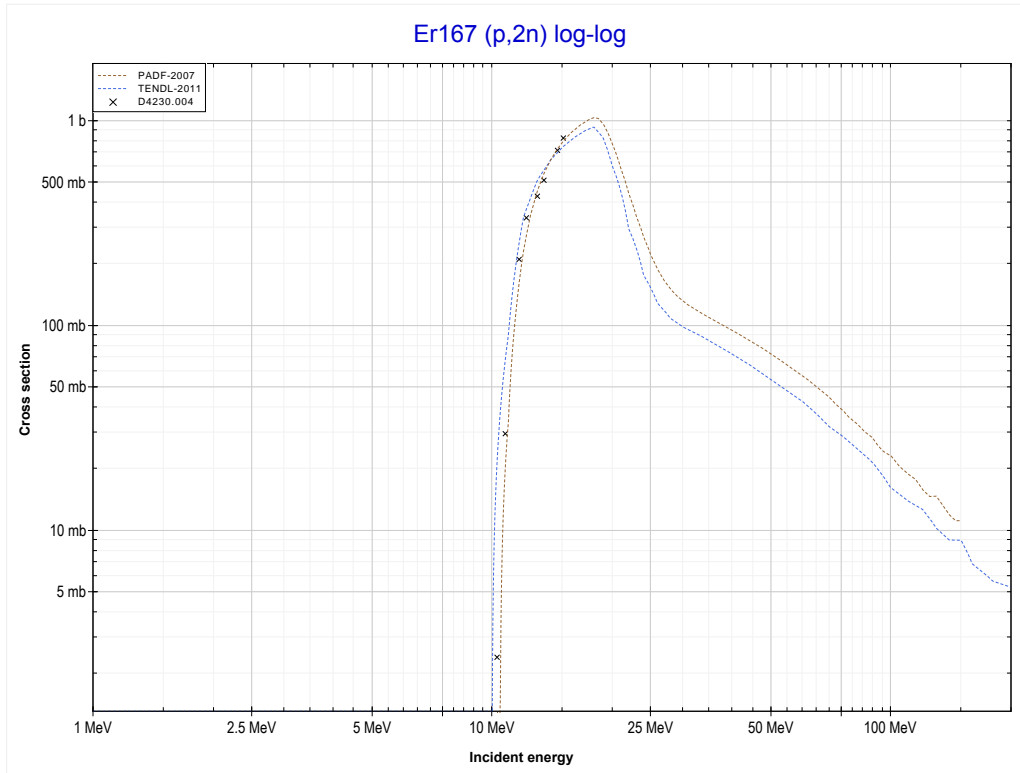
<b>Reaction</b>	<b>Q-Value</b>
Er166(p,2n)Tm165	-10849.26 keV

<< 67-Ho-165	<b>68-Er-167</b>	68-Er-168 >>
<< MT16 (p,2n)	<b>MT4 (p,n) or MT5 (Tm167 production)</b>	MT16 (p,2n) >>



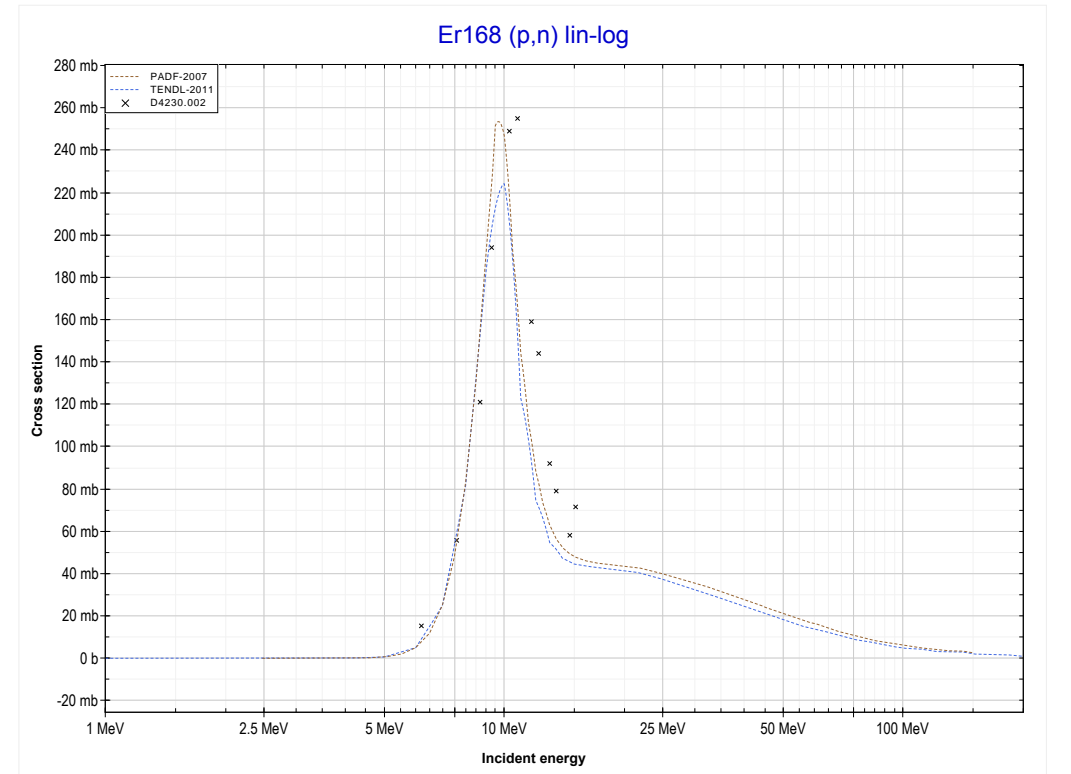
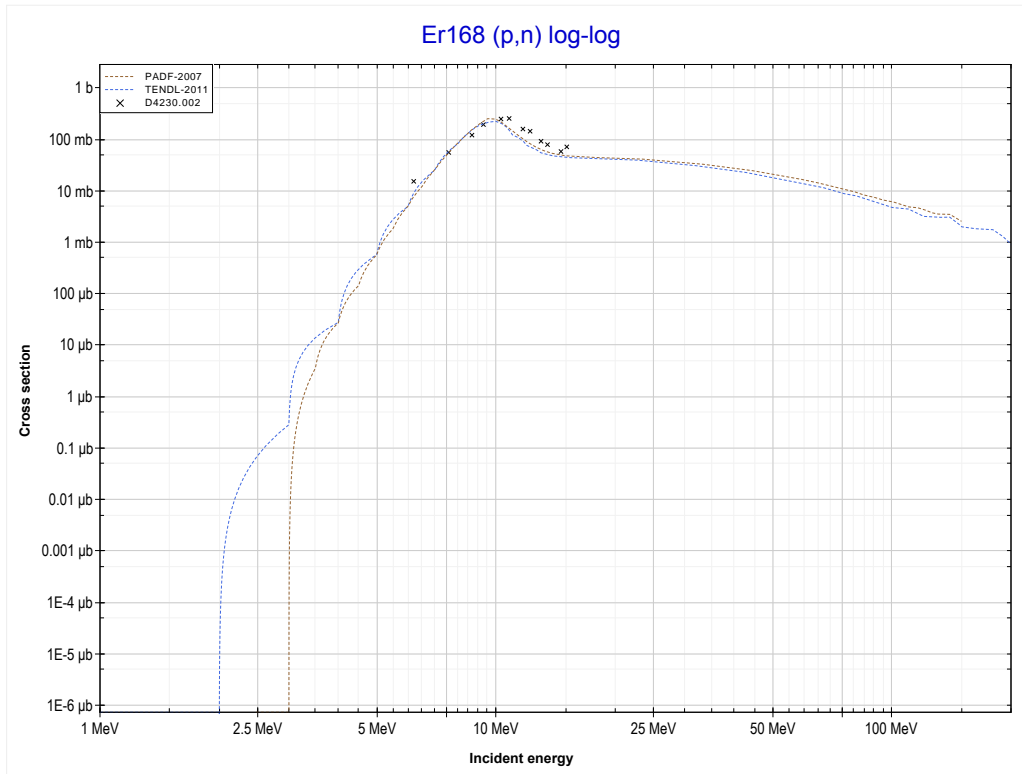
Reaction	Q-Value
Er167(p,n)Tm167	-1530.75 keV

<< 68-Er-166	<b>68-Er-167</b>	73-Ta-181 >>
<< MT4 (p,n)	<b>MT16 (p,2n) or MT5 (Tm166 production)</b>	MT4 (p,n) >>



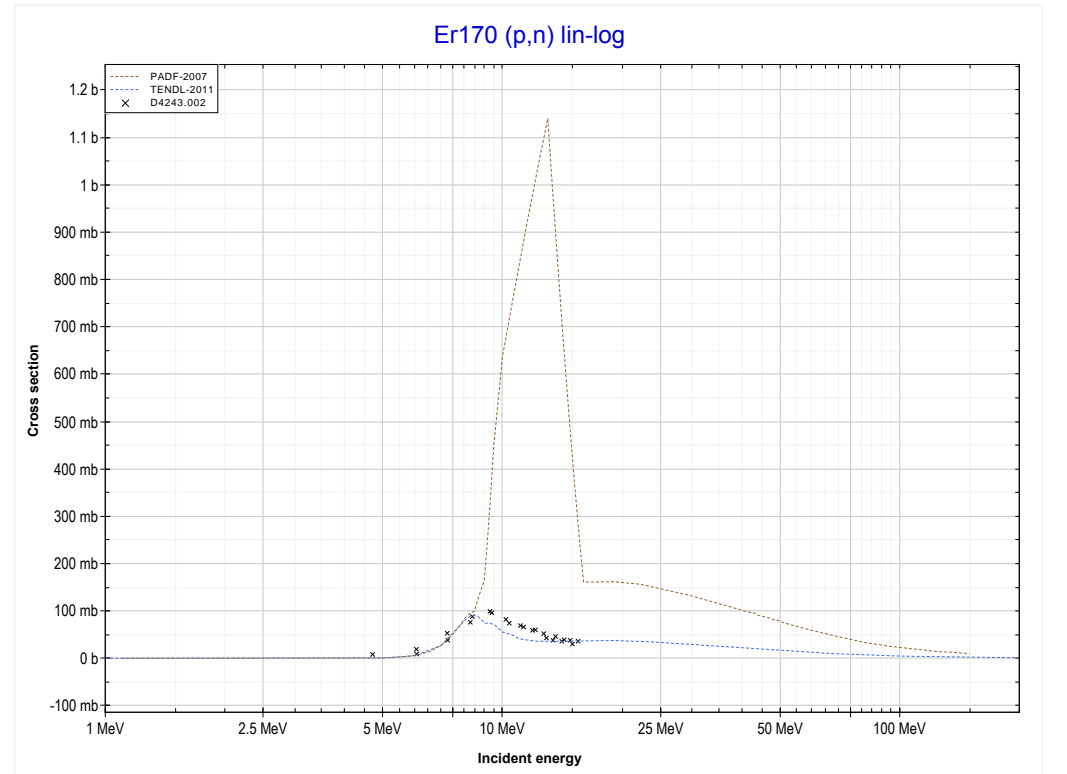
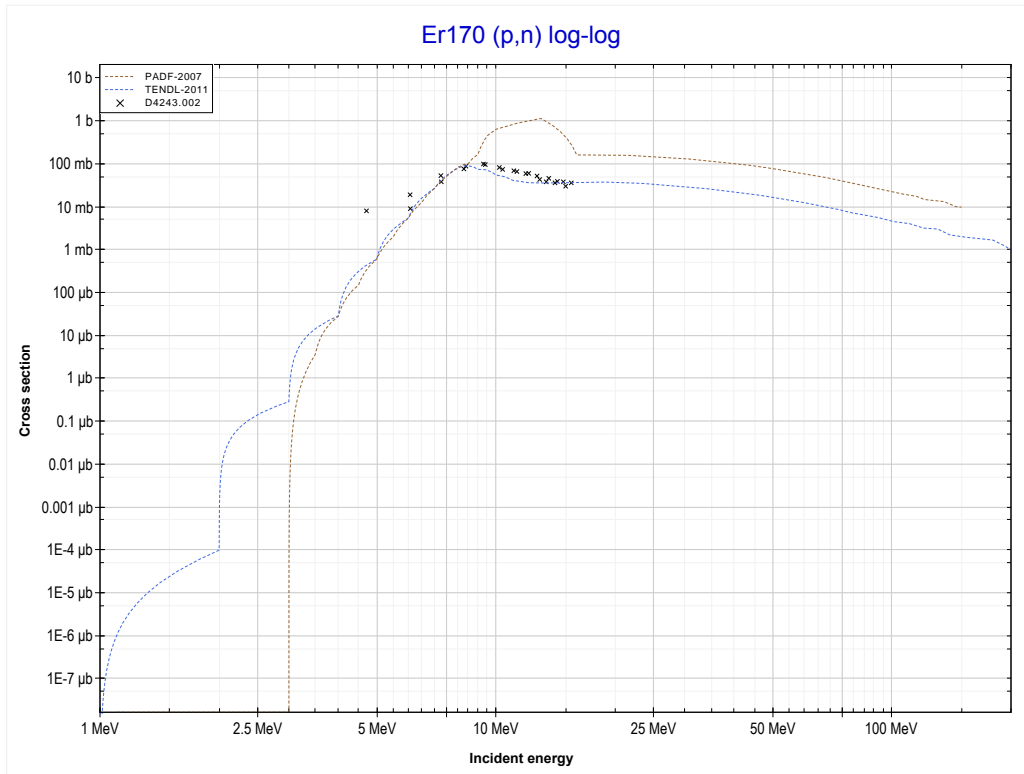
Reaction	Q-Value
Er167(p,2n)Tm166	-10256.36 keV

<< 68-Er-167	<b>68-Er-168</b>	68-Er-170 >>
<< MT16 (p,2n)	<b>MT4 (p,n) or MT5 (Tm168 production)</b>	MT4 (p,n) >>



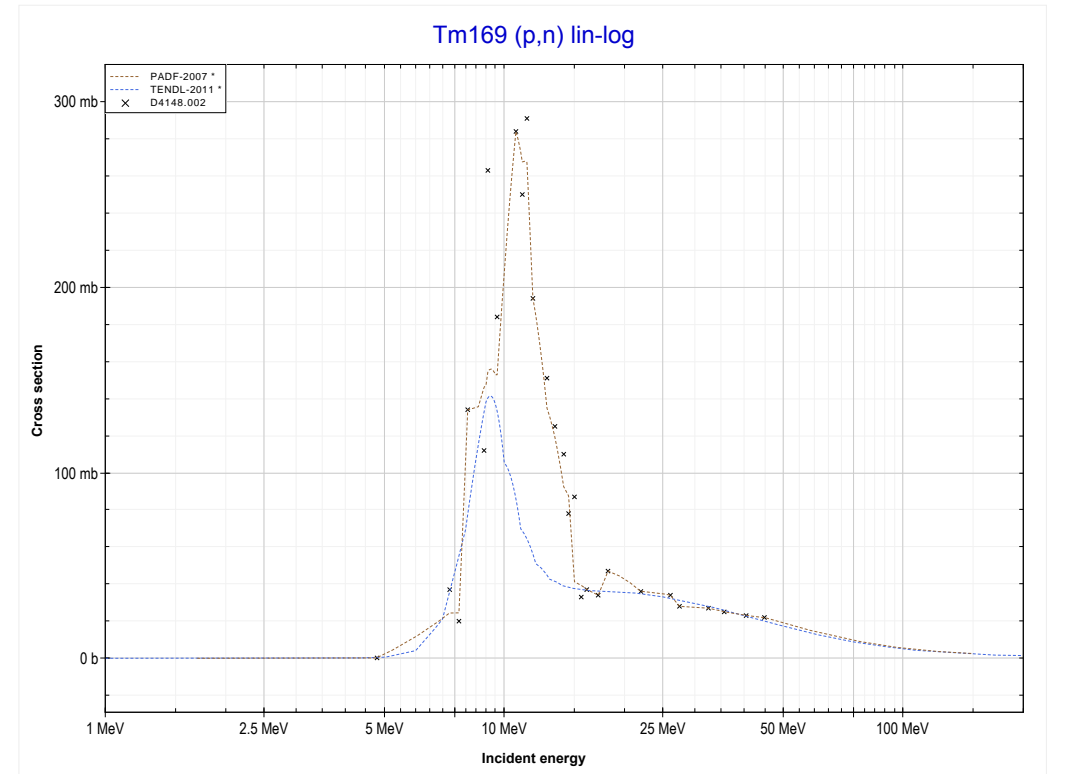
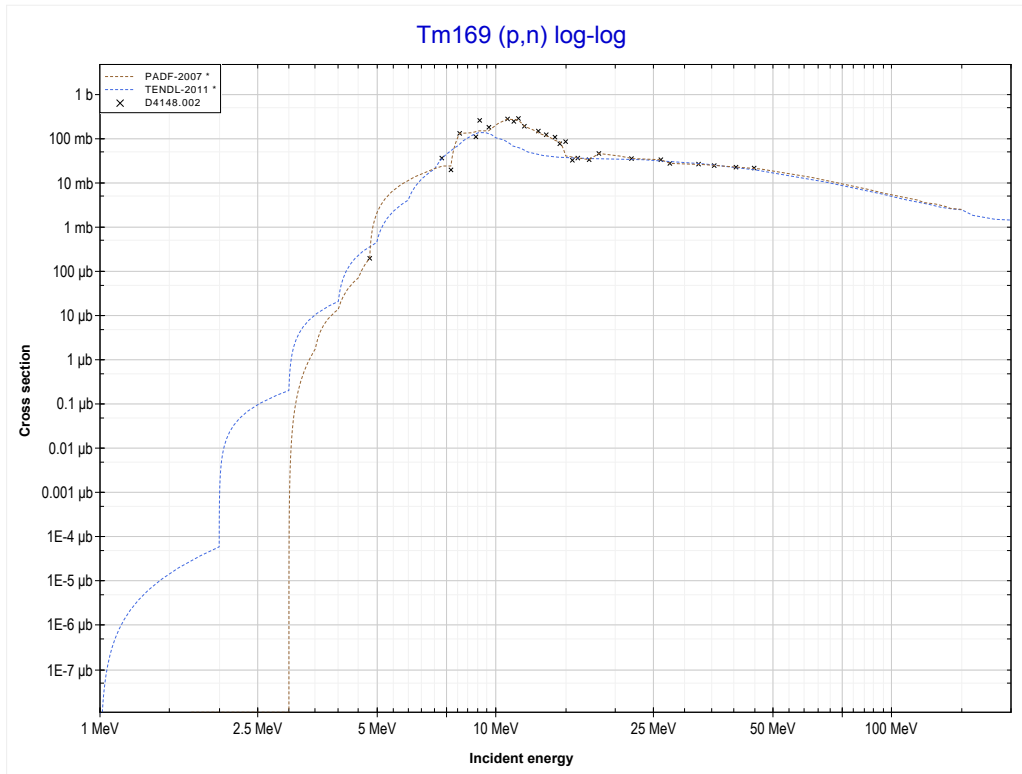
Reaction	Q-Value
Er168(p,n)Tm168	-2461.35 keV

<< 68-Er-168	<b>68-Er-170</b>	69-Tm-169 >>
<< MT4 (p,n)	<b>MT4 (p,n) or MT5 (Tm170 production)</b>	MT4 (p,n) >>



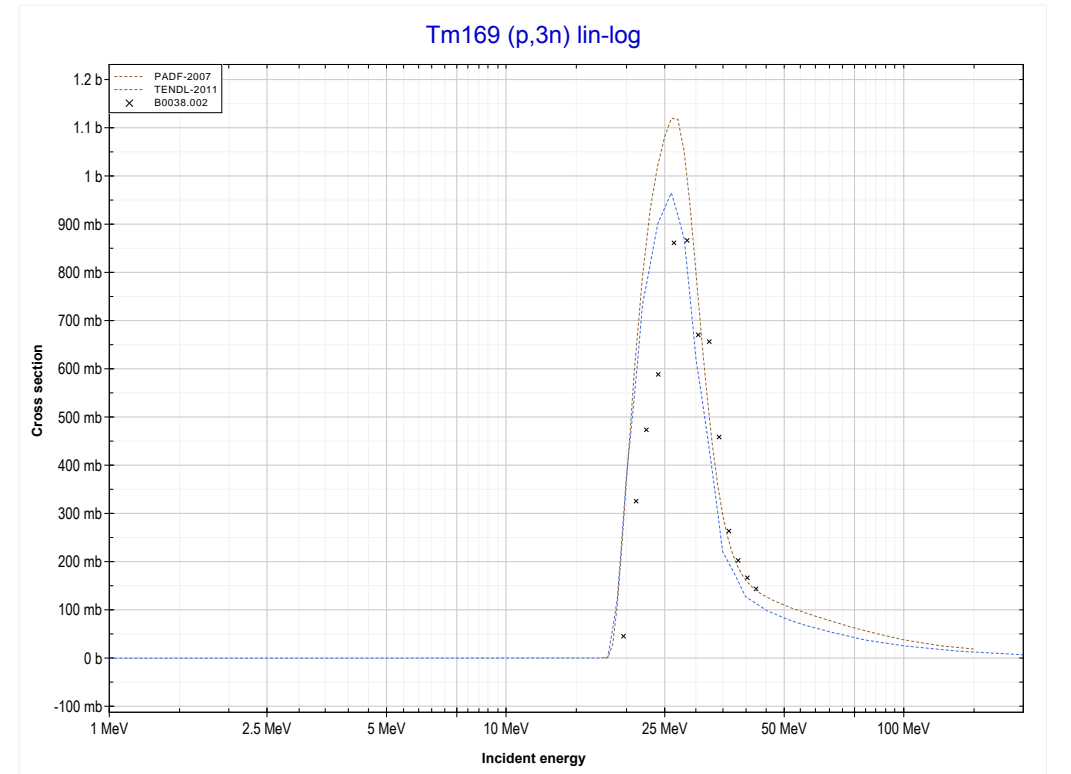
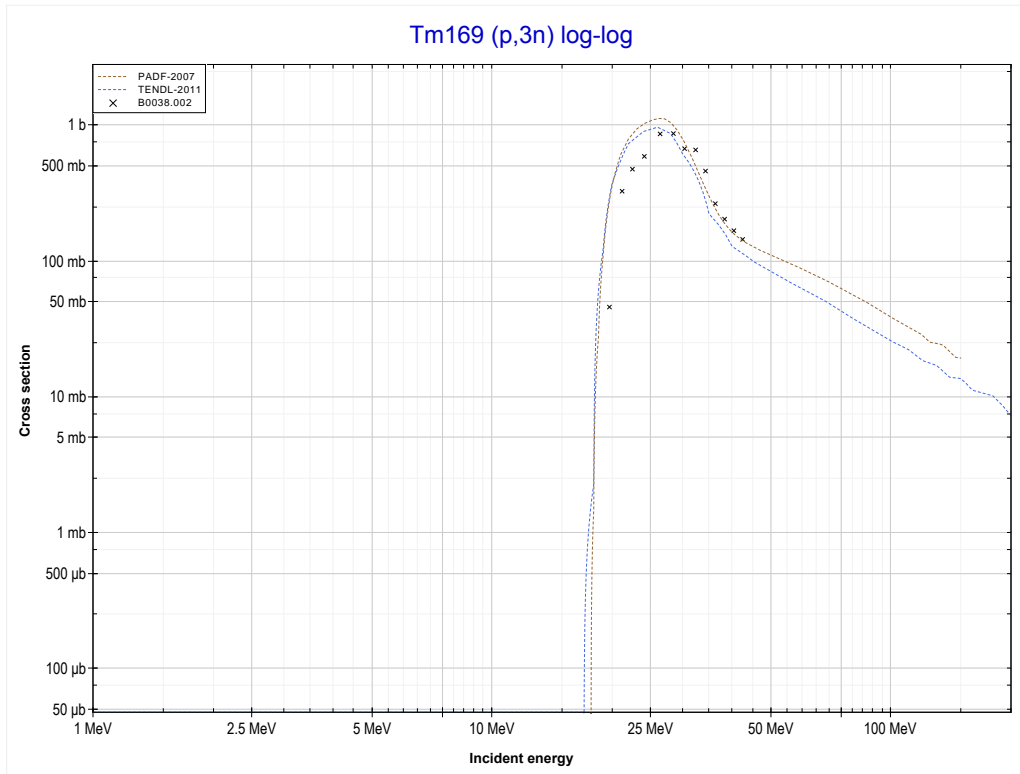
Reaction	Q-Value
Er170(p,n)Tm170	-1096.35 keV

<< 68-Er-170	<b>69-Tm-169</b>	72-Hf-178 >>
<< MT4 (p,n)	<b>MT4 (p,n) or MT5 (Yb169 production)</b>	MT17 (p,3n) >>



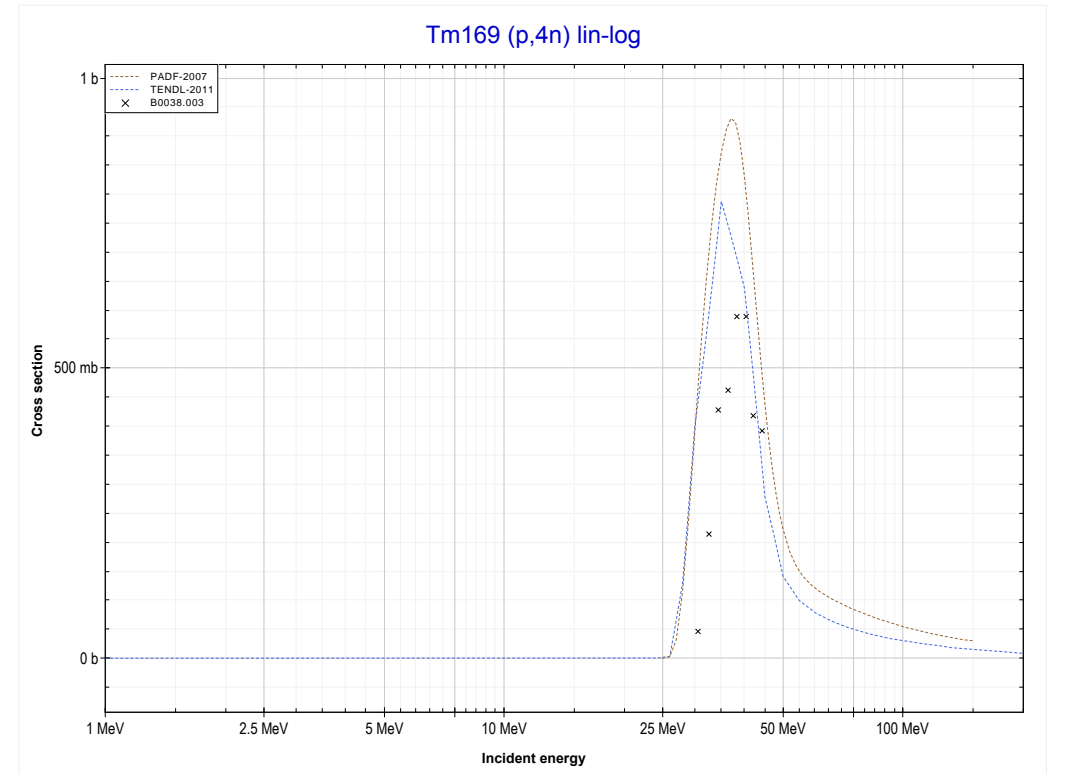
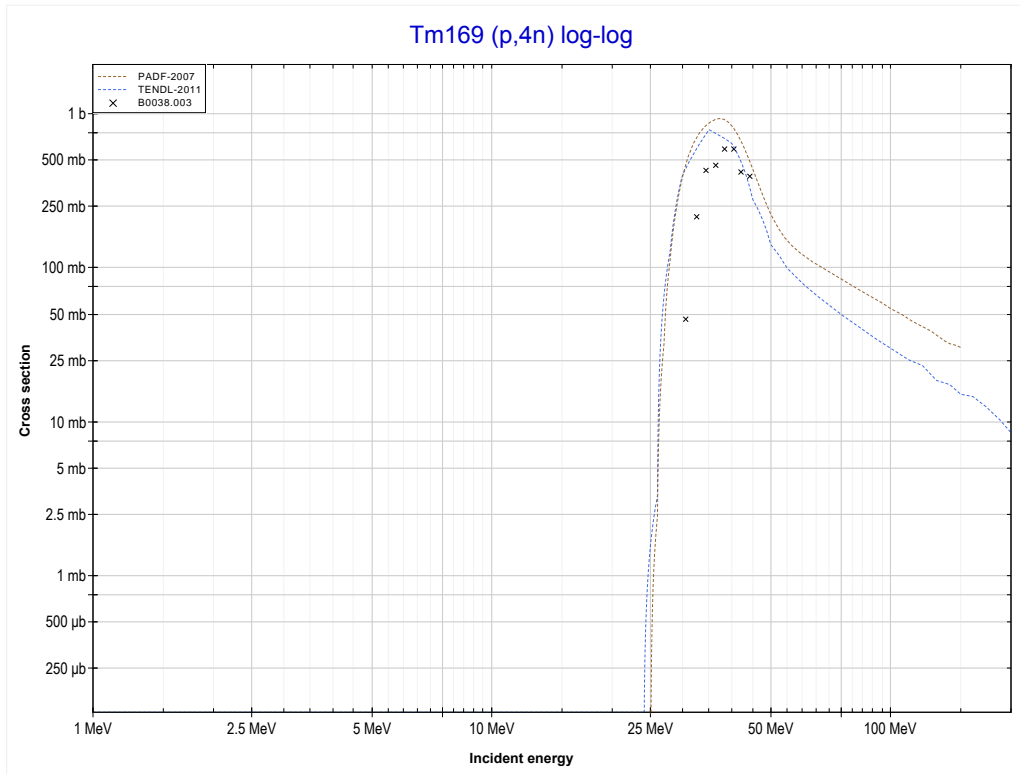
Reaction	Q-Value
Tm169(p,n)Yb169	-1692.35 keV

<< 63-Eu-153	<b>69-Tm-169</b>	73-Ta-181 >>
<< MT4 (p,n)	<b>MT17 (p,3n) or MT5 (Yb167 production)</b>	MT37 (p,4n) >>



Reaction	Q-Value
Tm169(p,3n)Yb167	-17610.98 keV

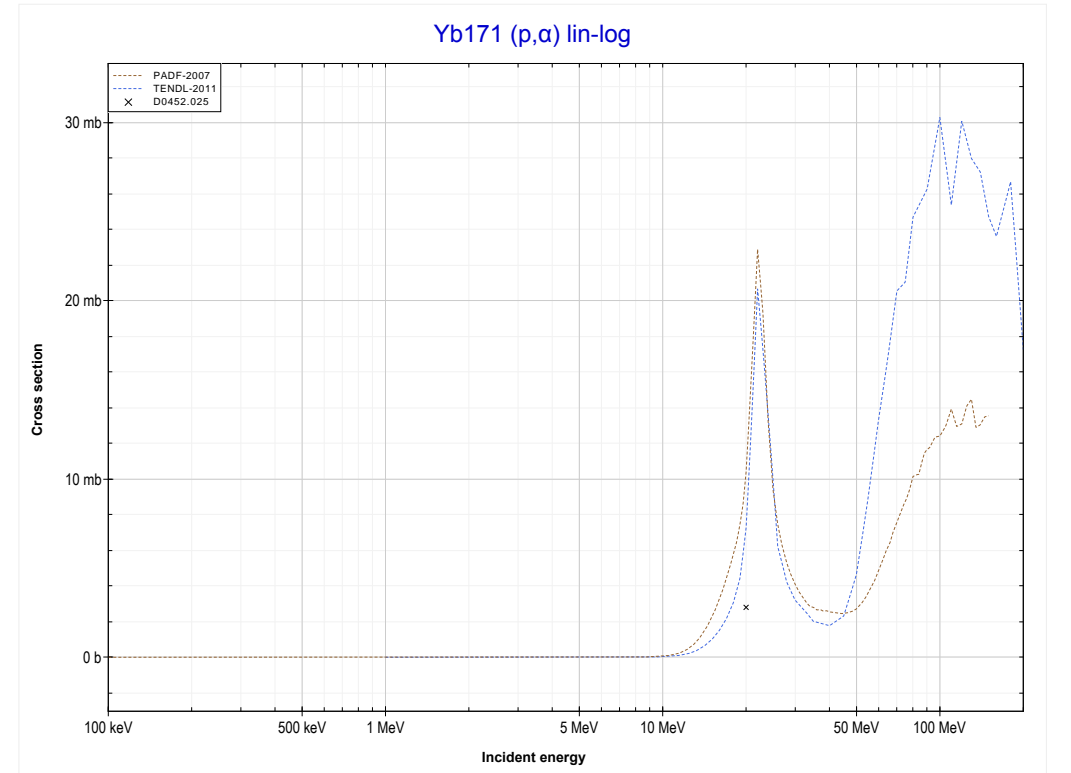
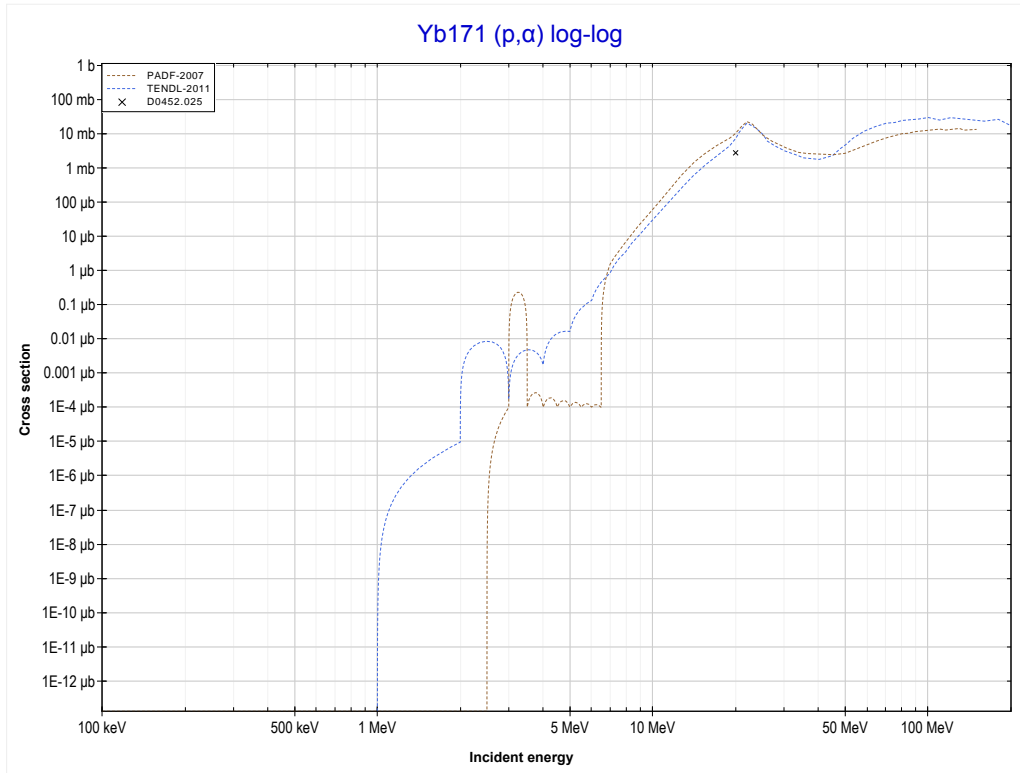
<< 59-Pr-141	<b>69-Tm-169</b>	73-Ta-181 >>
<< MT17 (p,3n)	<b>MT37 (p,4n) or MT5 (Yb166 production)</b>	MT107 (p, $\alpha$ ) >>



Reaction	Q-Value
Tm169(p,4n)Yb166	-24688.30 keV

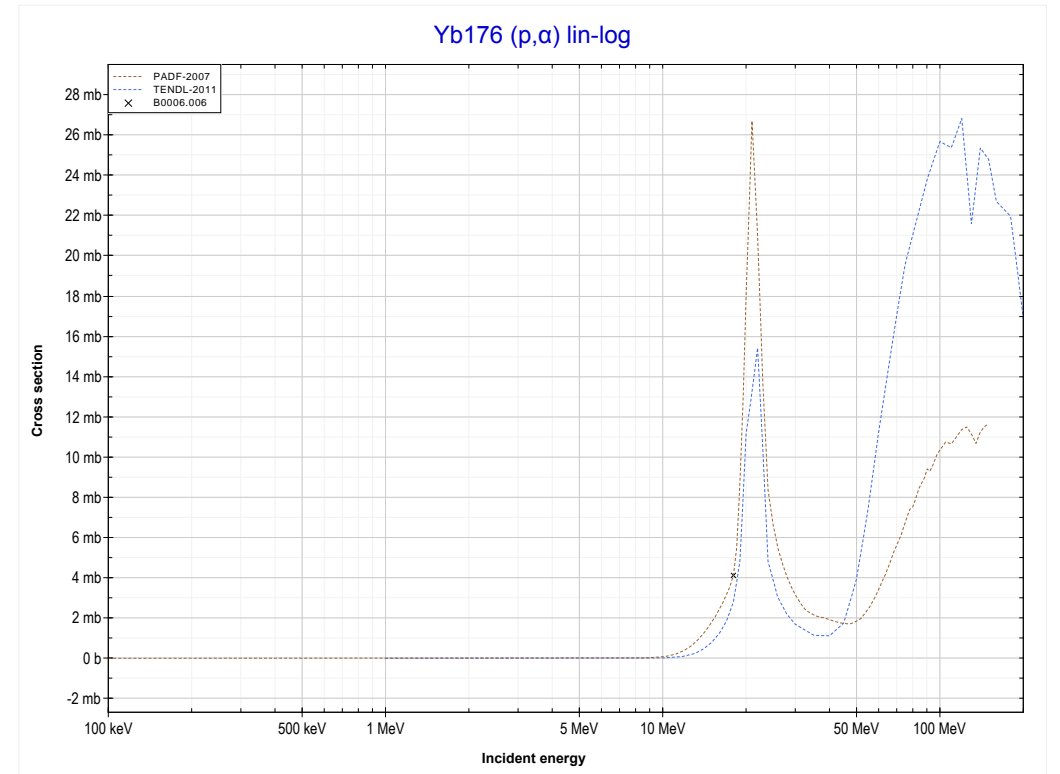
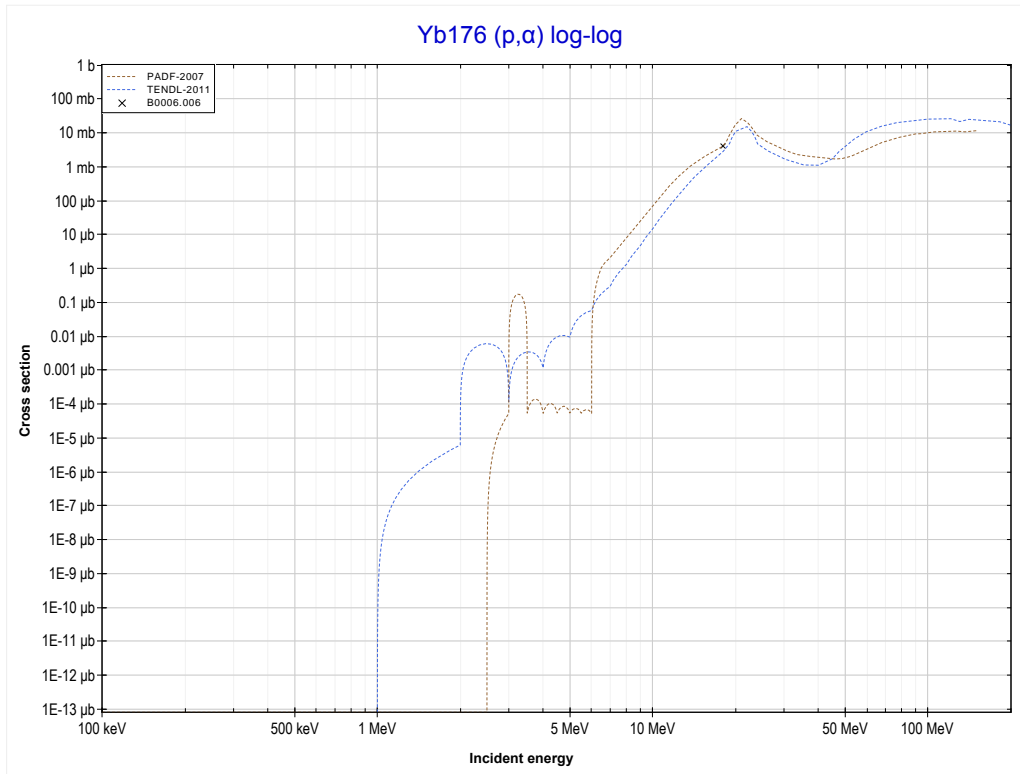


<< 64-Gd-156	<b>70-Yb-171</b>	70-Yb-176 >>
<< MT37 (p,4n)	<b>MT107 (p,<math>\alpha</math>) or MT5 (Tm168 production)</b>	MT107 (p, $\alpha$ ) >>



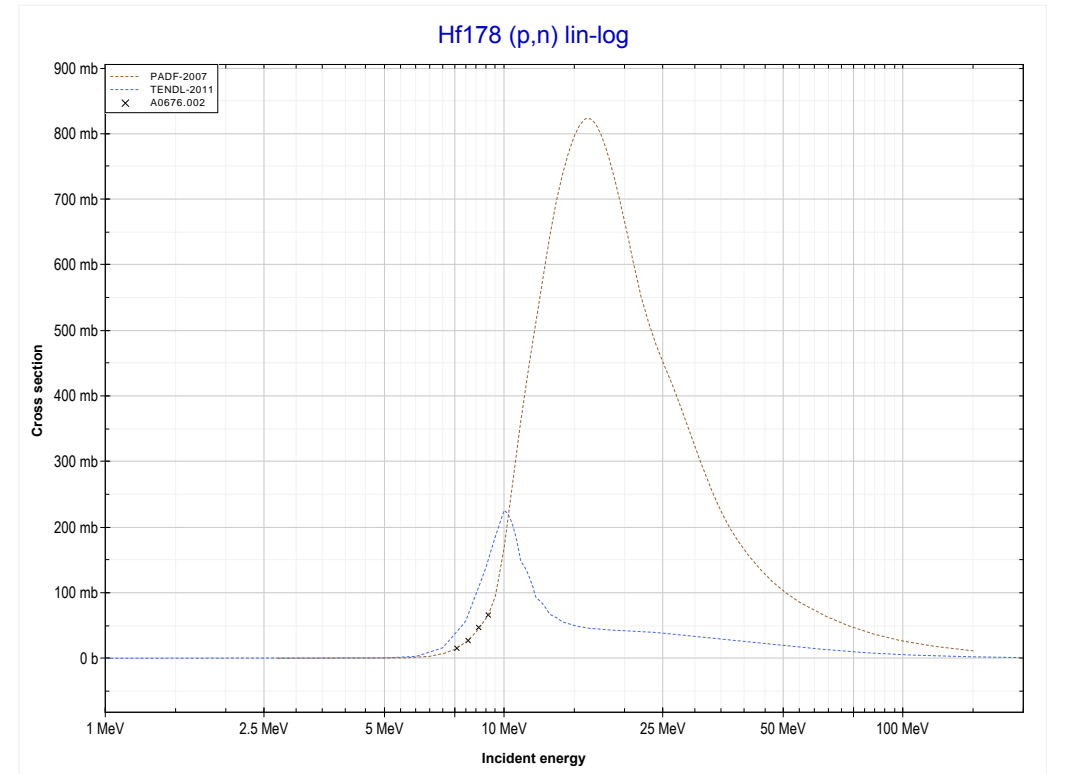
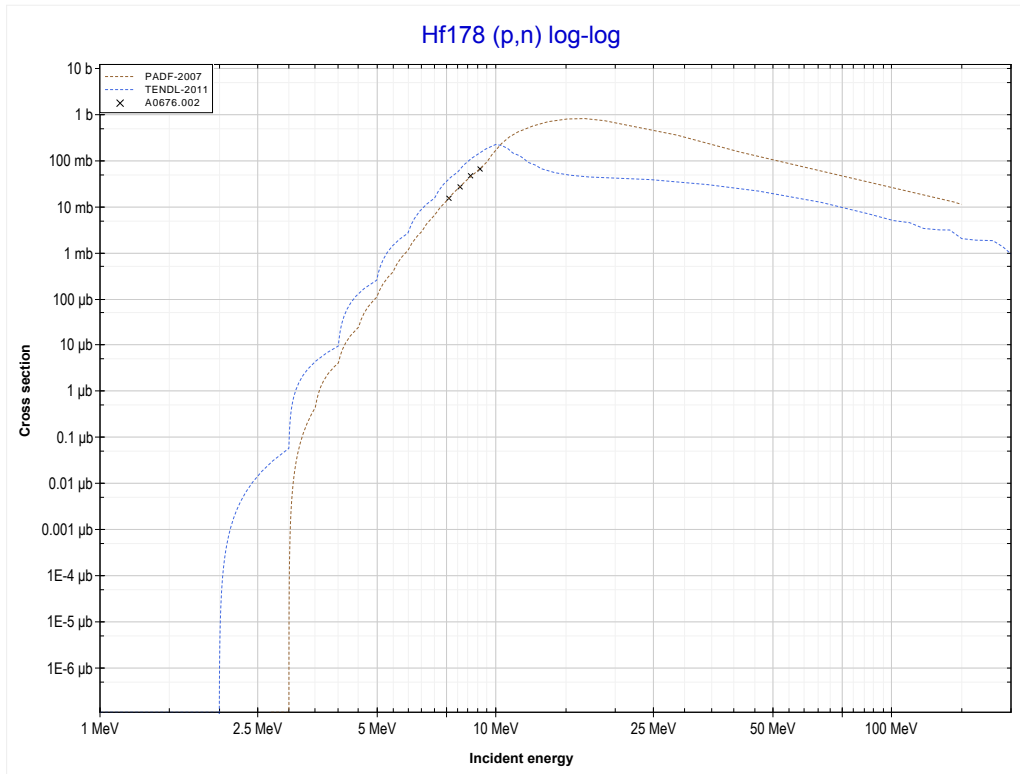
Reaction	Q-Value
Yb171(p, $\alpha$ )Tm168	6869.65 keV
Yb171(p,p+t)Tm168	-12944.21 keV
Yb171(p,n+He3)Tm168	-13707.96 keV
Yb171(p,2d)Tm168	-16976.87 keV
Yb171(p,n+p+d)Tm168	-19201.44 keV
Yb171(p,2n+2p)Tm168	-21426.00 keV

<< 70-Yb-171	<b>70-Yb-176</b>	79-Au-197 >>
<< MT107 (p, $\alpha$ )	<b>MT107 (p,<math>\alpha</math>) or MT5 (Tm173 production)</b>	MT4 (p,n) >>



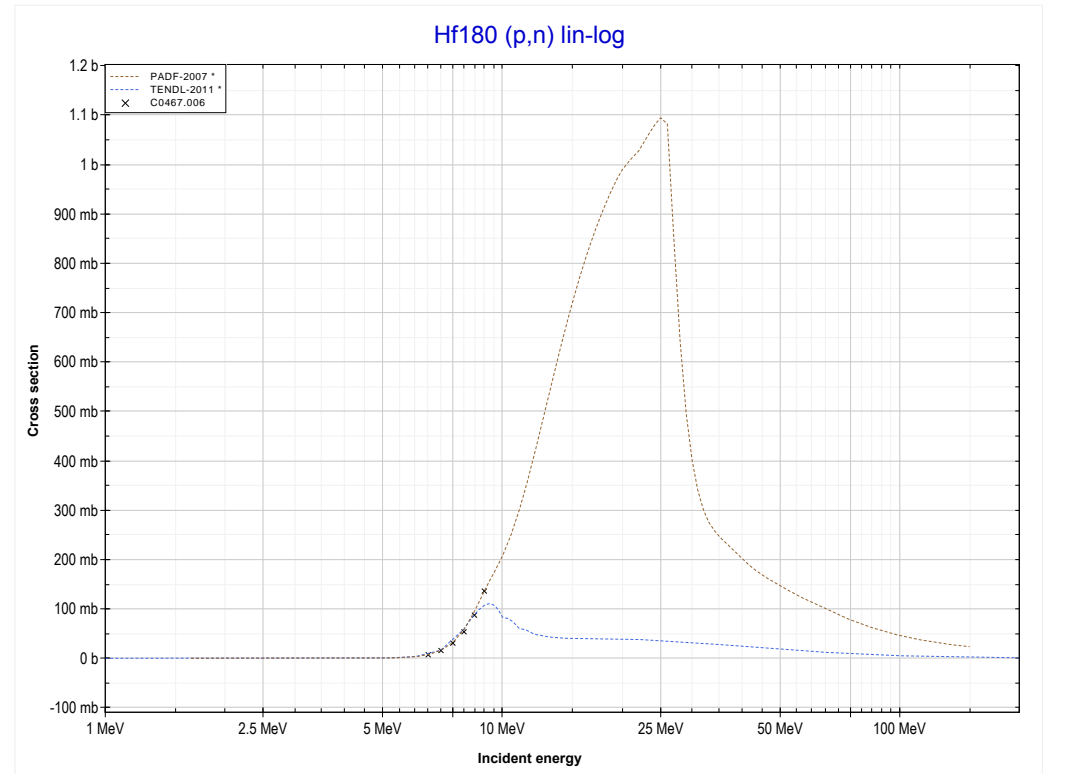
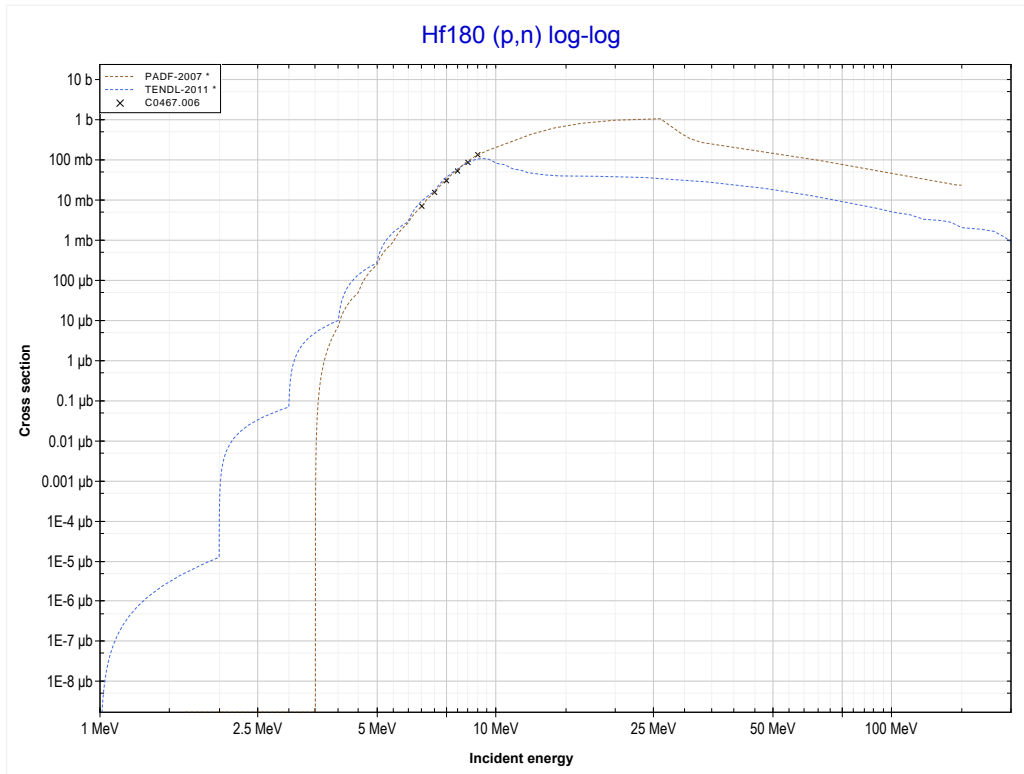
Reaction	Q-Value
Yb176(p, $\alpha$ )Tm173	7628.95 keV
Yb176(p,p+t)Tm173	-12184.91 keV
Yb176(p,n+He3)Tm173	-12948.66 keV
Yb176(p,2d)Tm173	-16217.57 keV
Yb176(p,n+p+d)Tm173	-18442.14 keV
Yb176(p,2n+2p)Tm173	-20666.70 keV

<< 69-Tm-169	<b>72-Hf-178</b>	72-Hf-180 >>
<< MT107 (p, $\alpha$ )	<b>MT4 (p,n) or MT5 (Ta178 production)</b>	MT4 (p,n) >>



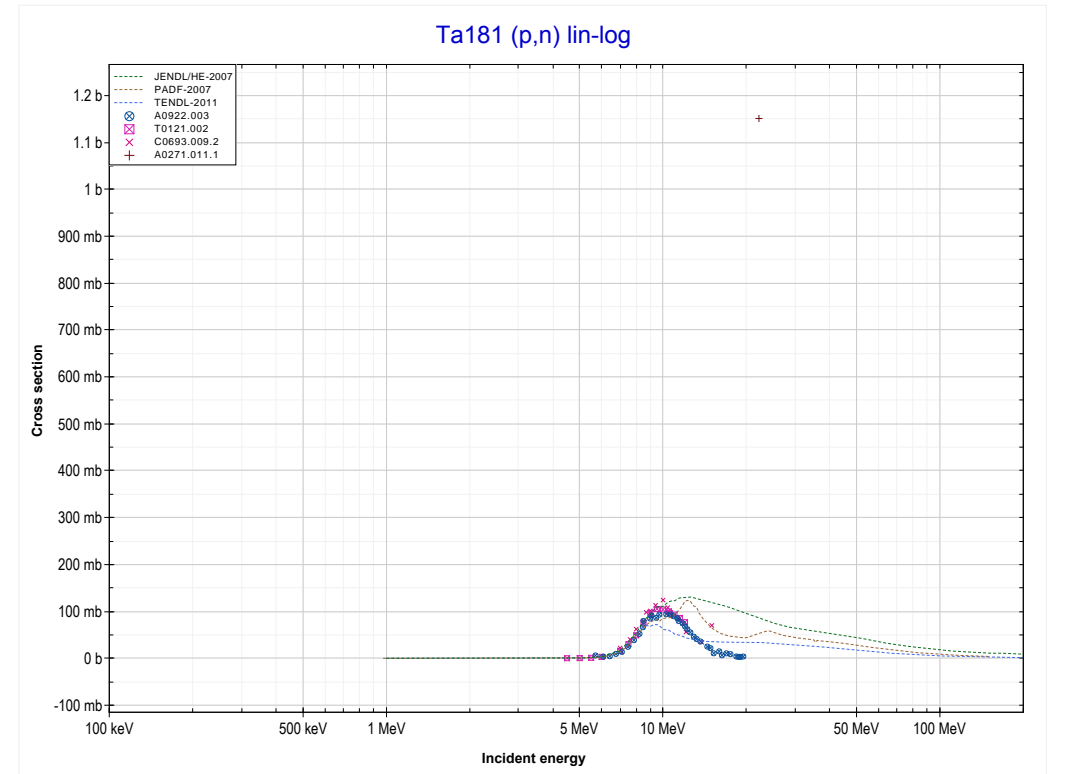
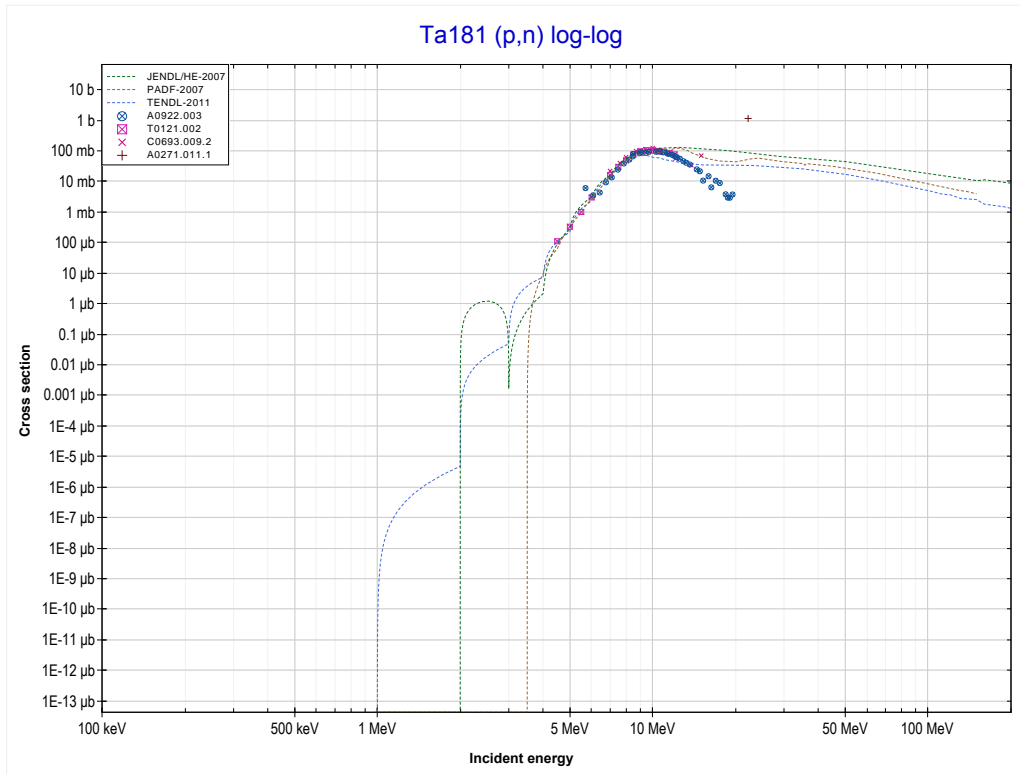
Reaction	Q-Value
Hf178(p,n)Ta178	-2719.65 keV

<< 72-Hf-178	<b>72-Hf-180</b>	73-Ta-181 >>
<< MT4 (p,n)	<b>MT4 (p,n) or MT5 (Ta180 production)</b>	MT4 (p,n) >>



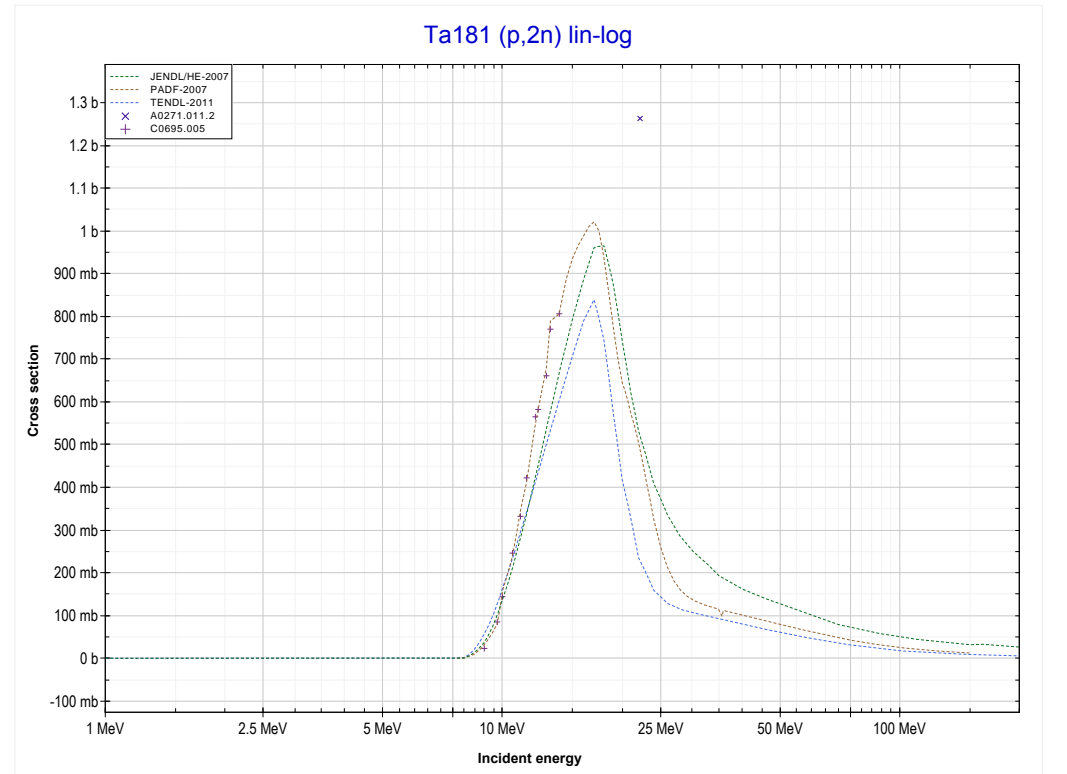
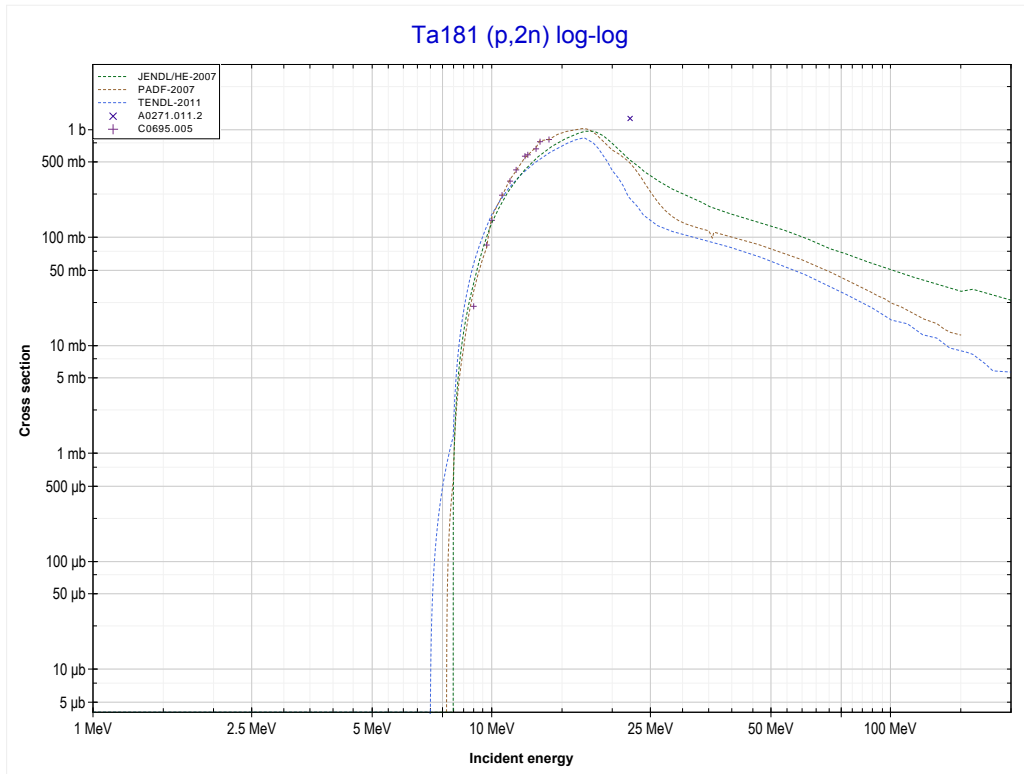
Reaction	Q-Value
Hf180(p,n)Ta180	-1634.55 keV

<< 72-Hf-180	<b>73-Ta-181</b>	74-W-184 >>
<< MT4 (p,n)	<b>MT4 (p,n) or MT5 (W181 production)</b>	MT16 (p,2n) >>



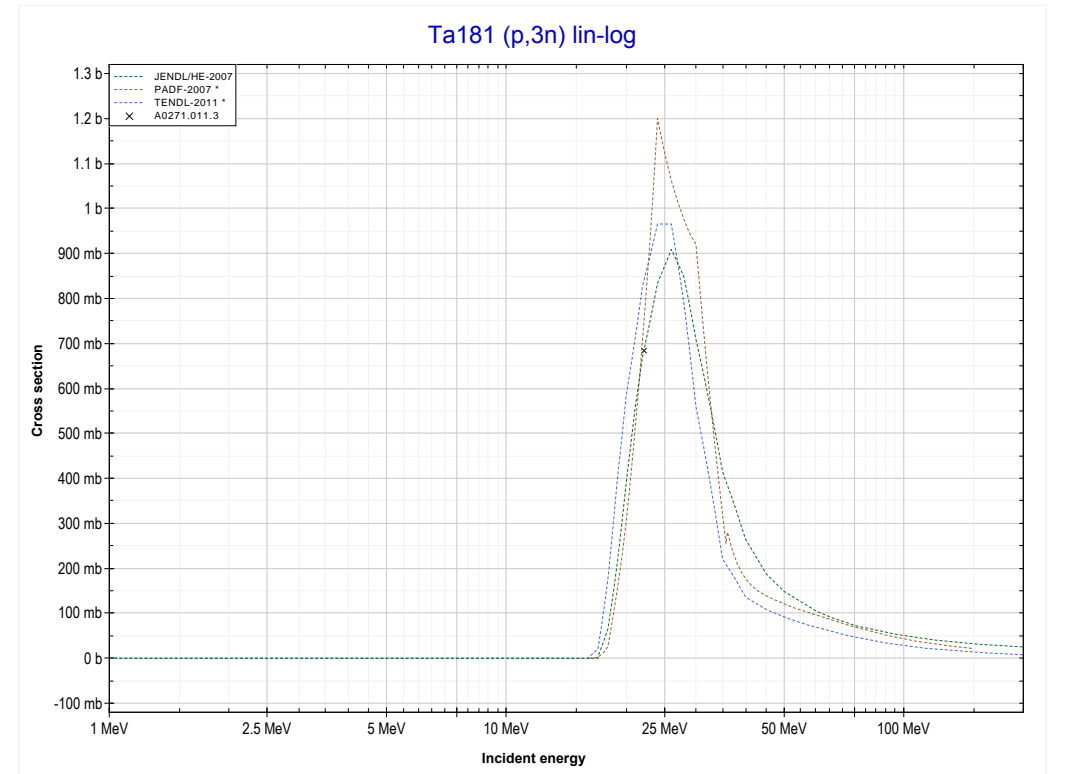
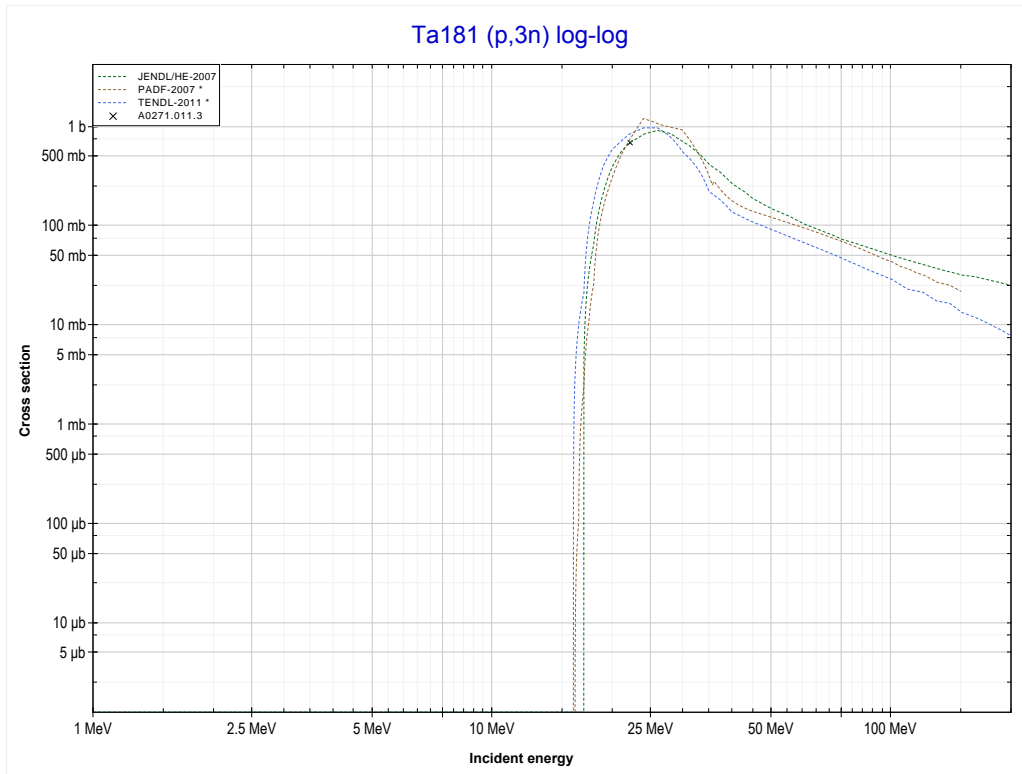
Reaction	Q-Value
Ta181(p,n)W181	-969.95 keV

<< 68-Er-167	<b>73-Ta-181</b>	74-W-182 >>
<< MT4 (p,n)	<b>MT16 (p,2n) or MT5 (W180 production)</b>	MT17 (p,3n) >>



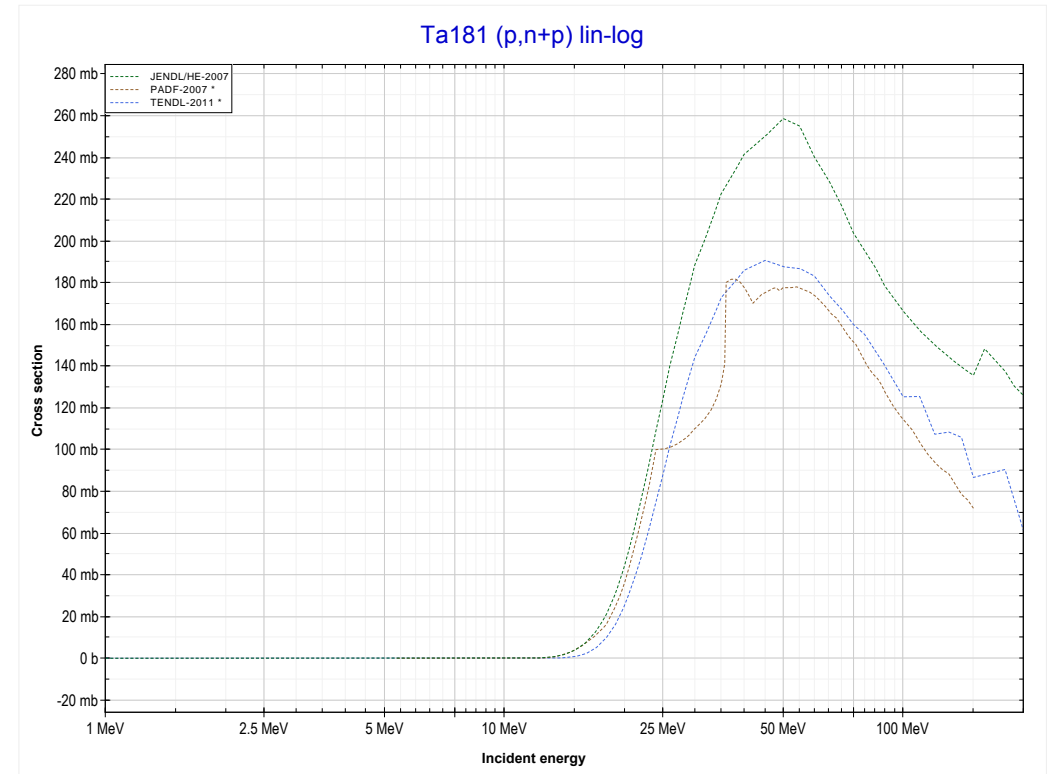
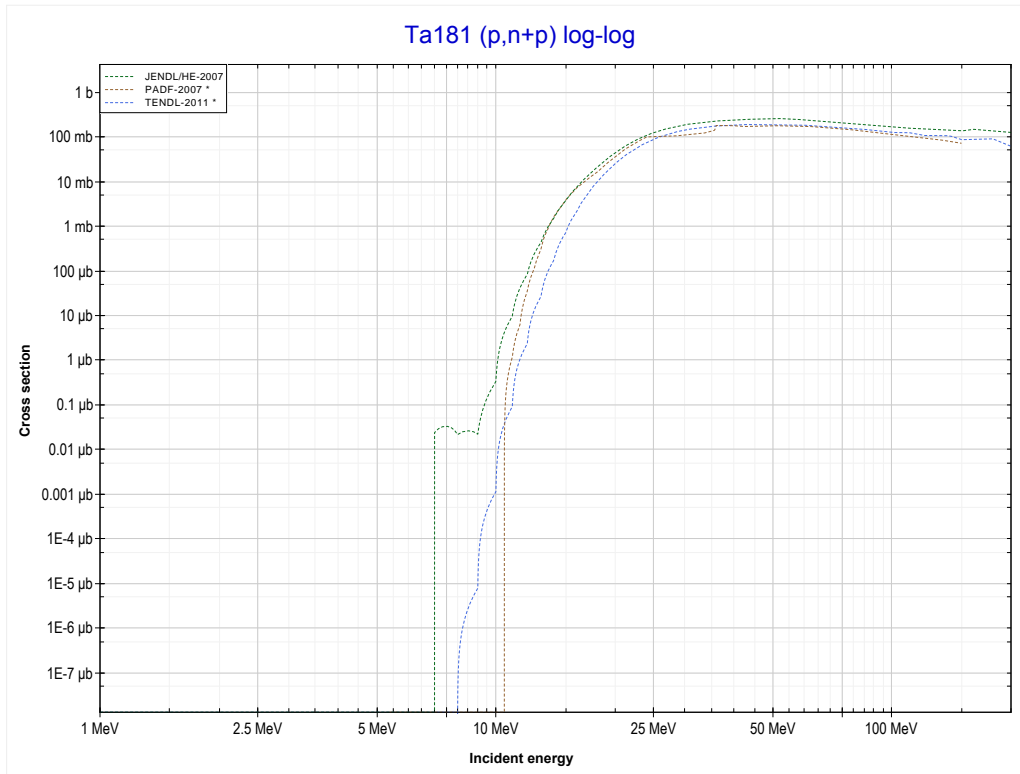
Reaction	Q-Value
Ta181(p,2n)W180	-7651.26 keV

<< 69-Tm-169	<b>73-Ta-181</b>	76-Os-192 >>
<< MT16 (p,2n)	<b>MT17 (p,3n) or MT5 (W179 production)</b>	MT28 (p,n+p) >>



Reaction	Q-Value
Ta181(p,3n)W179	-16062.58 keV

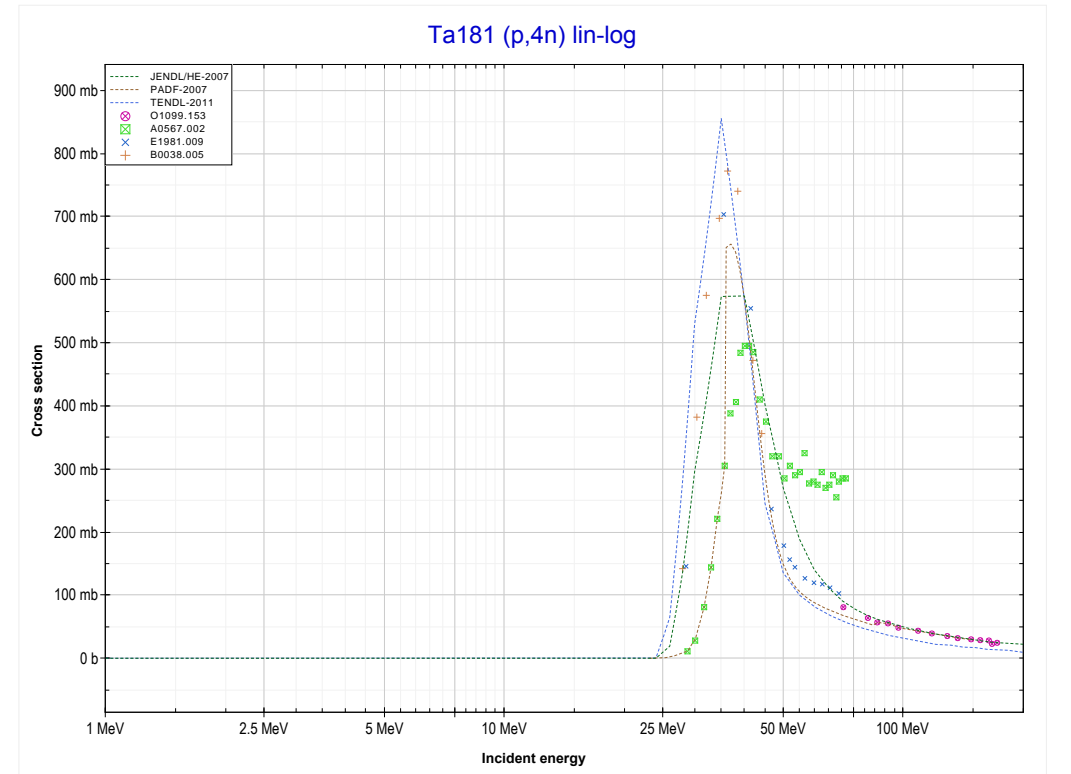
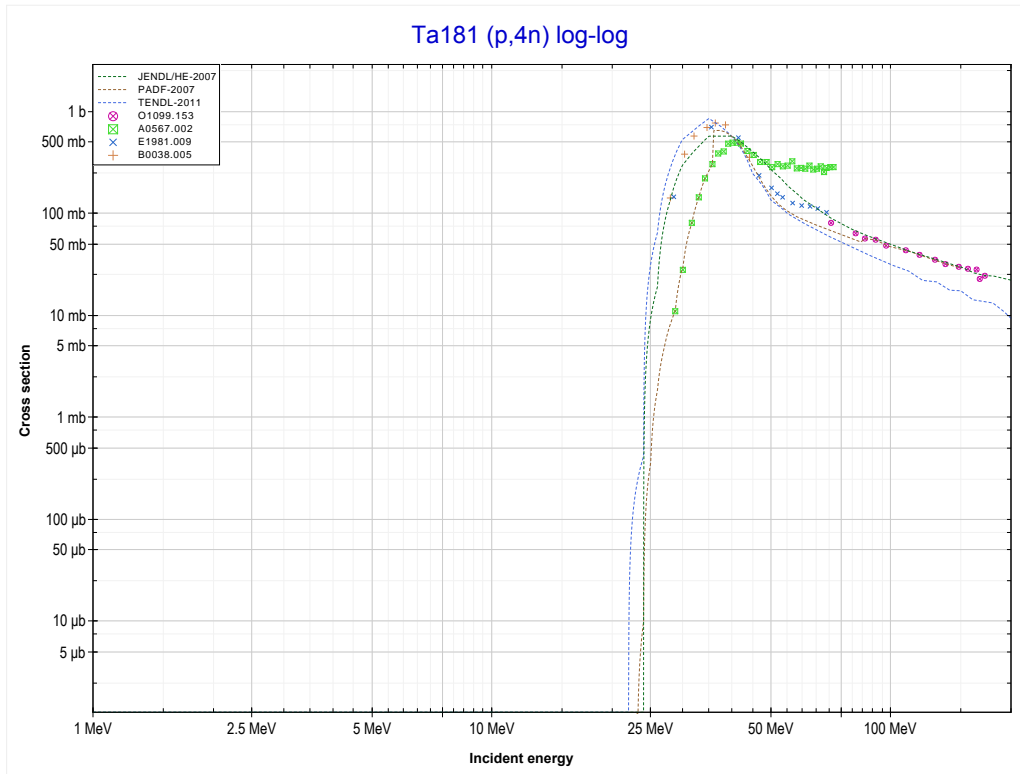
<< 58-Ce-142	<b>73-Ta-181</b>	74-W-186 >>
<< MT17 (p,3n)	<b>MT28 (p,n+p) or MT5 (Ta180 production)</b>	MT37 (p,4n) >>



Reaction	Q-Value
Ta181(p,d)Ta180	-5352.15 keV
Ta181(p,n+p)Ta180	-7576.72 keV

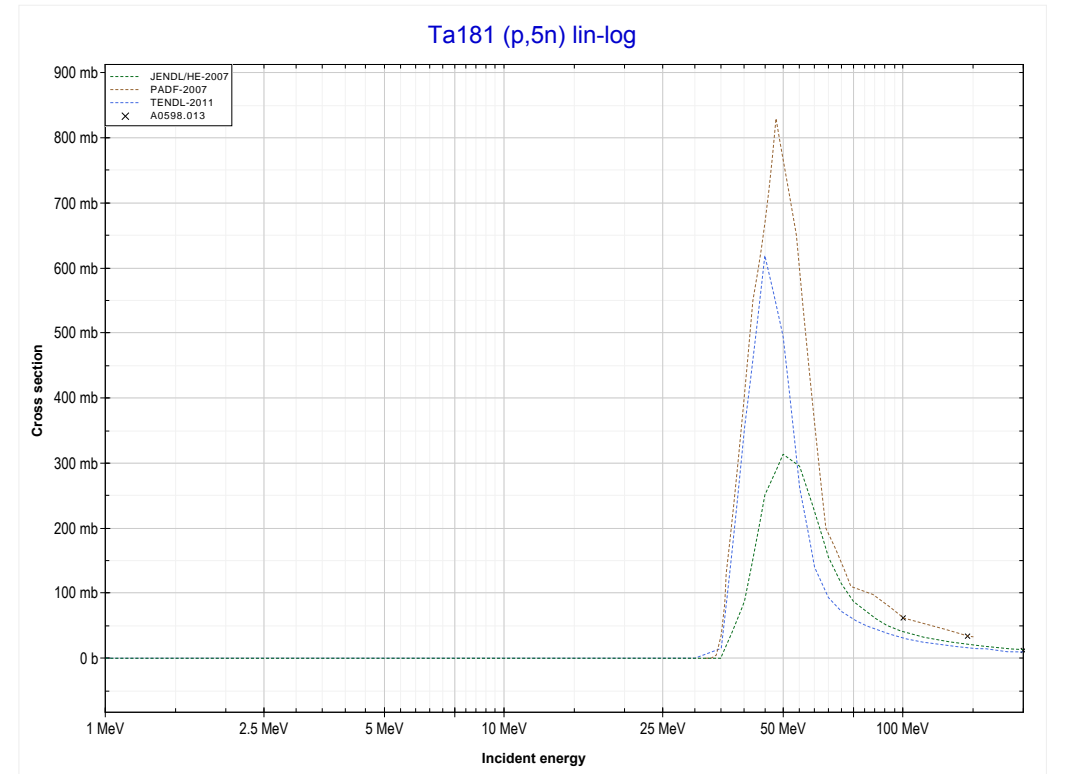
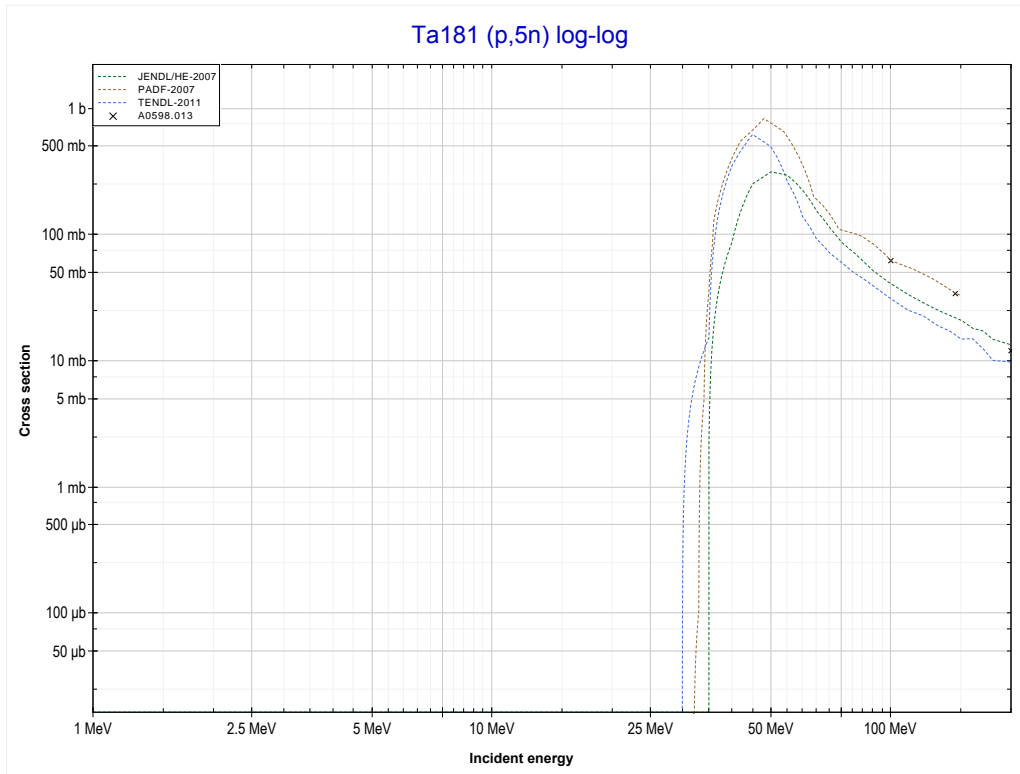


<< 69-Tm-169	<b>73-Ta-181</b>	76-Os-192 >>
<< MT28 (p,n+p)	<b>MT37 (p,4n) or MT5 (W178 production)</b>	MT152 (p,5n) >>



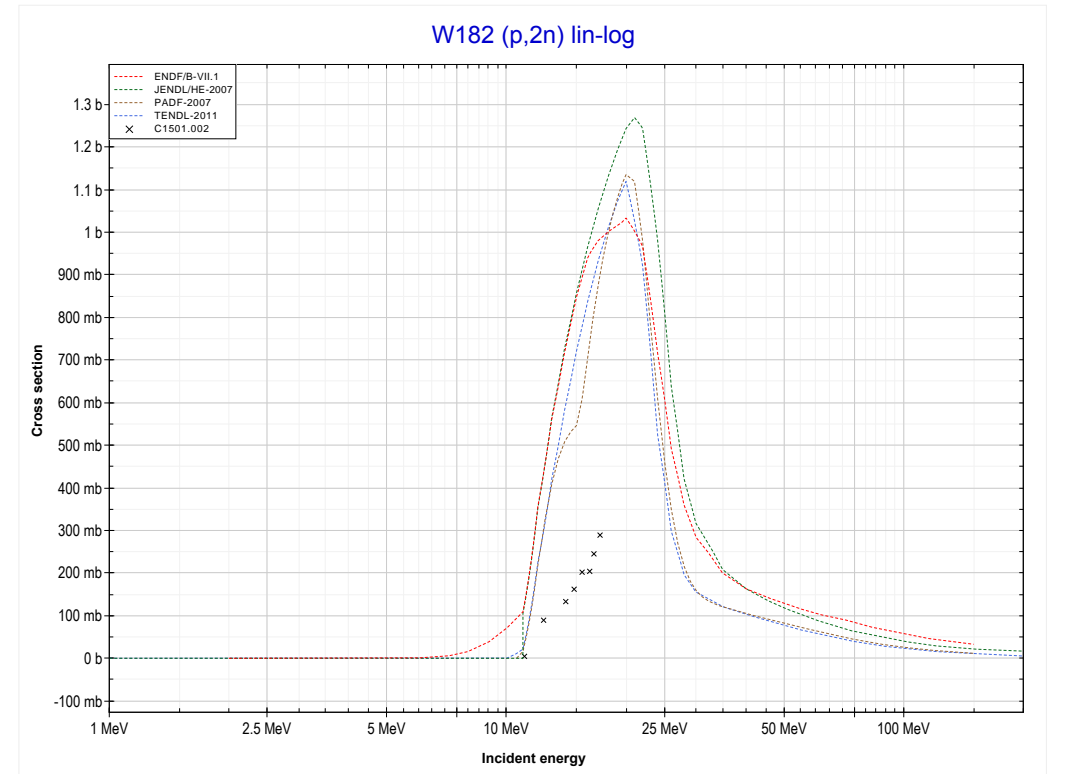
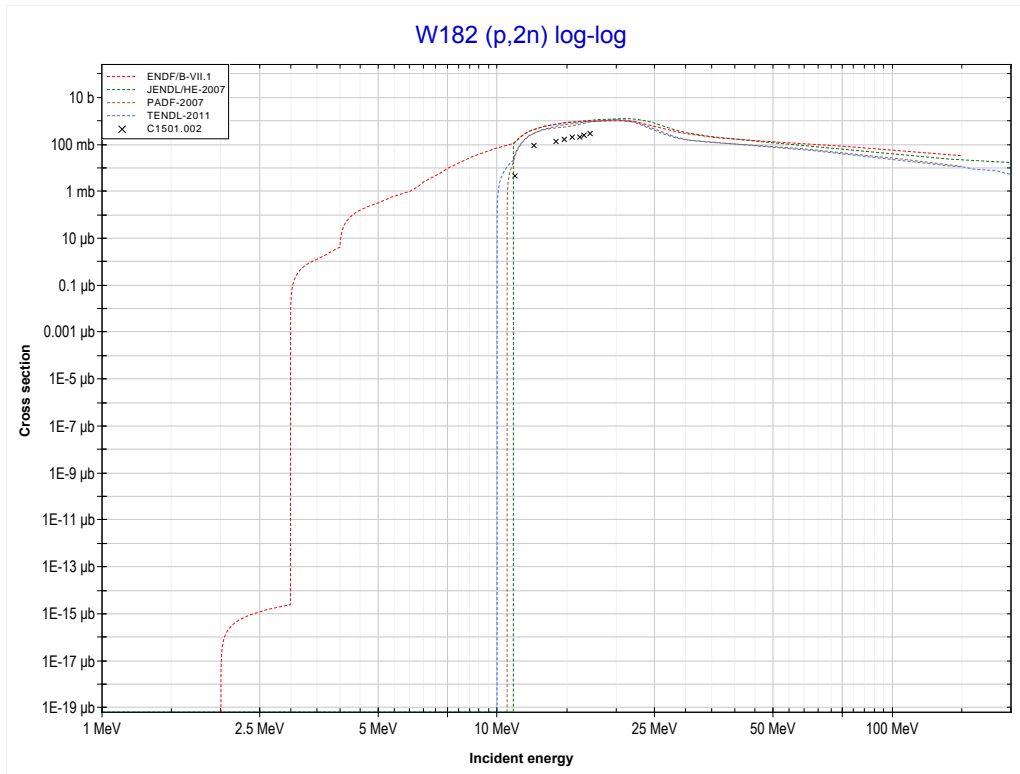
Reaction	Q-Value
Ta181(p,4n)W178	-23021.90 keV

<< 59-Pr-141	<b>73-Ta-181</b>	76-Os-192 >>
<< MT37 (p,4n)	<b>MT152 (p,5n) or MT5 (W177 production)</b>	MT16 (p,2n) >>



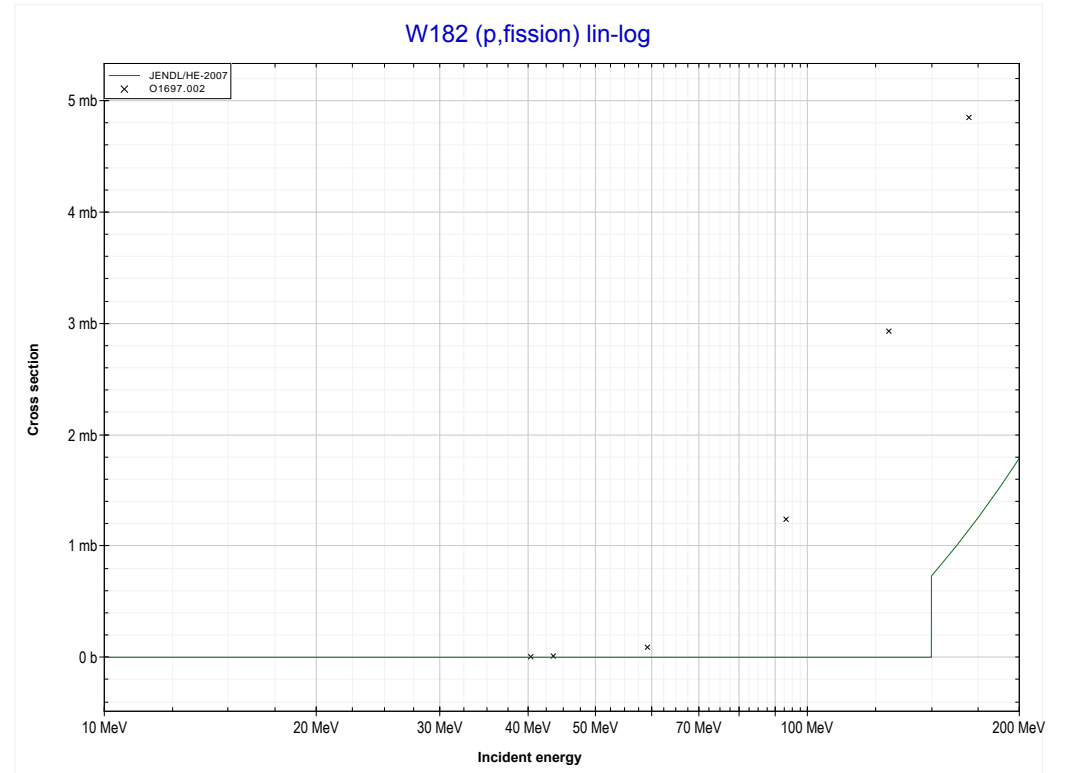
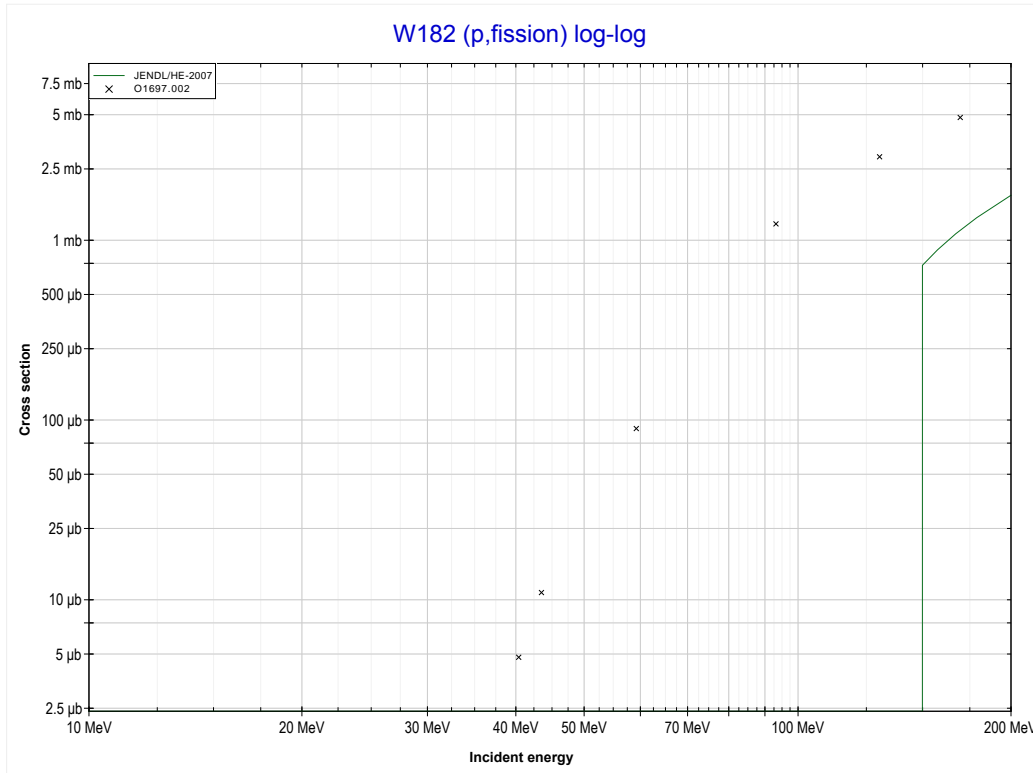
Reaction	Q-Value
Ta181(p,5n)W177	-31807.21 keV

<< 73-Ta-181	<b>74-W-182</b>	79-Au-197 >>
<< MT152 (p,5n)	<b>MT16 (p,2n) or MT5 (Re181 production)</b>	MT18 (p,fission) >>

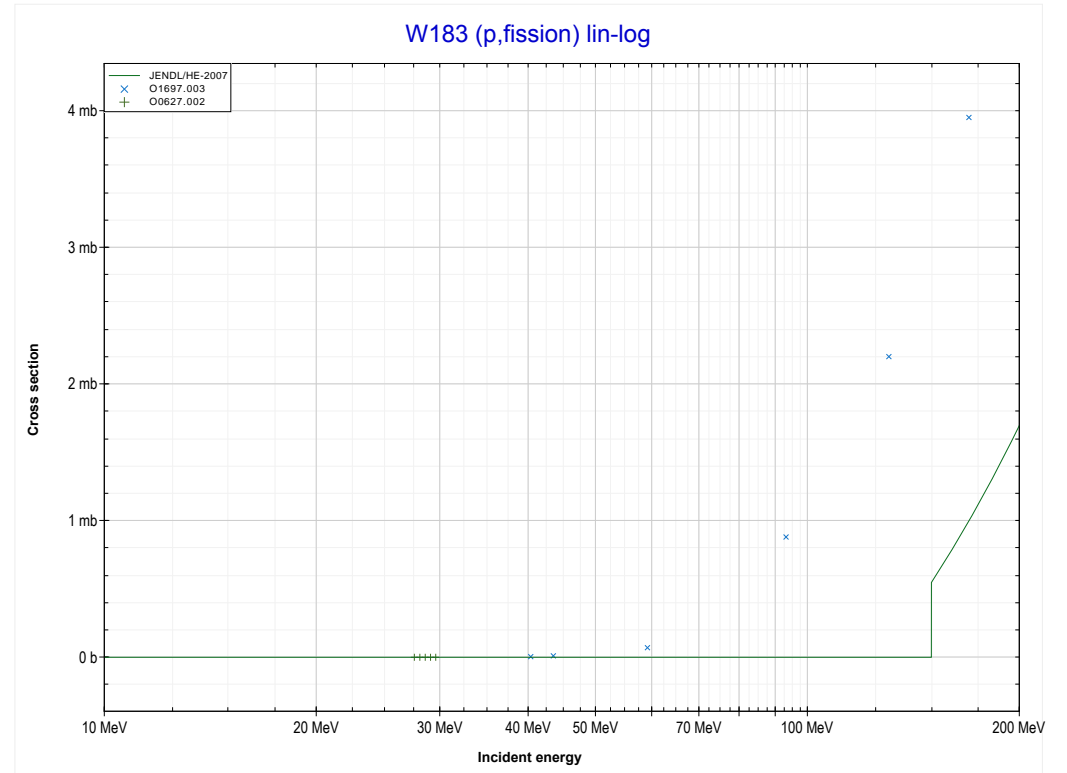
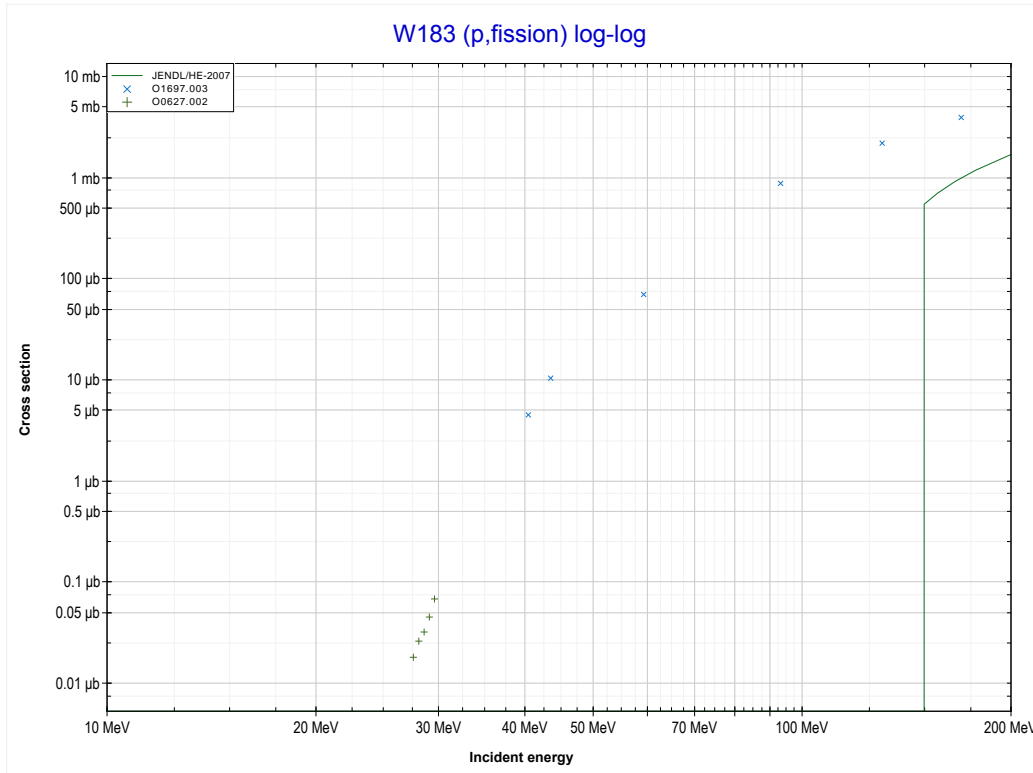


Reaction	Q-Value
W182(p,2n)Re181	-10590.16 keV

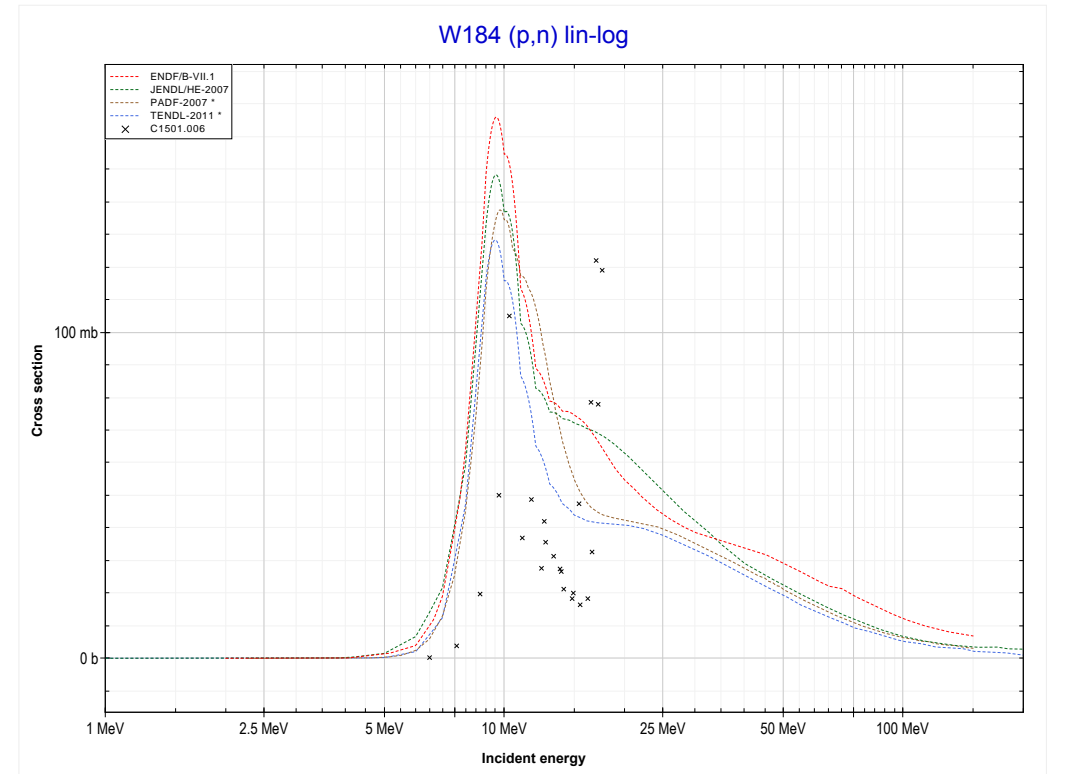
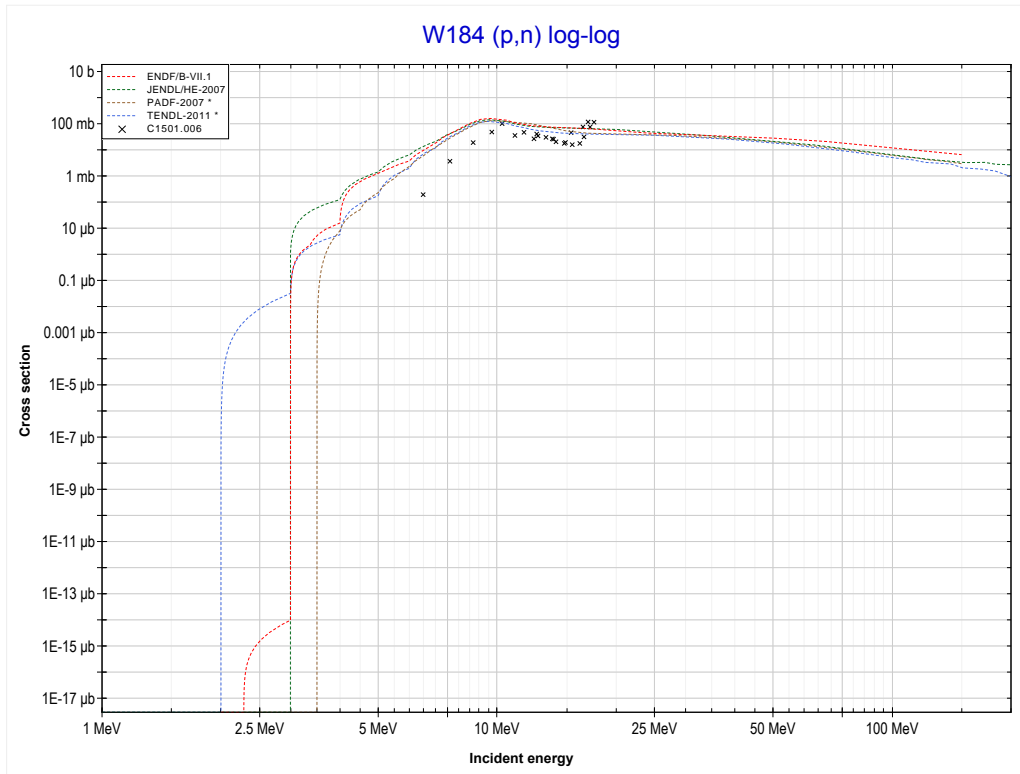
	<b>74-W-182</b>	<b>74-W-183 &gt;&gt;</b>
<b>&lt;&lt; MT16 (p,2n)</b>	<b>MT18 (p,fission)</b>	<b>MT18 (p,fission) &gt;&gt;</b>



<< 74-W-182	<b>74-W-183</b>	74-W-184 >>
<< MT18 (p,fission)	<b>MT18 (p,fission)</b>	MT4 (p,n) >>

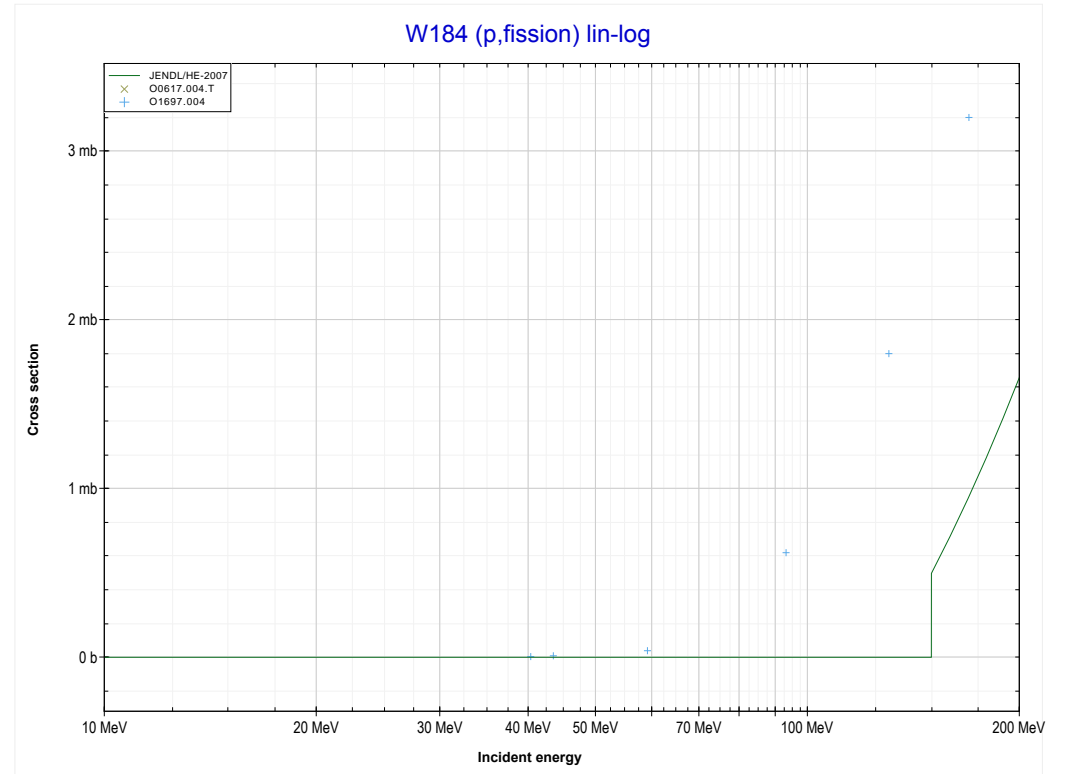
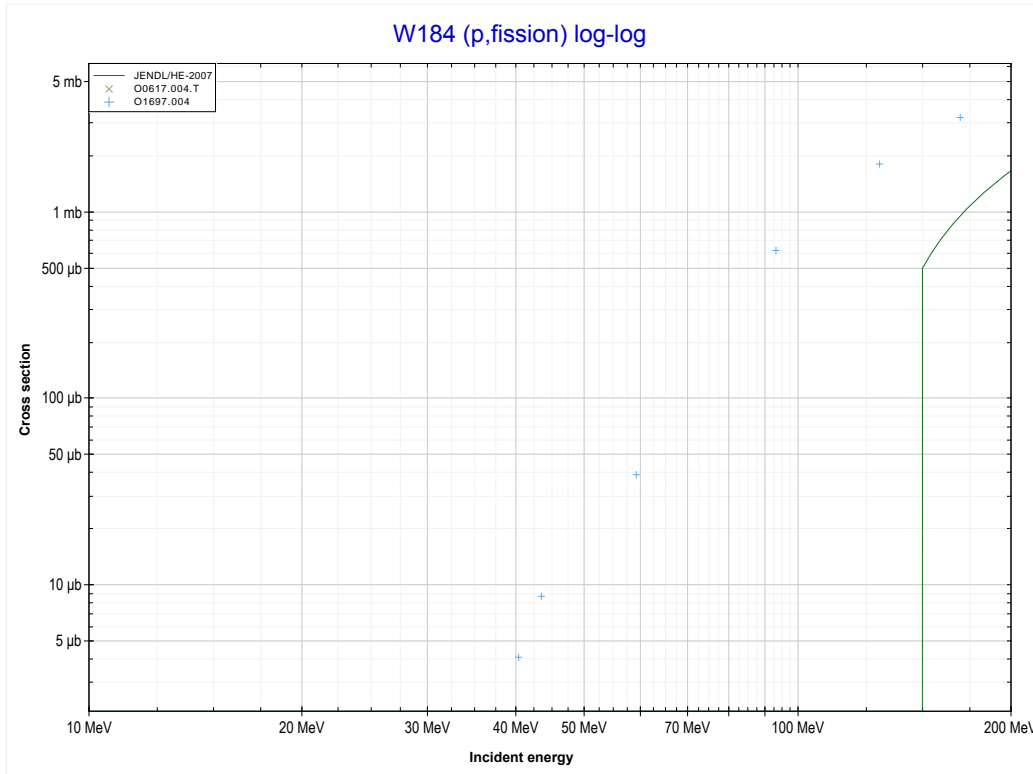


<< 73-Ta-181	<b>74-W-184</b>	74-W-186 >>
<< MT18 (p,fission)	<b>MT4 (p,n) or MT5 (Re184 production)</b>	MT18 (p,fission) >>

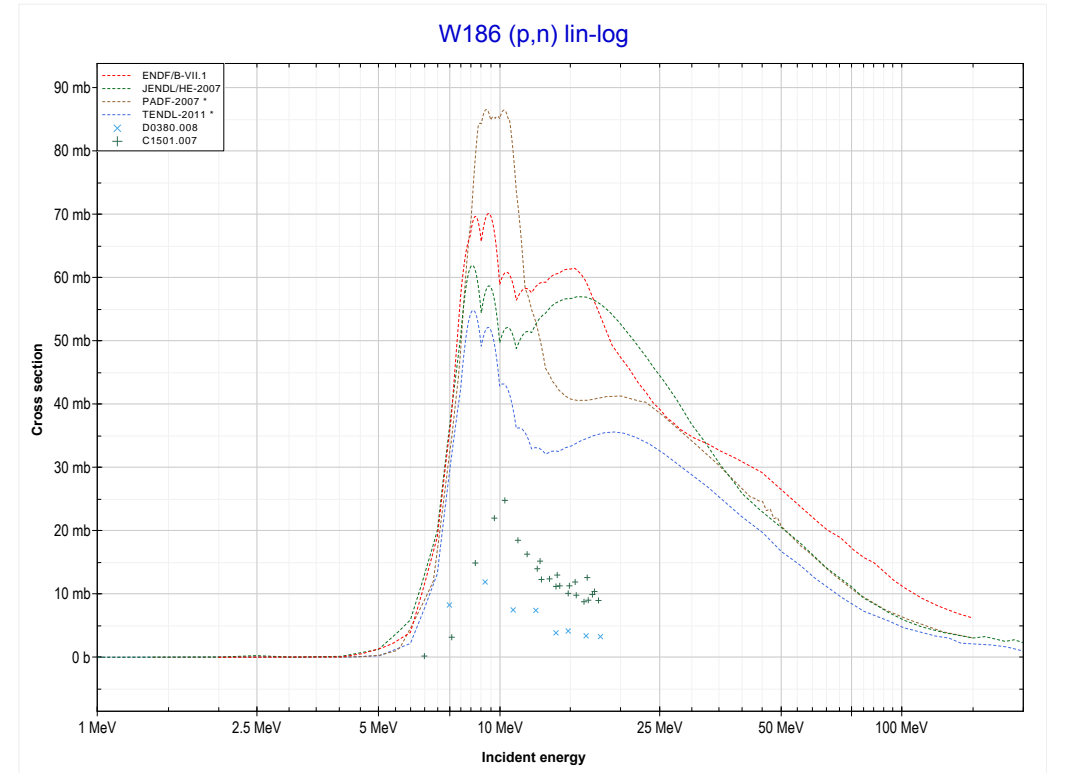
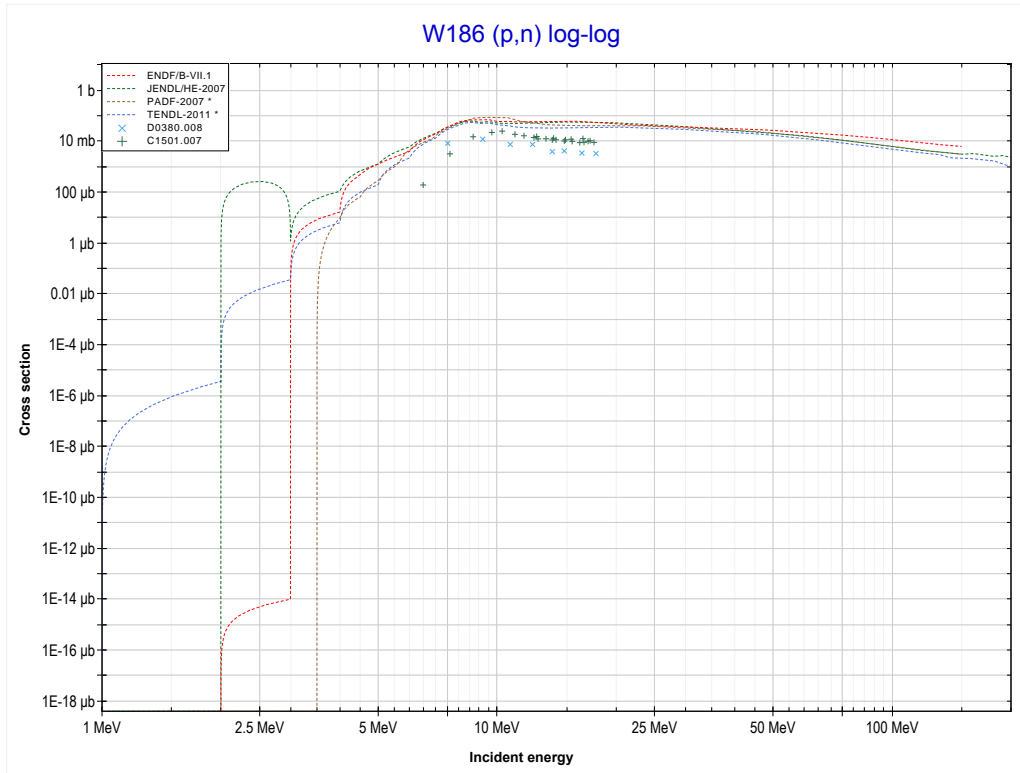


Reaction	Q-Value
W184(p,n)Re184	-2262.65 keV

<< 74-W-183	<b>74-W-184</b>	74-W-186 >>
<< MT4 (p,n)	<b>MT18 (p,fission)</b>	MT4 (p,n) >>



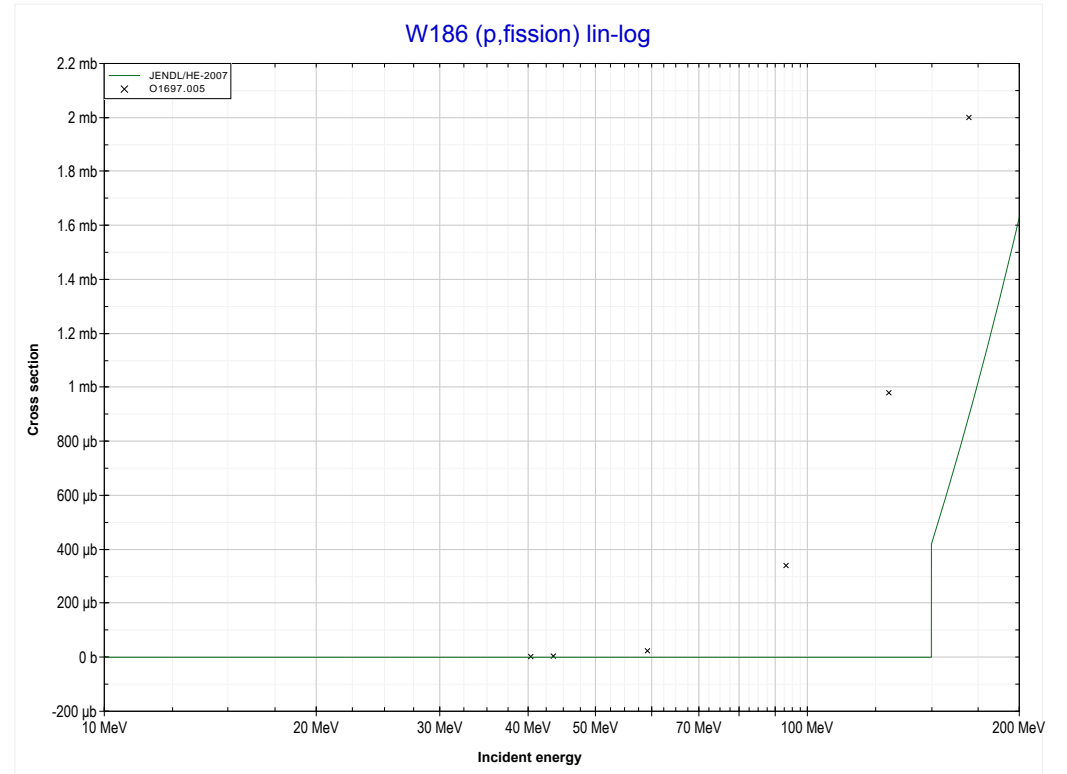
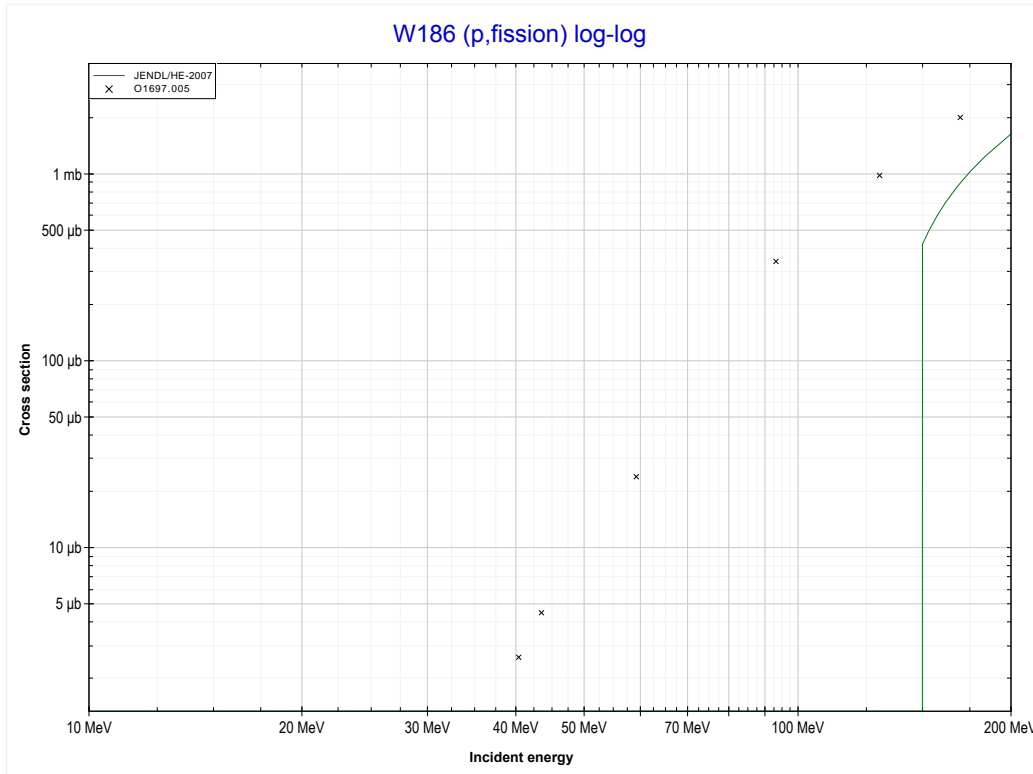
<< 74-W-184	<b>74-W-186</b>	76-Os-192 >>
<< MT18 (p,fission)	<b>MT4 (p,n) or MT5 (Re186 production)</b>	MT18 (p,fission) >>



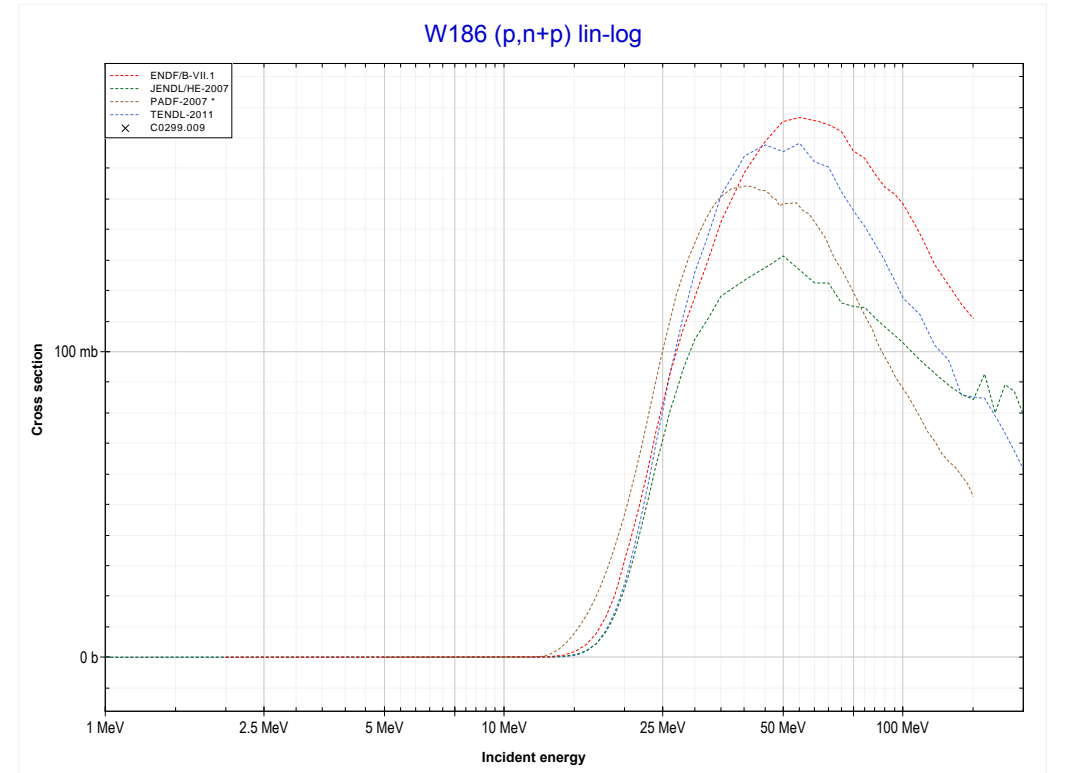
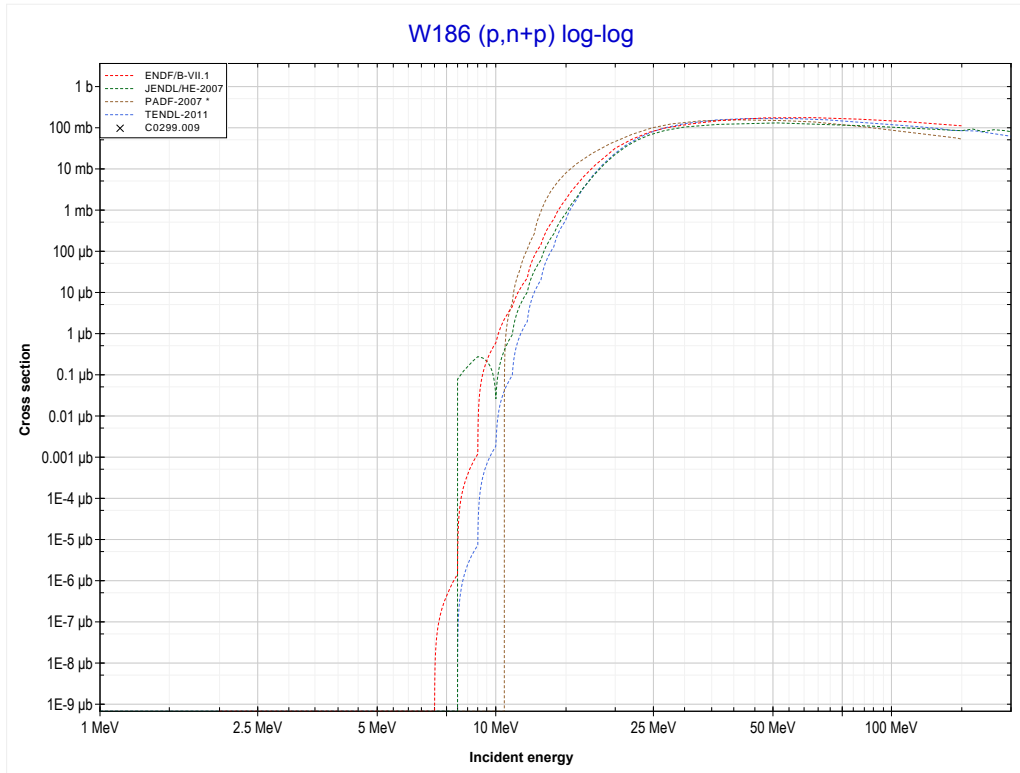
Reaction	Q-Value
W186(p,n)Re186	-1361.65 keV



<< 74-W-184	<b>74-W-186</b>	82-Pb-204 >>
<< MT4 (p,n)	<b>MT18 (p,fission)</b>	MT28 (p,n+p) >>

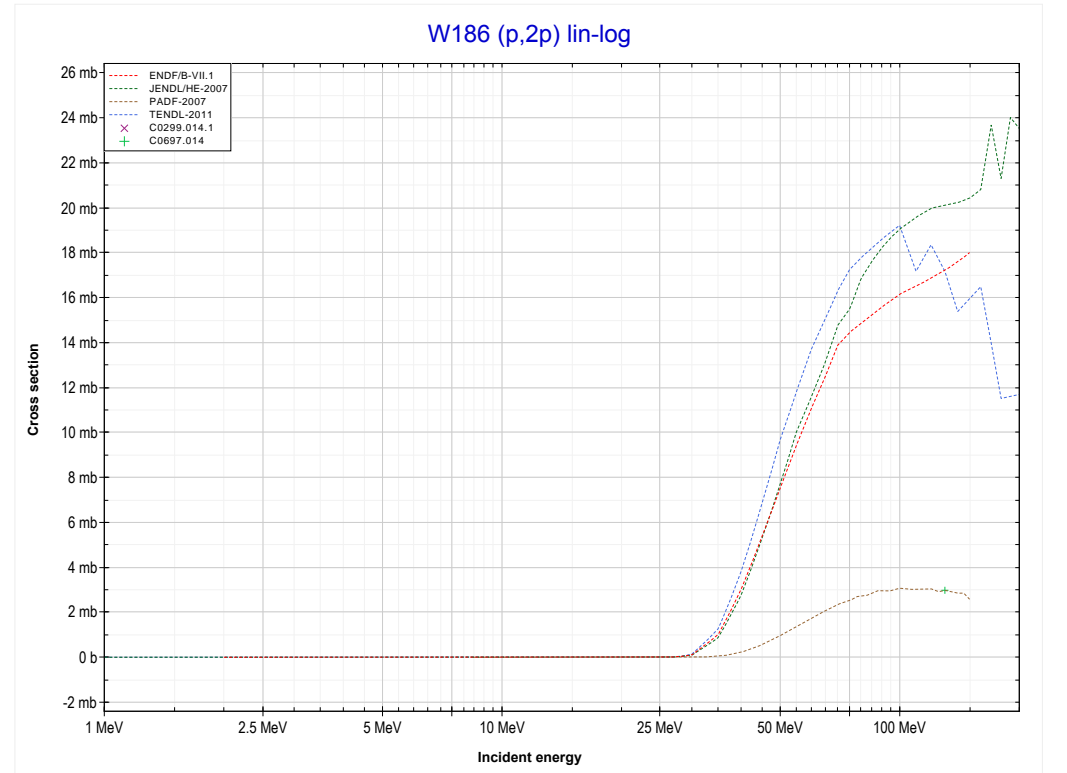
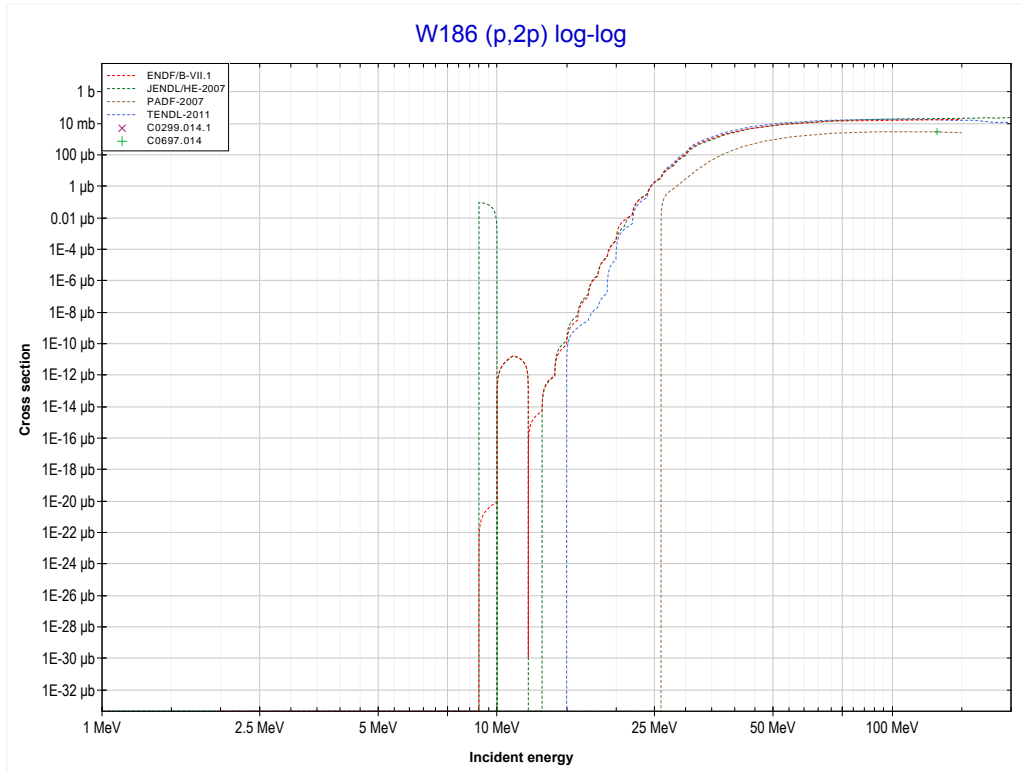


<< 73-Ta-181	<b>74-W-186</b>	75-Re-187 >>
<< MT18 (p,fission)	<b>MT28 (p,n+p) or MT5 (W185 production)</b>	MT111 (p,2p) >>



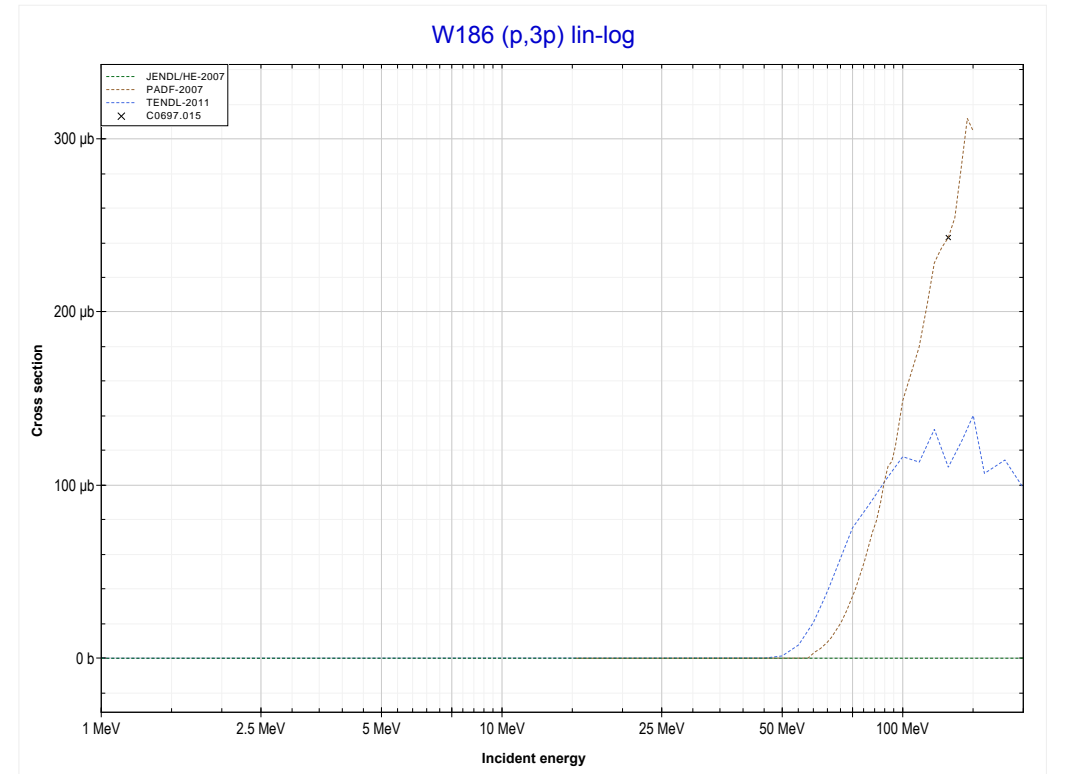
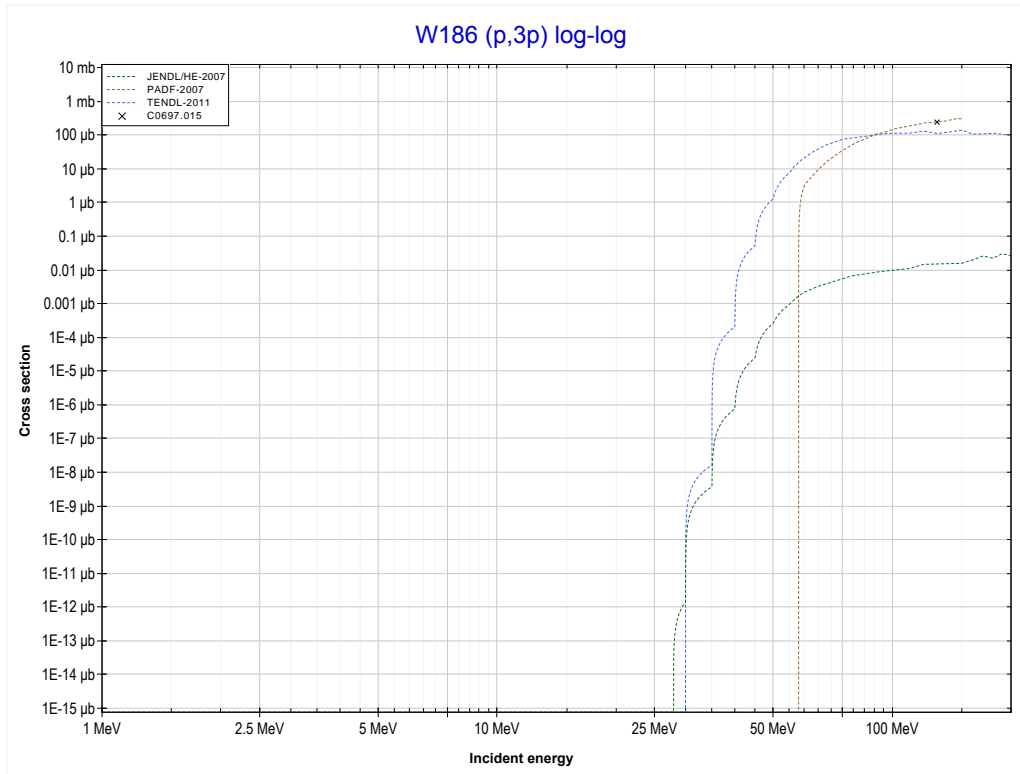
Reaction	Q-Value
W186(p,d)W185	-4966.55 keV
W186(p,n+p)W185	-7191.12 keV

<< 58-Ce-142	<b>74-W-186</b>	80-Hg-202 >>
<< MT28 (p,n+p)	<b>MT111 (p,2p) or MT5 (Ta185 production)</b>	MT197 (p,3p) >>



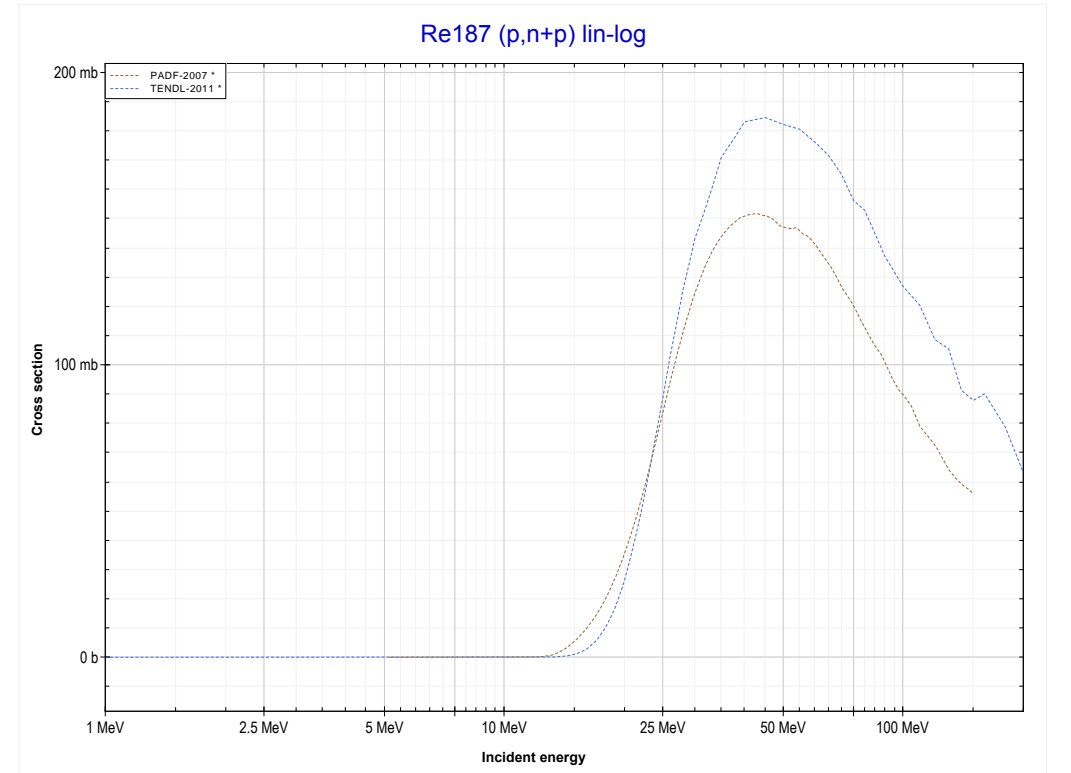
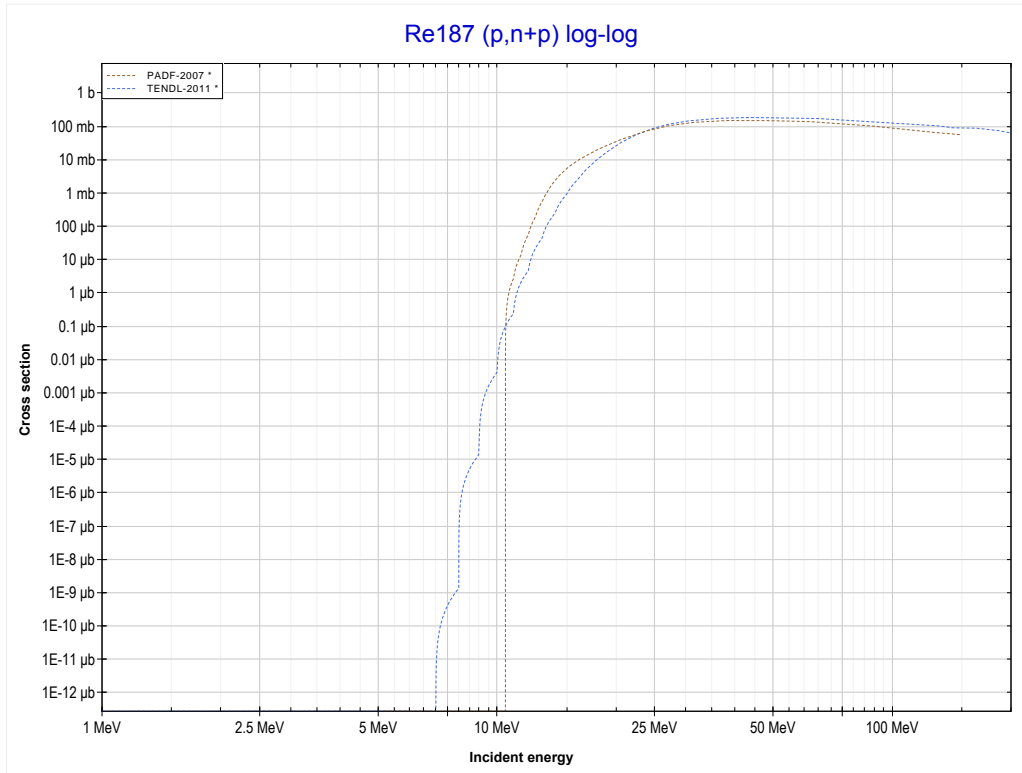
Reaction	Q-Value
W186(p,2p)Ta185	-8402.47 keV

<< 33-As-75	<b>74-W-186</b>	75-Re-187 >>
<< MT111 (p,2p)	<b>MT197 (p,3p) or MT5 (Hf184 production)</b>	MT28 (p,n+p) >>



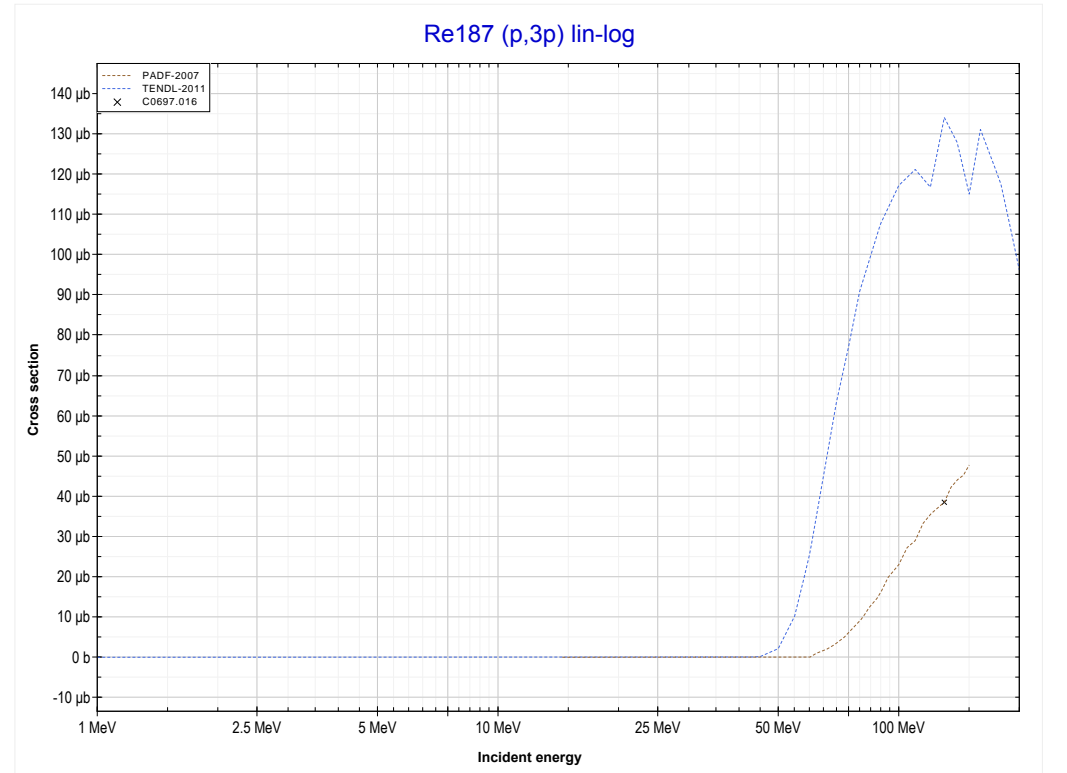
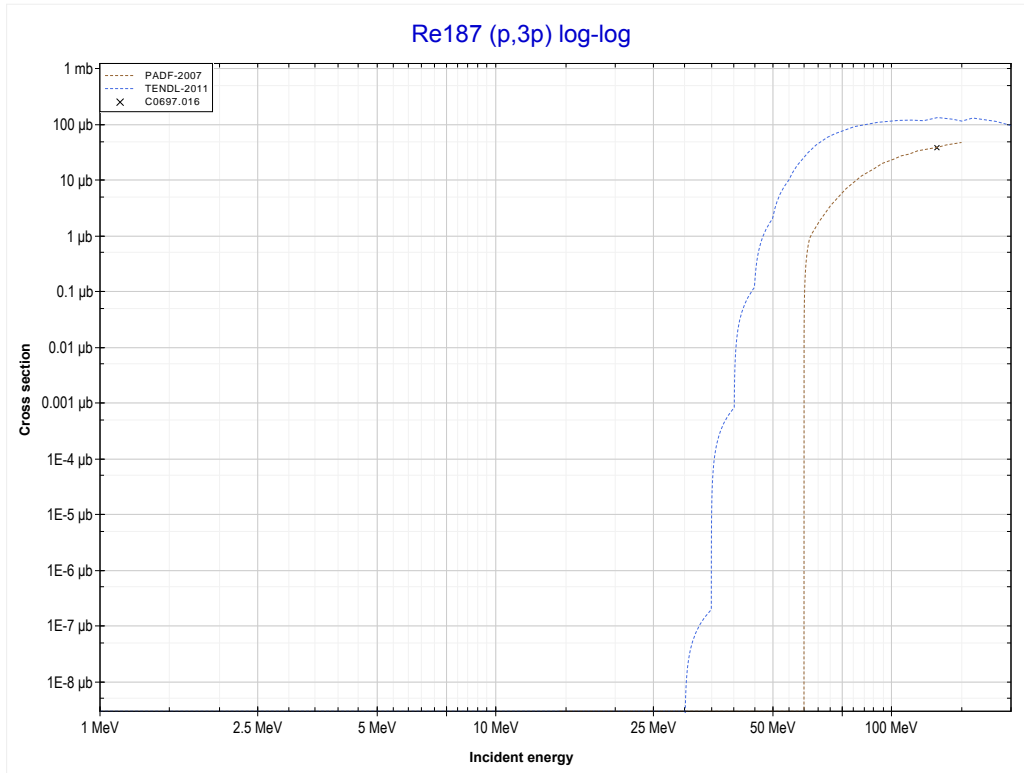
Reaction	Q-Value
W186(p,3p)Hf184	-15587.44 keV

<< 74-W-186	<b>75-Re-187</b>	79-Au-197 >>
<< MT197 (p,3p)	<b>MT28 (p,n+p) or MT5 (Re186 production)</b>	MT197 (p,3p) >>



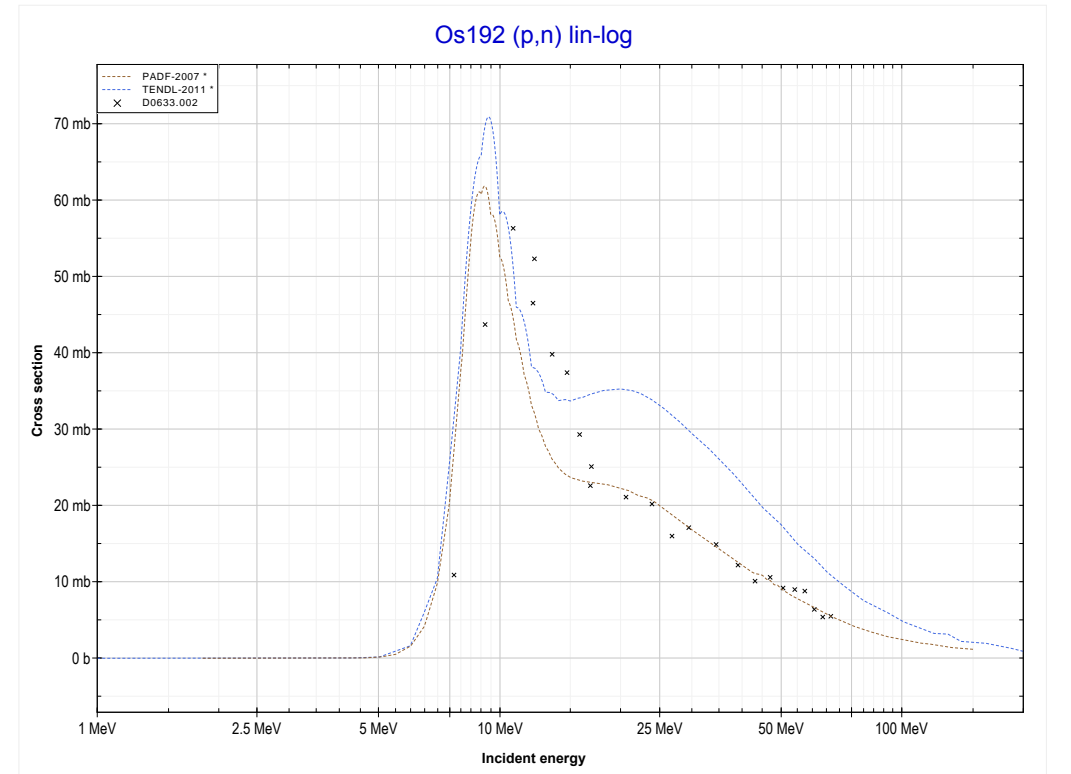
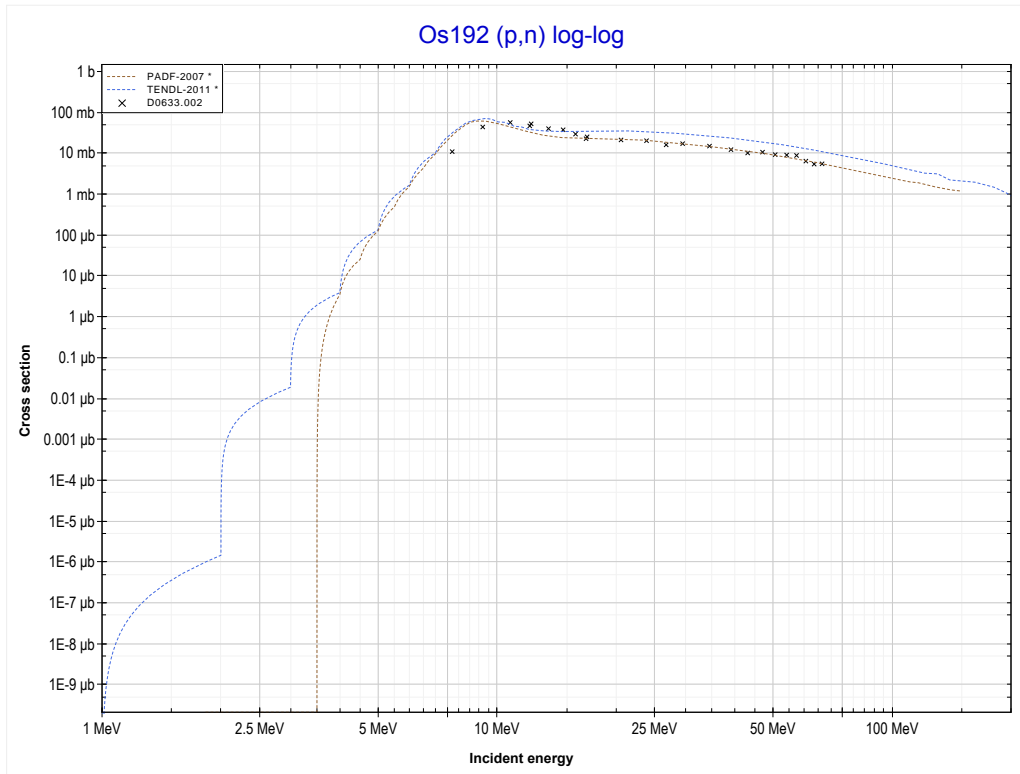
Reaction	Q-Value
Re187(p,d)Re186	-5132.25 keV
Re187(p,n+p)Re186	-7356.82 keV

<< 74-W-186	<b>75-Re-187</b>	
<< MT28 (p,n+p)	<b>MT197 (p,3p) or MT5 (Ta185 production)</b>	MT4 (p,n) >>



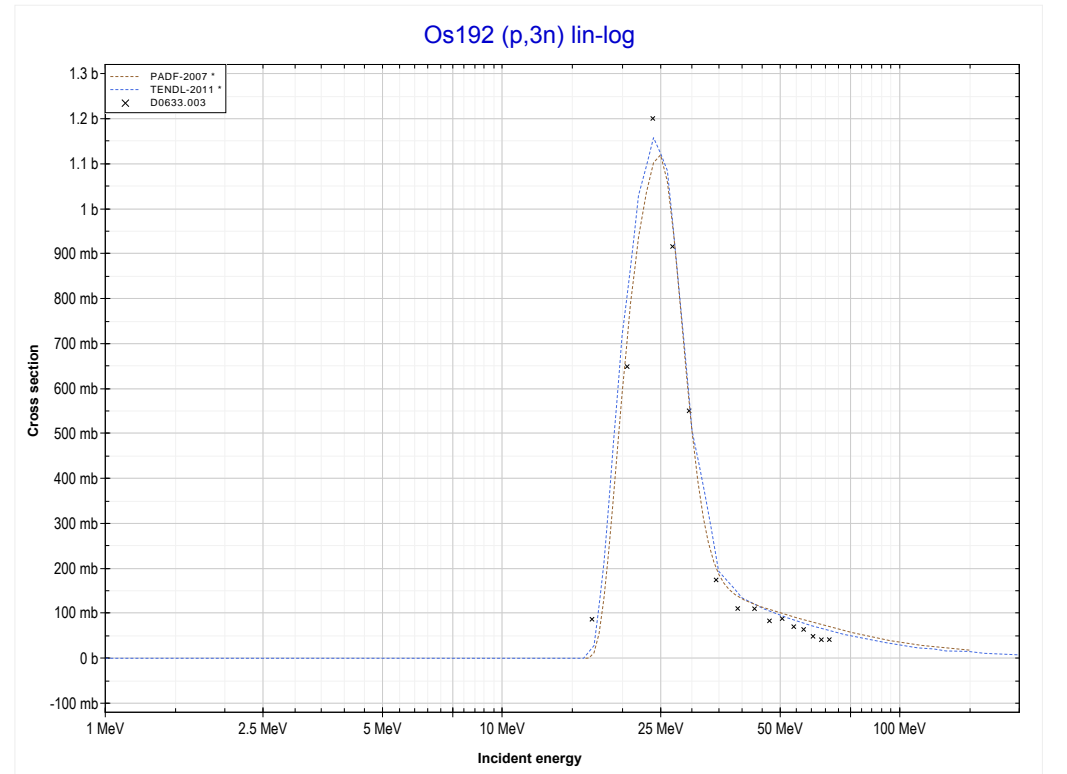
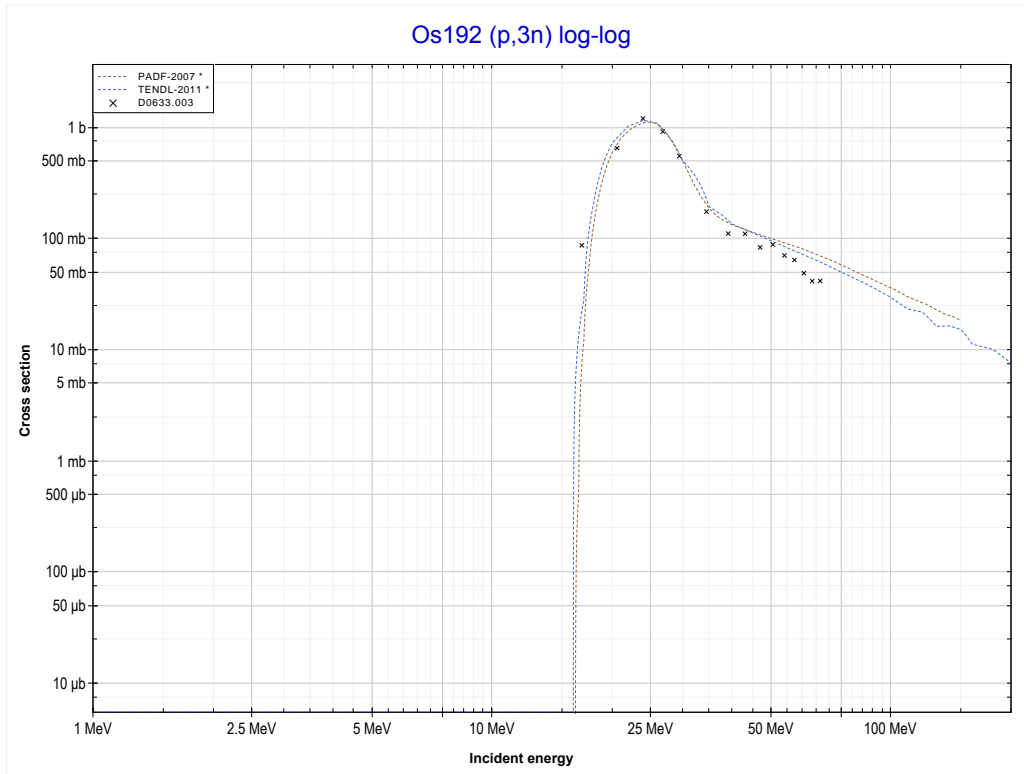
Reaction	Q-Value
Re187(p,3p)Ta185	-14397.64 keV

<< 74-W-186	<b>76-Os-192</b>	78-Pt-198 >>
<< MT197 (p,3p)	<b>MT4 (p,n) or MT5 (Ir192 production)</b>	MT17 (p,3n) >>



Reaction	Q-Value
Os192(p,n)Ir192	-1829.65 keV

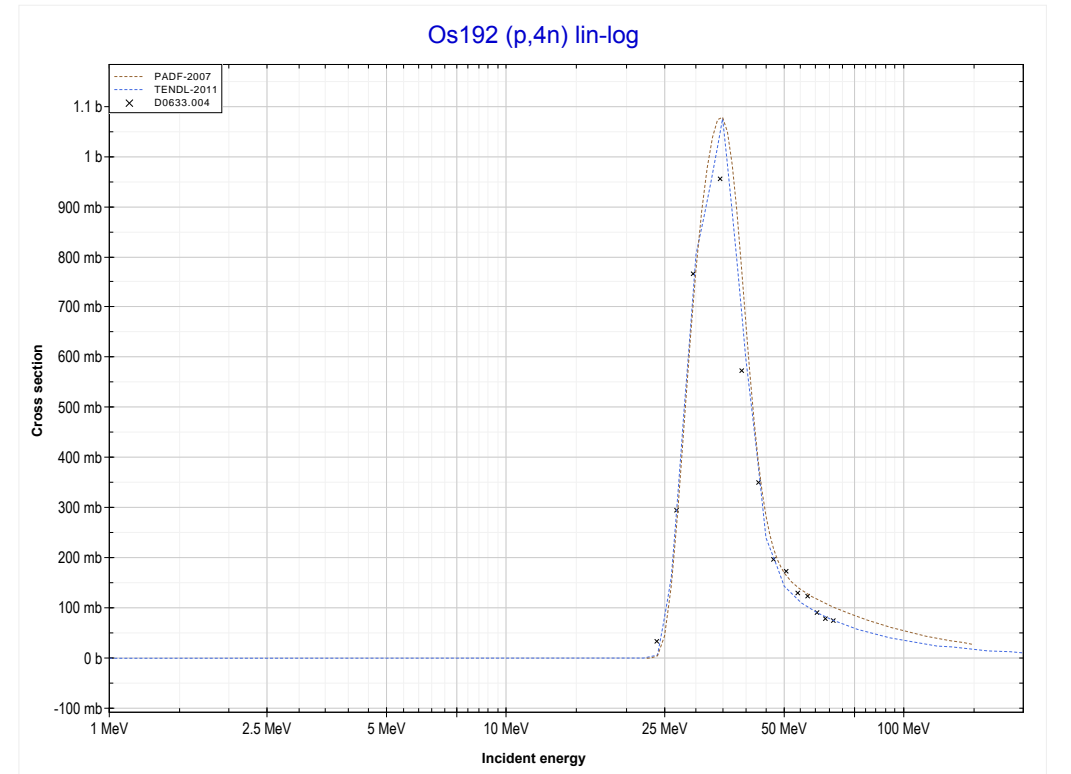
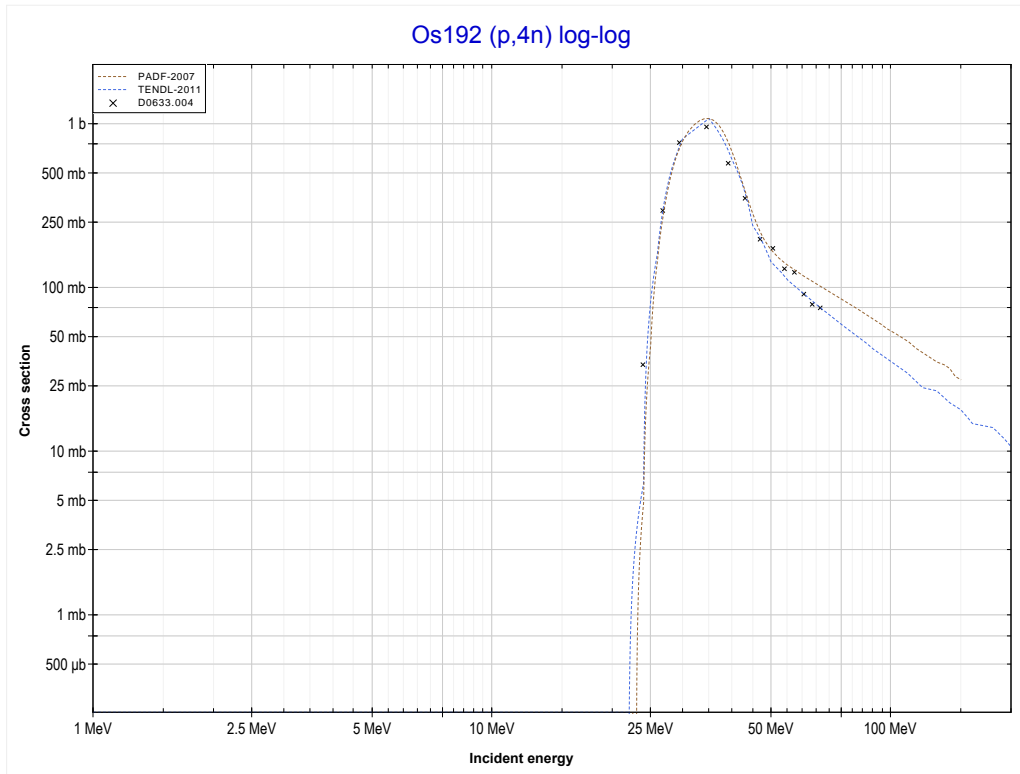
<< 73-Ta-181	<b>76-Os-192</b>	79-Au-197 >>
<< MT4 (p,n)	<b>MT17 (p,3n) or MT5 (Ir190 production)</b>	MT37 (p,4n) >>



Reaction	Q-Value
Os192(p,3n)Ir190	-16054.28 keV

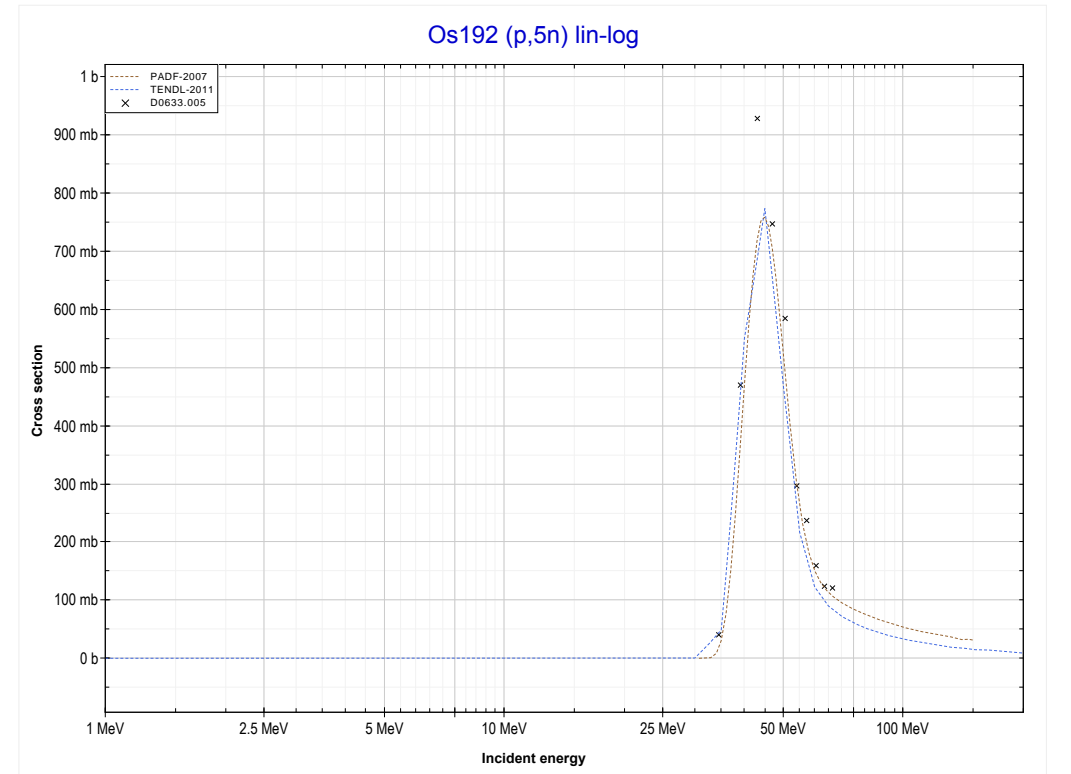
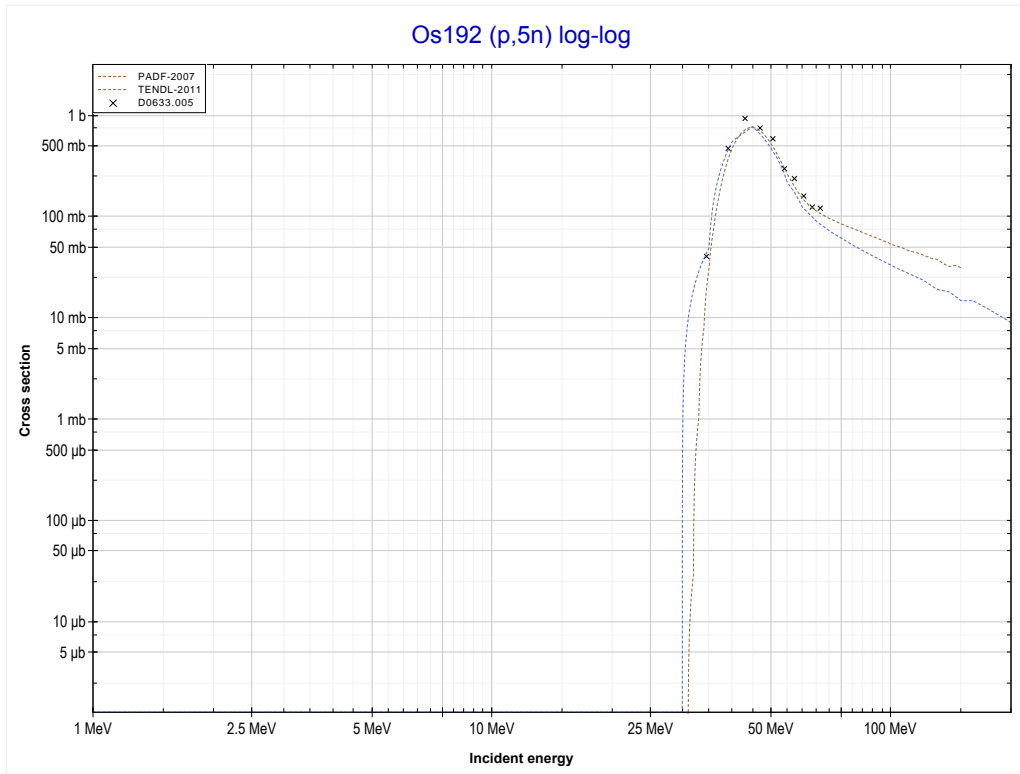


<< 73-Ta-181	<b>76-Os-192</b>	79-Au-197 >>
<< MT17 (p,3n)	<b>MT37 (p,4n) or MT5 (Ir189 production)</b>	MT152 (p,5n) >>



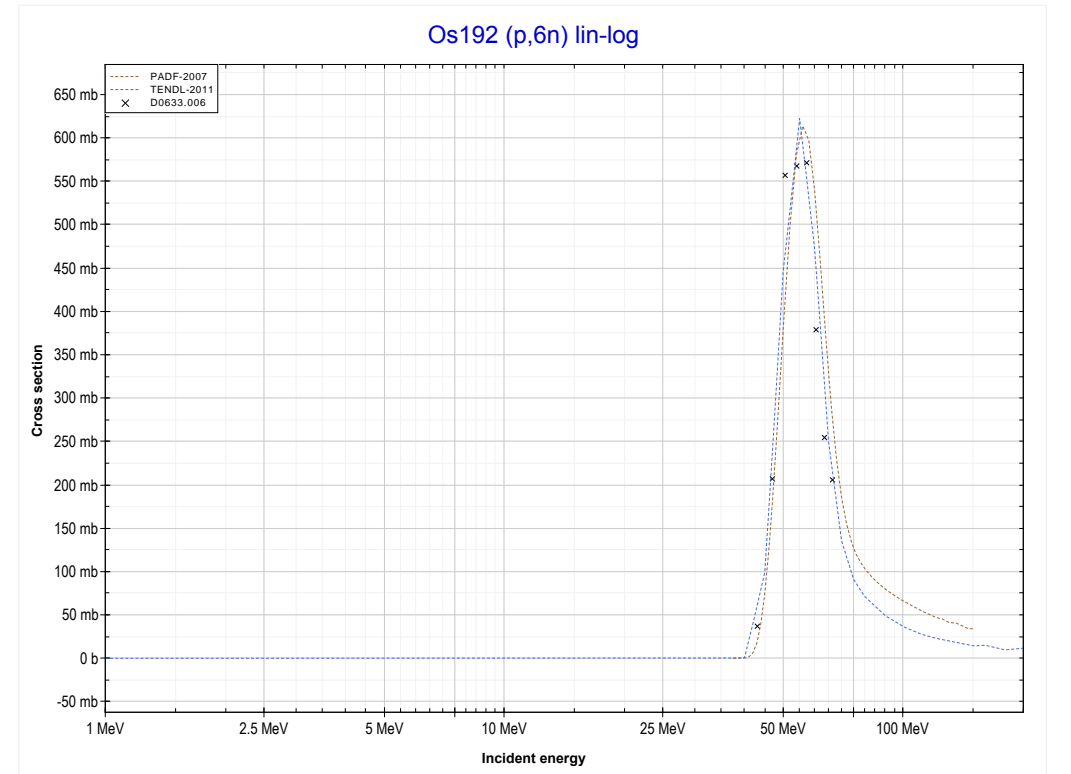
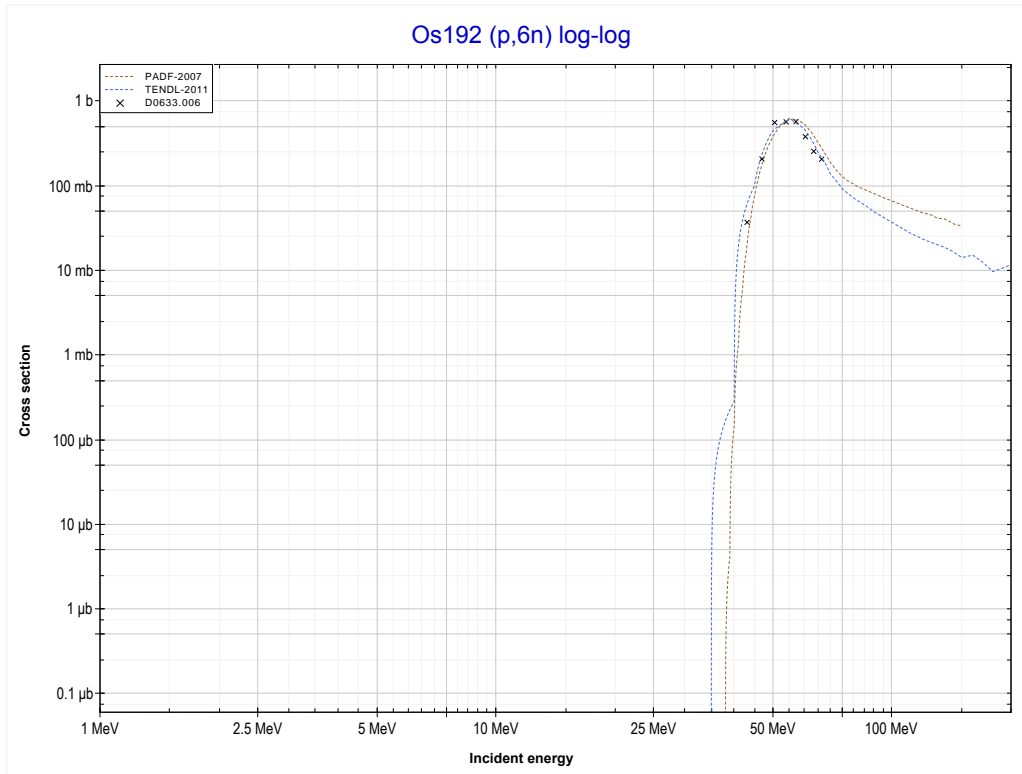
Reaction	Q-Value
Os192(p,4n)Ir189	-22423.80 keV

<< 73-Ta-181	<b>76-Os-192</b>	79-Au-197 >>
<< MT37 (p,4n)	<b>MT152 (p,5n) or MT5 (Ir188 production)</b>	MT153 (p,6n) >>



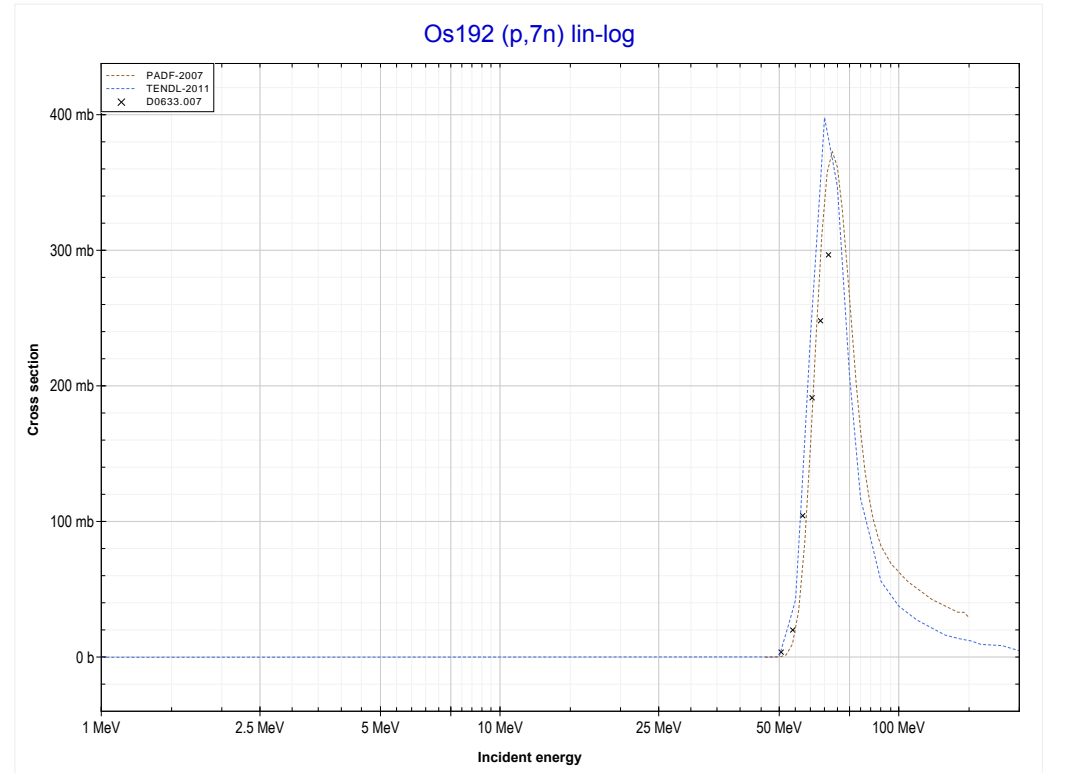
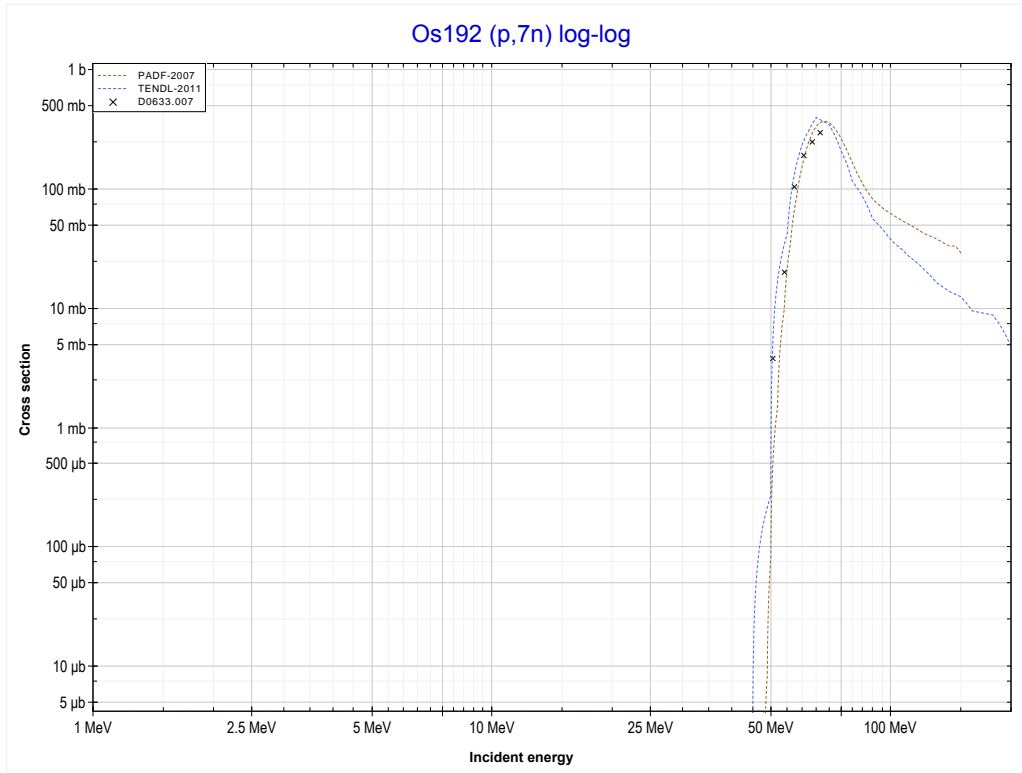
Reaction	Q-Value
Os192(p,5n)Ir188	-30620.12 keV

<< 59-Pr-141	<b>76-Os-192</b>	83-Bi-209 >>
<< MT152 (p,5n)	<b>MT153 (p,6n) or MT5 (Ir187 production)</b>	MT160 (p,7n) >>



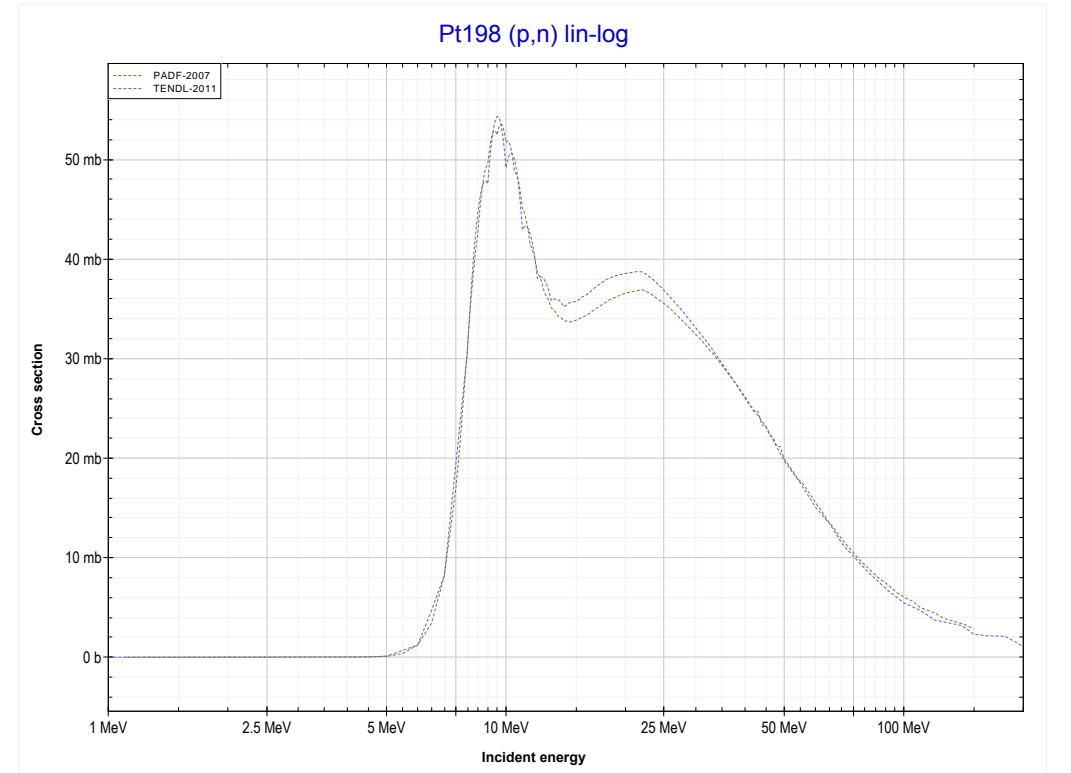
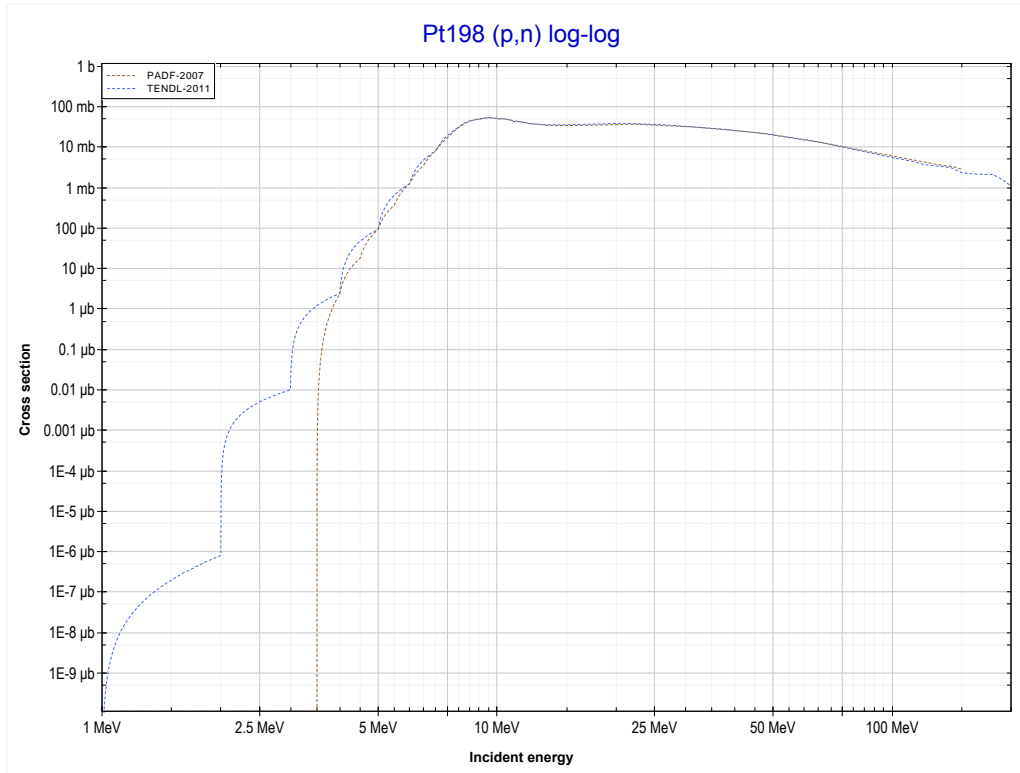
Reaction	Q-Value
Os192(p,6n)Ir187	-37303.43 keV

<< 59-Pr-141	<b>76-Os-192</b>	82-Pb-206 >>
<< MT153 (p,6n)	<b>MT160 (p,7n) or MT5 (Ir186 production)</b>	MT4 (p,n) >>



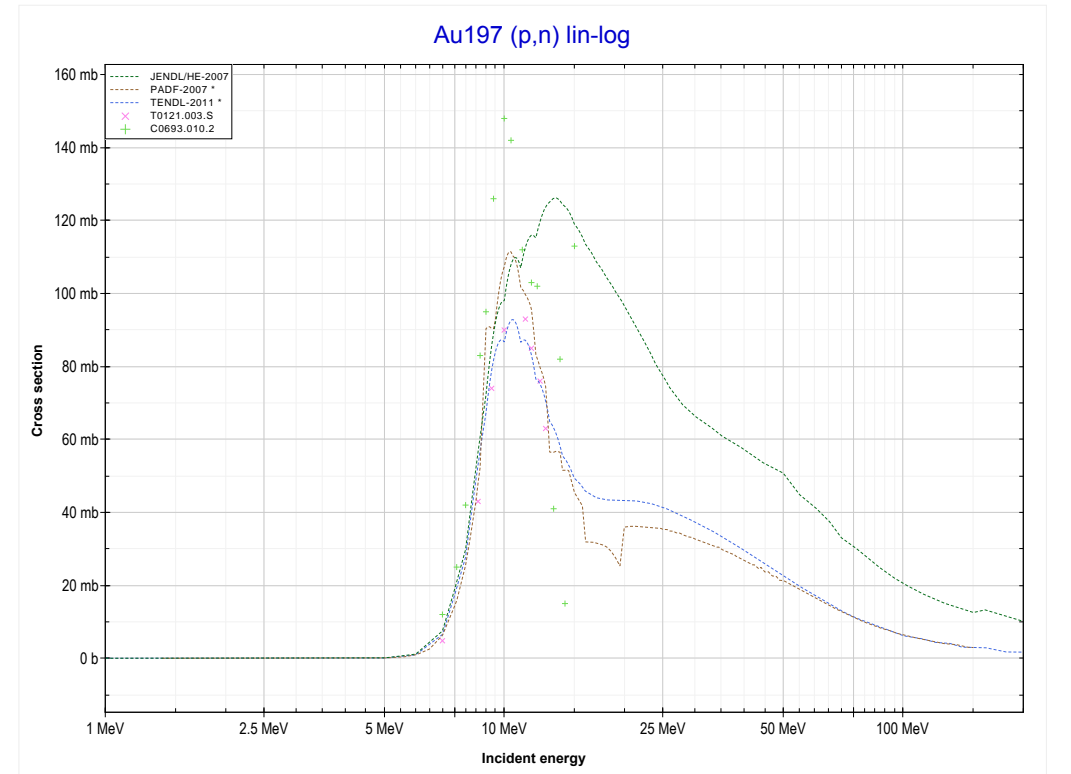
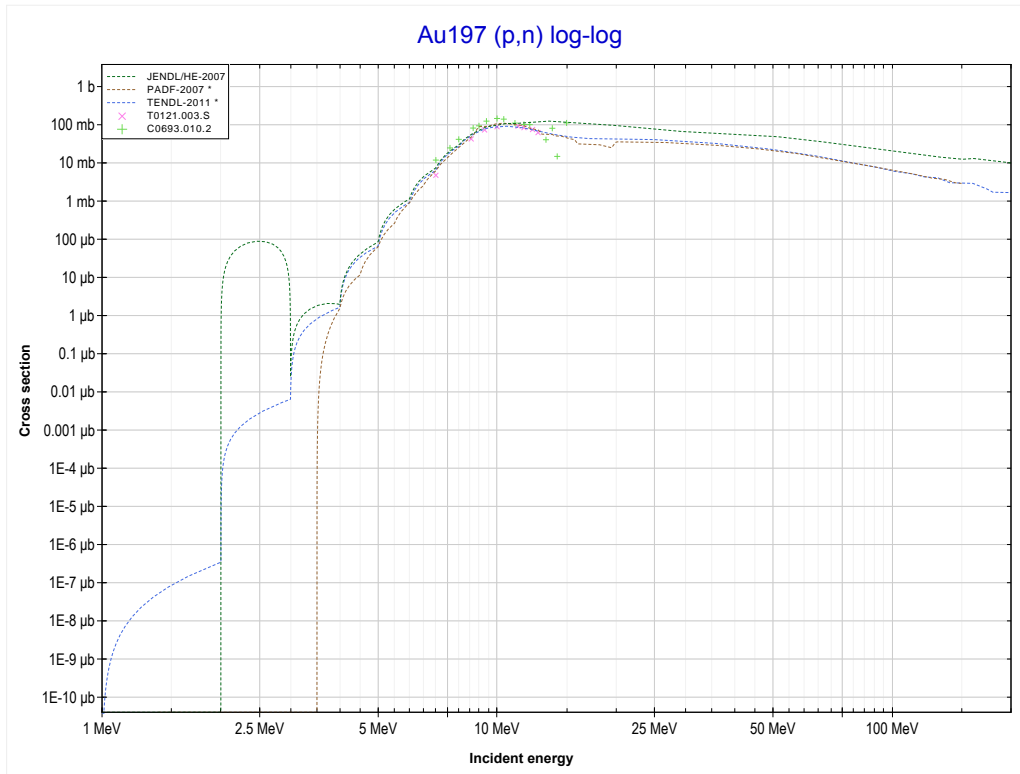
Reaction	Q-Value
Os192(p,7n)Ir186	-45917.75 keV

<< 76-Os-192	<b>78-Pt-198</b>	79-Au-197 >>
<< MT160 (p,7n)	<b>MT4 (p,n) or MT5 (Au198 production)</b>	MT4 (p,n) >>



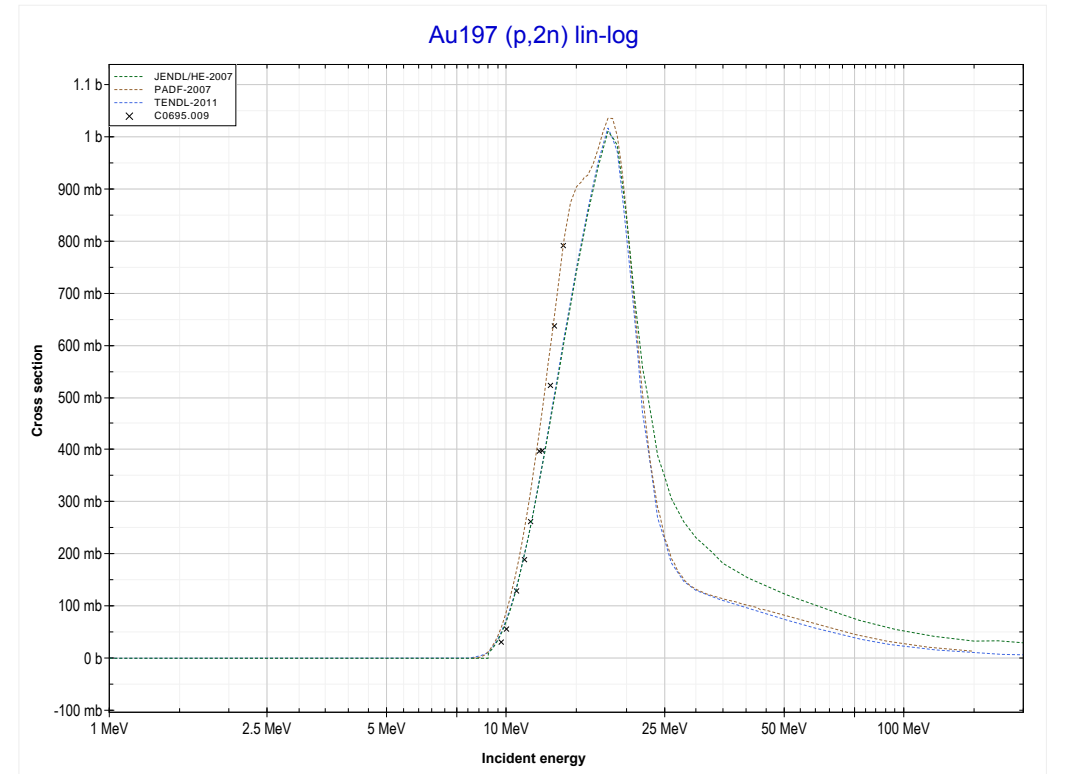
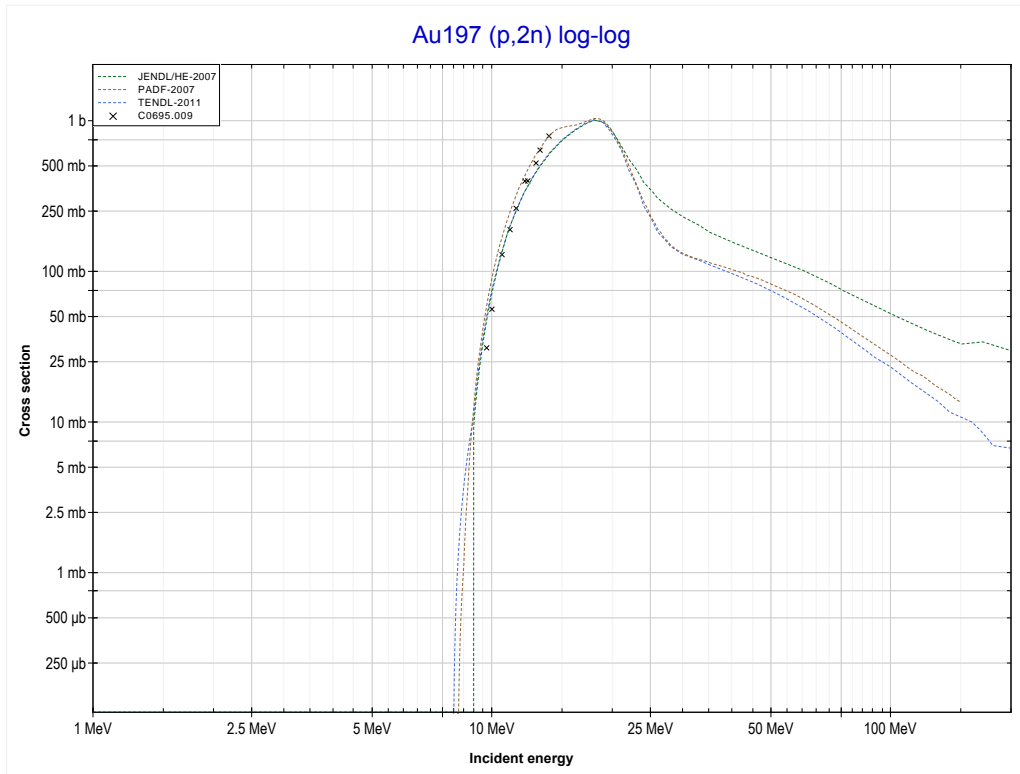
Reaction	Q-Value
Pt198(p,n)Au198	-1108.25 keV

<< 78-Pt-198	<b>79-Au-197</b>	80-Hg-202 >>
<< MT4 (p,n)	<b>MT4 (p,n) or MT5 (Hg197 production)</b>	MT16 (p,2n) >>



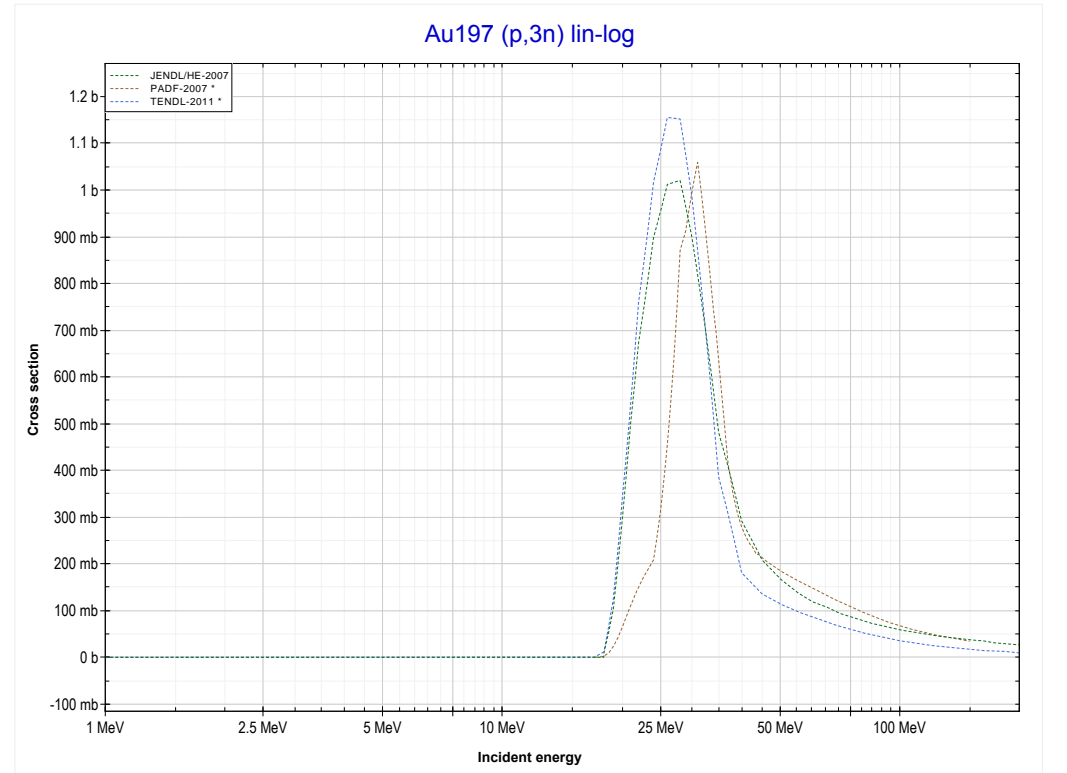
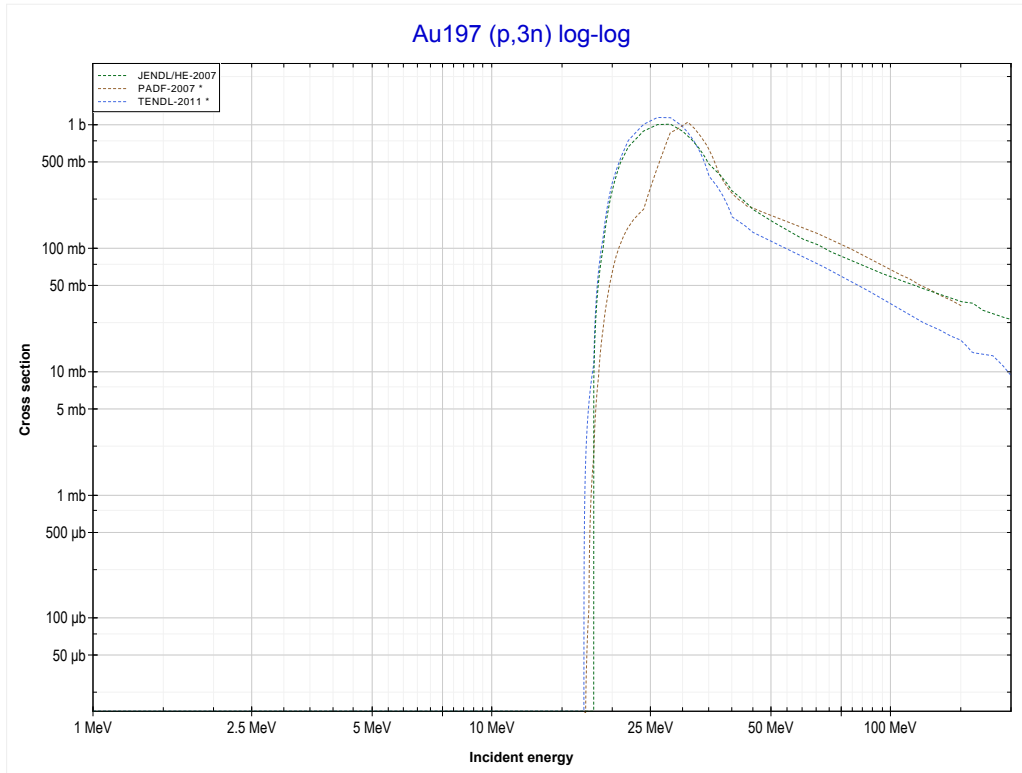
Reaction	Q-Value
Au197(p,n)Hg197	-1382.45 keV

<< 74-W-182	<b>79-Au-197</b>	80-Hg-202 >>
<< MT4 (p,n)	<b>MT16 (p,2n) or MT5 (Hg196 production)</b>	MT17 (p,3n) >>



<b>Reaction</b>	<b>Q-Value</b>
Au197(p,2n)Hg196	-8168.06 keV

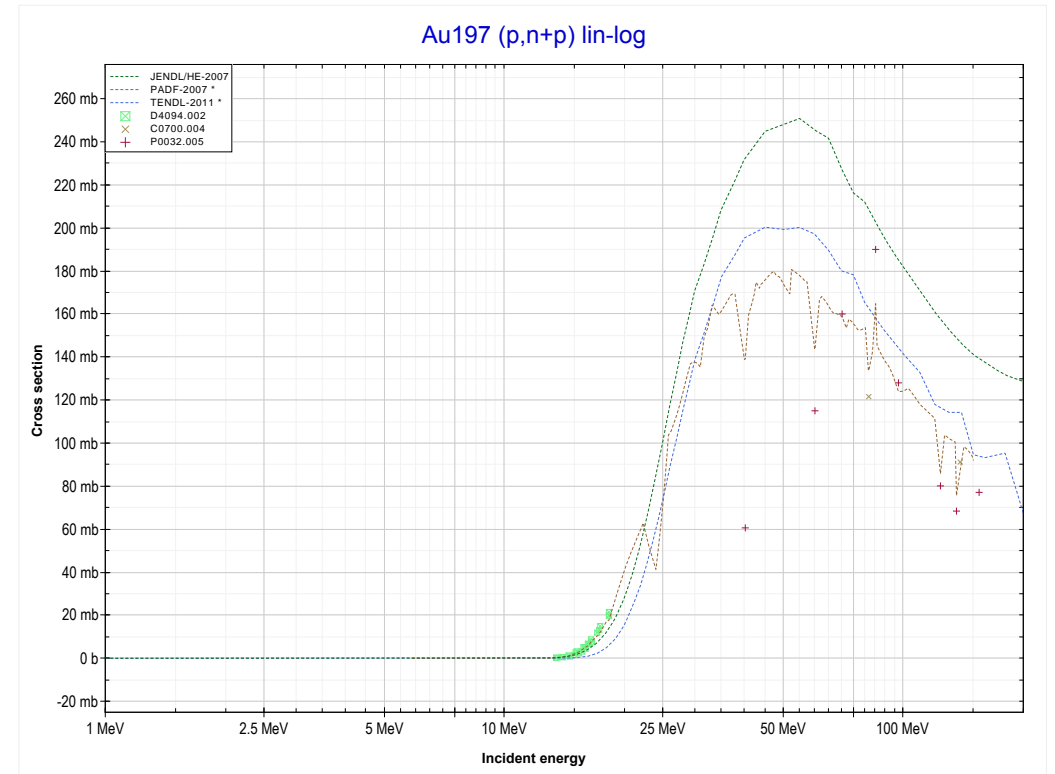
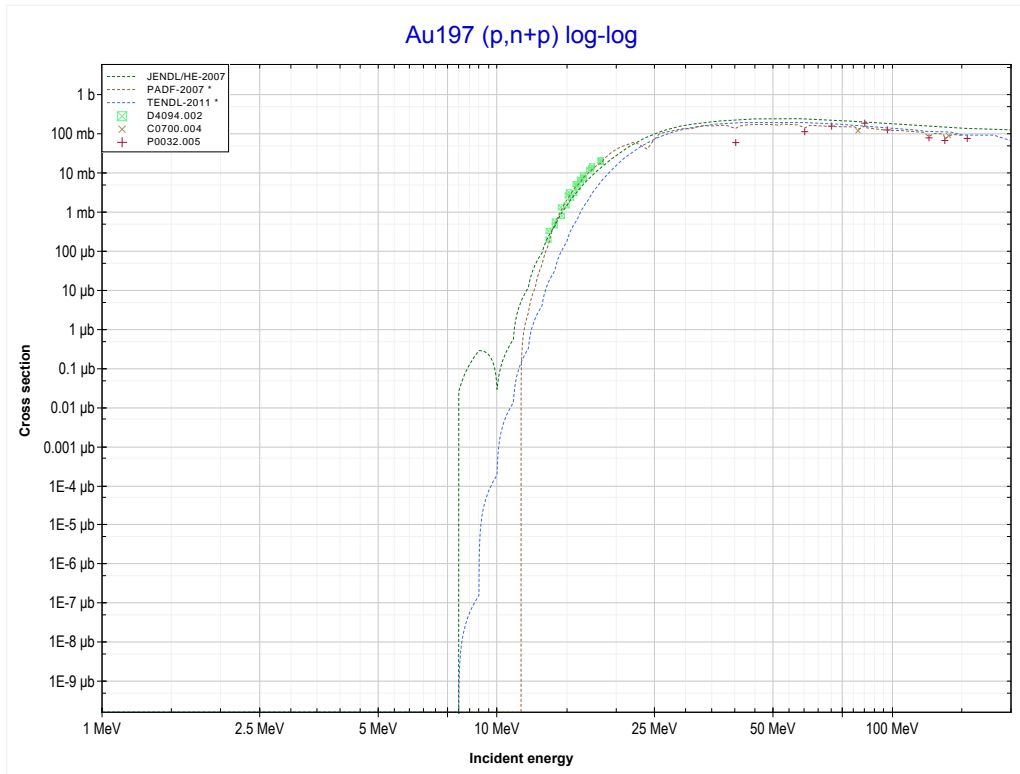
<< 76-Os-192	<b>79-Au-197</b>	81-Tl-203 >>
<< MT16 (p,2n)	<b>MT17 (p,3n) or MT5 (Hg195 production)</b>	MT28 (p,n+p) >>



Reaction	Q-Value
Au197(p,3n)Hg195	-17066.08 keV

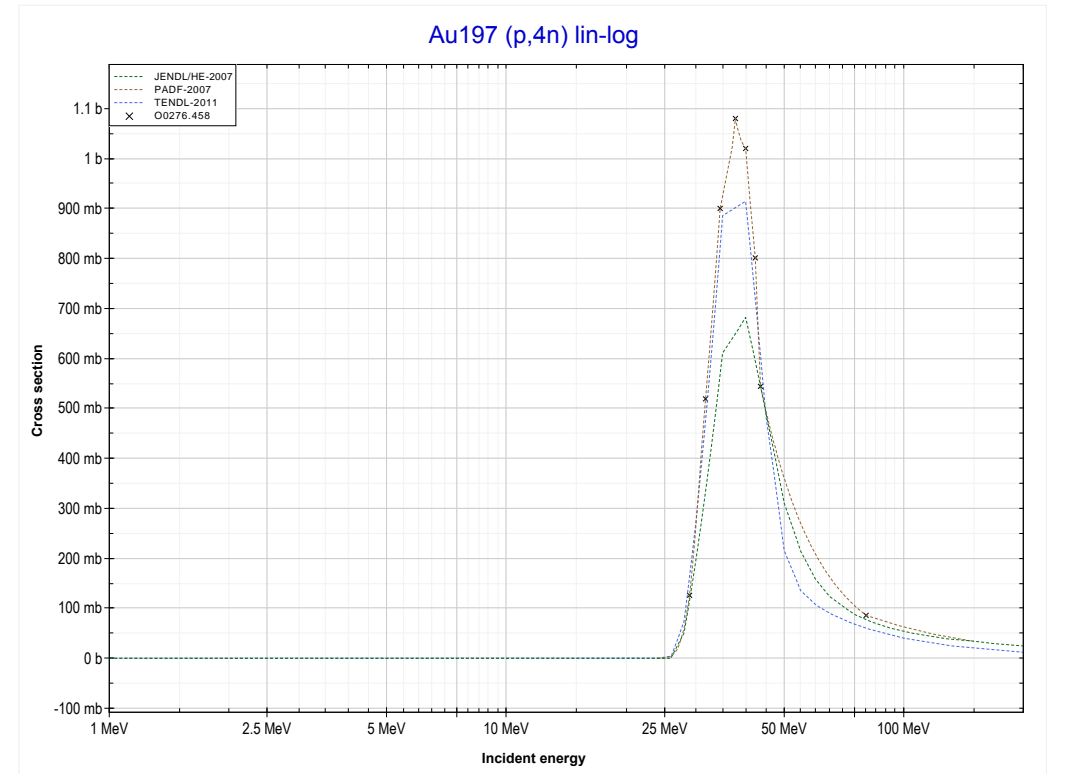
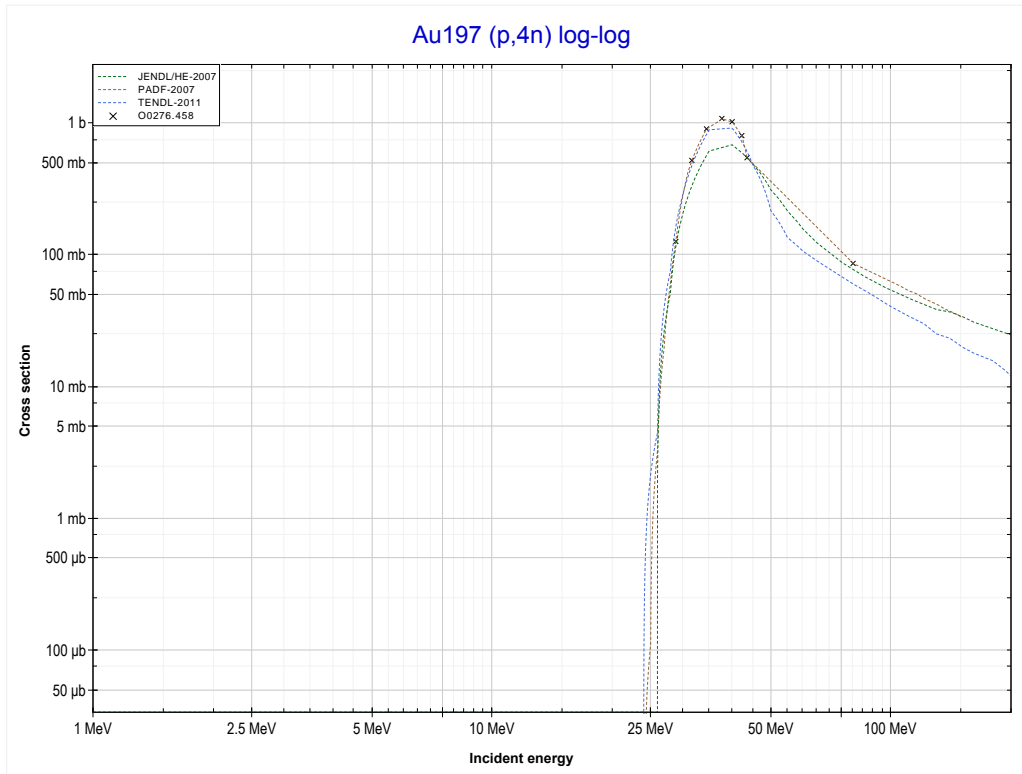


<< 75-Re-187	<b>79-Au-197</b>	90-Th-232 >>
<< MT17 (p,3n)	<b>MT28 (p,n+p) or MT5 (Au196 production)</b>	MT37 (p,4n) >>



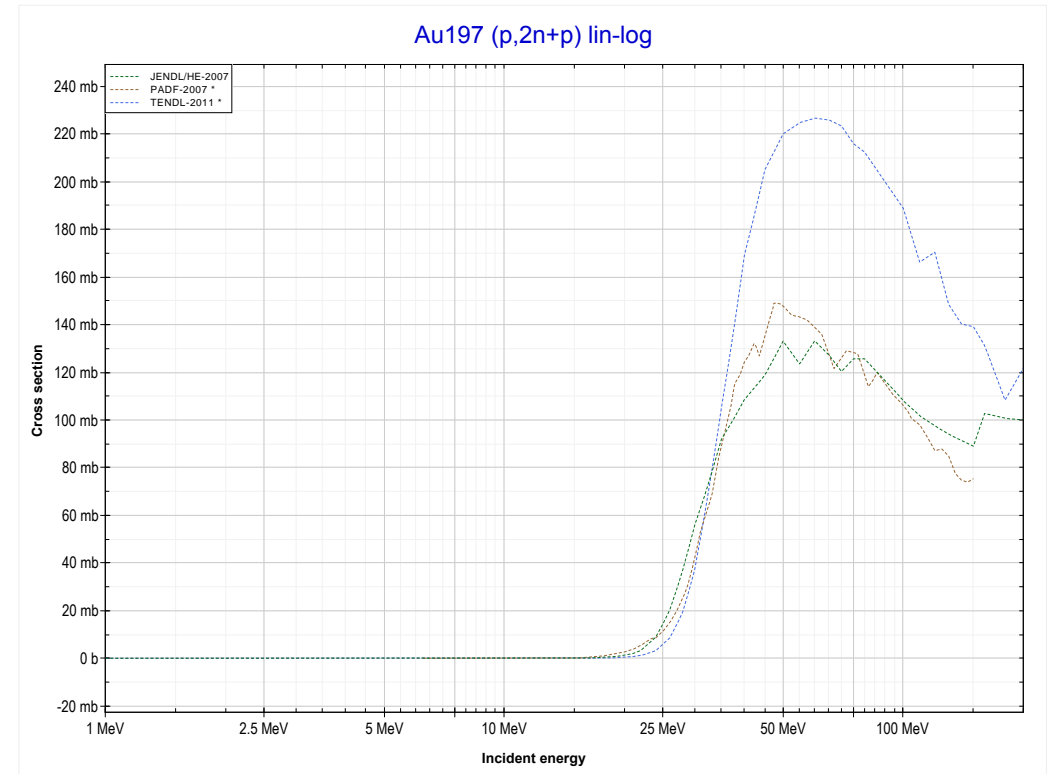
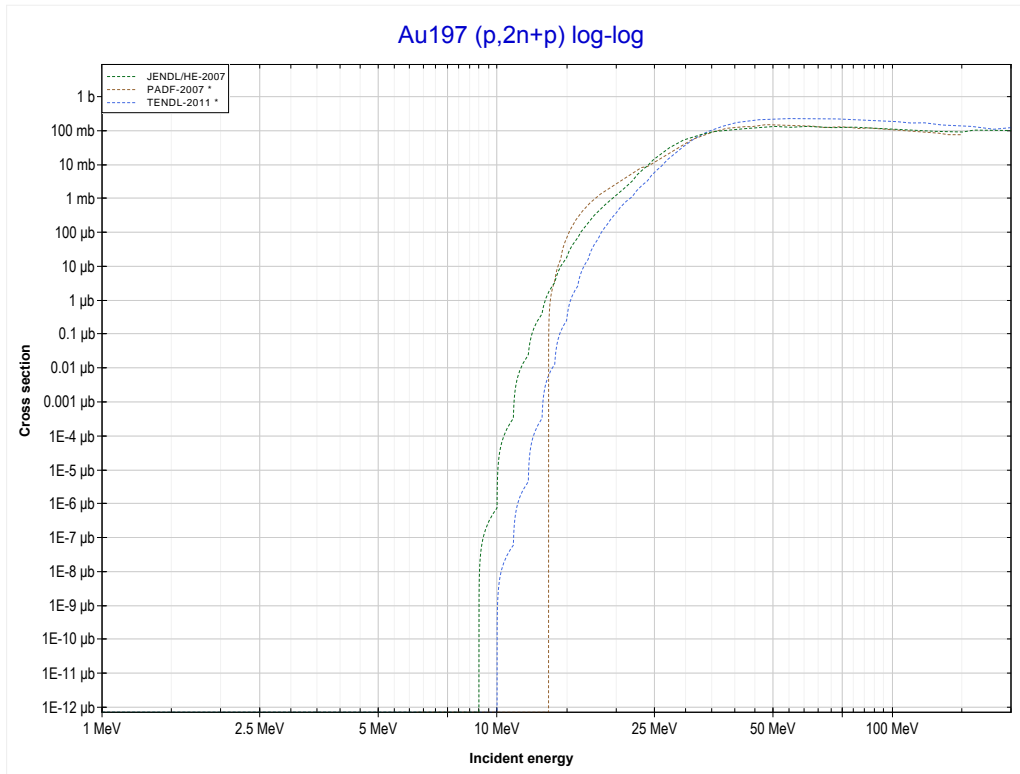
Reaction	Q-Value
Au197(p,d)Au196	-5847.85 keV
Au197(p,n+p)Au196	-8072.42 keV

<< 76-Os-192	<b>79-Au-197</b>	81-Tl-203 >>
<< MT28 (p,n+p)	<b>MT37 (p,4n) or MT5 (Hg194 production)</b>	MT41 (p,2n+p) >>



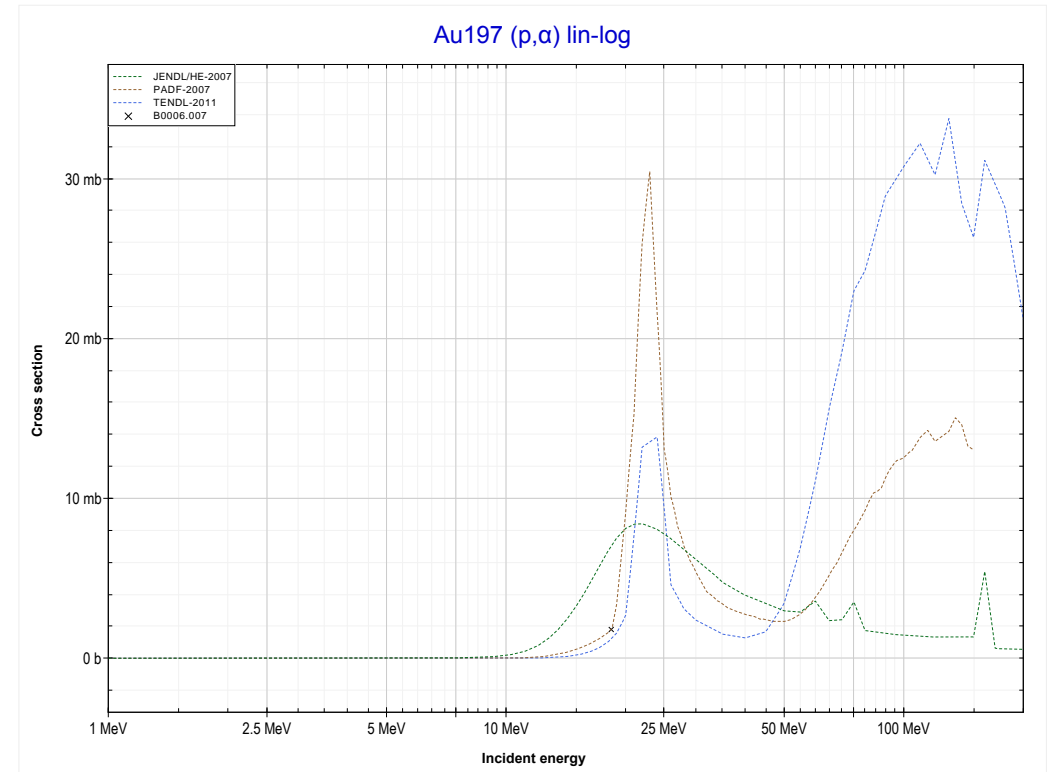
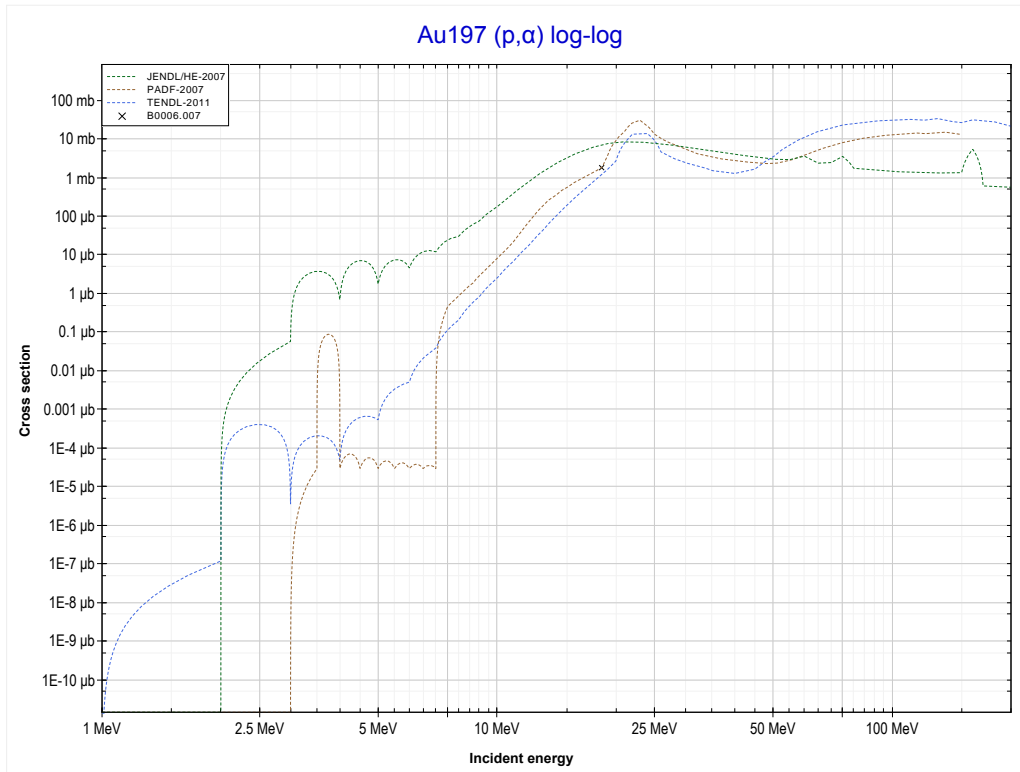
Reaction	Q-Value
Au197(p,4n)Hg194	-23944.40 keV

<< 42-Mo-92	<b>79-Au-197</b>	
<< MT37 (p,4n)	<b>MT41 (p,2n+p) or MT5 (Au195 production)</b>	MT107 (p, $\alpha$ ) >>



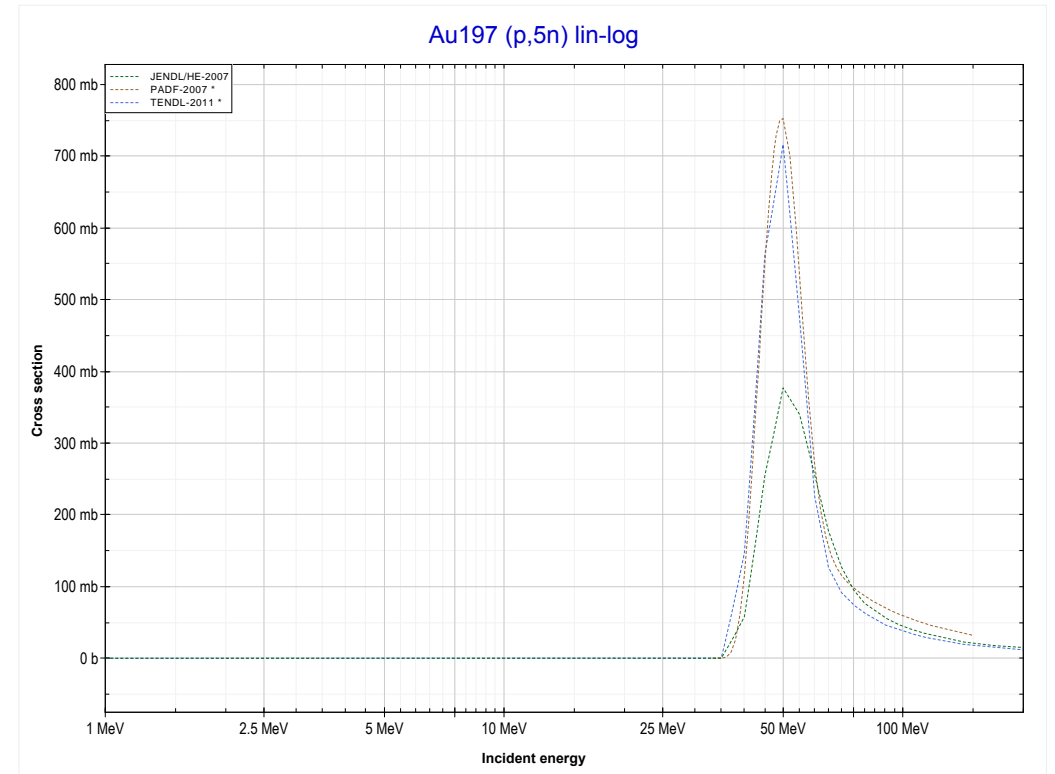
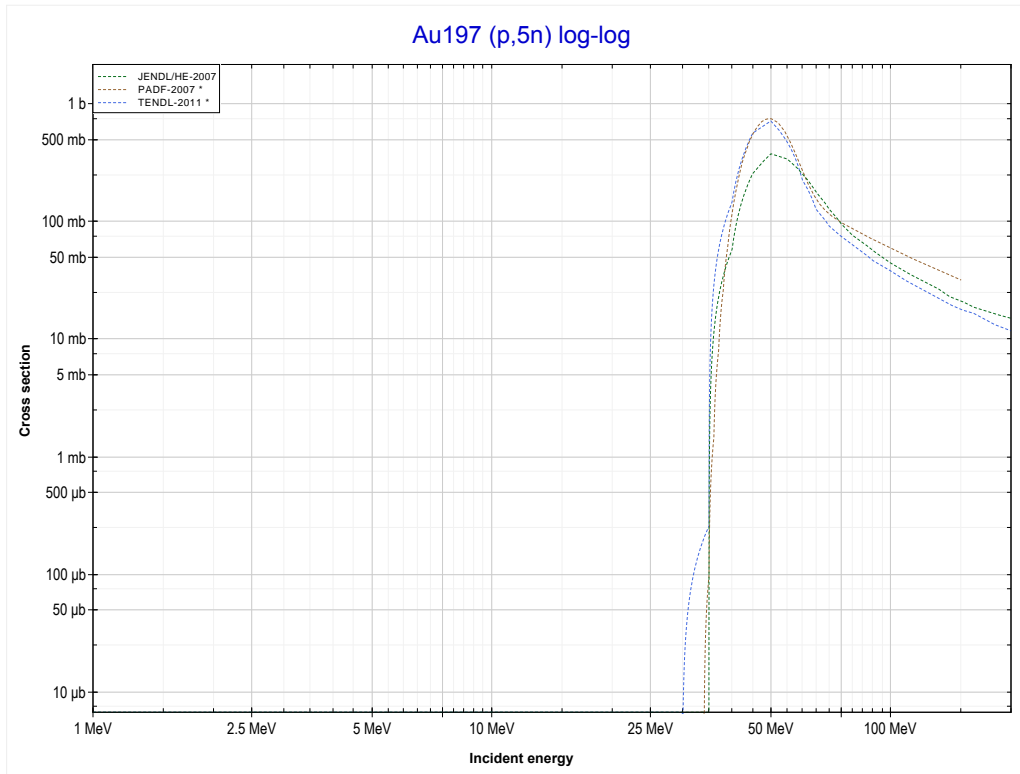
Reaction	Q-Value
Au197(p,t)Au195	-6231.94 keV
Au197(p,n+d)Au195	-12489.17 keV
Au197(p,2n+p)Au195	-14713.73 keV

<< 70-Yb-176	<b>79-Au-197</b>	81-Tl-203 >>
<< MT41 (p,2n+p)	<b>MT107 (p,<math>\alpha</math>) or MT5 (Pt194 production)</b>	MT152 (p,5n) >>



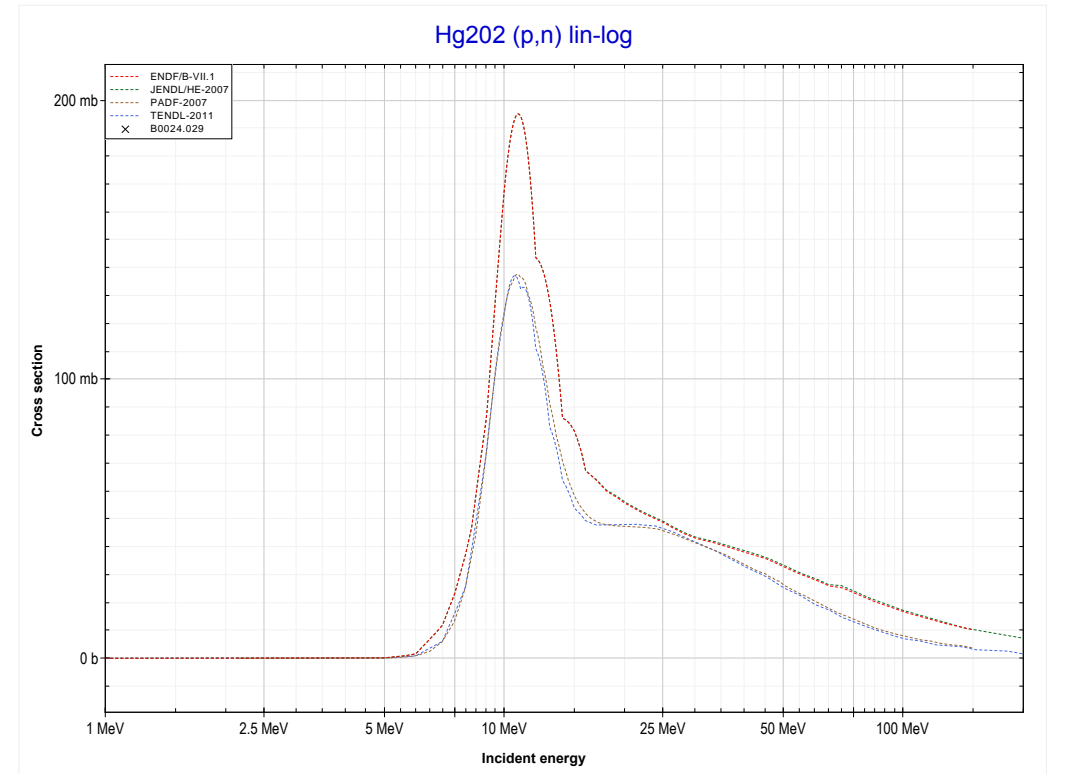
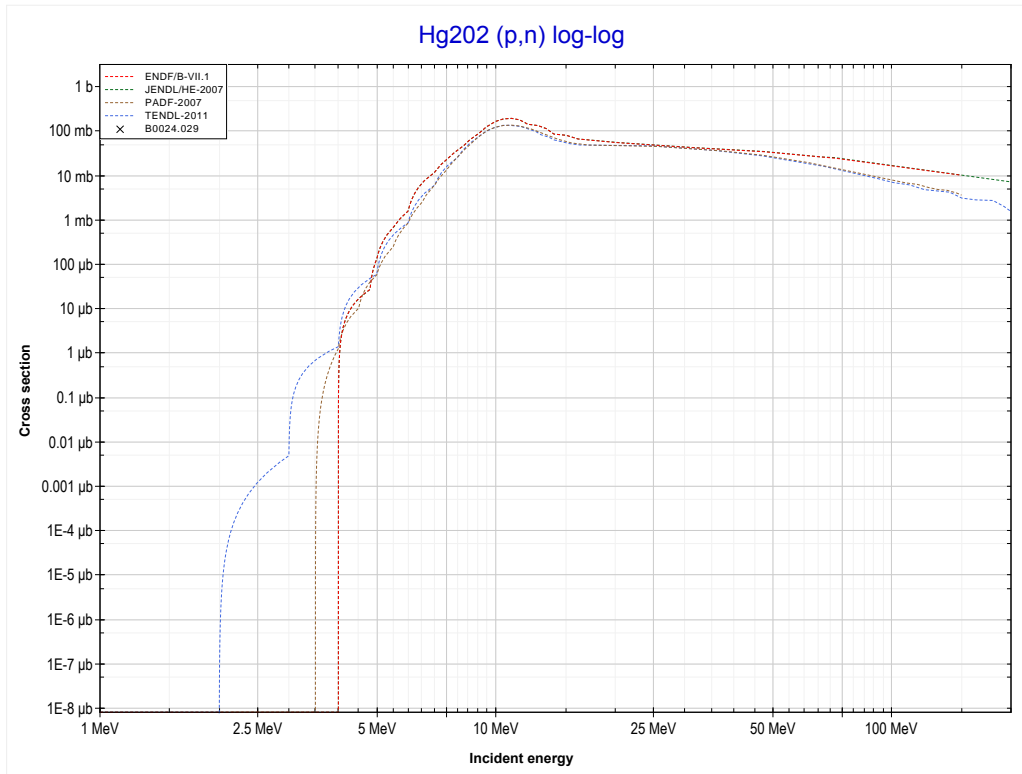
Reaction	Q-Value
Au197(p, $\alpha$ )Pt194	8486.05 keV
Au197(p,p+t)Pt194	-11327.81 keV
Au197(p,n+He3)Pt194	-12091.56 keV
Au197(p,2d)Pt194	-15360.47 keV
Au197(p,n+p+d)Pt194	-17585.04 keV
Au197(p,2n+2p)Pt194	-19809.60 keV

<< 76-Os-192	<b>79-Au-197</b>	81-Tl-205 >>
<< MT107 (p, $\alpha$ )	<b>MT152 (p,5n) or MT5 (Hg193 production)</b>	MT4 (p,n) >>



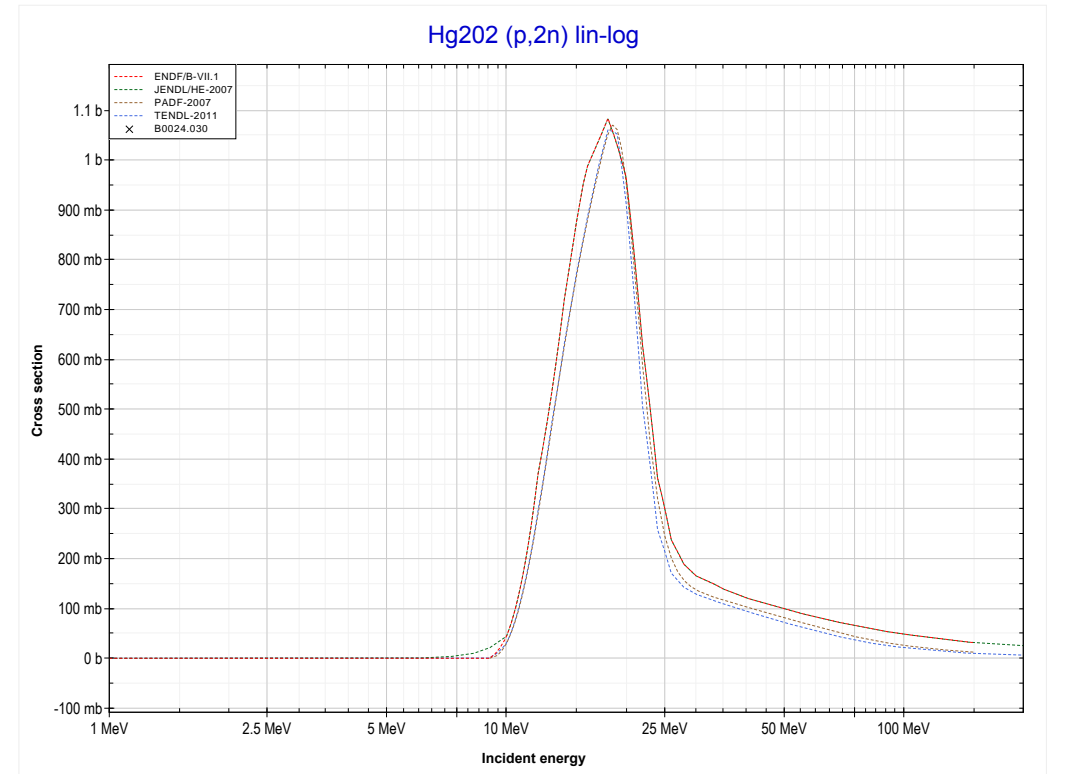
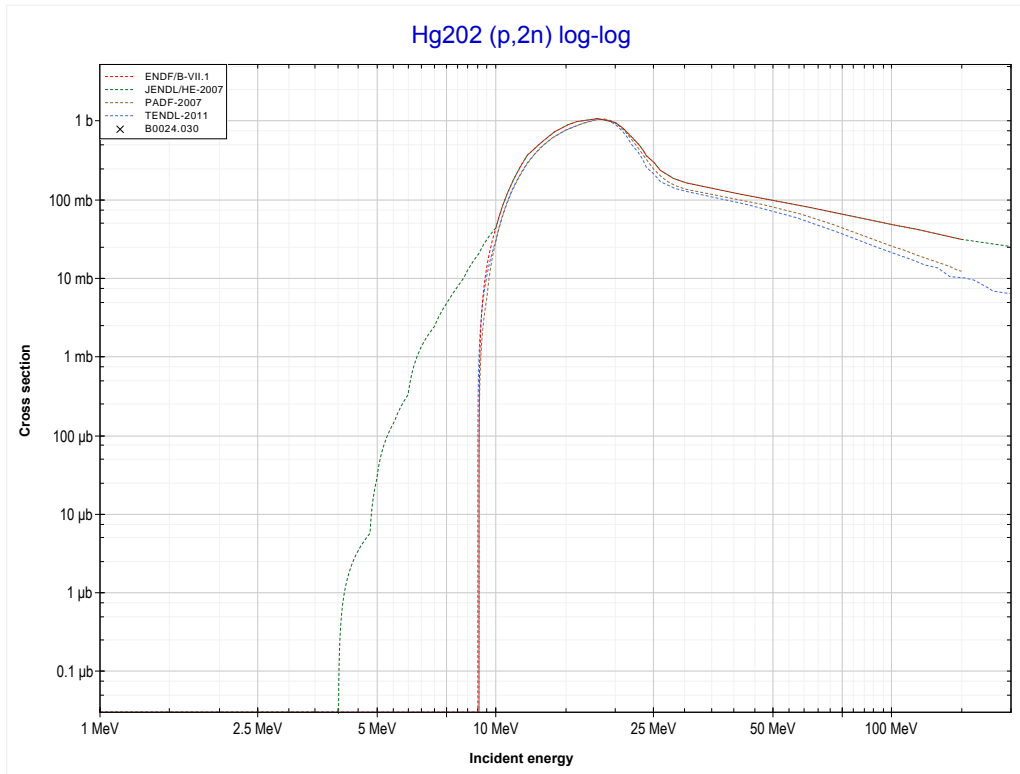
Reaction	Q-Value
Au197(p,5n)Hg193	-33157.71 keV

<< 79-Au-197	<b>80-Hg-202</b>	81-Tl-203 >>
<< MT152 (p,5n)	<b>MT4 (p,n) or MT5 (TI202 production)</b>	MT16 (p,2n) >>



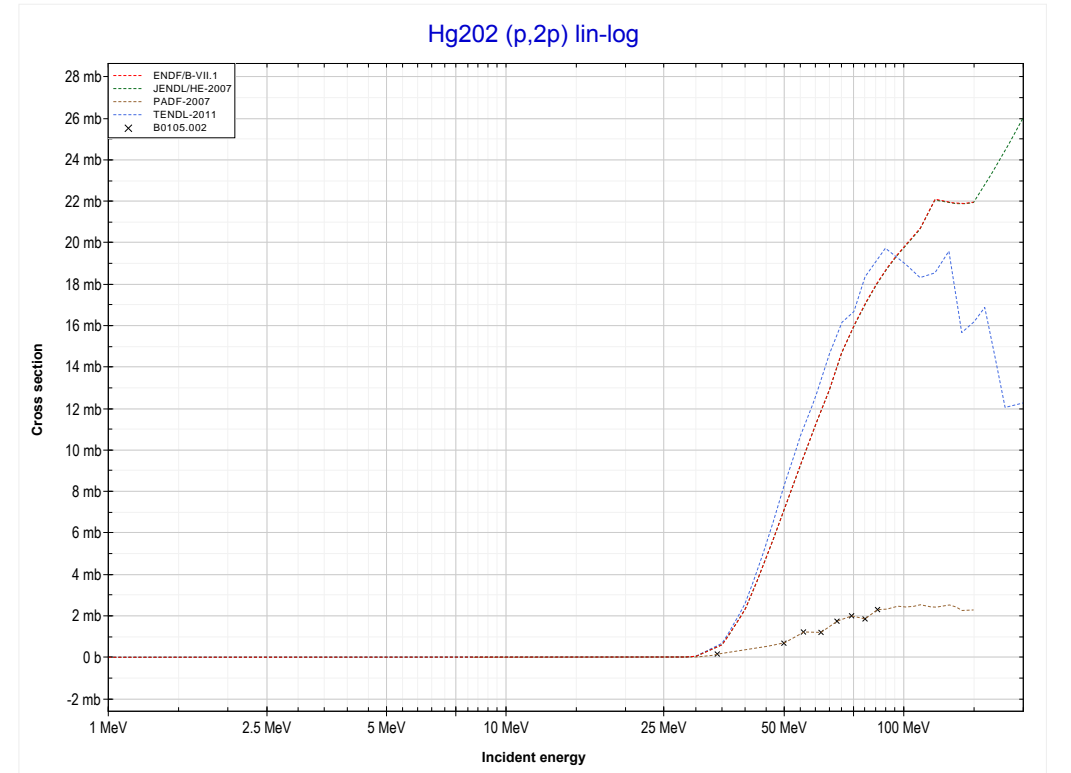
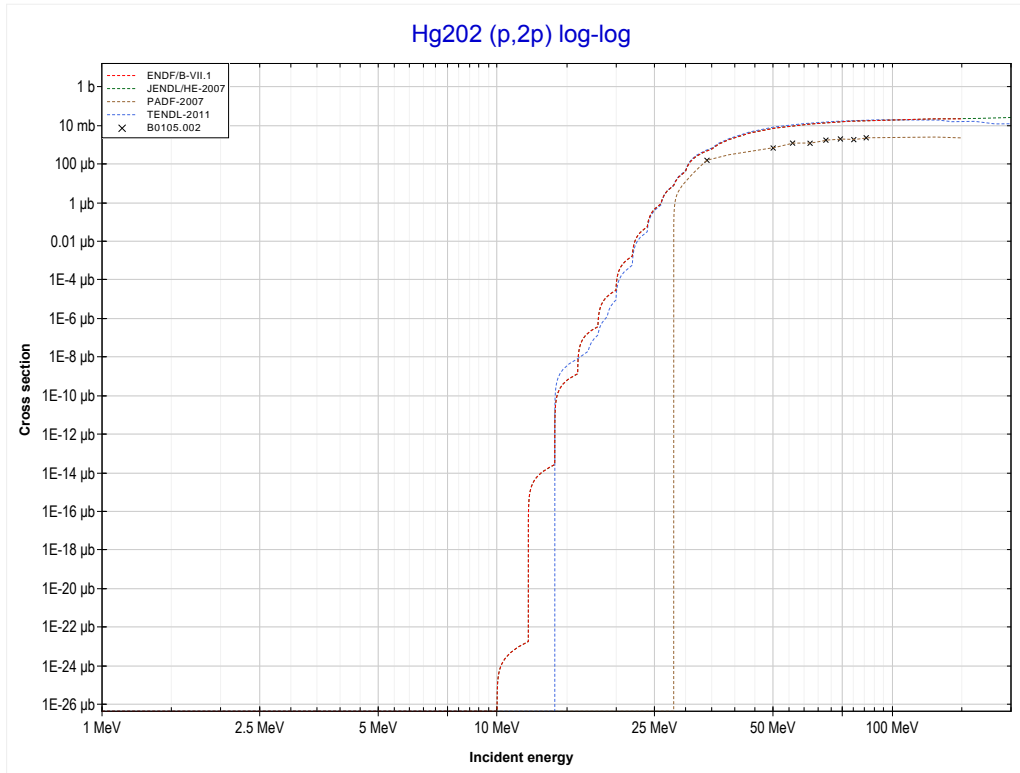
Reaction	Q-Value
Hg202(p,n)TI202	-2145.25 keV

<< 79-Au-197	<b>80-Hg-202</b>	81-Tl-203 >>
<< MT4 (p,n)	<b>MT16 (p,2n) or MT5 (TI201 production)</b>	MT111 (p,2p) >>



Reaction	Q-Value
Hg202(p,2n)TI201	-9017.56 keV

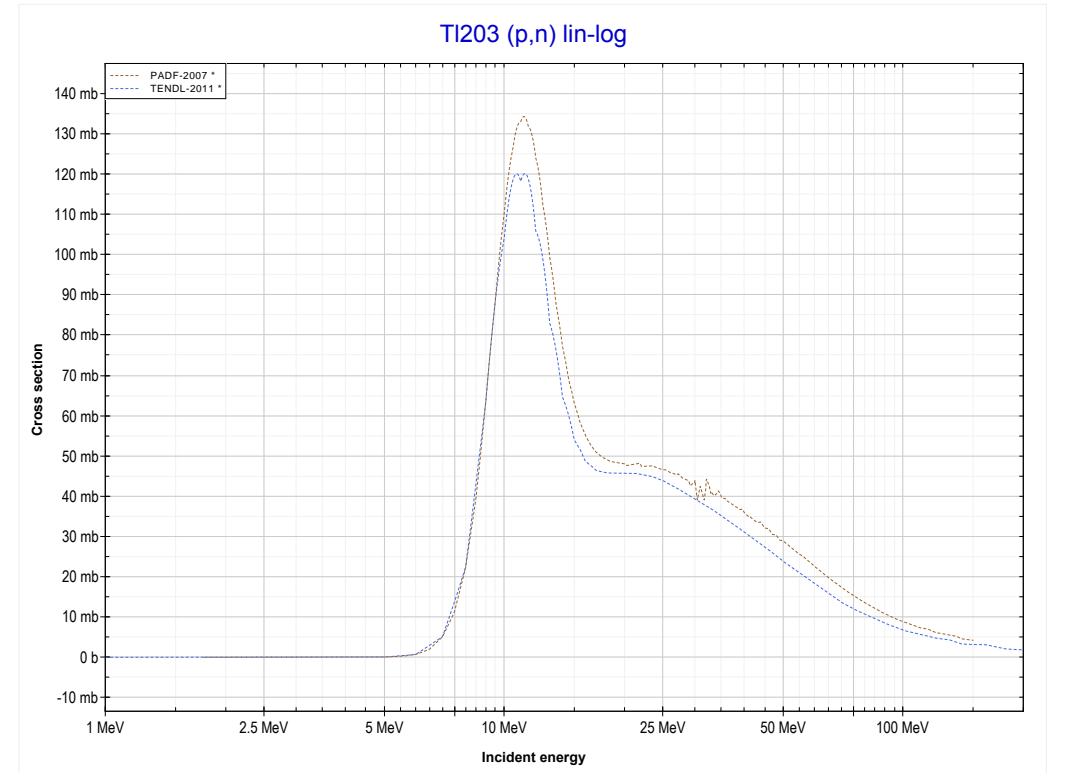
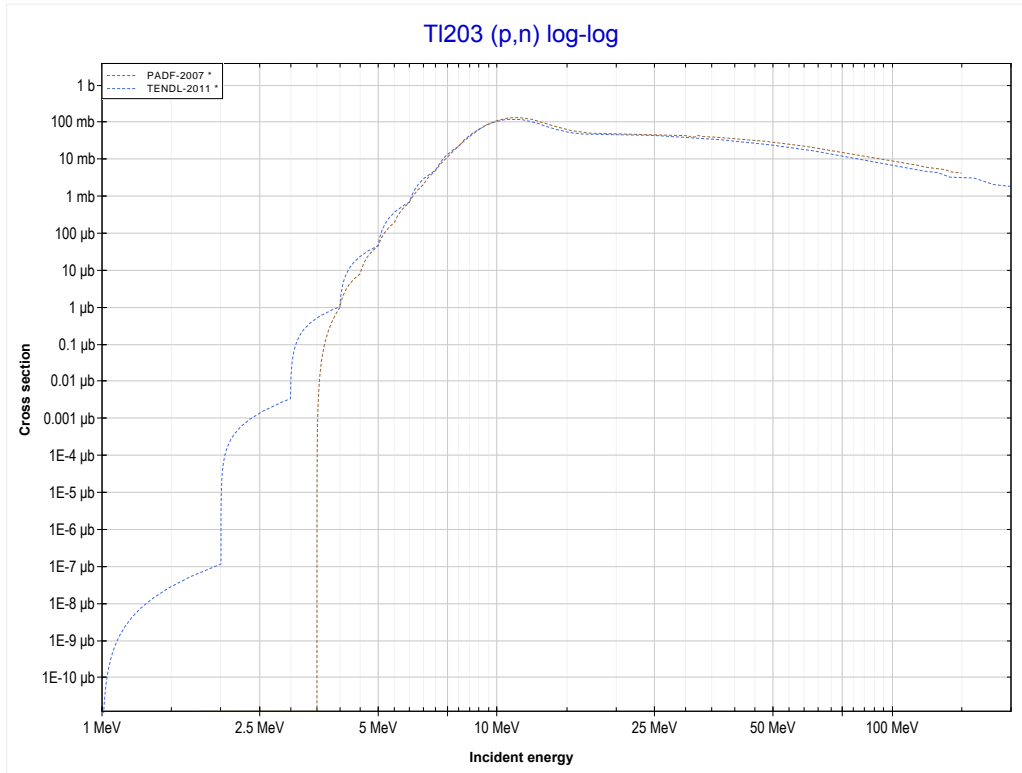
<< 74-W-186	<b>80-Hg-202</b>	
<< MT16 (p,2n)	<b>MT111 (p,2p) or MT5 (Au201 production)</b>	MT4 (p,n) >>



Reaction	Q-Value
Hg202(p,2p)Au201	-8233.87 keV

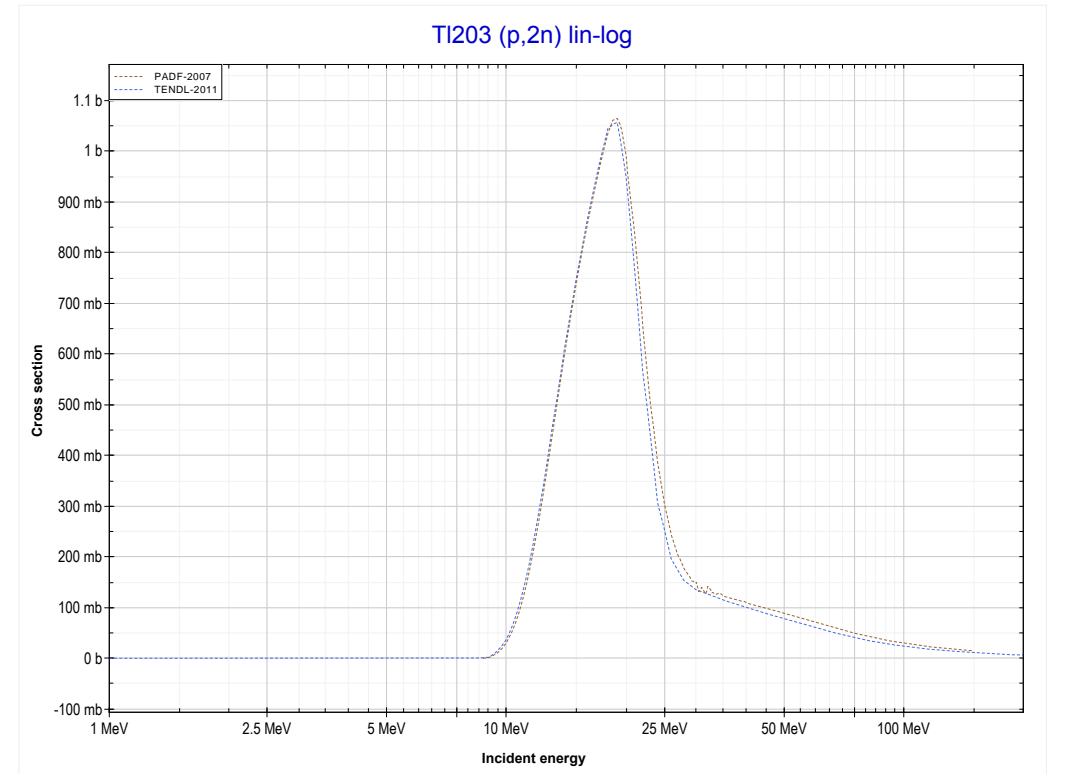
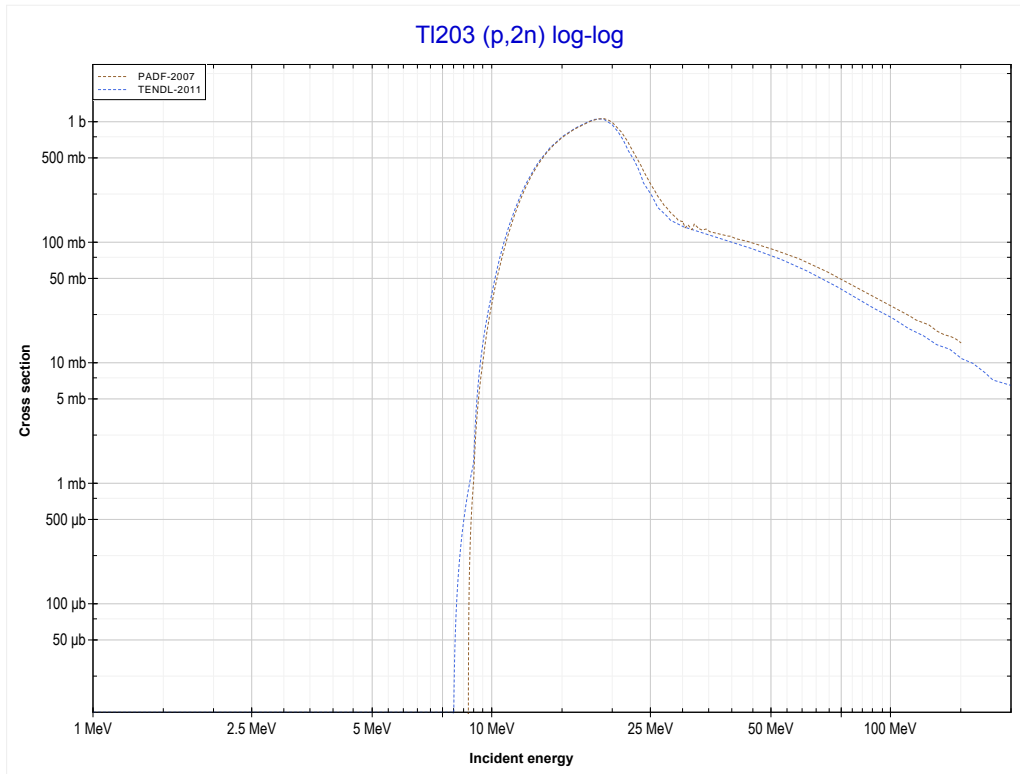


<< 80-Hg-202	<b>81-Tl-203</b>	82-Pb-206 >>
<< MT111 (p,2p)	<b>MT4 (p,n) or MT5 (Pb203 production)</b>	MT16 (p,2n) >>



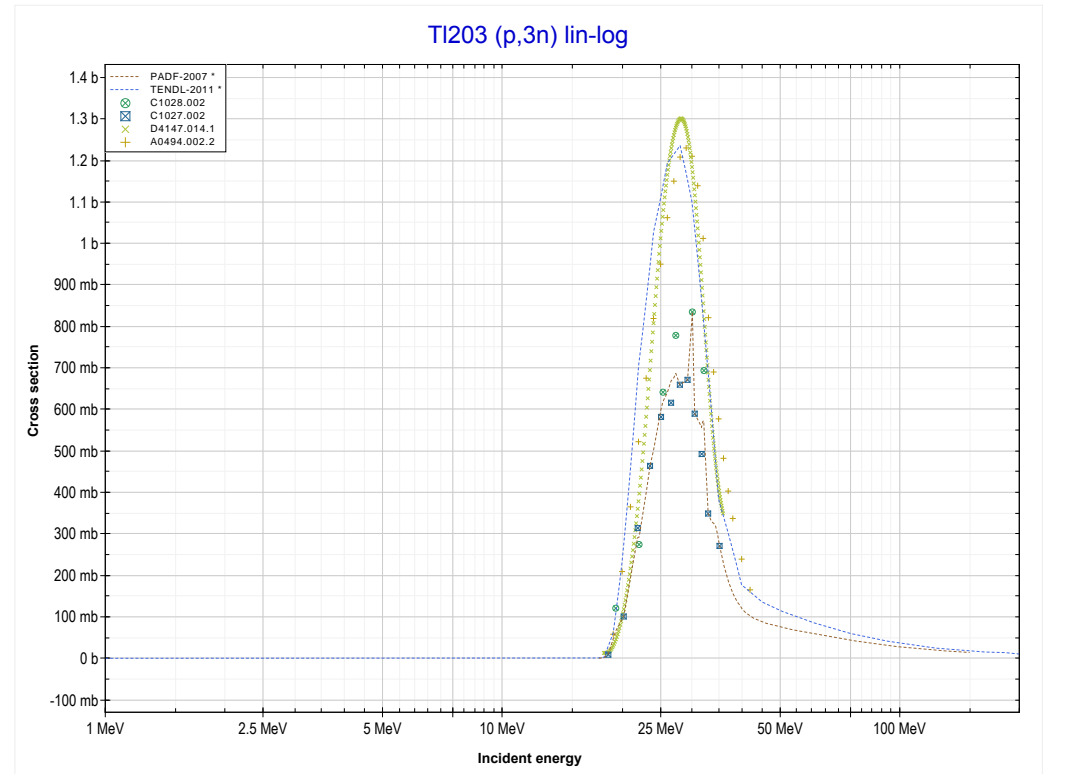
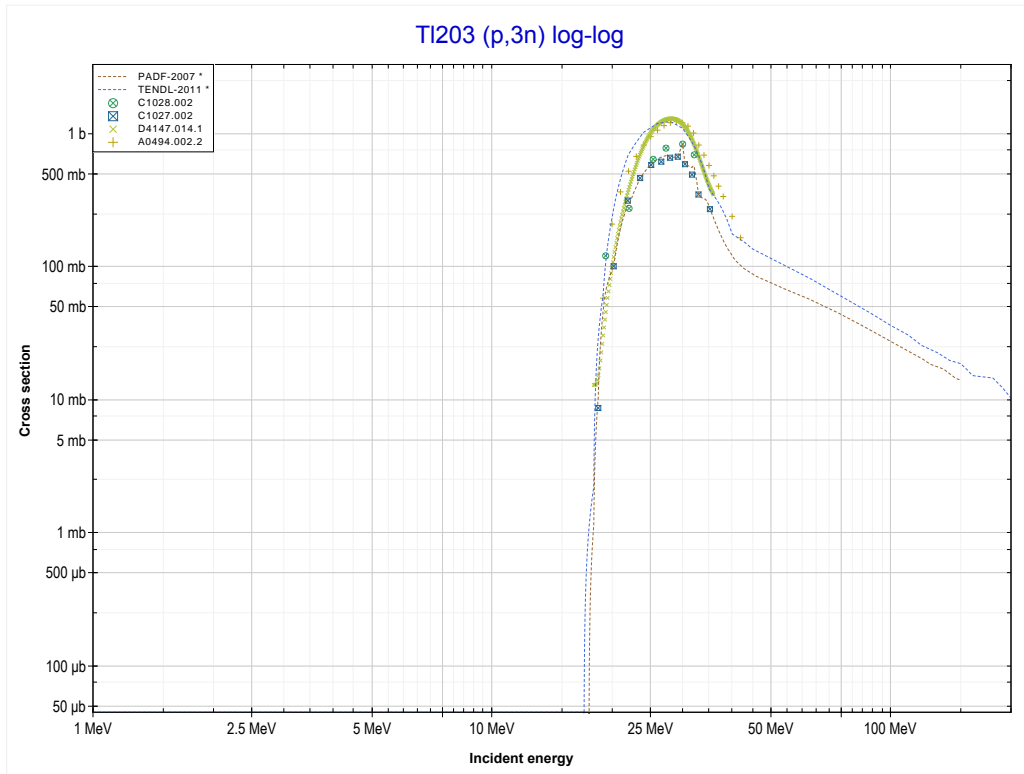
Reaction	Q-Value
Tl203(p,n)Pb203	-1756.55 keV

<< 80-Hg-202	<b>81-Tl-203</b>	81-Tl-205 >>
<< MT4 (p,n)	<b>MT16 (p,2n) or MT5 (Pb202 production)</b>	MT17 (p,3n) >>



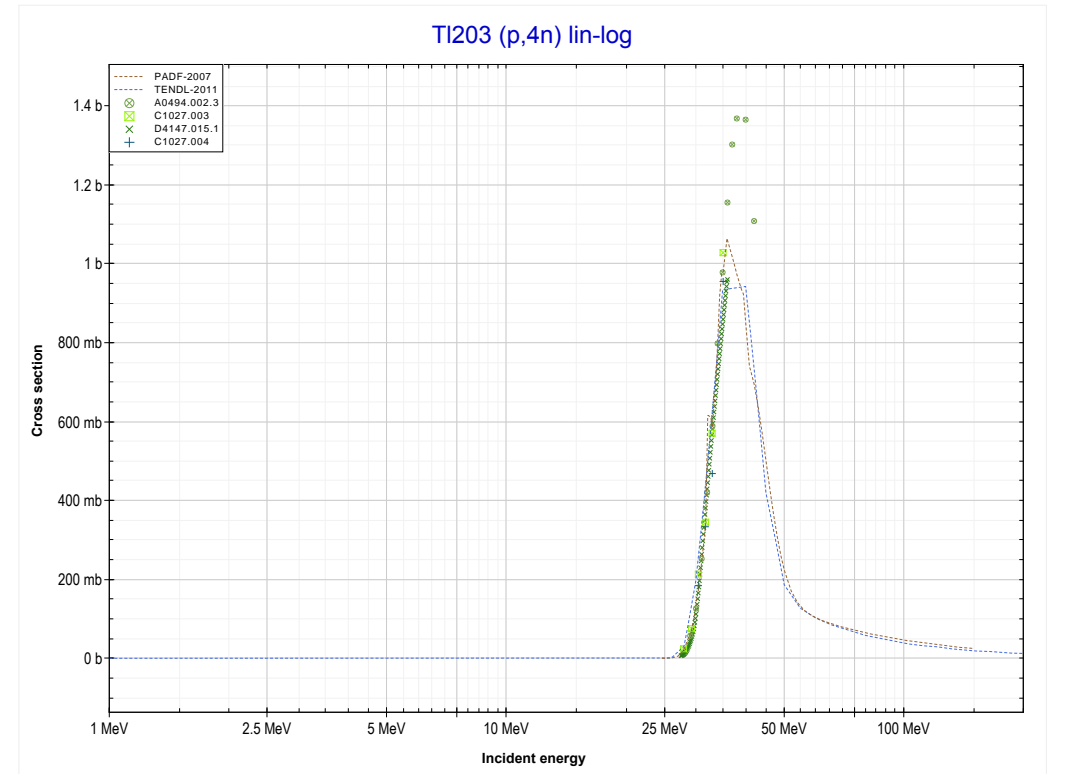
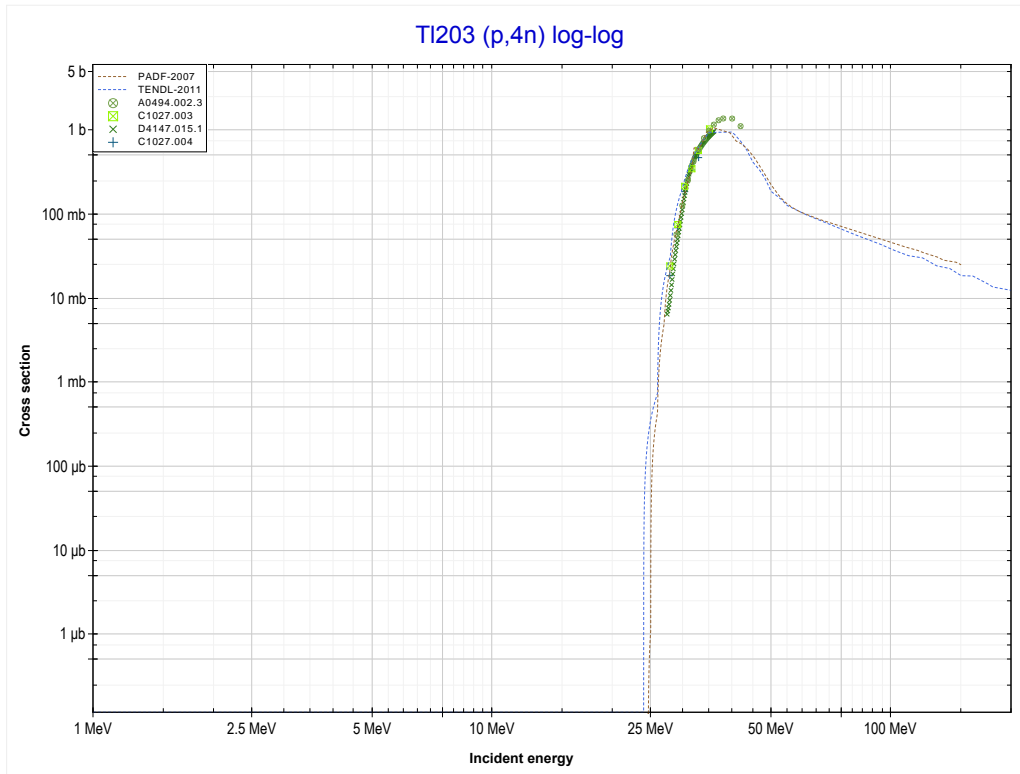
Reaction	Q-Value
TI203(p,2n)Pb202	-8680.86 keV

<< 79-Au-197	<b>81-Tl-203</b>	81-Tl-205 >>
<< MT16 (p,2n)	<b>MT17 (p,3n) or MT5 (Pb201 production)</b>	MT37 (p,4n) >>



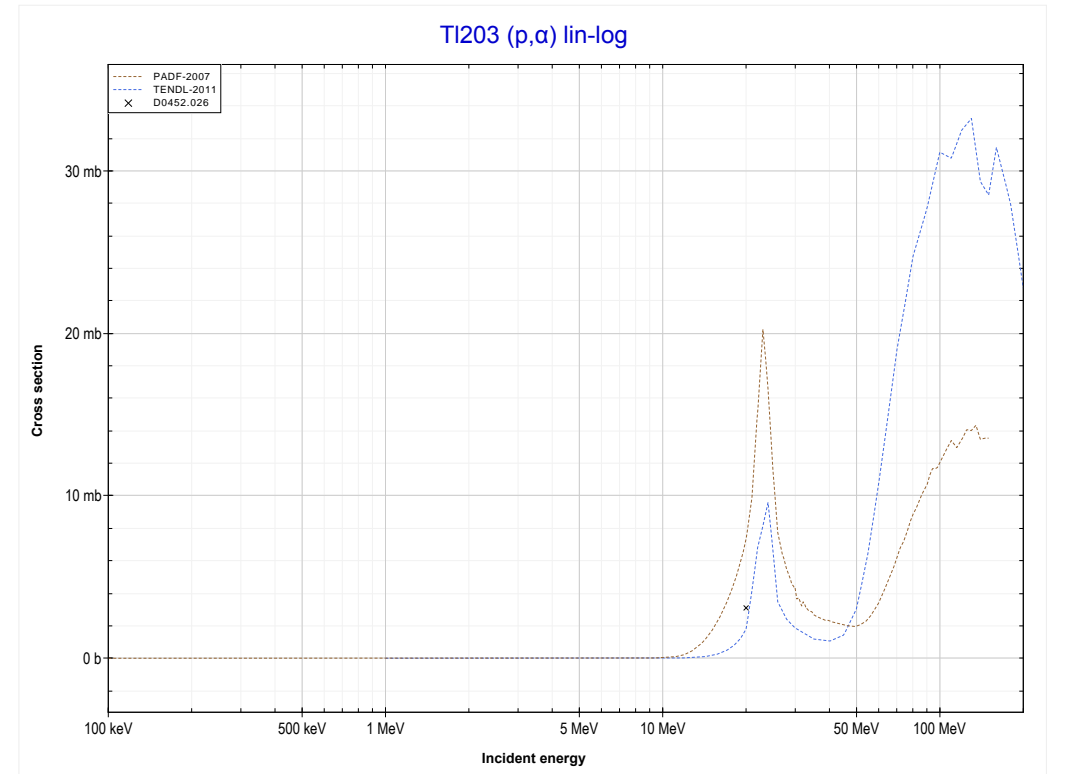
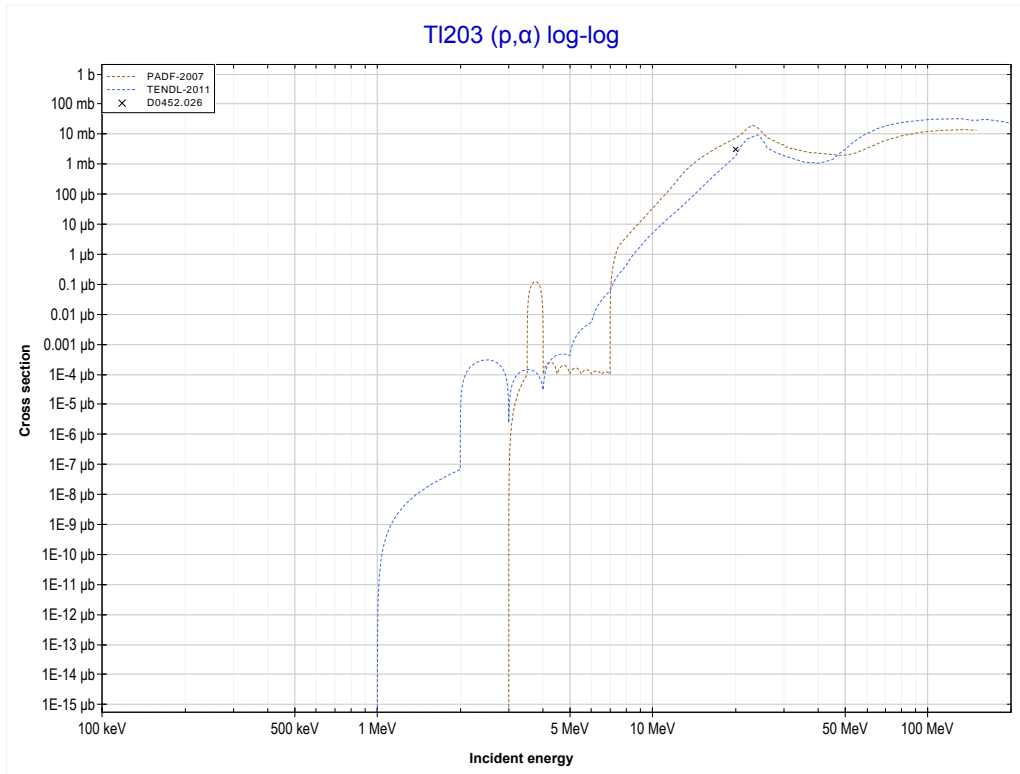
Reaction	Q-Value
Tl203(p,3n)Pb201	-17428.18 keV

<< 79-Au-197	<b>81-Tl-203</b>	81-Tl-205 >>
<< MT17 (p,3n)	<b>MT37 (p,4n) or MT5 (Pb200 production)</b>	MT107 (p, $\alpha$ ) >>



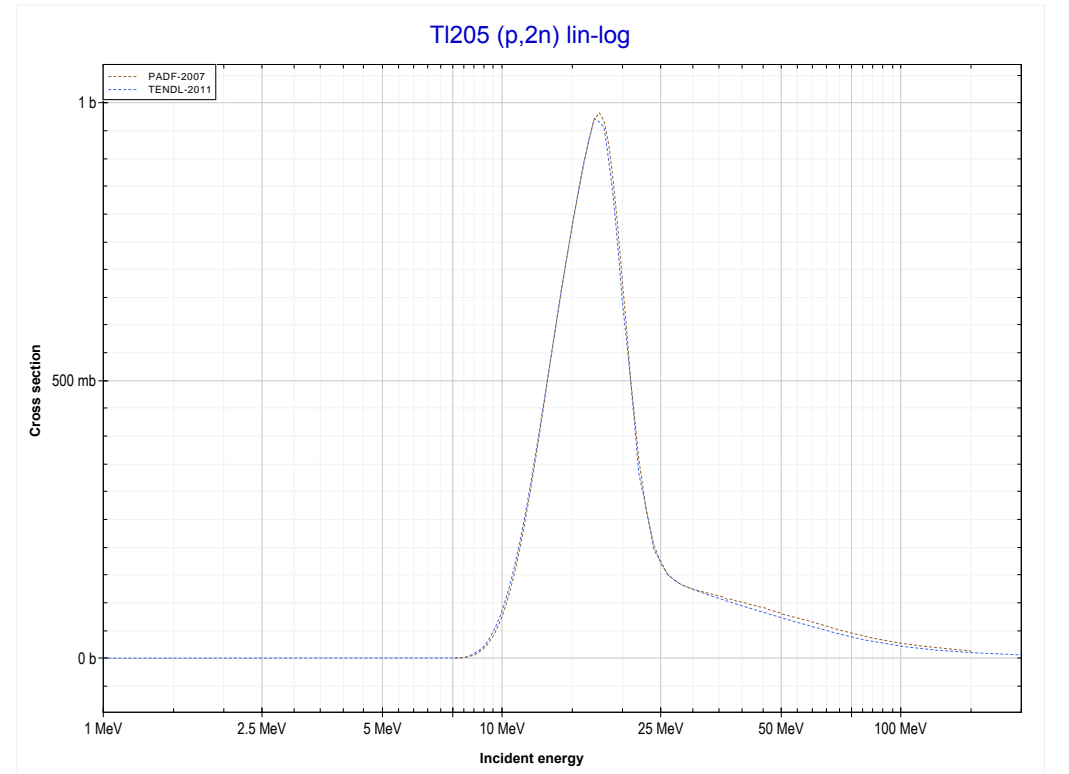
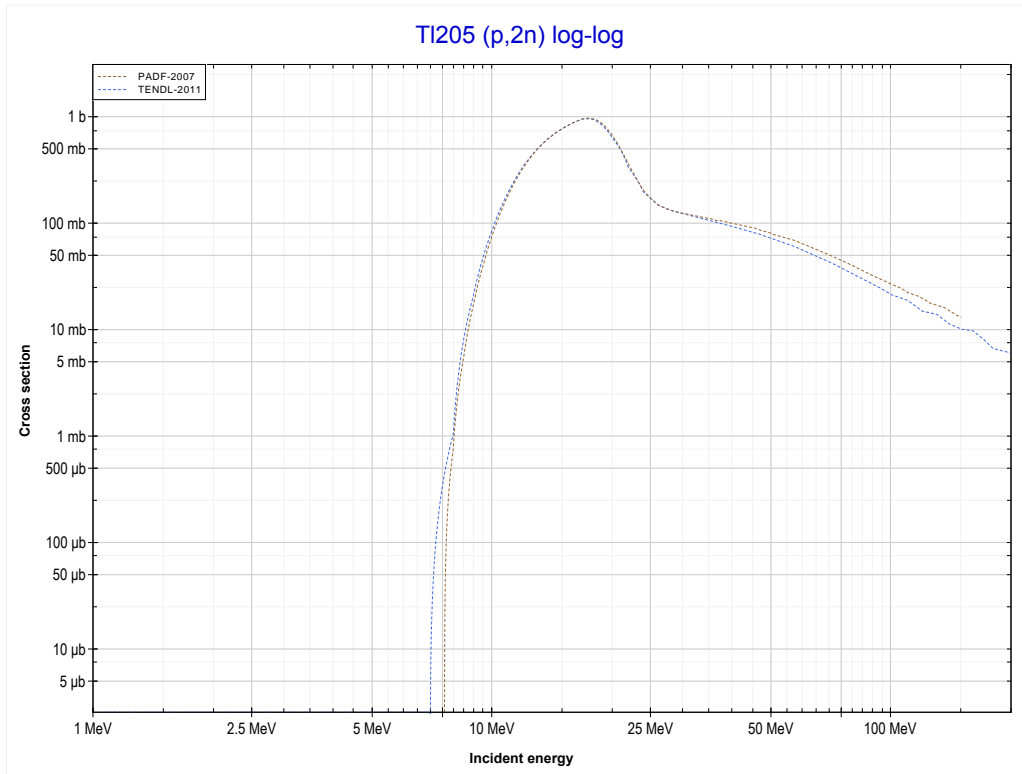
Reaction	Q-Value
Tl203(p,4n)Pb200	-24514.50 keV

<< 79-Au-197	<b>81-Tl-203</b>	81-Tl-205 >>
<< MT37 (p,4n)	<b>MT107 (p,<math>\alpha</math>) or MT5 (Hg200 production)</b>	MT16 (p,2n) >>



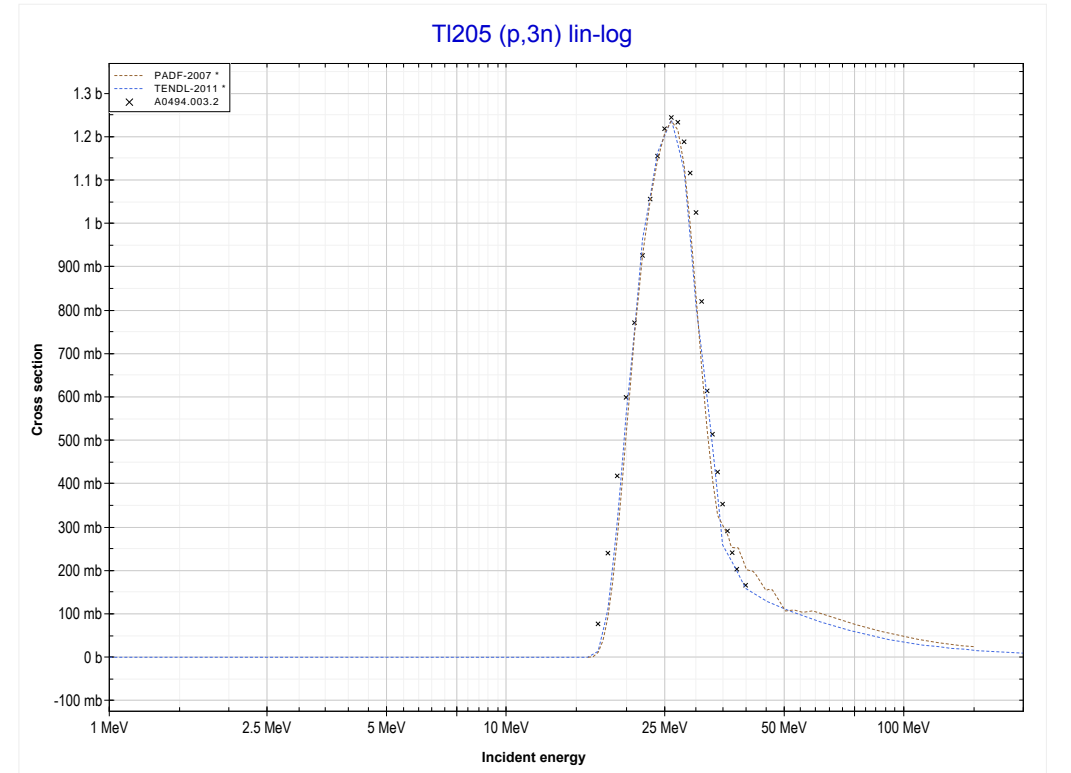
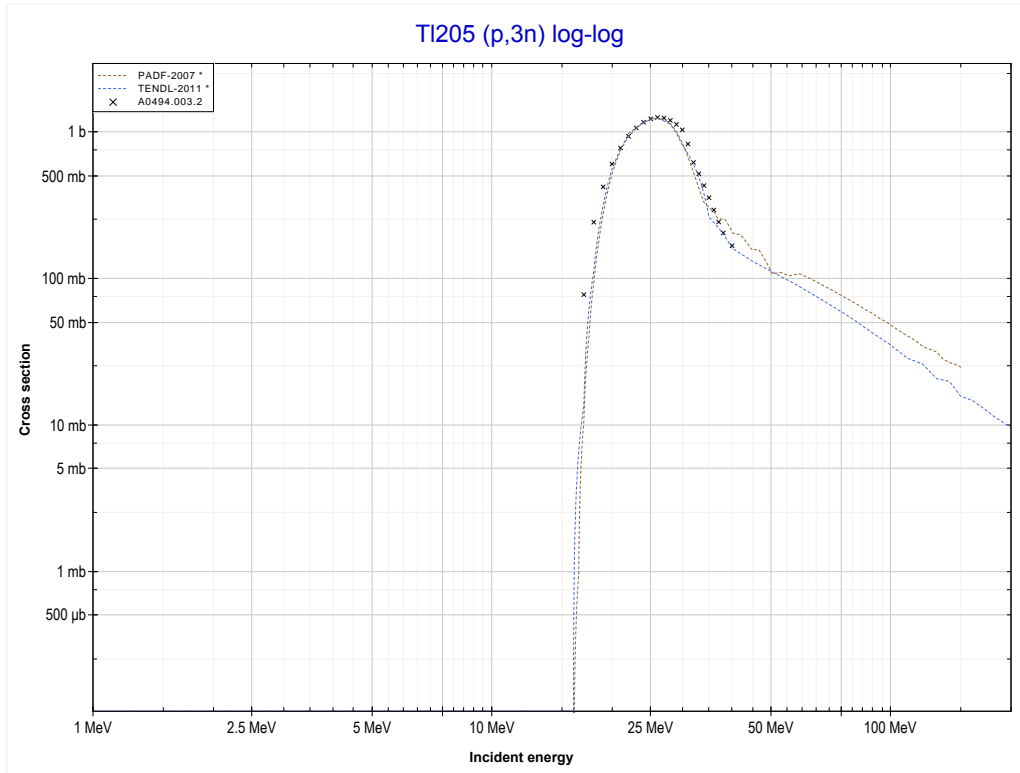
Reaction	Q-Value
TI203(p, $\alpha$ )Hg200	8606.95 keV
TI203(p,p+t)Hg200	-11206.91 keV
TI203(p,n+He3)Hg200	-11970.66 keV
TI203(p,2d)Hg200	-15239.57 keV
TI203(p,n+p+d)Hg200	-17464.14 keV
TI203(p,2n+2p)Hg200	-19688.70 keV

<< 81-Tl-203	<b>81-Tl-205</b>	82-Pb-206 >>
<< MT107 (p, $\alpha$ )	<b>MT16 (p,2n) or MT5 (Pb204 production)</b>	MT17 (p,3n) >>



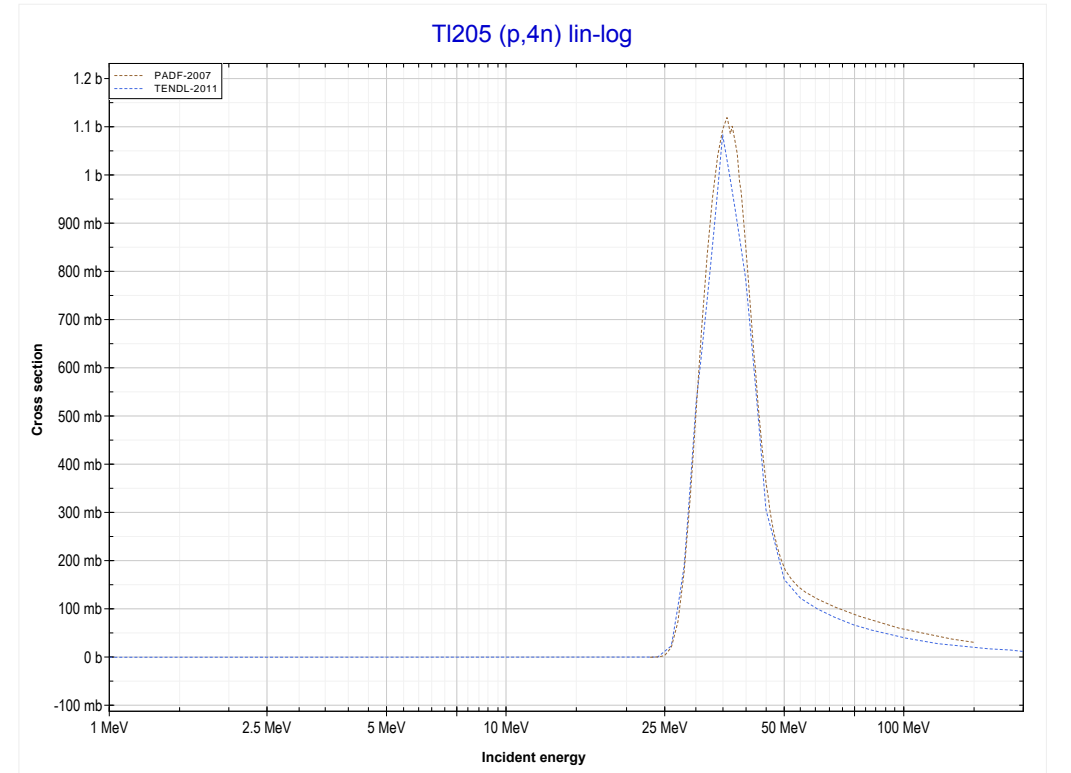
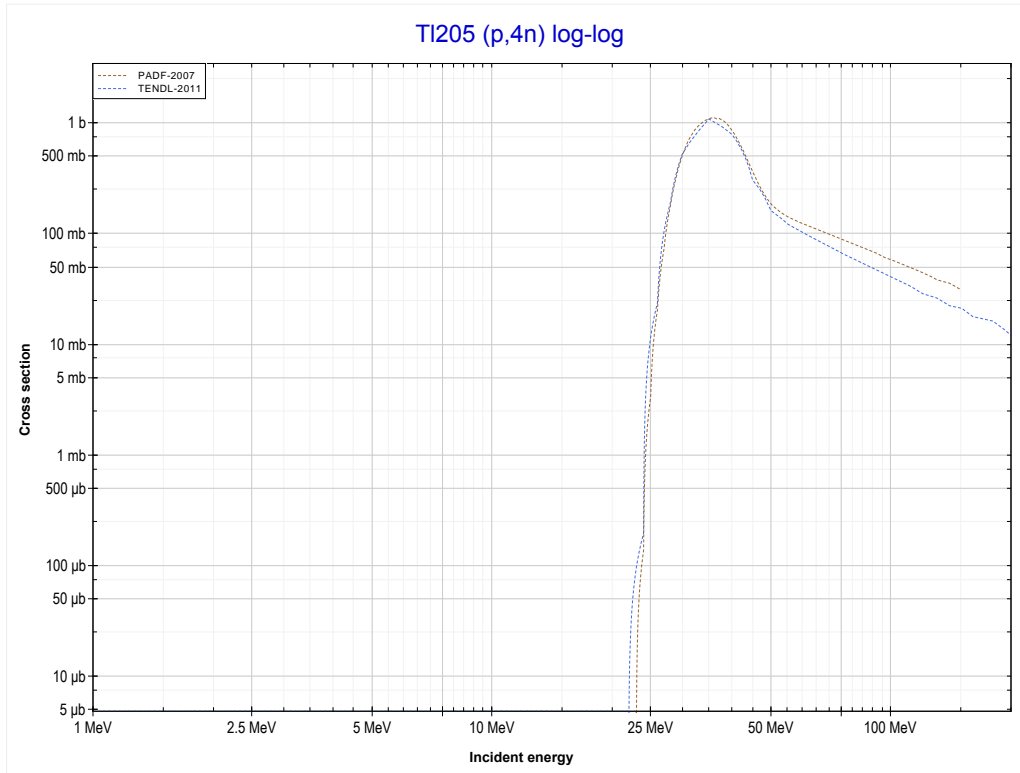
Reaction	Q-Value
Tl205(p,2n)Pb204	-7564.56 keV

<< 81-Tl-203	<b>81-Tl-205</b>	82-Pb-206 >>
<< MT16 (p,2n)	<b>MT17 (p,3n) or MT5 (Pb203 production)</b>	MT37 (p,4n) >>



<b>Reaction</b>	<b>Q-Value</b>
TI205(p,3n)Pb203	-15958.58 keV

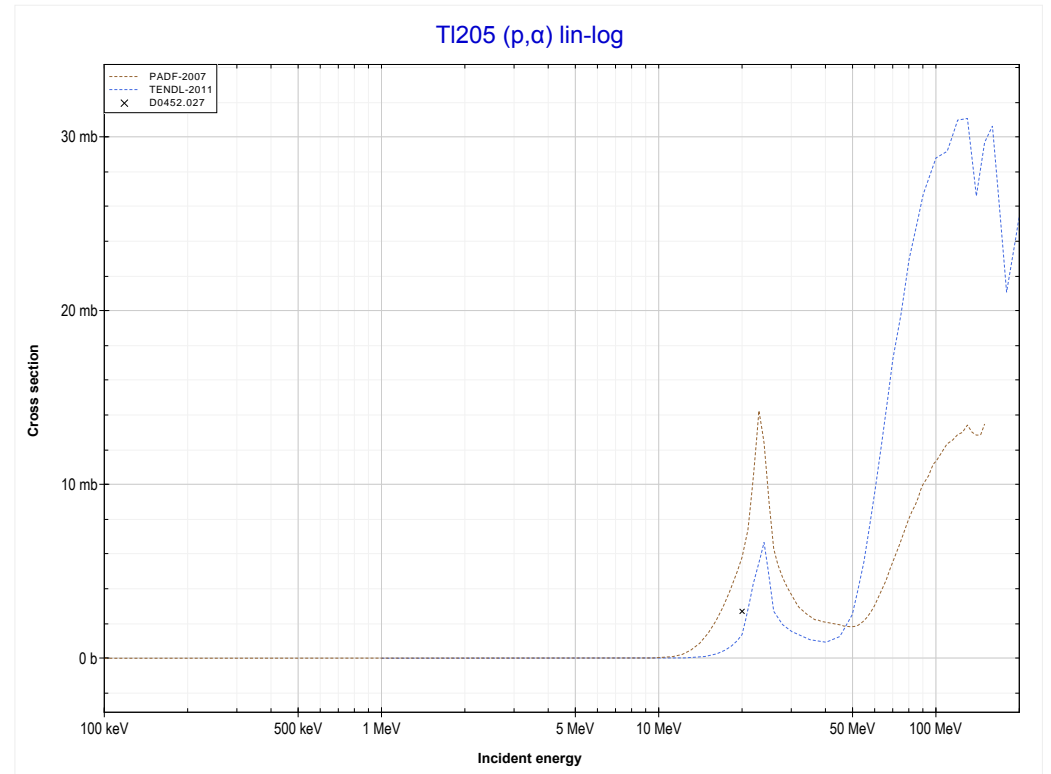
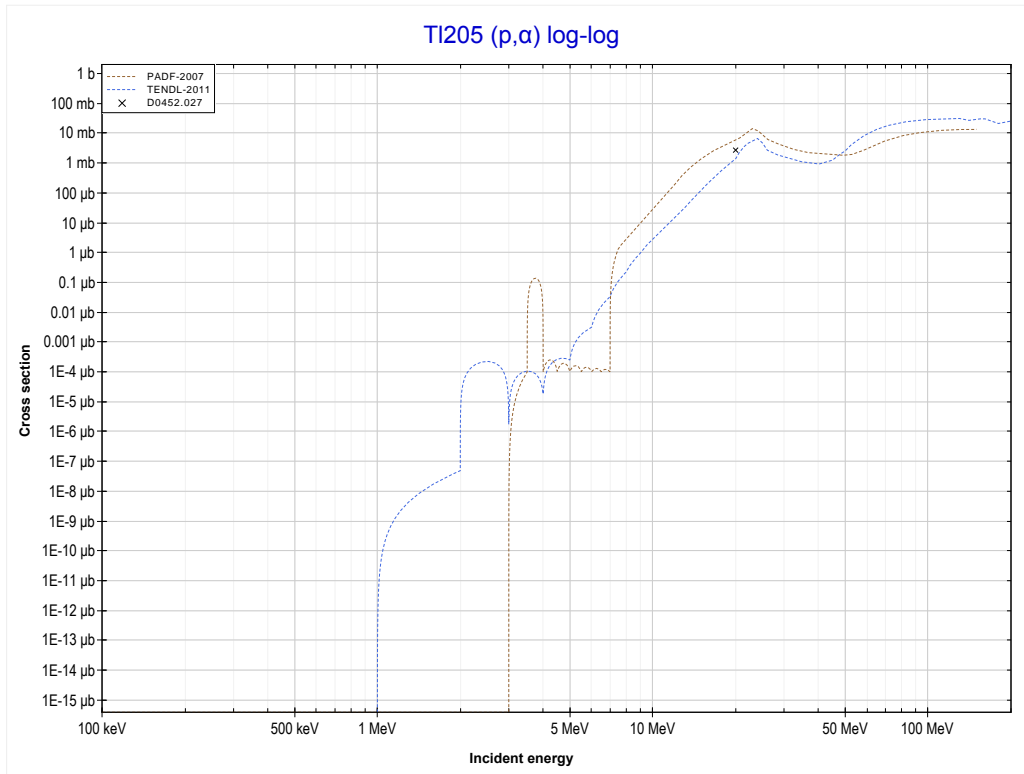
<< 81-Tl-203	<b>81-Tl-205</b>	82-Pb-207 >>
<< MT17 (p,3n)	<b>MT37 (p,4n) or MT5 (Pb202 production)</b>	MT107 (p, $\alpha$ ) >>



Reaction	Q-Value
Tl205(p,4n)Pb202	-22882.90 keV

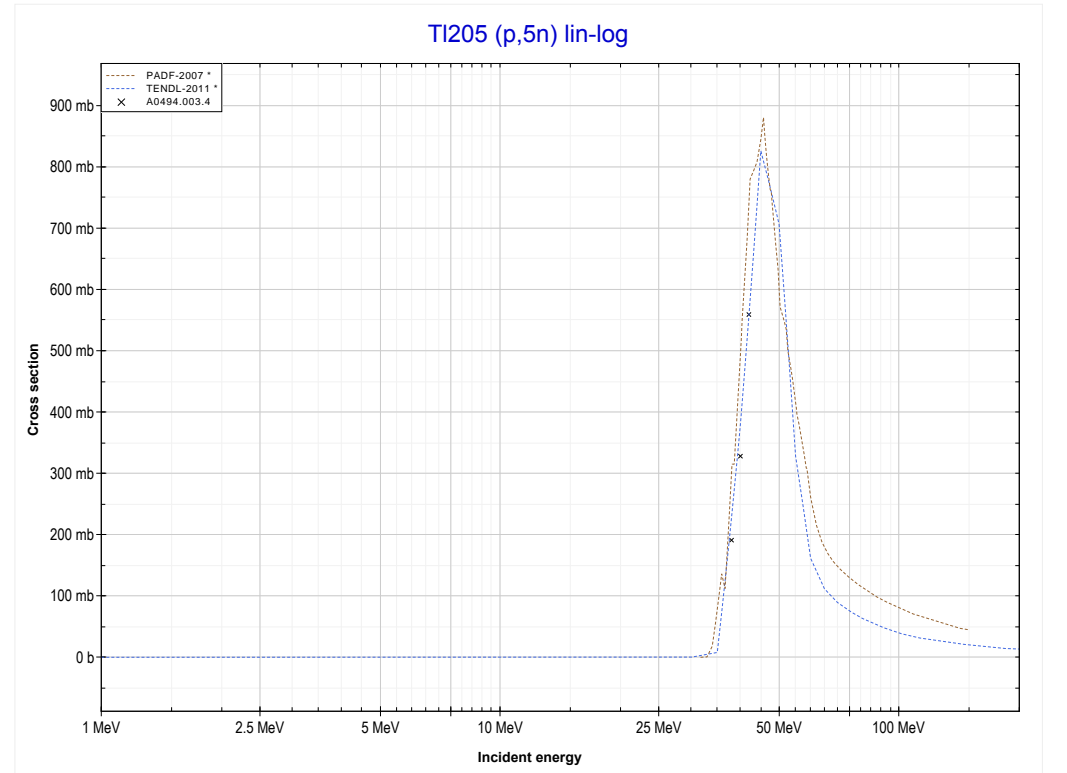
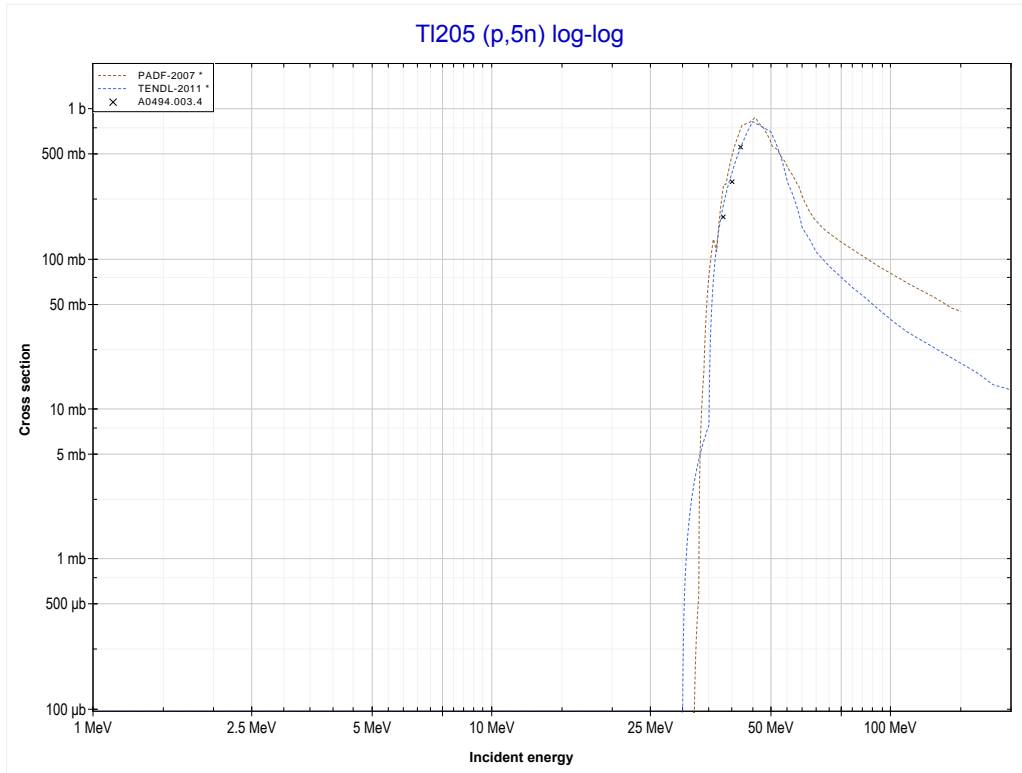


<< 81-Tl-203	<b>81-Tl-205</b>	82-Pb-206 >>
<< MT37 (p,4n)	<b>MT107 (p,<math>\alpha</math>) or MT5 (Hg202 production)</b>	MT152 (p,5n) >>



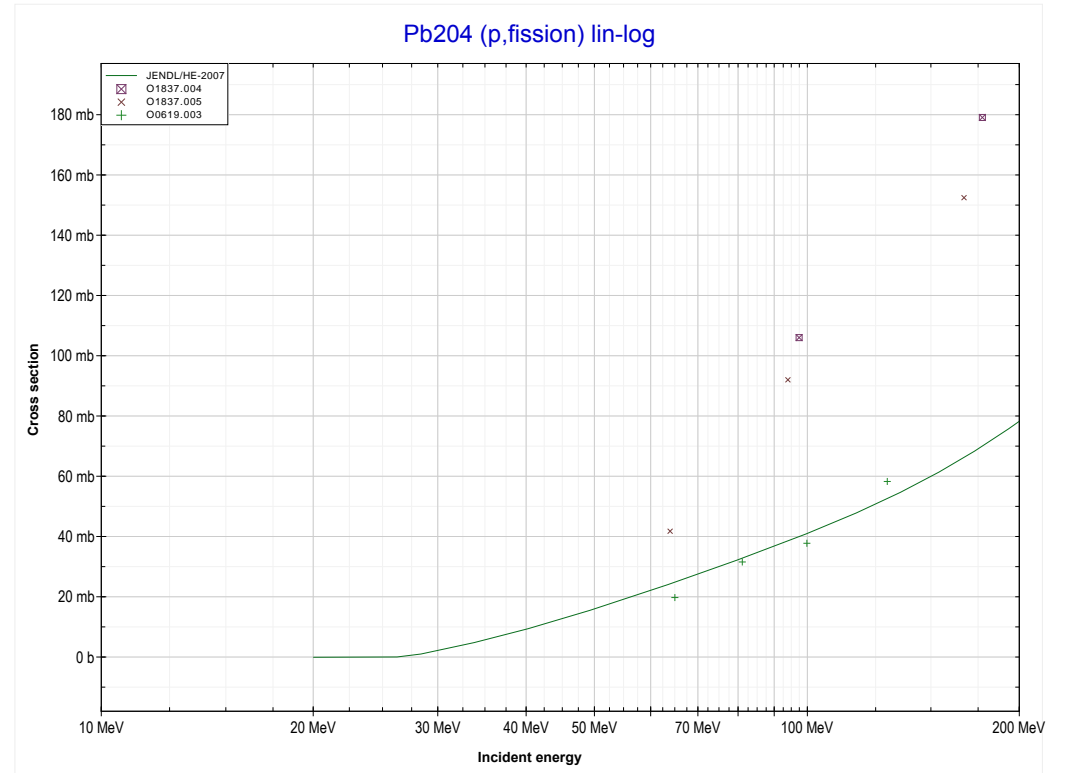
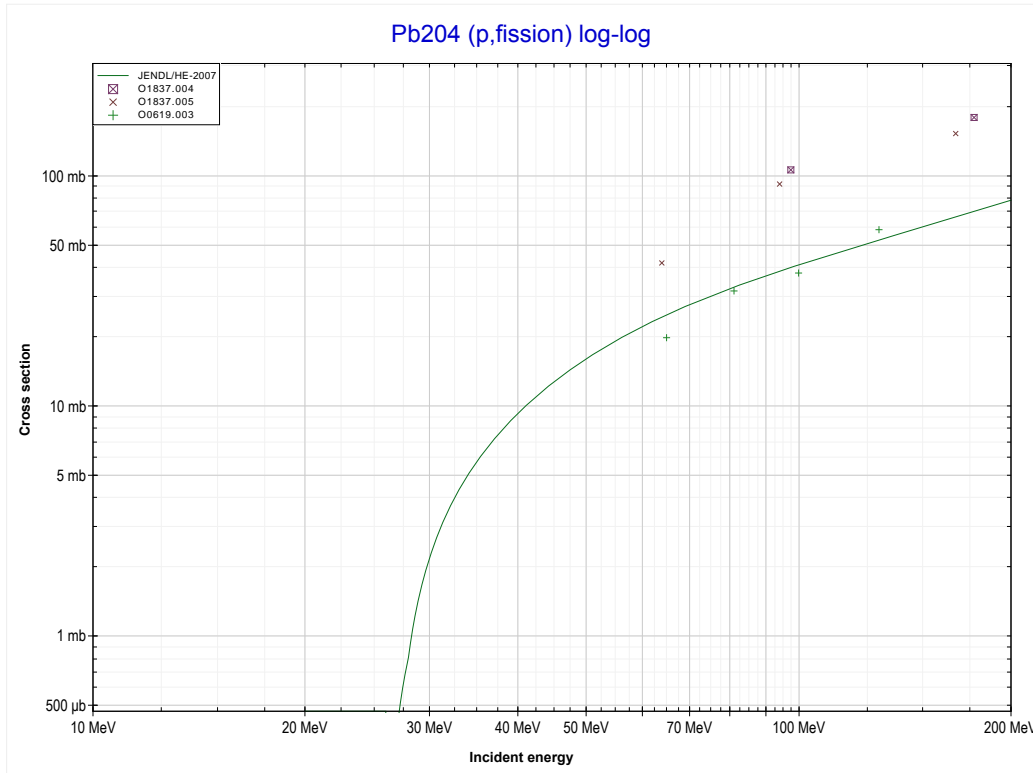
Reaction	Q-Value
Tl205(p, $\alpha$ )Hg202	8389.35 keV
Tl205(p,p+t)Hg202	-11424.51 keV
Tl205(p,n+He3)Hg202	-12188.26 keV
Tl205(p,2d)Hg202	-15457.17 keV
Tl205(p,n+p+d)Hg202	-17681.74 keV
Tl205(p,2n+2p)Hg202	-19906.30 keV

<< 79-Au-197	<b>81-Tl-205</b>	82-Pb-206 >>
<< MT107 (p, $\alpha$ )	<b>MT152 (p,5n) or MT5 (Pb201 production)</b>	MT18 (p,fission) >>

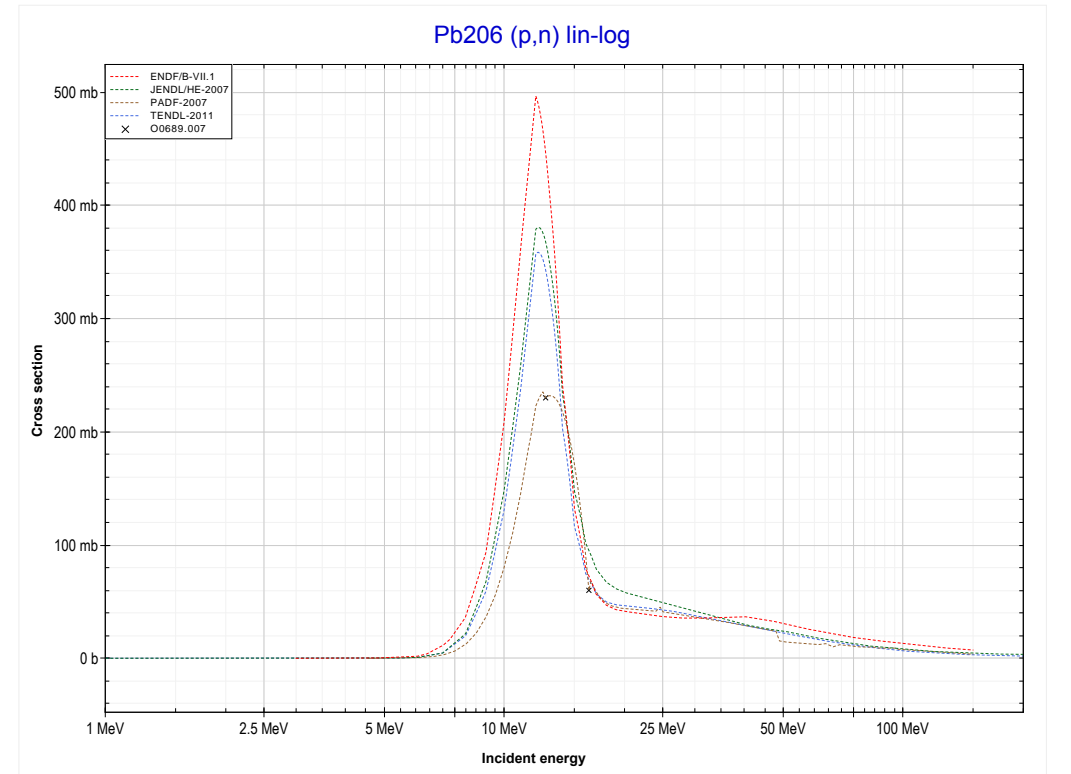
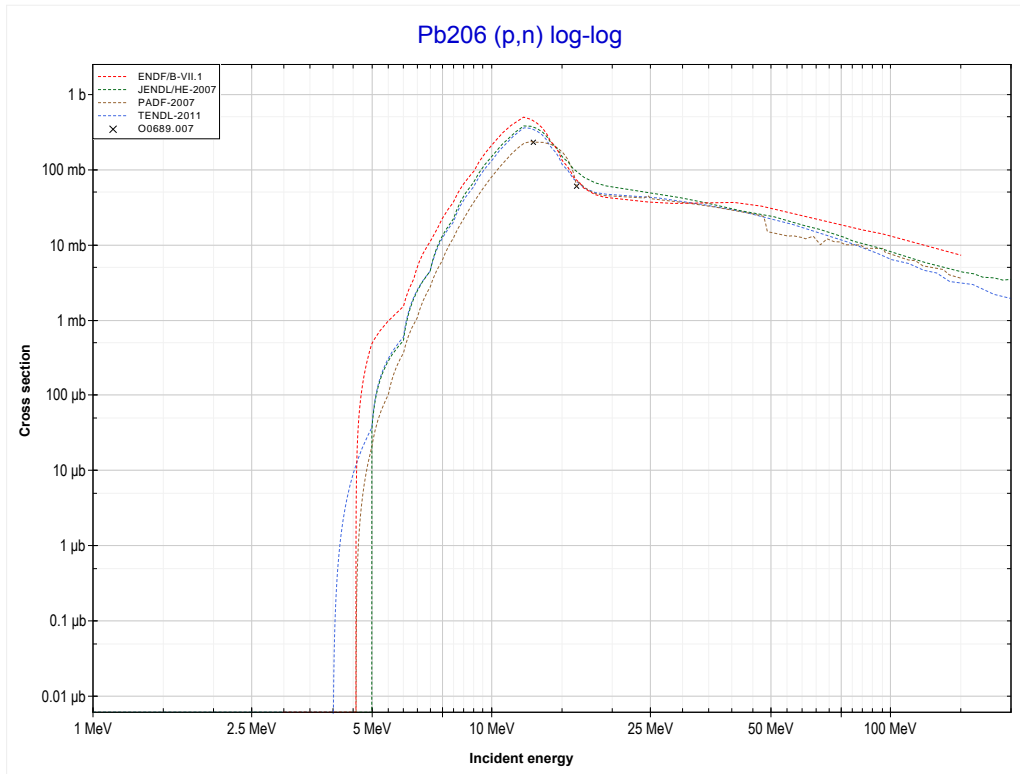


Reaction	Q-Value
Tl205(p,5n)Pb201	-31630.21 keV

<< 74-W-186	<b>82-Pb-204</b>	82-Pb-206 >>
<< MT152 (p,5n)	<b>MT18 (p,fission)</b>	MT4 (p,n) >>

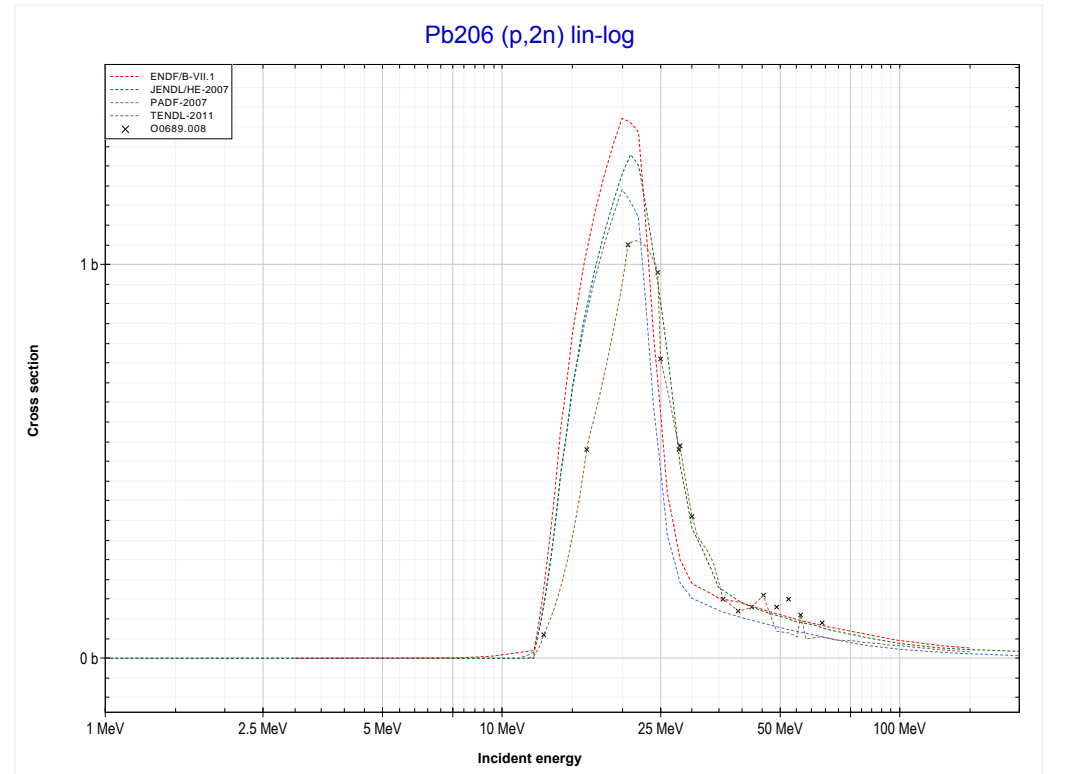
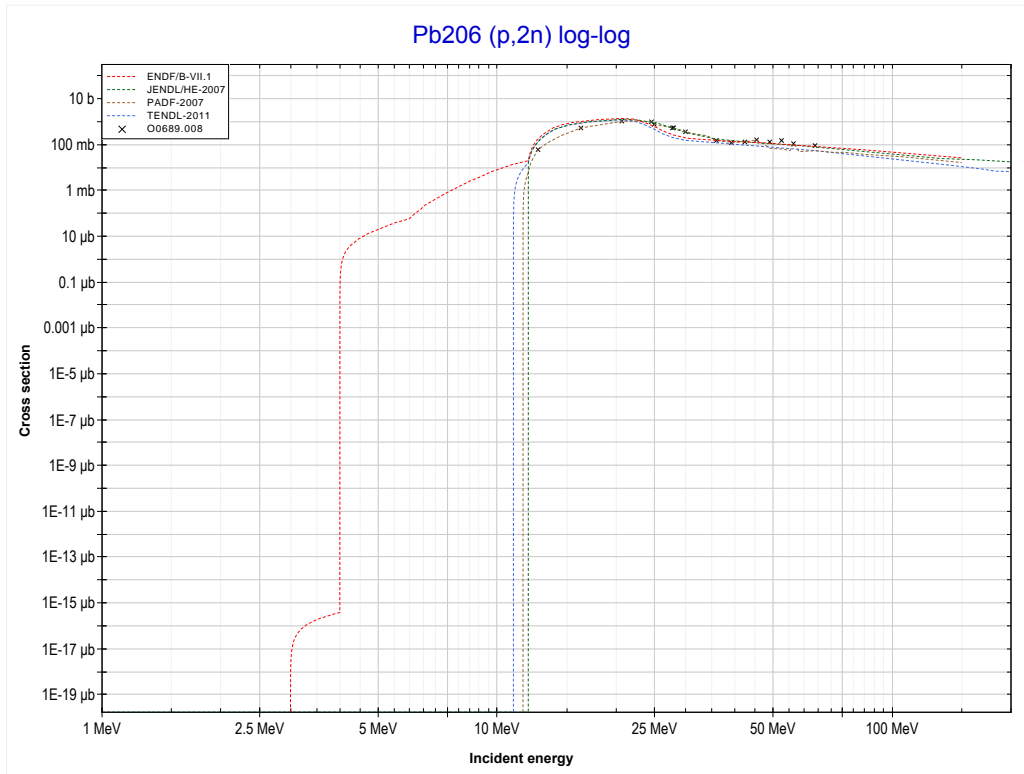


<< 81-Tl-203	<b>82-Pb-206</b>	83-Bi-209 >>
<< MT18 (p,fission)	<b>MT4 (p,n) or MT5 (Bi206 production)</b>	MT16 (p,2n) >>



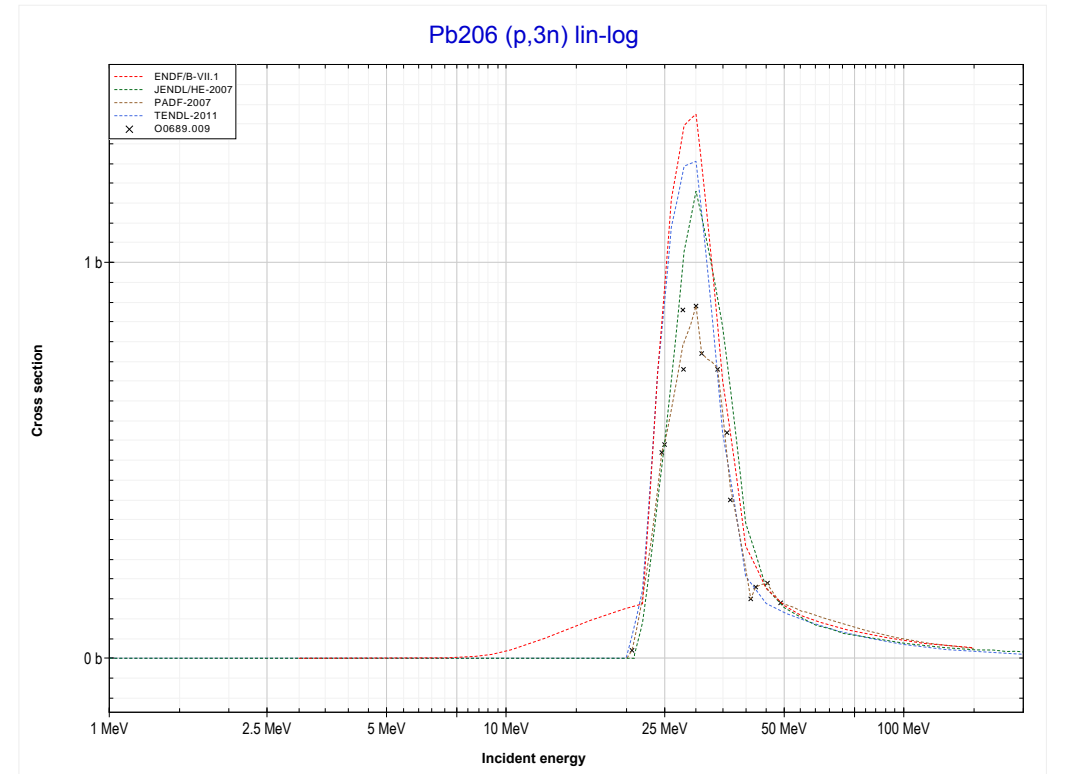
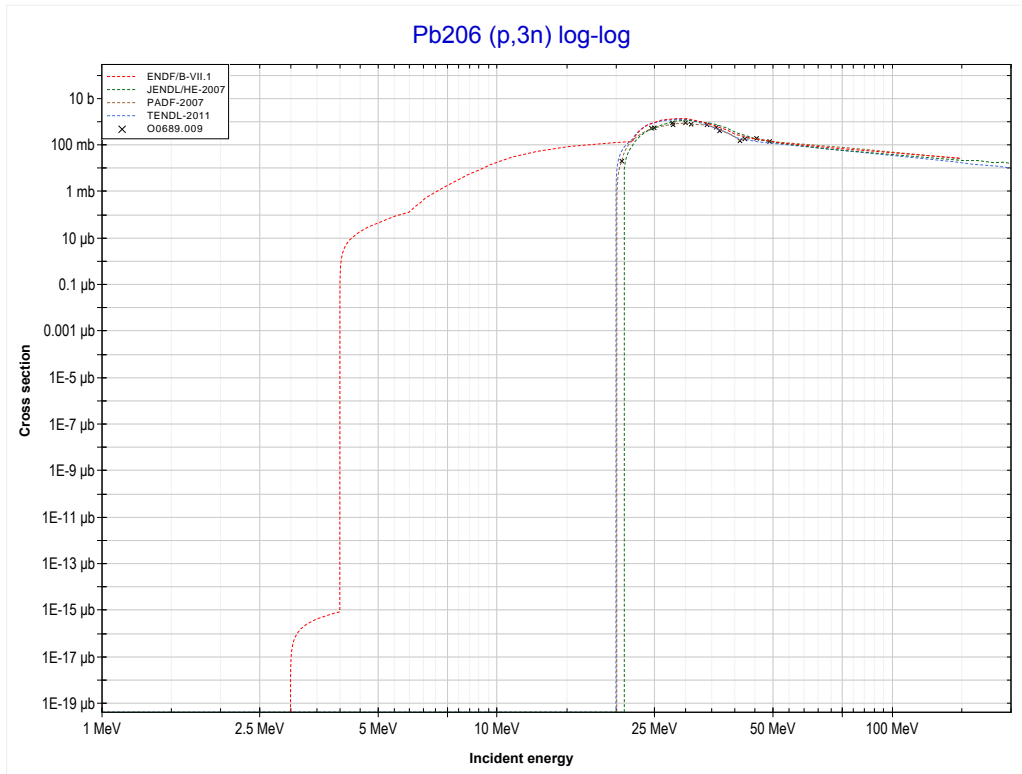
<b>Reaction</b>	<b>Q-Value</b>
Pb206(p,n)Bi206	-4539.75 keV

<< 81-Tl-205	<b>82-Pb-206</b>	82-Pb-207 >>
<< MT4 (p,n)	<b>MT16 (p,2n) or MT5 (Bi205 production)</b>	MT17 (p,3n) >>



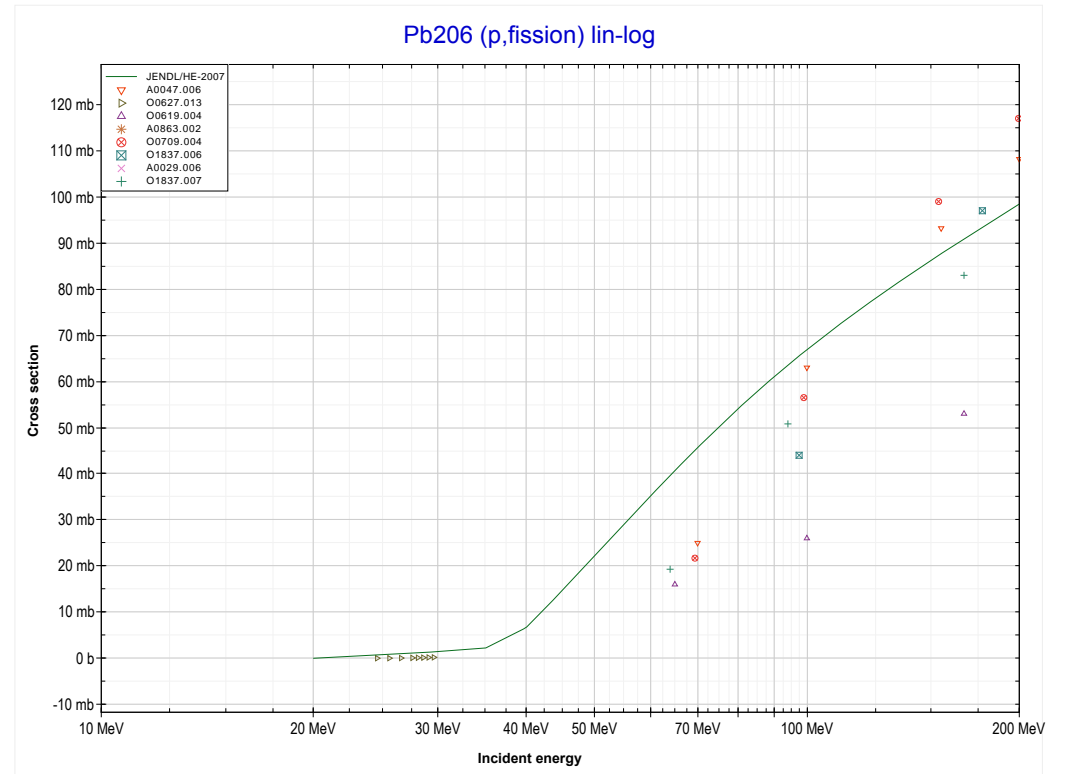
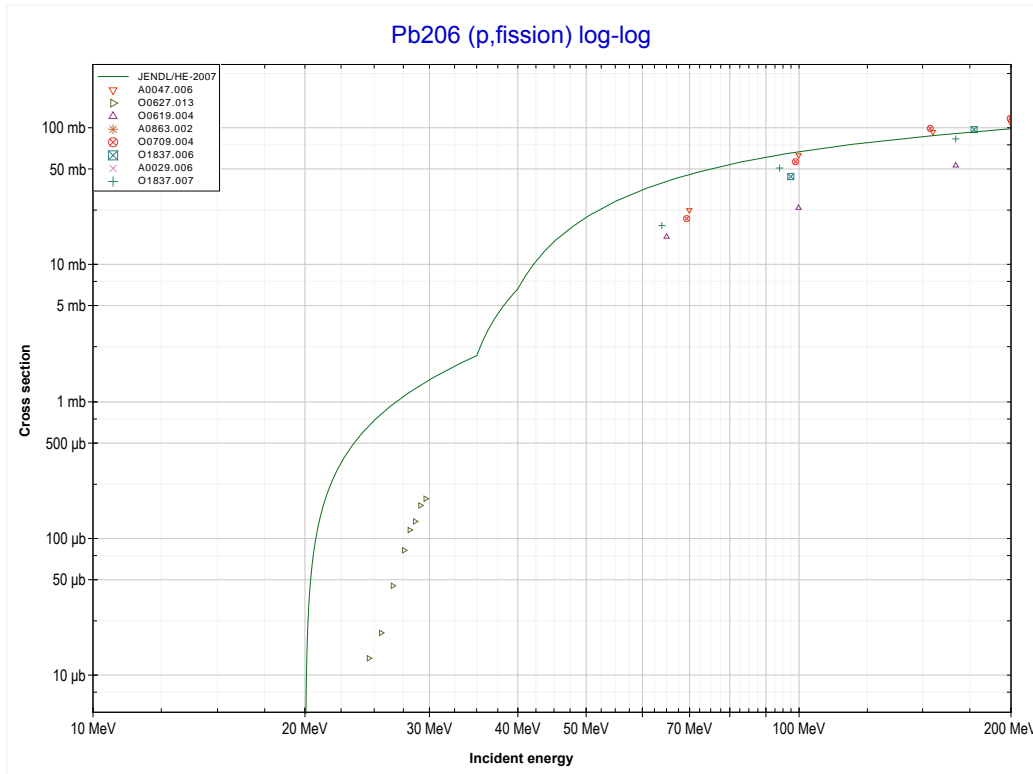
Reaction	Q-Value
Pb206(p,2n)Bi205	-11577.06 keV

<< 81-Tl-205	<b>82-Pb-206</b>	82-Pb-207 >>
<< MT16 (p,2n)	<b>MT17 (p,3n) or MT5 (Bi204 production)</b>	MT18 (p,fission) >>

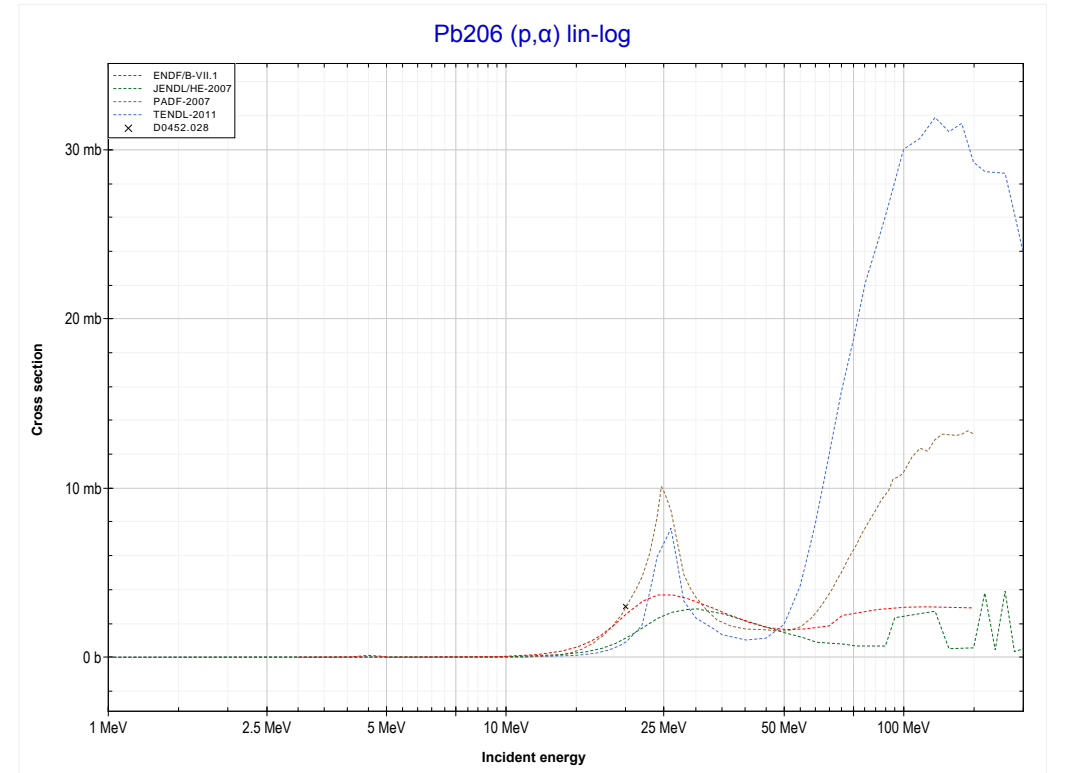
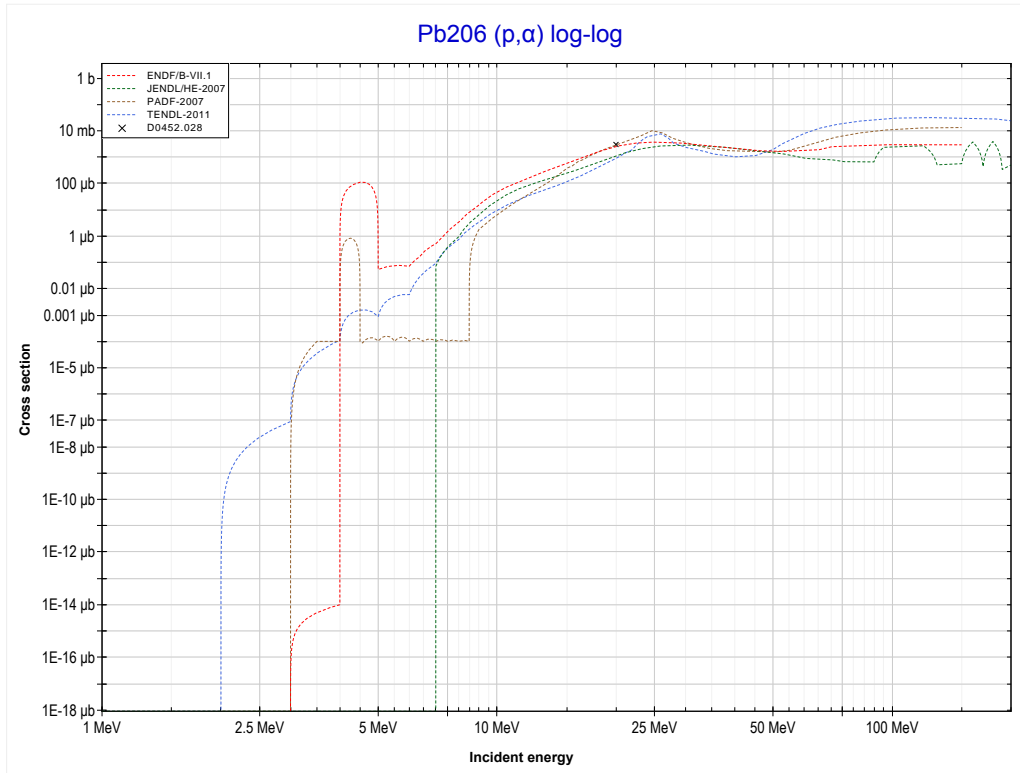


<b>Reaction</b>	<b>Q-Value</b>
Pb206(p,3n)Bi204	-20043.38 keV

<< 82-Pb-204	<b>82-Pb-206</b>	82-Pb-207 >>
<< MT17 (p,3n)	<b>MT18 (p,fission)</b>	MT107 (p, $\alpha$ ) >>



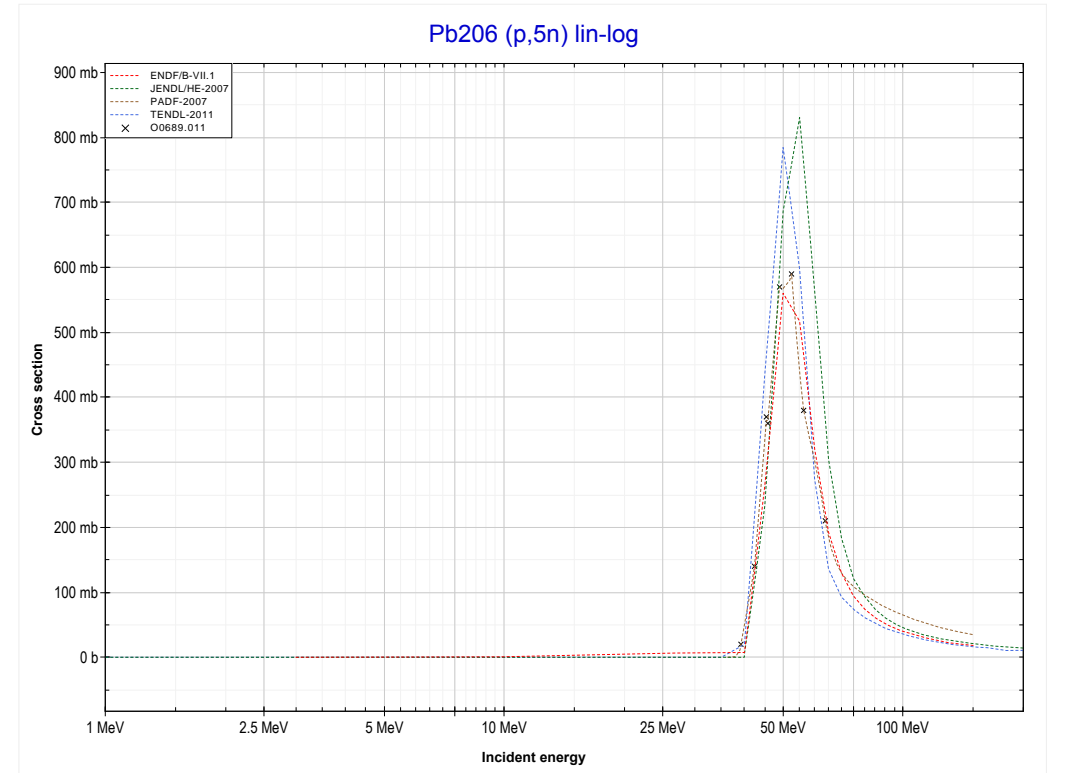
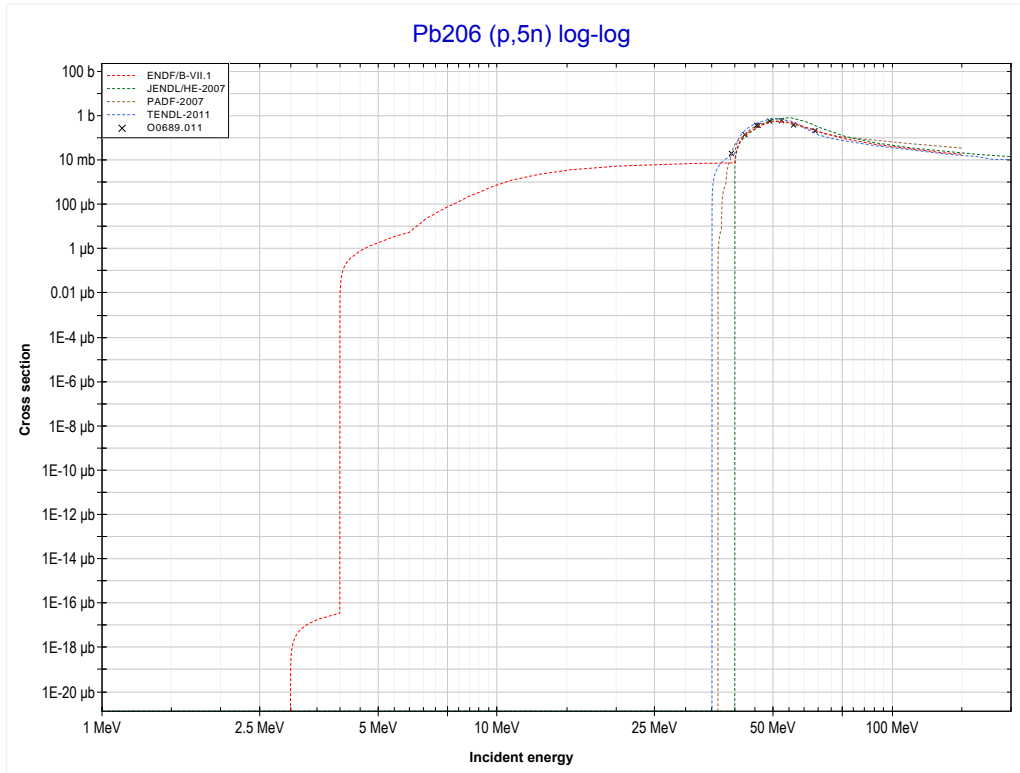
<< 81-Tl-205	<b>82-Pb-206</b>	82-Pb-207 >>
<< MT18 (p,fission)	<b>MT107 (p,<math>\alpha</math>) or MT5 (Tl203 production)</b>	MT152 (p,5n) >>



Reaction	Q-Value
Pb206(p, $\alpha$ )Tl203	6839.85 keV
Pb206(p,p+t)Tl203	-12974.01 keV
Pb206(p,n+He3)Tl203	-13737.76 keV
Pb206(p,2d)Tl203	-17006.67 keV
Pb206(p,n+p+d)Tl203	-19231.24 keV
Pb206(p,2n+2p)Tl203	-21455.80 keV

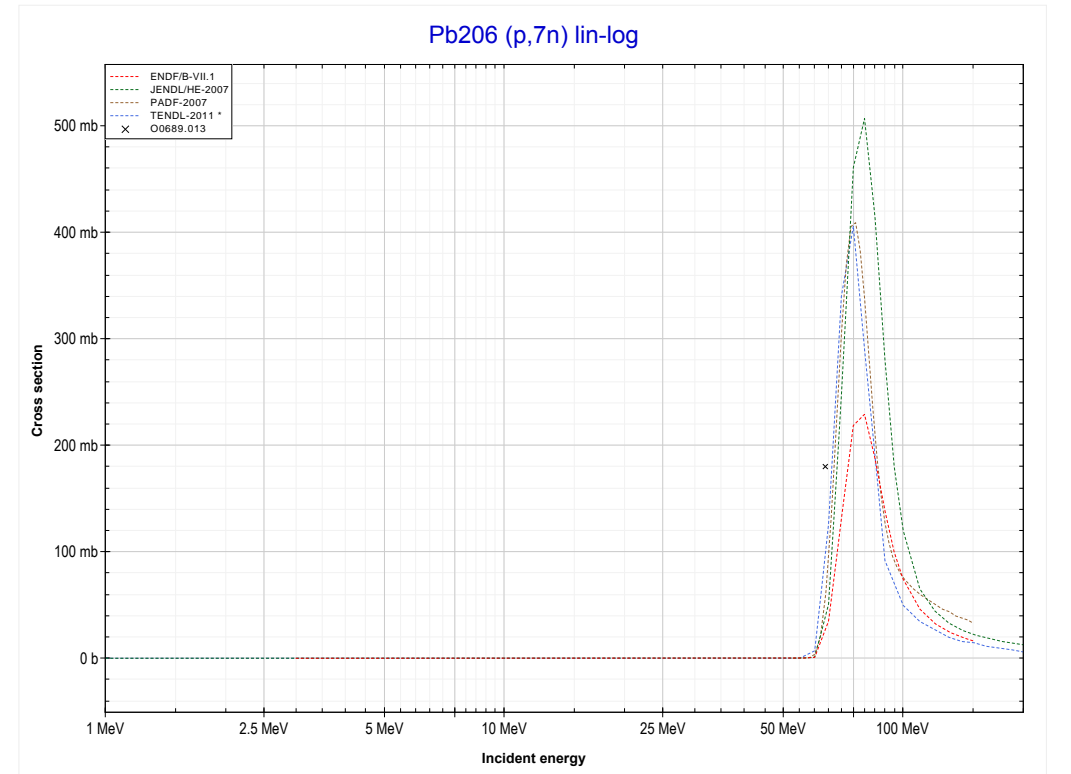
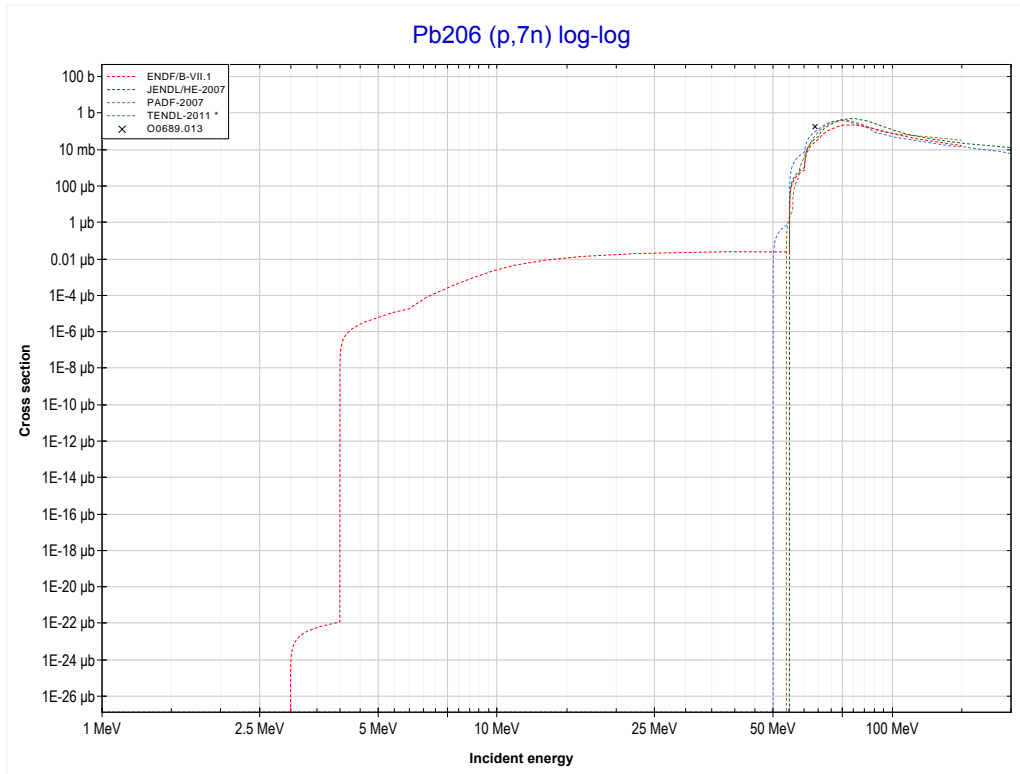


<< 81-Tl-205	<b>82-Pb-206</b>	82-Pb-208 >>
<< MT107 (p, $\alpha$ )	<b>MT152 (p,5n) or MT5 (Bi202 production)</b>	MT160 (p,7n) >>



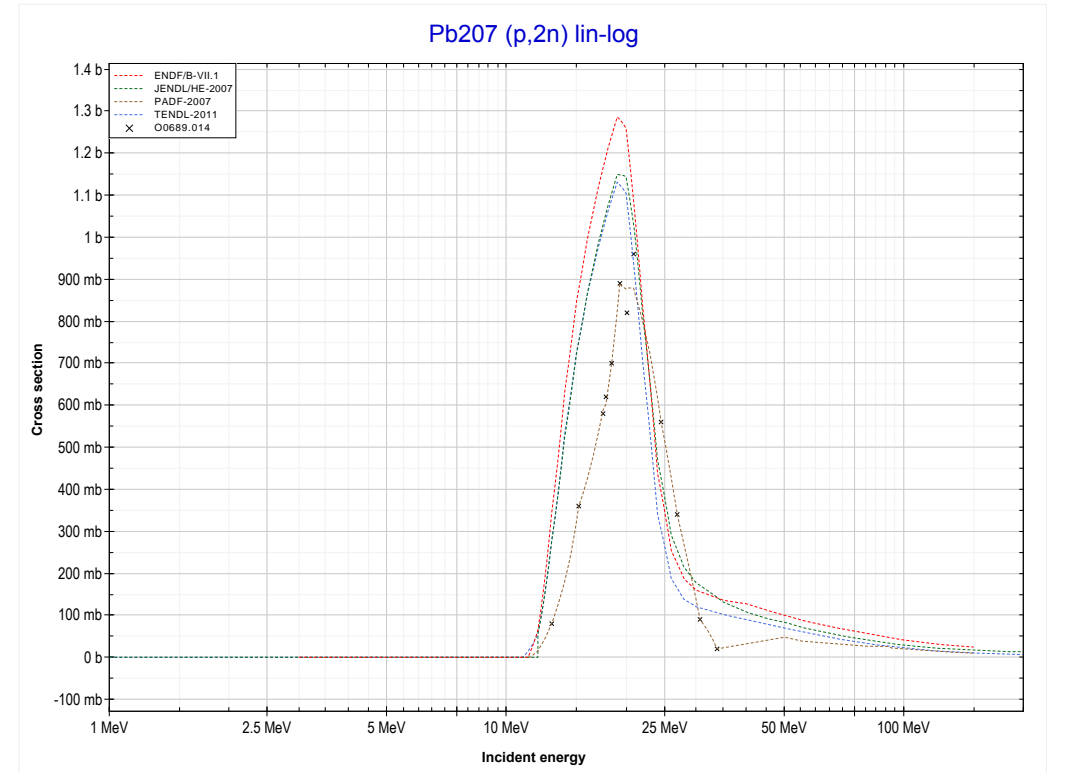
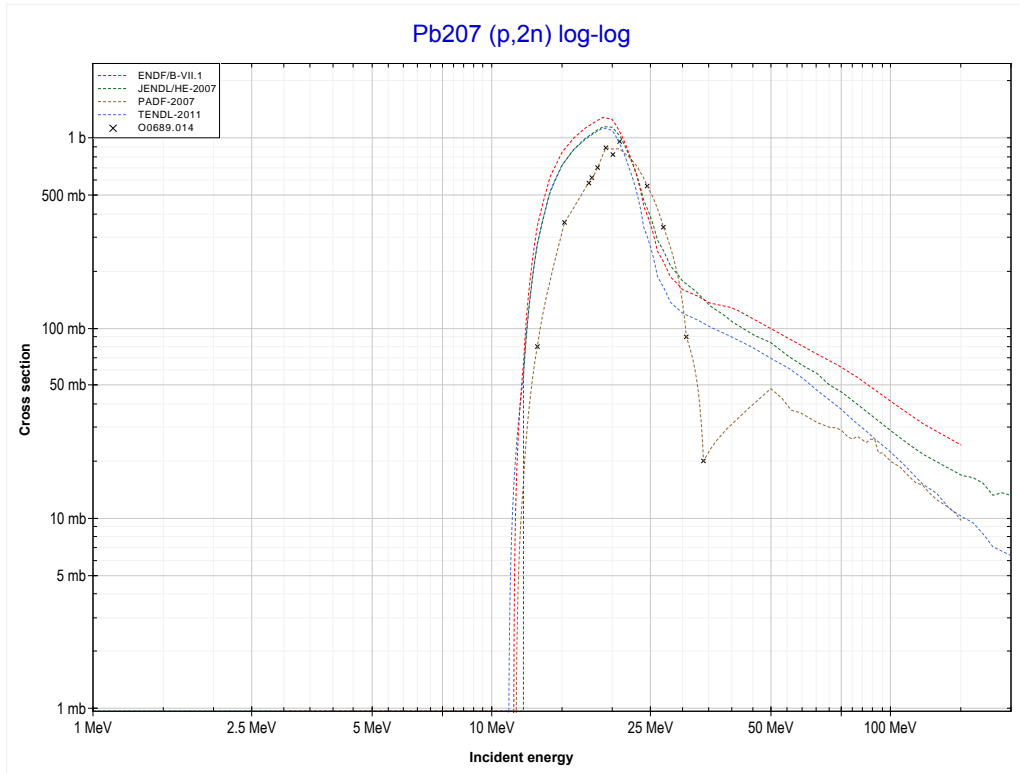
Reaction	Q-Value
Pb206(p,5n)Bi202	-36120.01 keV

<< 76-Os-192	<b>82-Pb-206</b>	83-Bi-209 >>
<< MT152 (p,5n)	<b>MT160 (p,7n) or MT5 (Bi200 production)</b>	MT16 (p,2n) >>



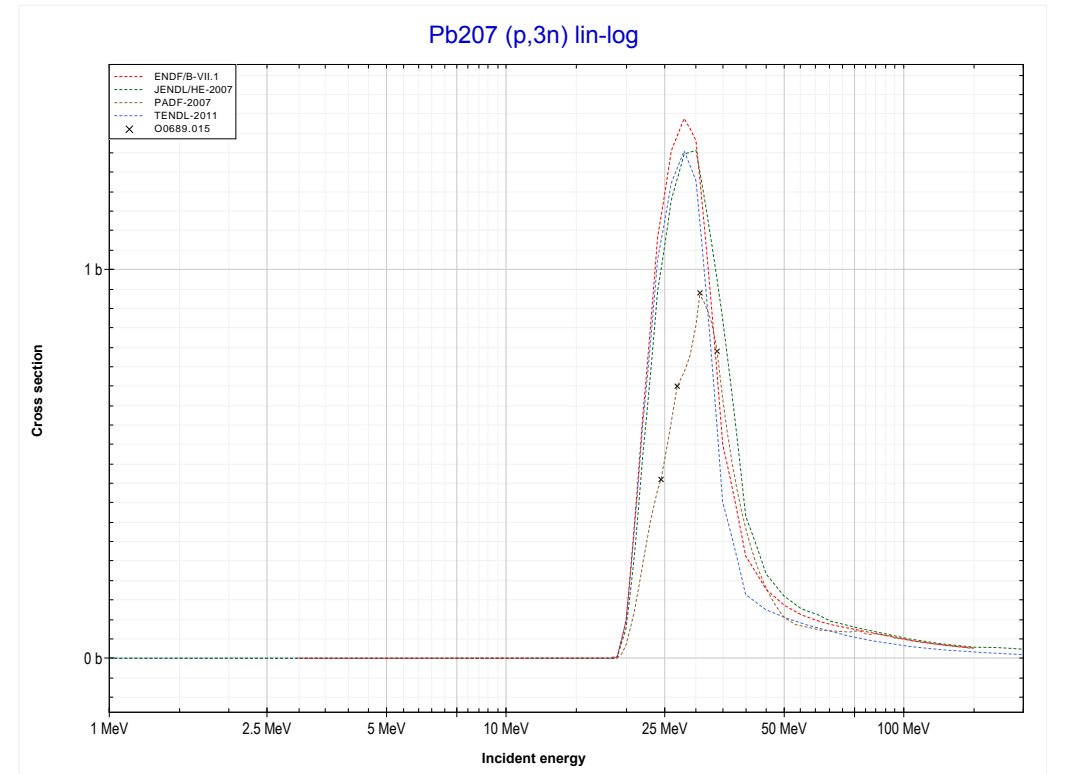
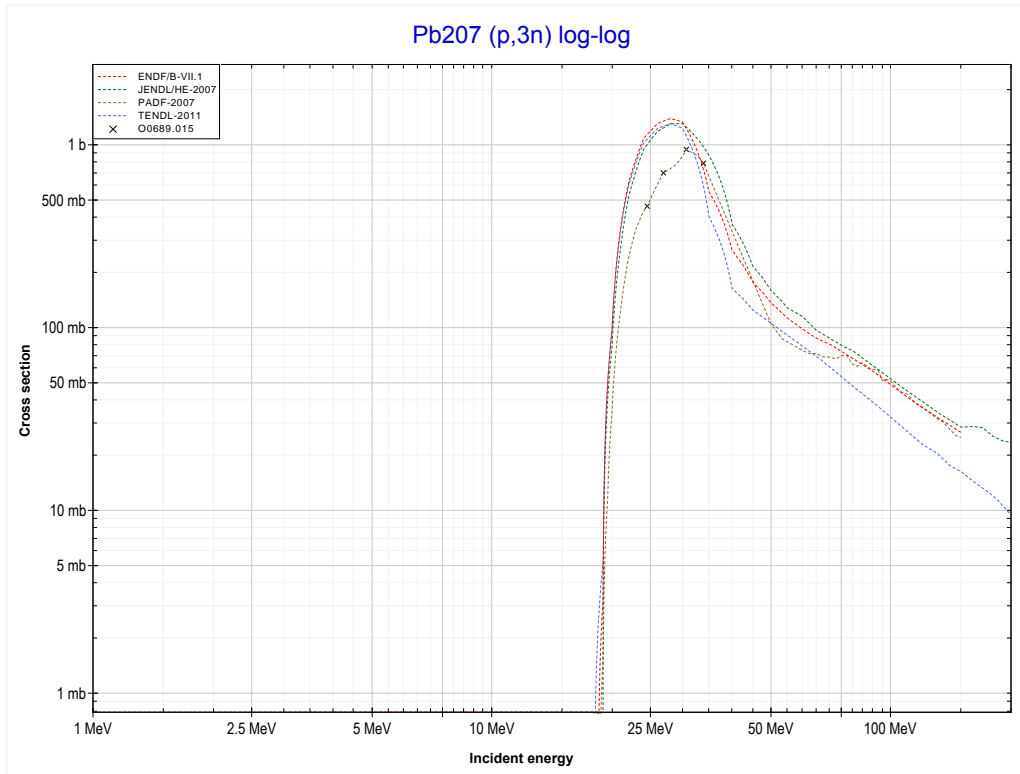
Reaction	Q-Value
Pb206(p,7n)Bi200	-52625.65 keV

<< 82-Pb-206	<b>82-Pb-207</b>	83-Bi-209 >>
<< MT160 (p,7n)	<b>MT16 (p,2n) or MT5 (Bi206 production)</b>	MT17 (p,3n) >>



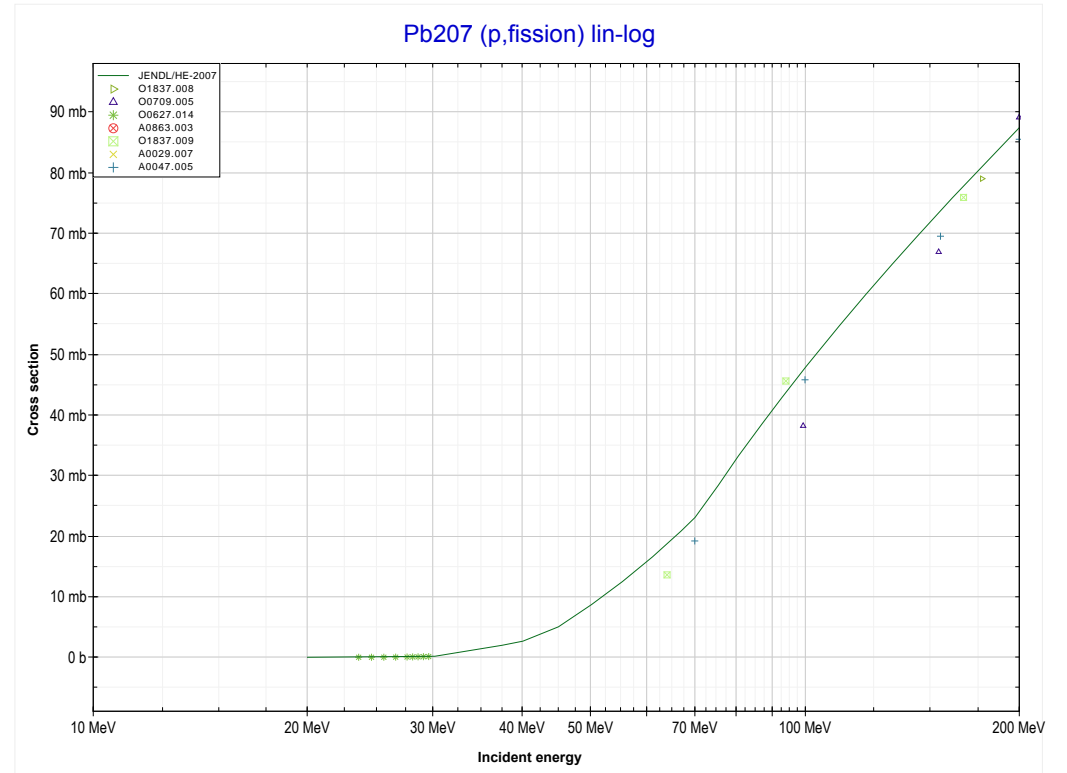
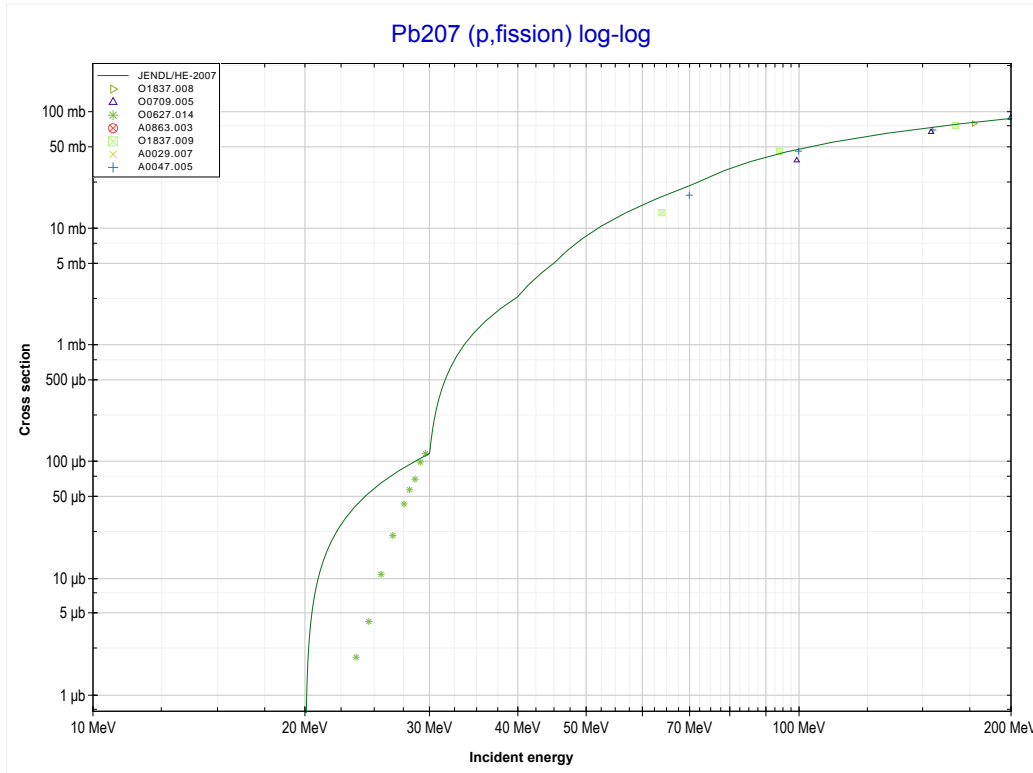
Reaction	Q-Value
Pb207(p,2n)Bi206	-11277.56 keV

<< 82-Pb-206	<b>82-Pb-207</b>	82-Pb-208 >>
<< MT16 (p,2n)	<b>MT17 (p,3n) or MT5 (Bi205 production)</b>	MT18 (p,fission) >>

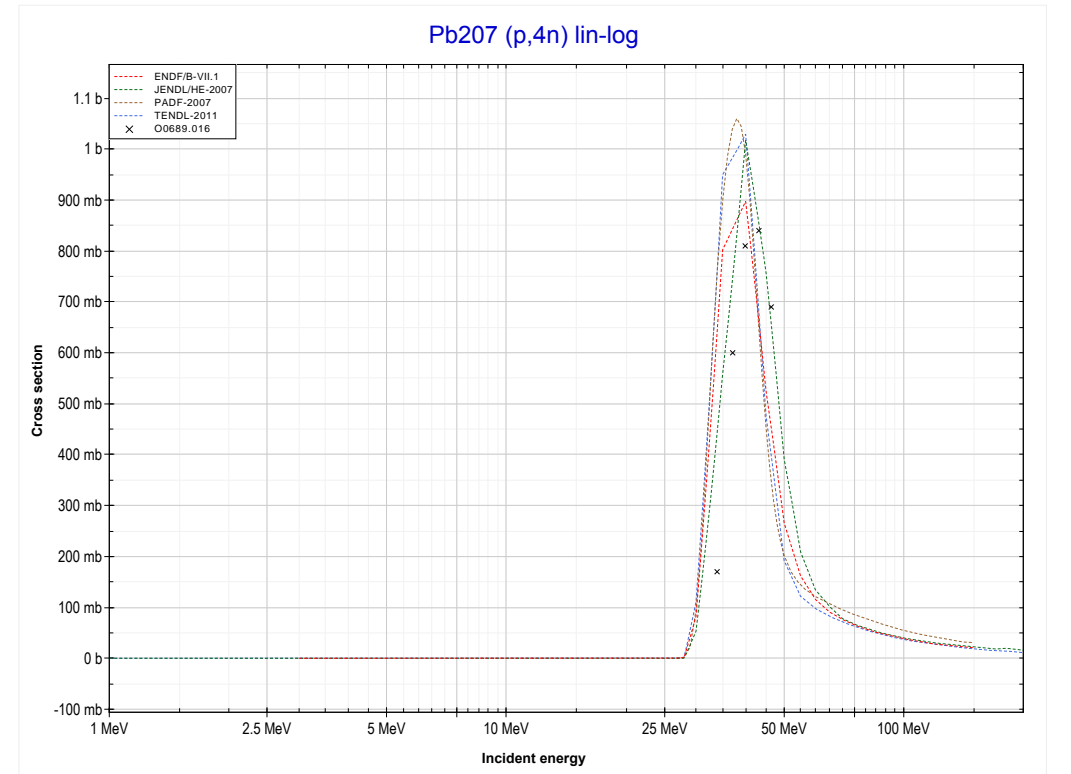
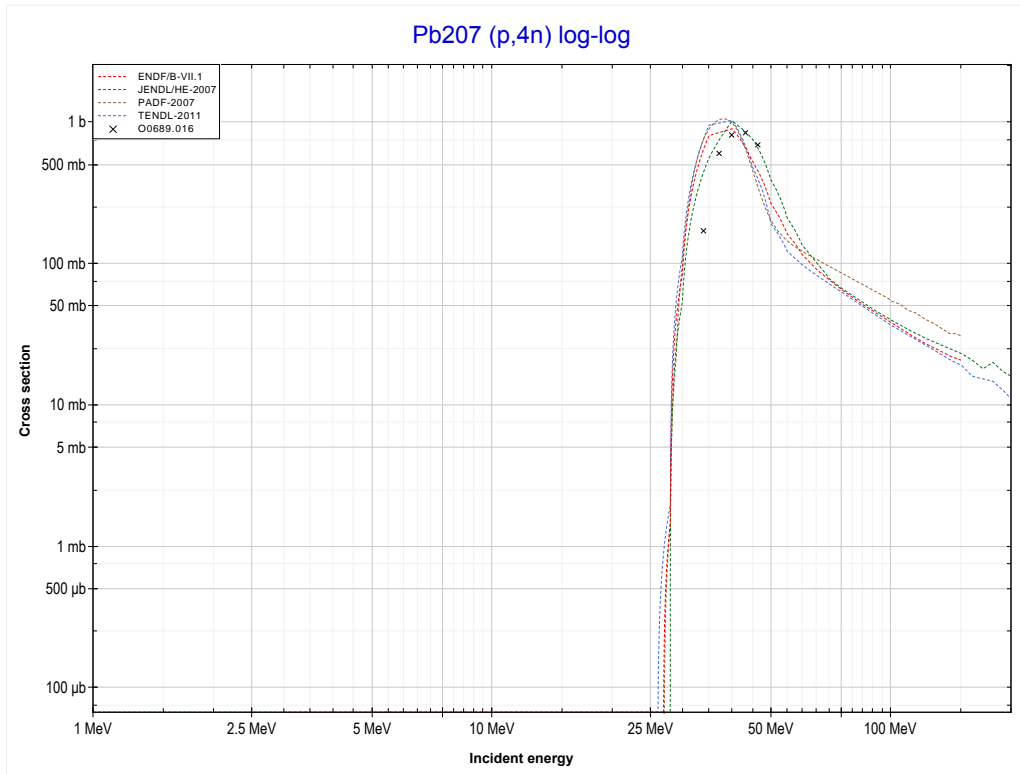


Reaction	Q-Value
Pb207(p,3n)Bi205	-18314.88 keV

<< 82-Pb-206	<b>82-Pb-207</b>	82-Pb-208 >>
<< MT17 (p,3n)	<b>MT18 (p,fission)</b>	MT37 (p,4n) >>

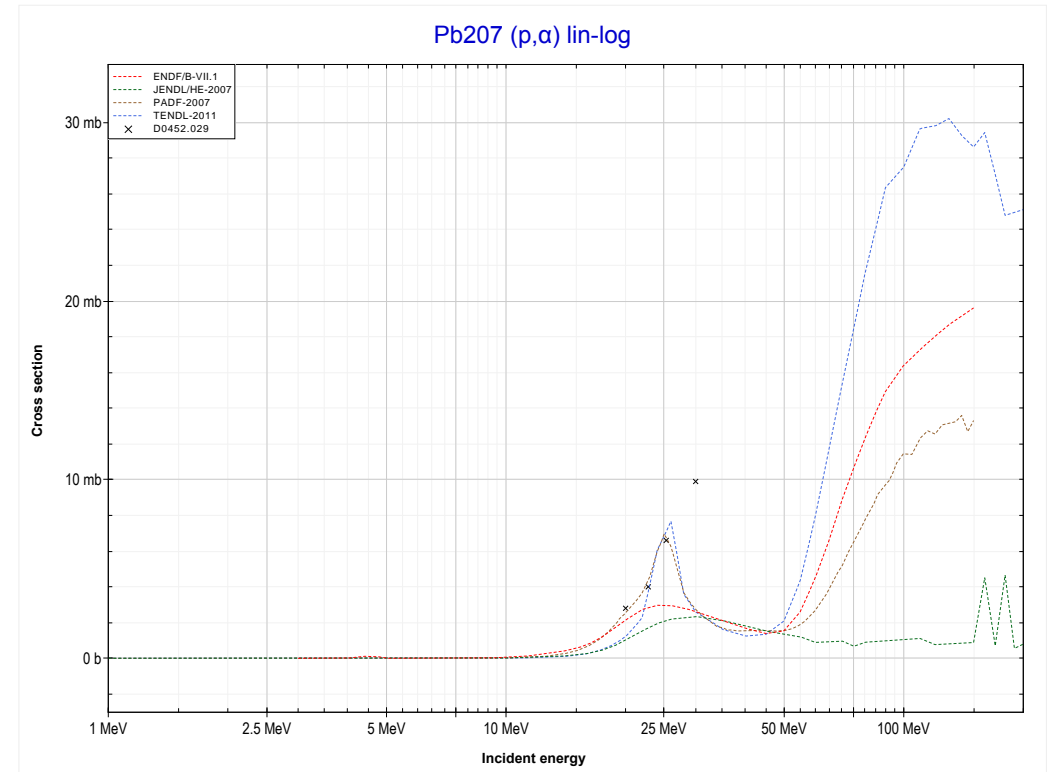
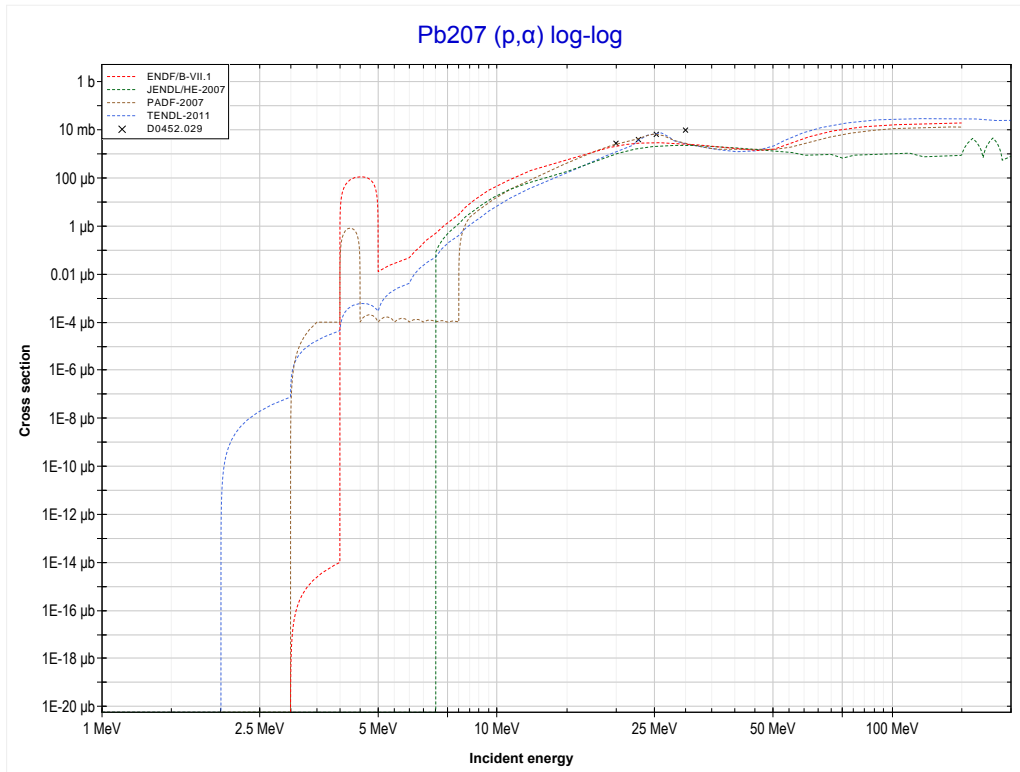


<< 81-Tl-205	<b>82-Pb-207</b>	82-Pb-208 >>
<< MT18 (p,fission)	<b>MT37 (p,4n) or MT5 (Bi204 production)</b>	MT107 (p, $\alpha$ ) >>



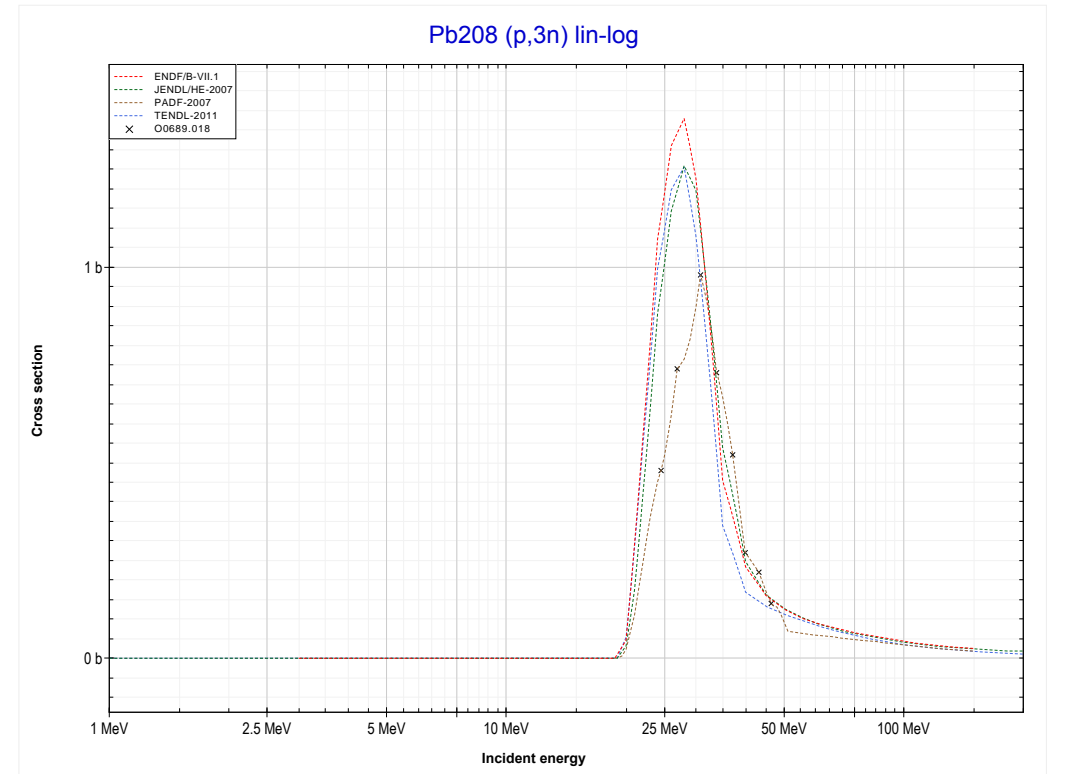
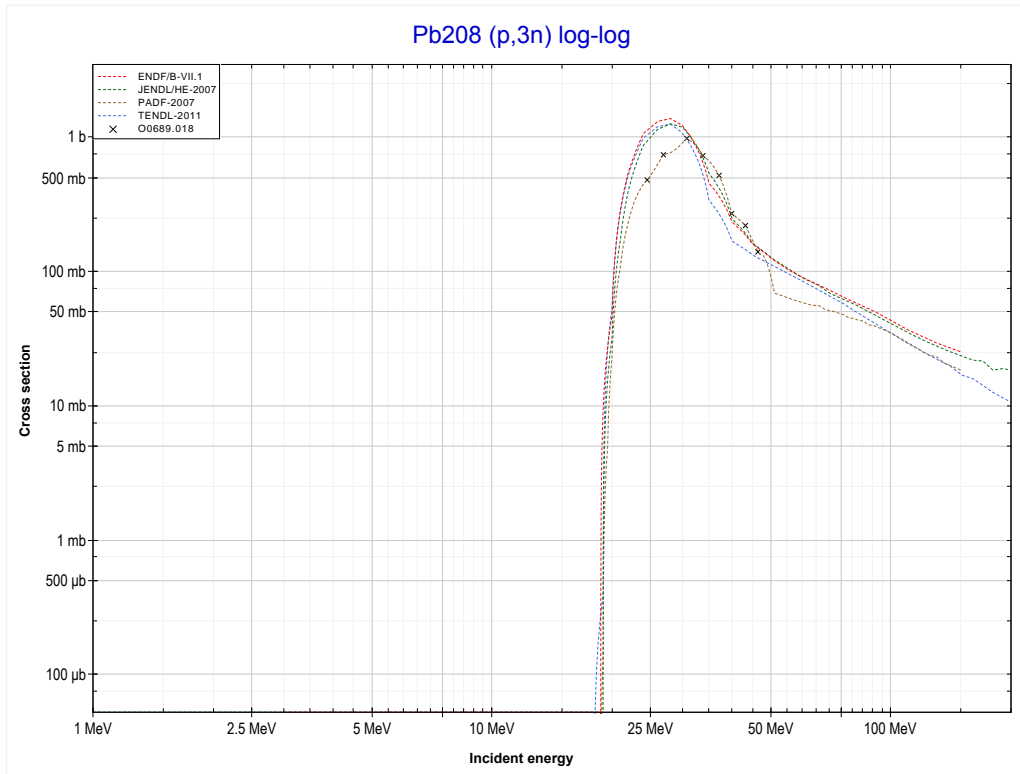
Reaction	Q-Value
Pb207(p,4n)Bi204	-26781.20 keV

<< 82-Pb-206	<b>82-Pb-207</b>	82-Pb-208 >>
<< MT37 (p,4n)	<b>MT107 (p,<math>\alpha</math>) or MT5 (TI204 production)</b>	MT17 (p,3n) >>



Reaction	Q-Value
Pb207(p, $\alpha$ )TI204	6758.15 keV
Pb207(p,p+t)TI204	-13055.71 keV
Pb207(p,n+He3)TI204	-13819.46 keV
Pb207(p,2d)TI204	-17088.37 keV
Pb207(p,n+p+d)TI204	-19312.94 keV
Pb207(p,2n+2p)TI204	-21537.50 keV

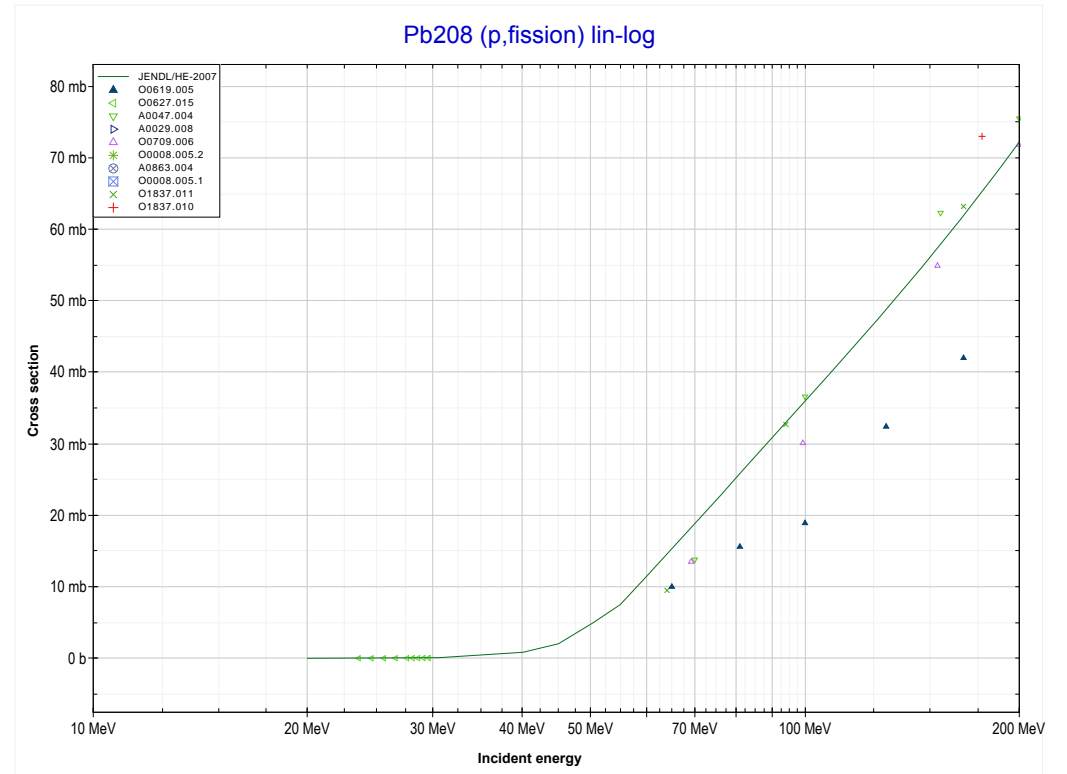
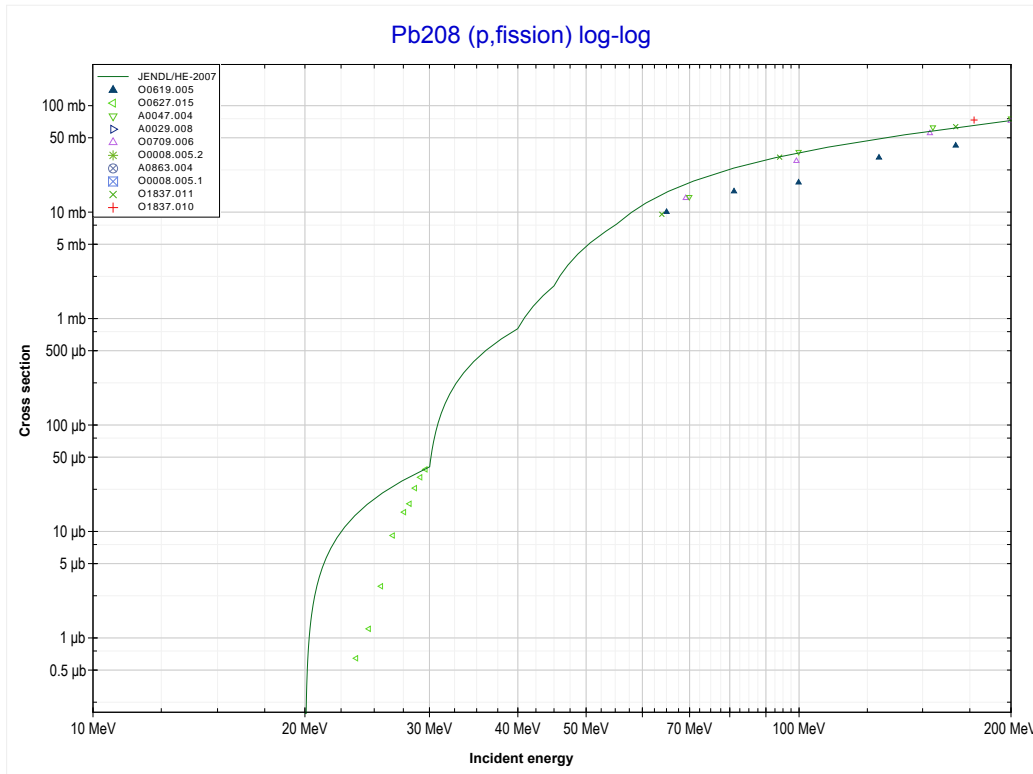
<< 82-Pb-207	<b>82-Pb-208</b>	83-Bi-209 >>
<< MT107 (p, $\alpha$ )	<b>MT17 (p,3n) or MT5 (Bi206 production)</b>	MT18 (p,fission) >>



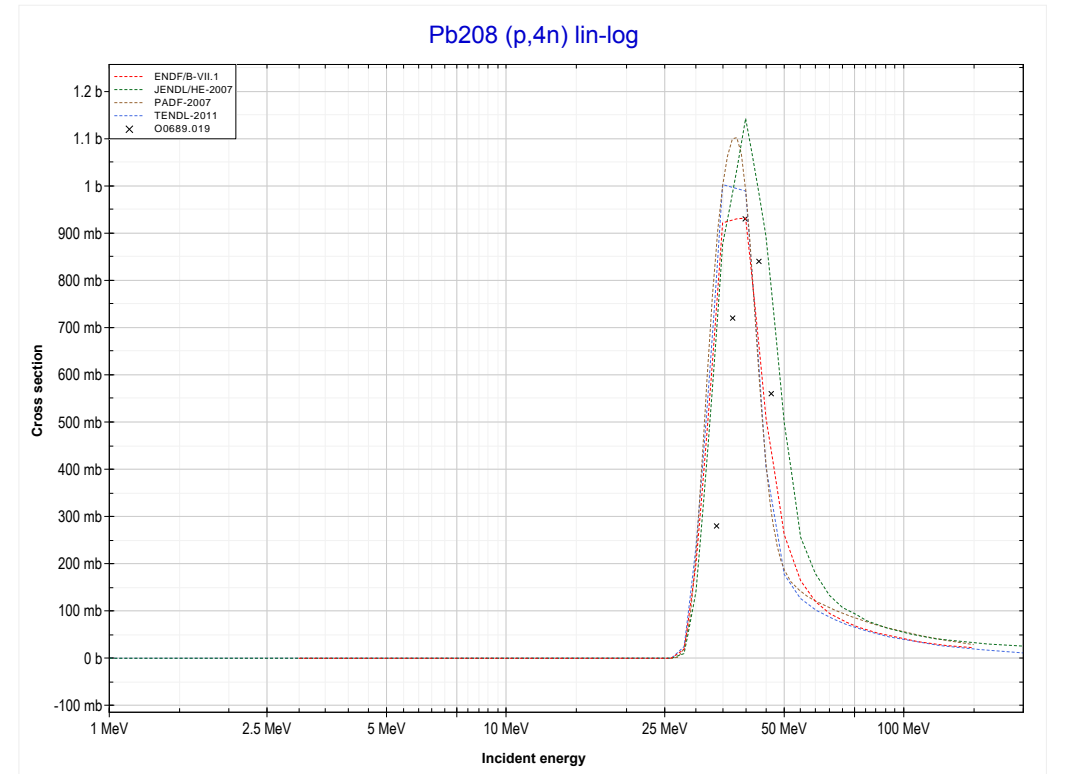
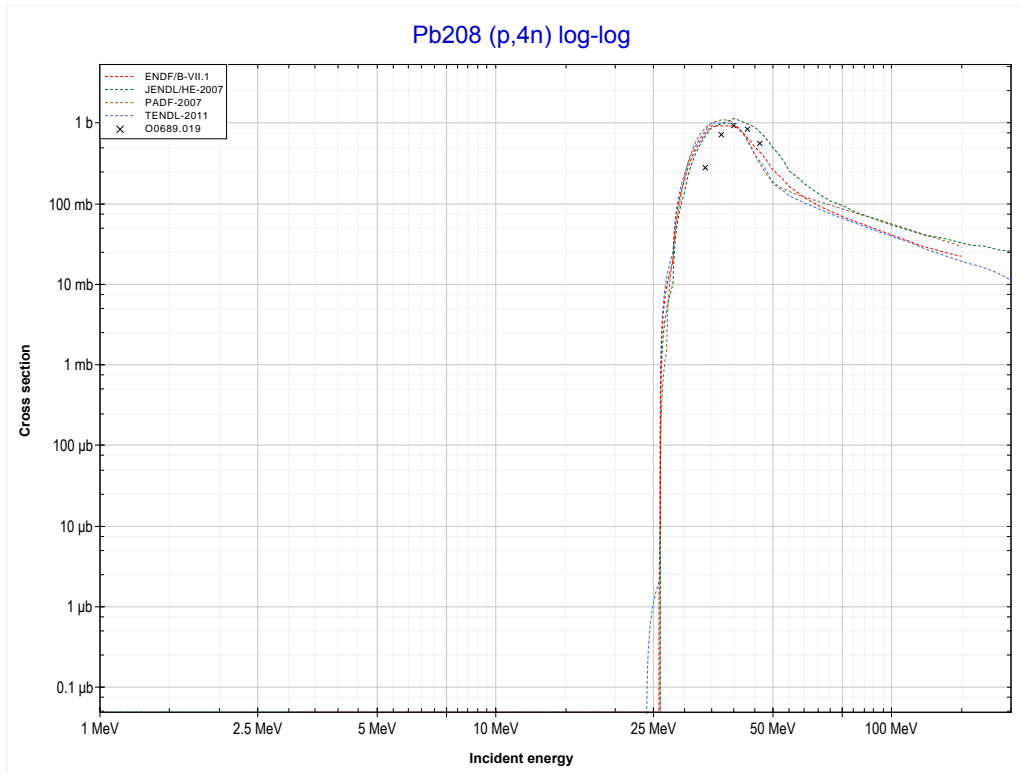
<b>Reaction</b>	<b>Q-Value</b>
Pb208(p,3n)Bi206	-18645.48 keV



<< 82-Pb-207	<b>82-Pb-208</b>	83-Bi-209 >>
<< MT17 (p,3n)	<b>MT18 (p,fission)</b>	MT37 (p,4n) >>

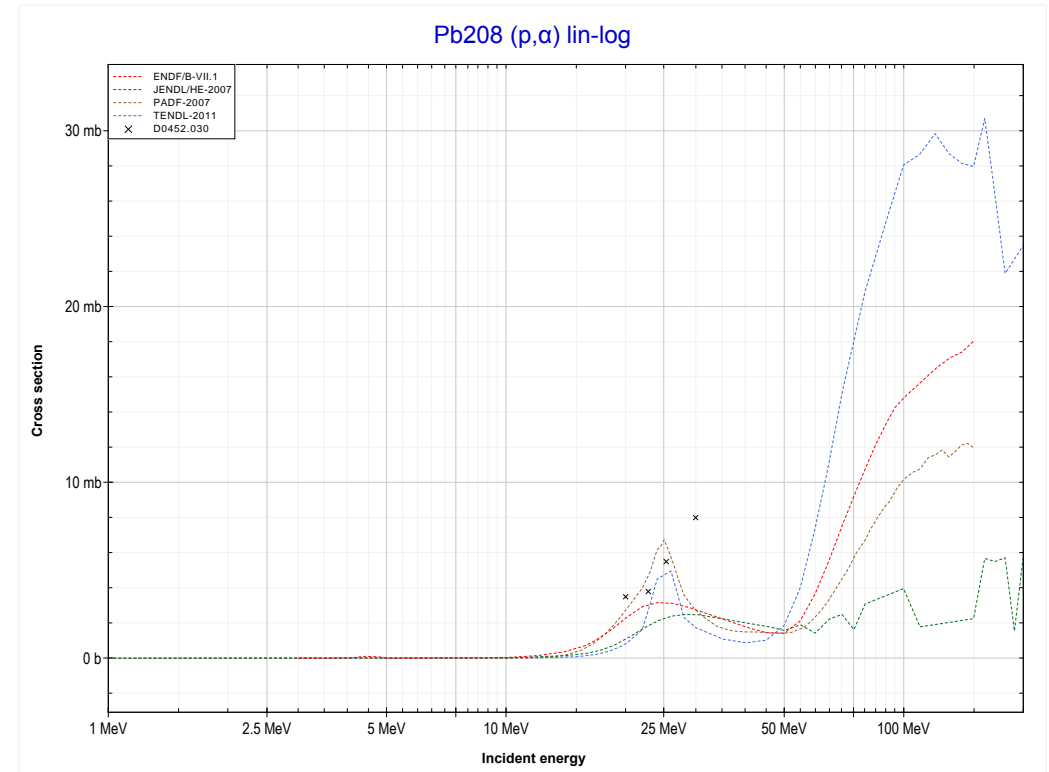
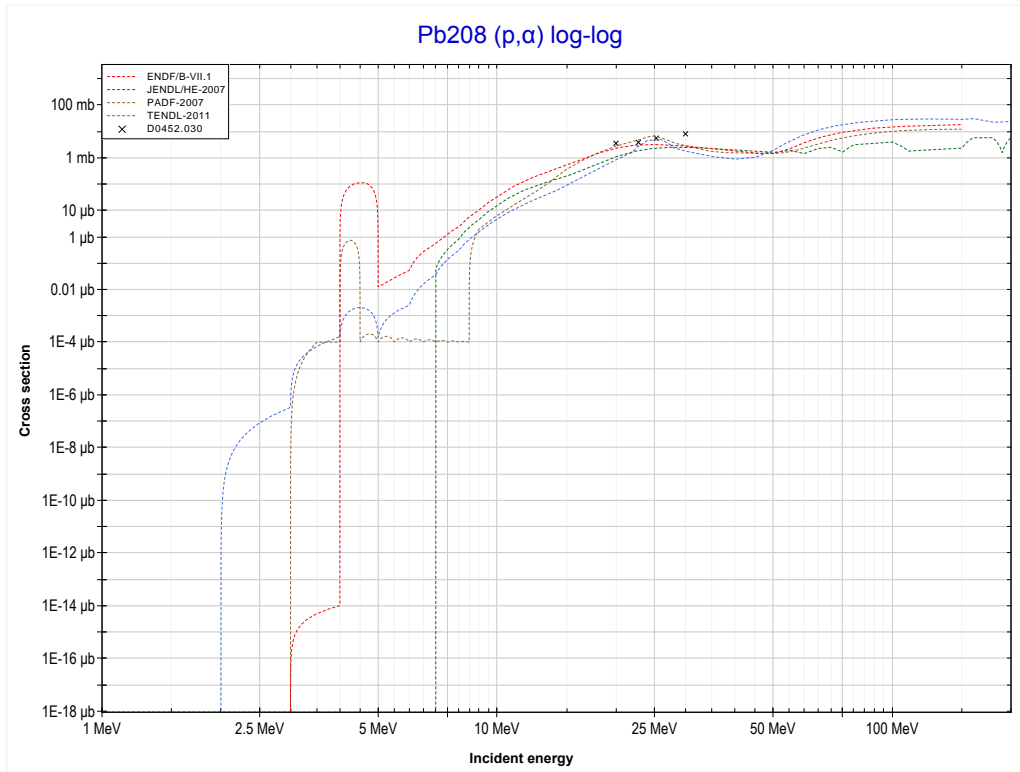


<< 82-Pb-207	<b>82-Pb-208</b>	83-Bi-209 >>
<< MT18 (p,fission)	<b>MT37 (p,4n) or MT5 (Bi205 production)</b>	MT107 (p, $\alpha$ ) >>



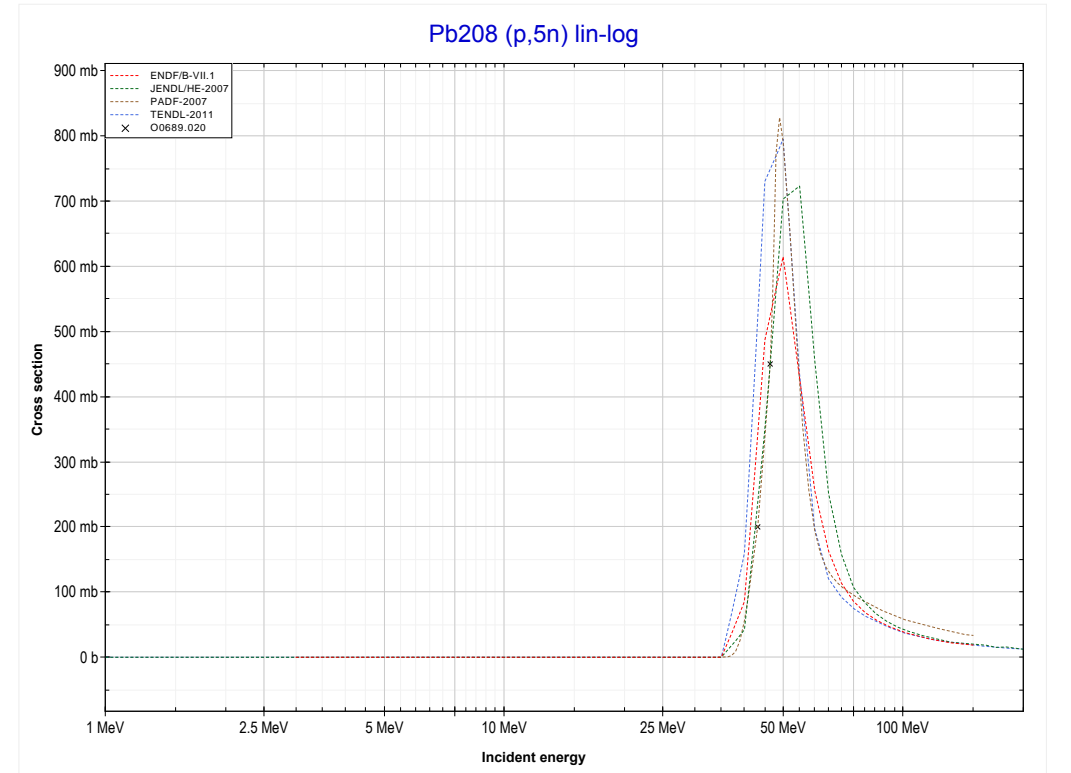
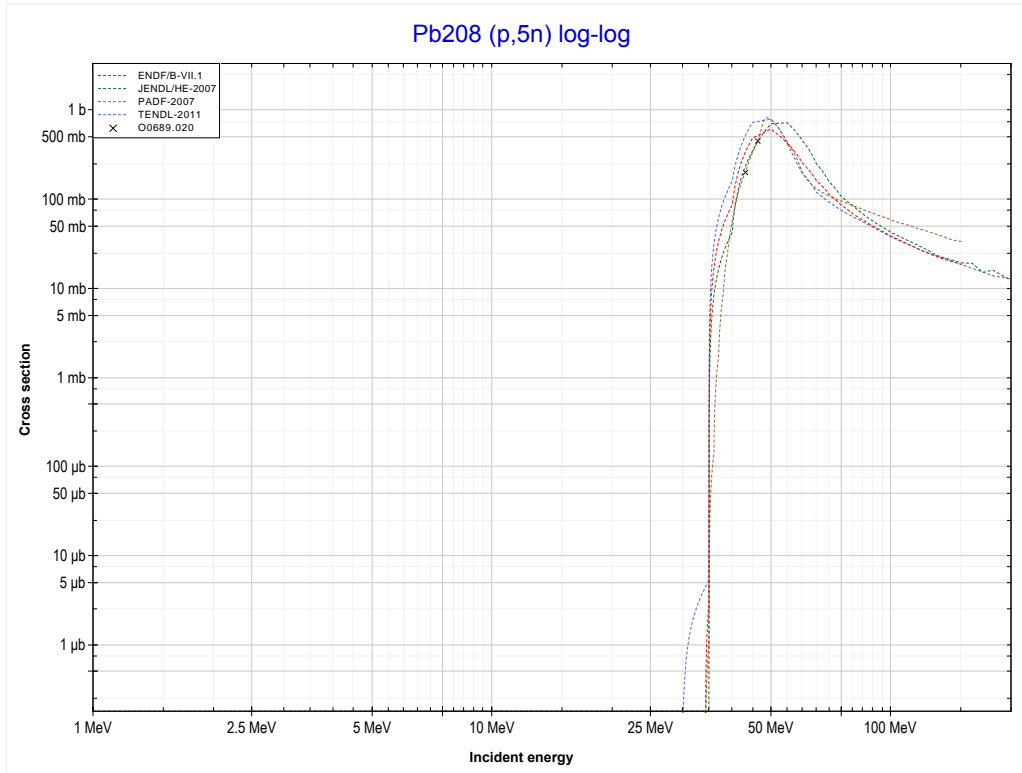
Reaction	Q-Value
Pb208(p,4n)Bi205	-25682.80 keV

<< 82-Pb-207	<b>82-Pb-208</b>	83-Bi-209 >>
<< MT37 (p,4n)	<b>MT107 (p,<math>\alpha</math>) or MT5 (TI205 production)</b>	MT152 (p,5n) >>



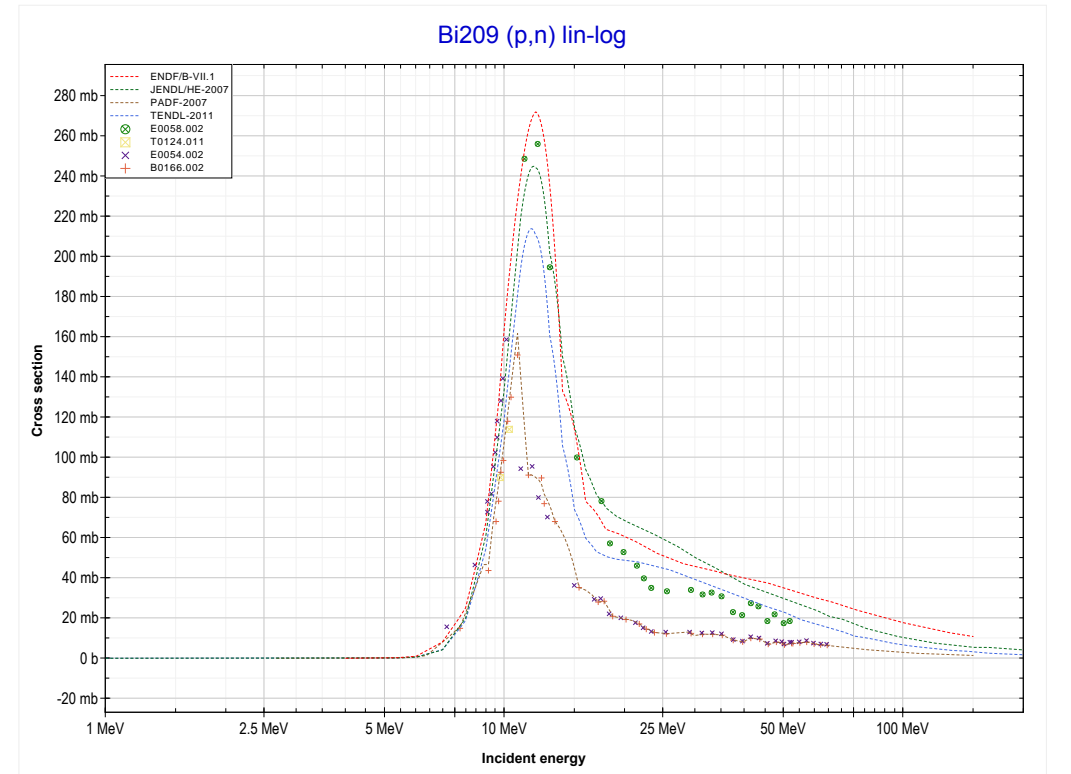
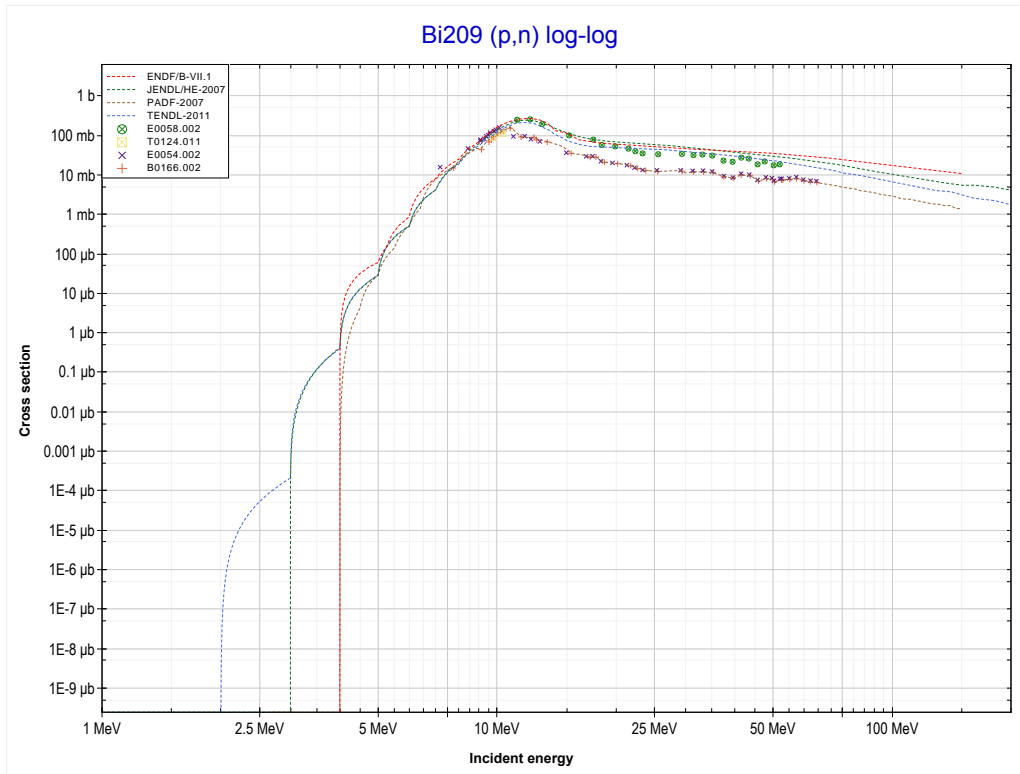
Reaction	Q-Value
Pb208(p, $\alpha$ )TI205	6936.15 keV
Pb208(p,p+t)TI205	-12877.71 keV
Pb208(p,n+He3)TI205	-13641.46 keV
Pb208(p,2d)TI205	-16910.37 keV
Pb208(p,n+p+d)TI205	-19134.94 keV
Pb208(p,2n+2p)TI205	-21359.50 keV

<< 82-Pb-206	<b>82-Pb-208</b>	83-Bi-209 >>
<< MT107 (p, $\alpha$ )	<b>MT152 (p,5n) or MT5 (Bi204 production)</b>	MT4 (p,n) >>



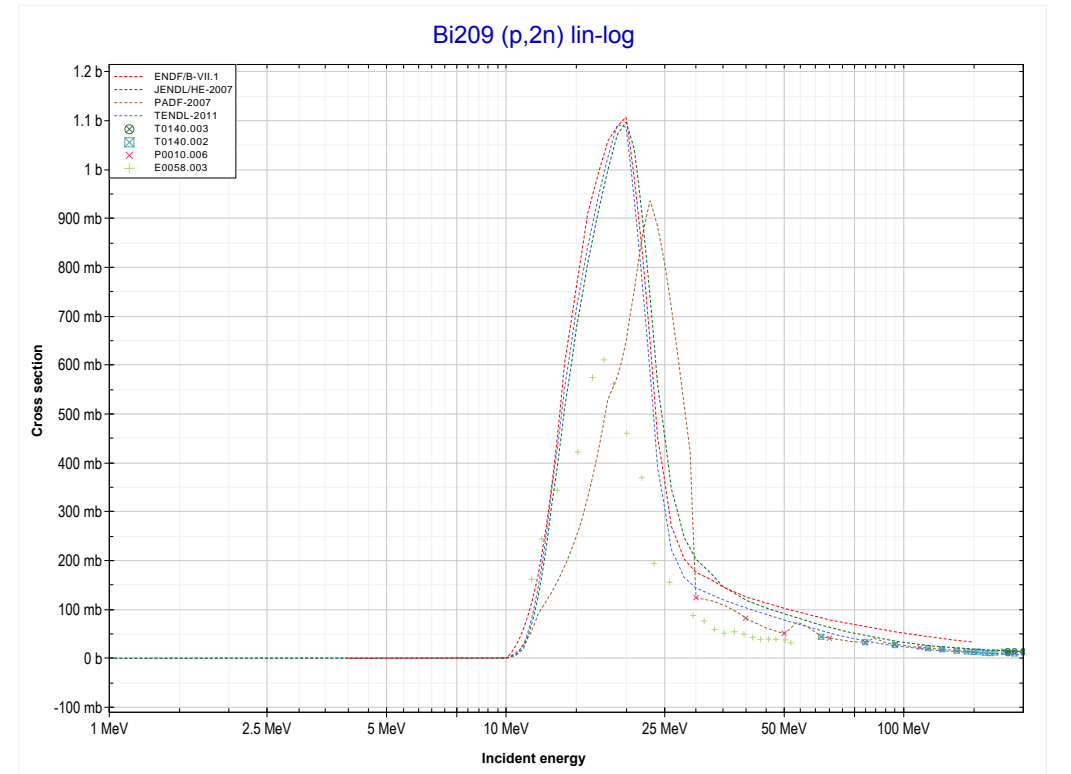
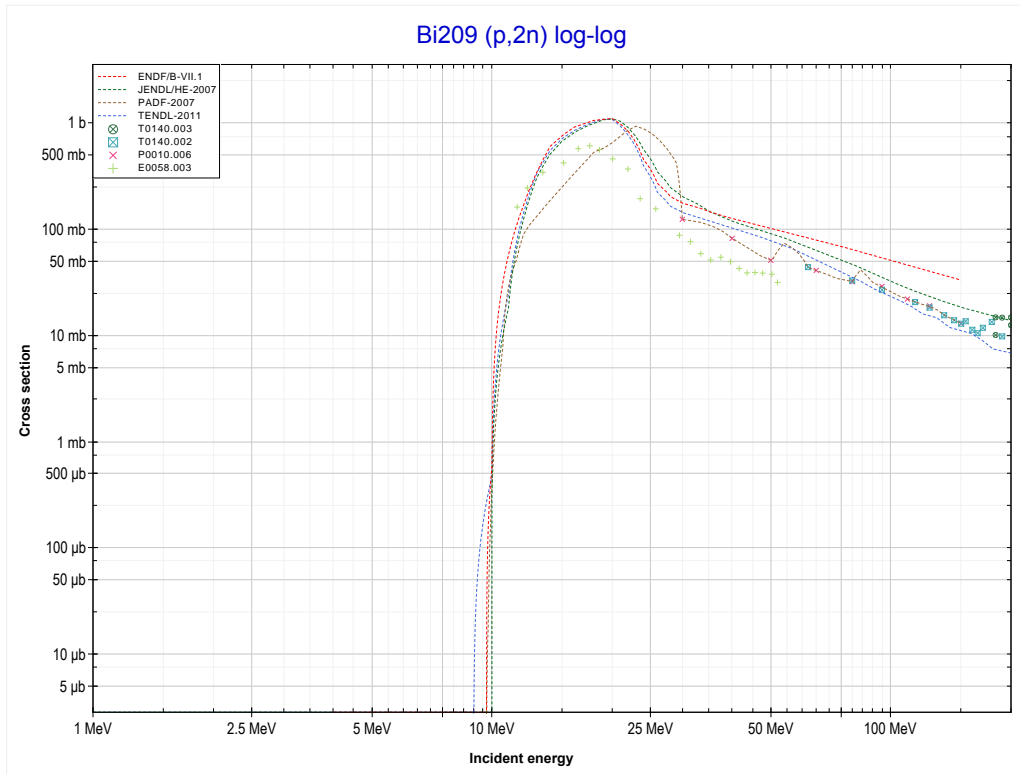
Reaction	Q-Value
Pb208(p,5n)Bi204	-34149.11 keV

<< 82-Pb-206	<b>83-Bi-209</b>	90-Th-232 >>
<< MT152 (p,5n)	<b>MT4 (p,n) or MT5 (Po209 production)</b>	MT16 (p,2n) >>



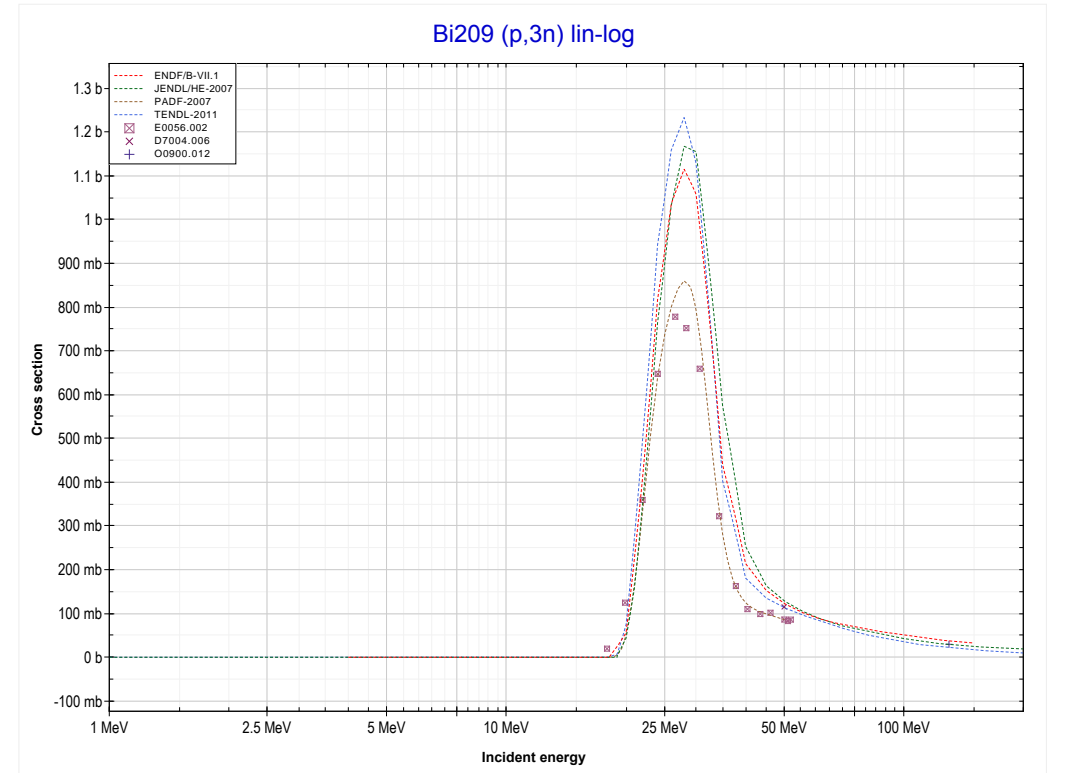
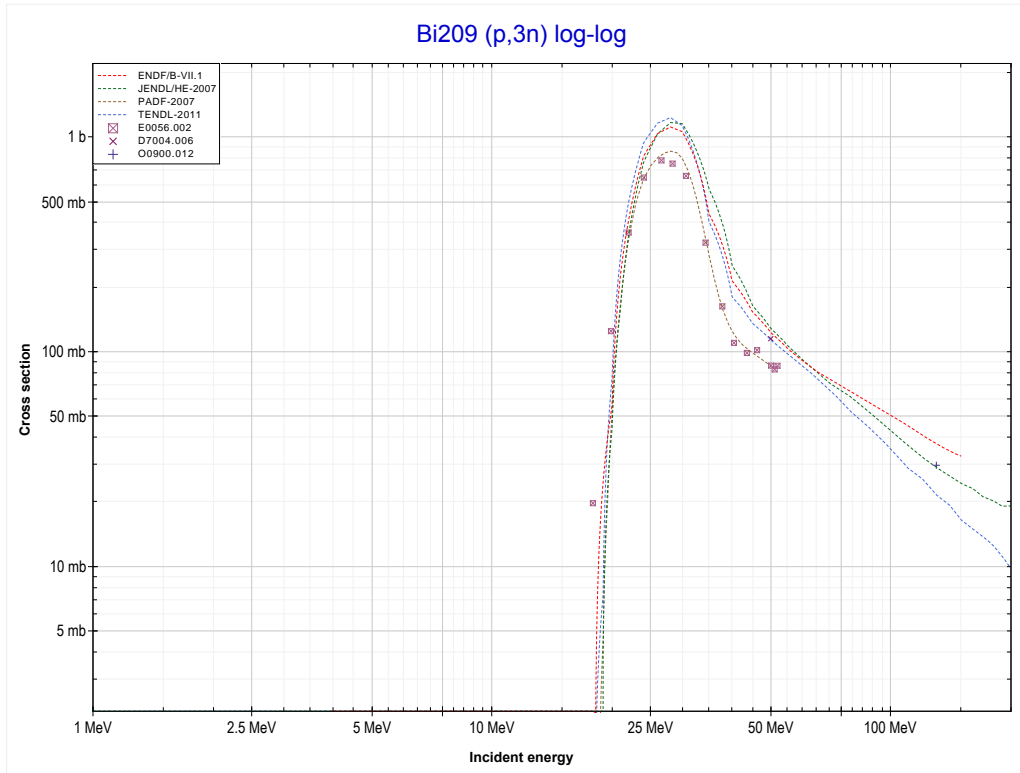
Reaction	Q-Value
Bi209(p,n)Po209	-2674.95 keV

<< 82-Pb-207	<b>83-Bi-209</b>	88-Ra-226 >>
<< MT4 (p,n)	<b>MT16 (p,2n) or MT5 (Po208 production)</b>	MT17 (p,3n) >>



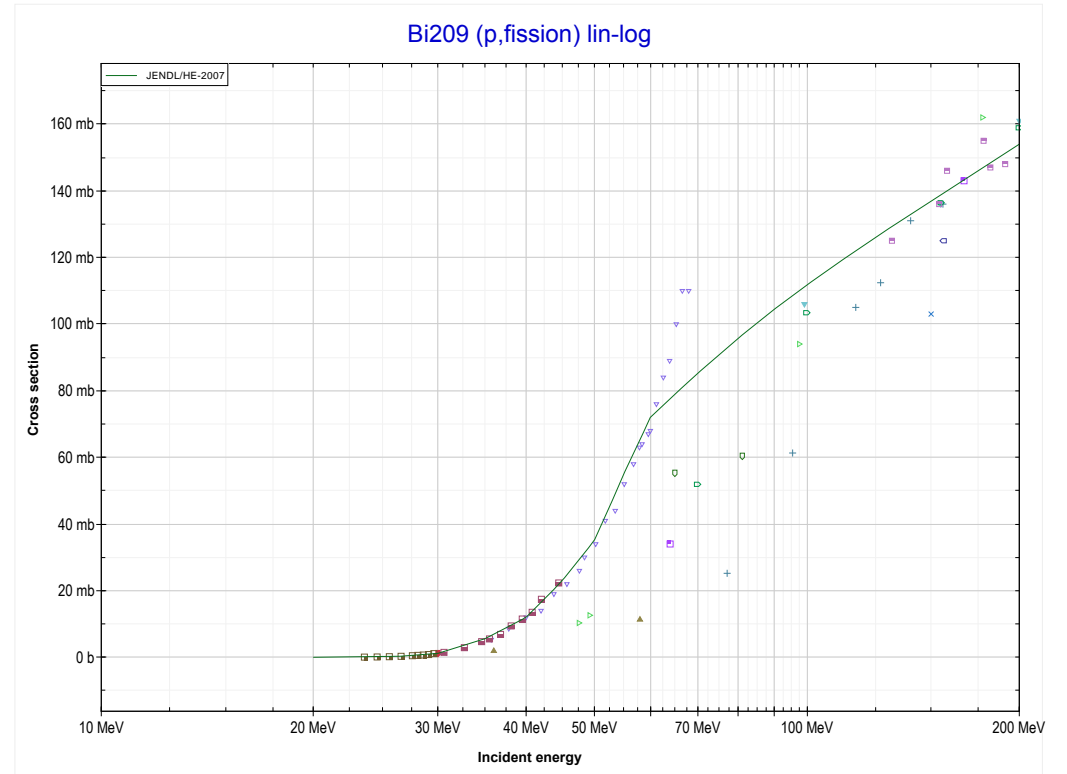
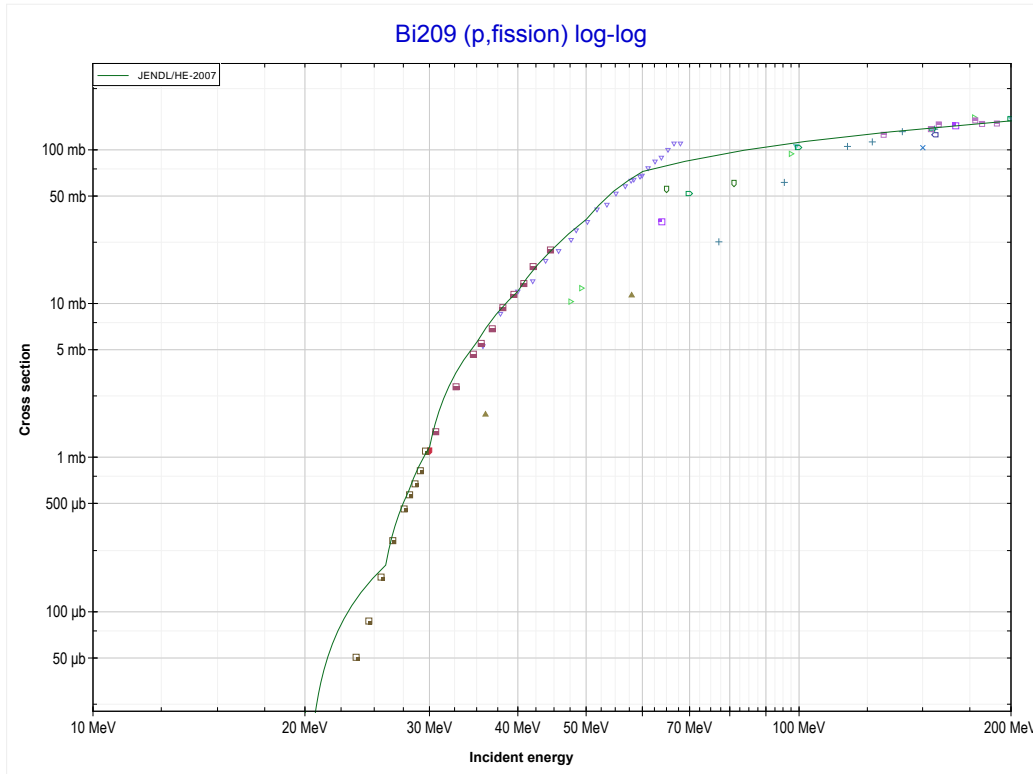
Reaction	Q-Value
Bi209(p,2n)Po208	-9642.66 keV

<< 82-Pb-208	<b>83-Bi-209</b>	90-Th-232 >>
<< MT16 (p,2n)	<b>MT17 (p,3n) or MT5 (Po207 production)</b>	MT18 (p,fission) >>



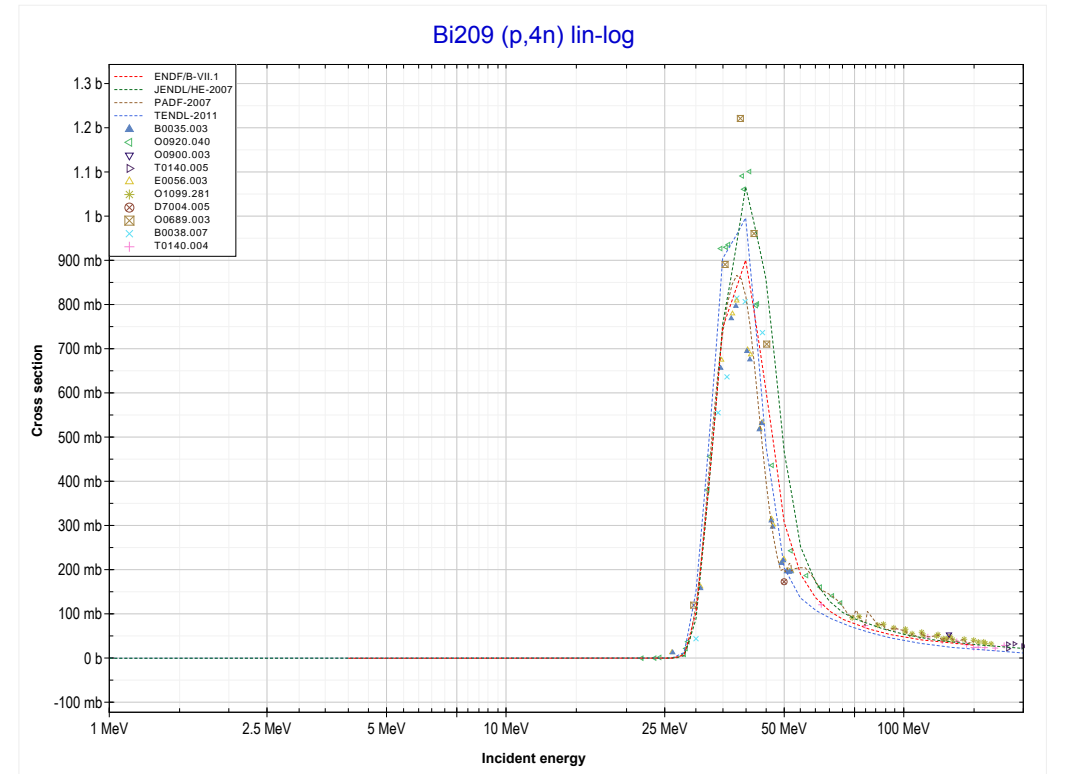
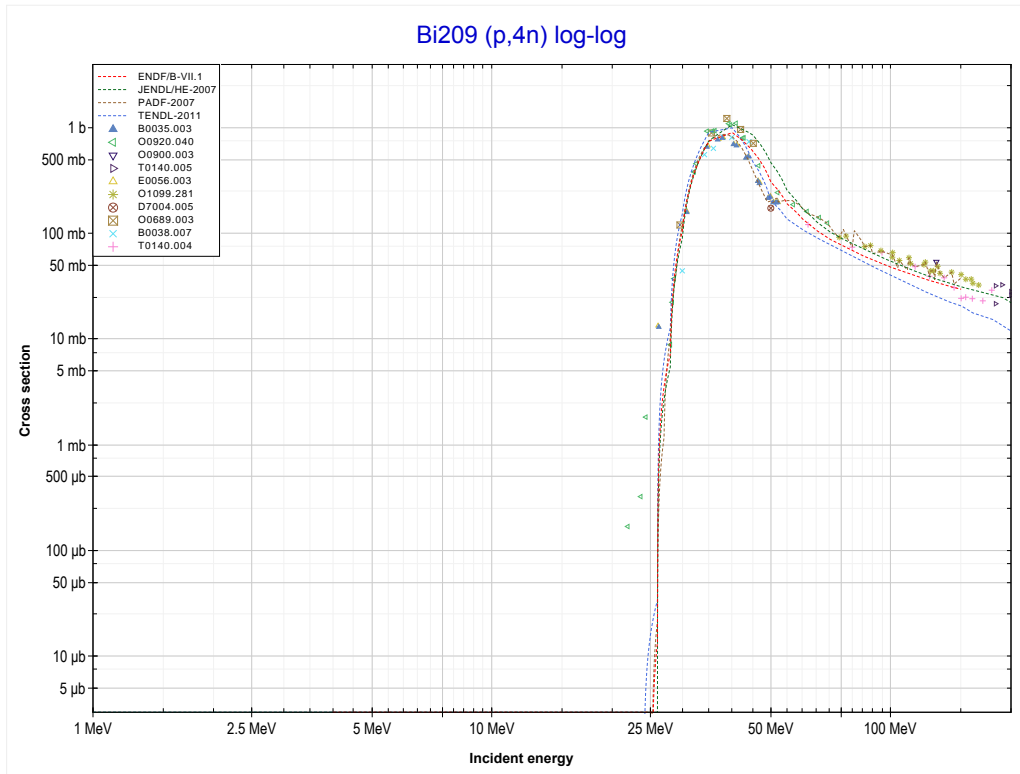
Reaction	Q-Value
Bi209(p,3n)Po207	-18037.48 keV

<< 82-Pb-208	<b>83-Bi-209</b>	92-U-235 >>
<< MT17 (p,3n)	<b>MT18 (p,fission)</b>	MT37 (p,4n) >>



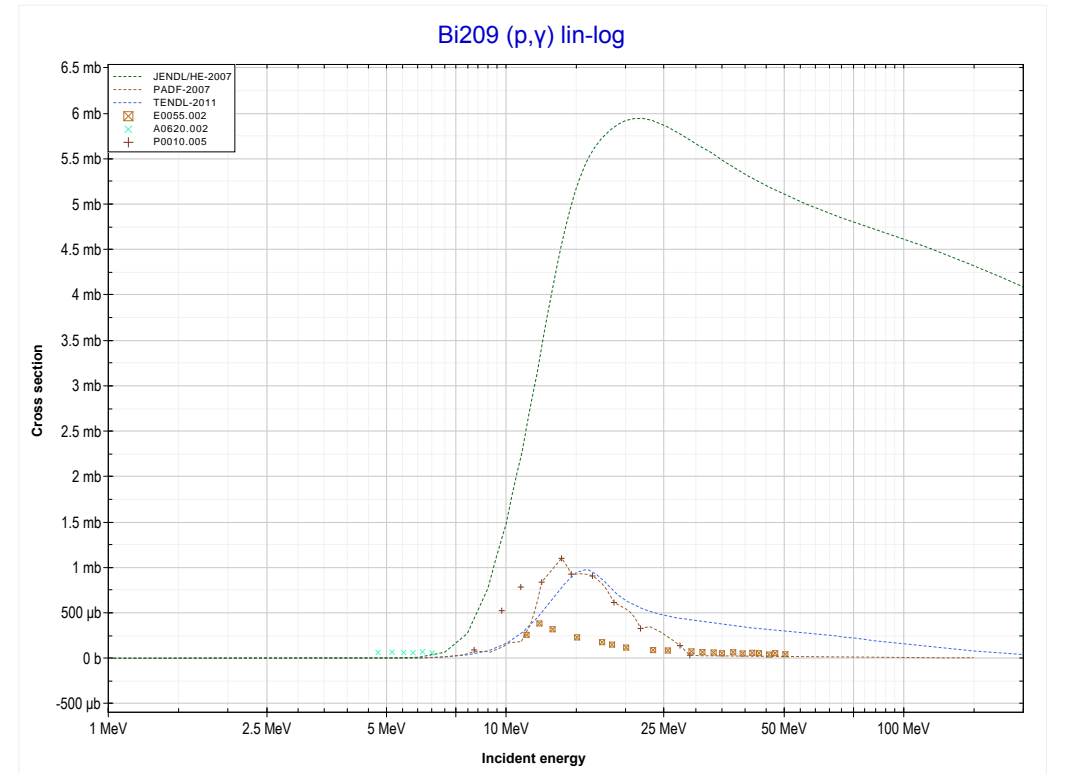
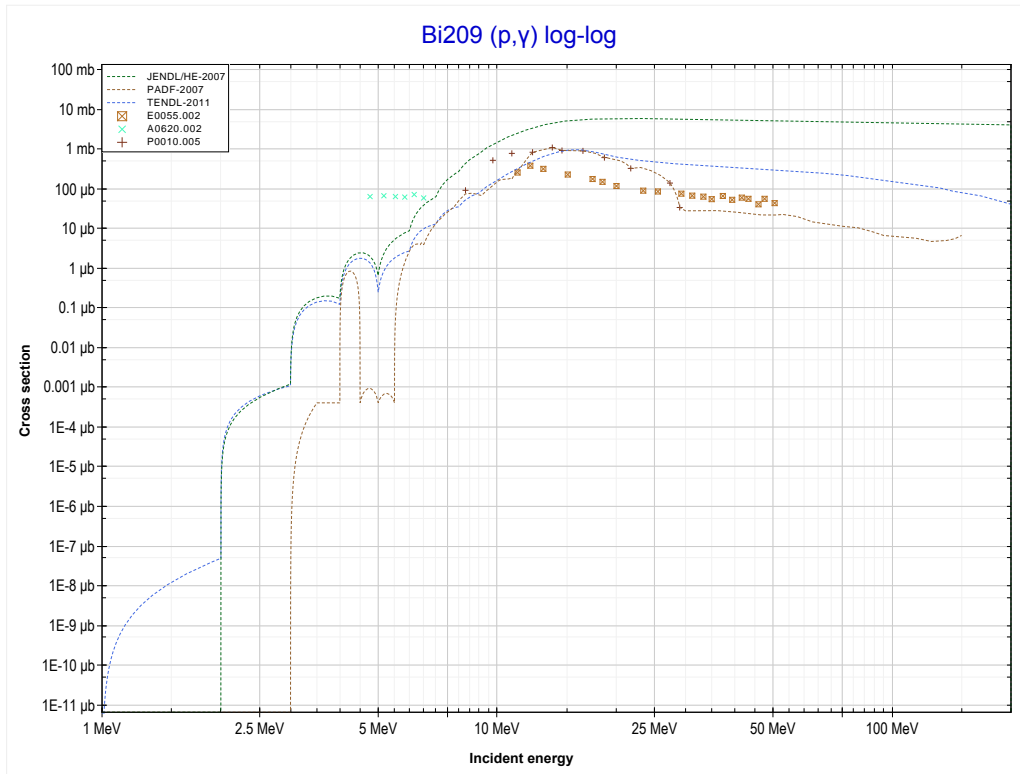


<< 82-Pb-208	<b>83-Bi-209</b>	90-Th-232 >>
<< MT18 (p,fission)	<b>MT37 (p,4n) or MT5 (Po206 production)</b>	MT102 (p, $\gamma$ ) >>



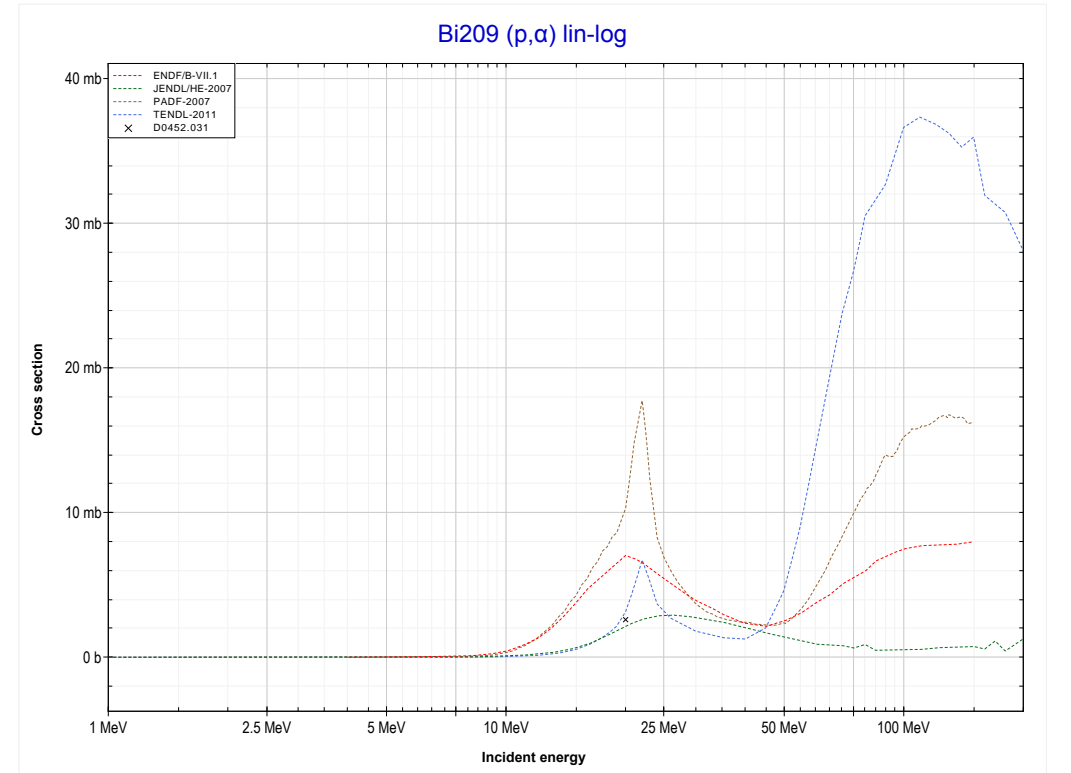
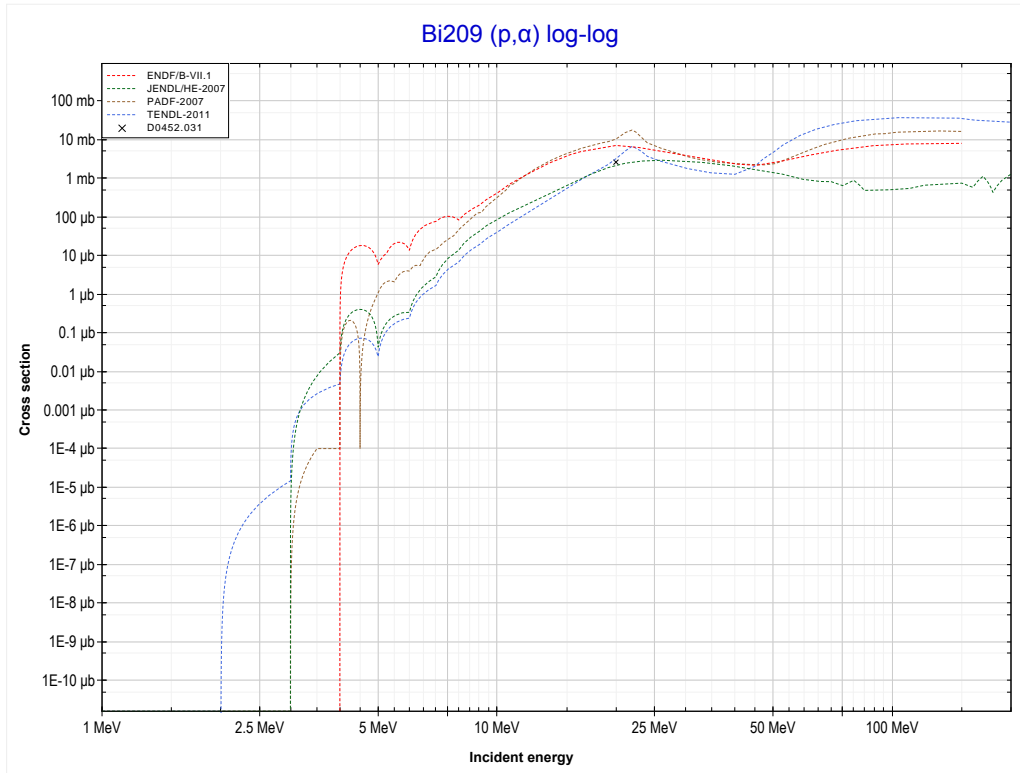
Reaction	Q-Value
Bi209(p,4n)Po206	-25072.80 keV

<< 62-Sm-149	<b>83-Bi-209</b>	90-Th-232 >>
<< MT37 (p,4n)	<b>MT102 (p,<math>\gamma</math>) or MT5 (Po210 production)</b>	MT107 (p, $\alpha$ ) >>



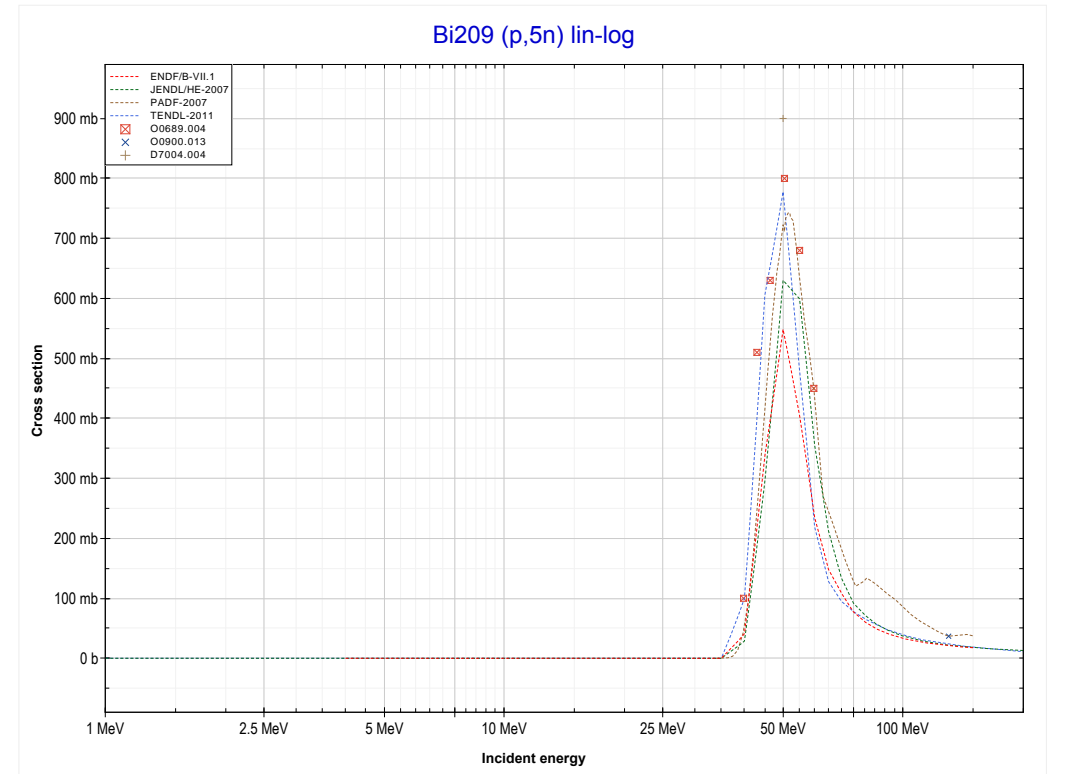
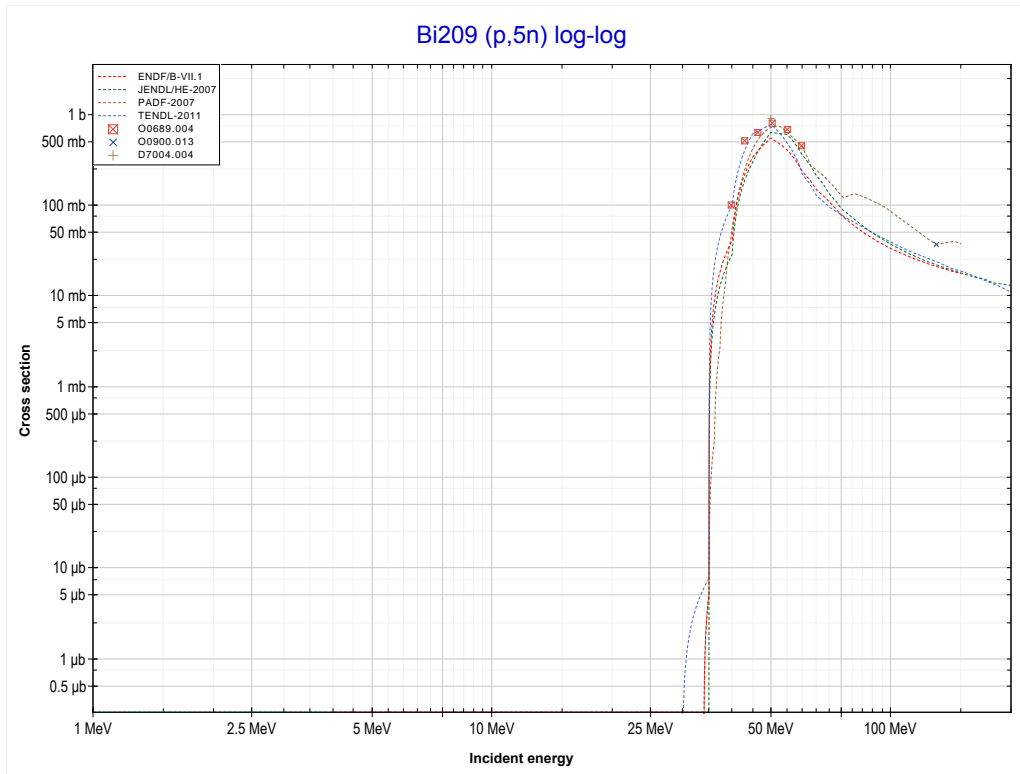
Reaction	Q-Value
Bi209(p, $\gamma$ )Po210	4983.57 keV

<< 82-Pb-208	<b>83-Bi-209</b>	90-Th-232 >>
<< MT102 (p, $\gamma$ )	<b>MT107 (p,<math>\alpha</math>) or MT5 (Pb206 production)</b>	MT152 (p,5n) >>



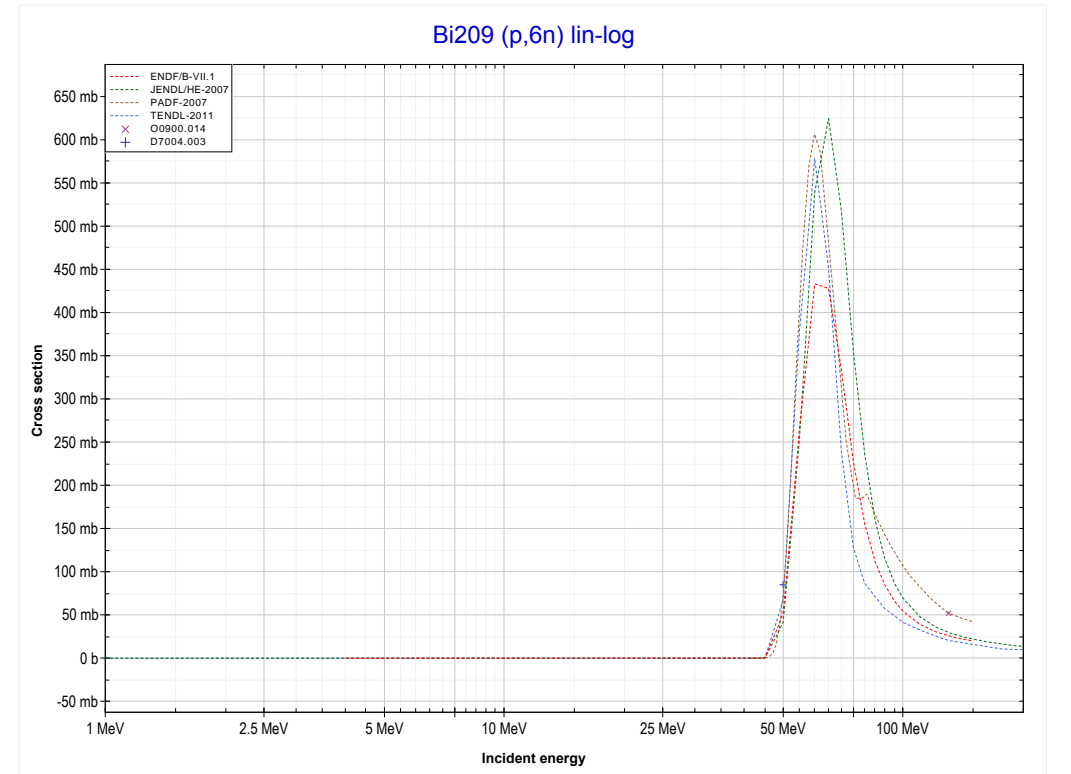
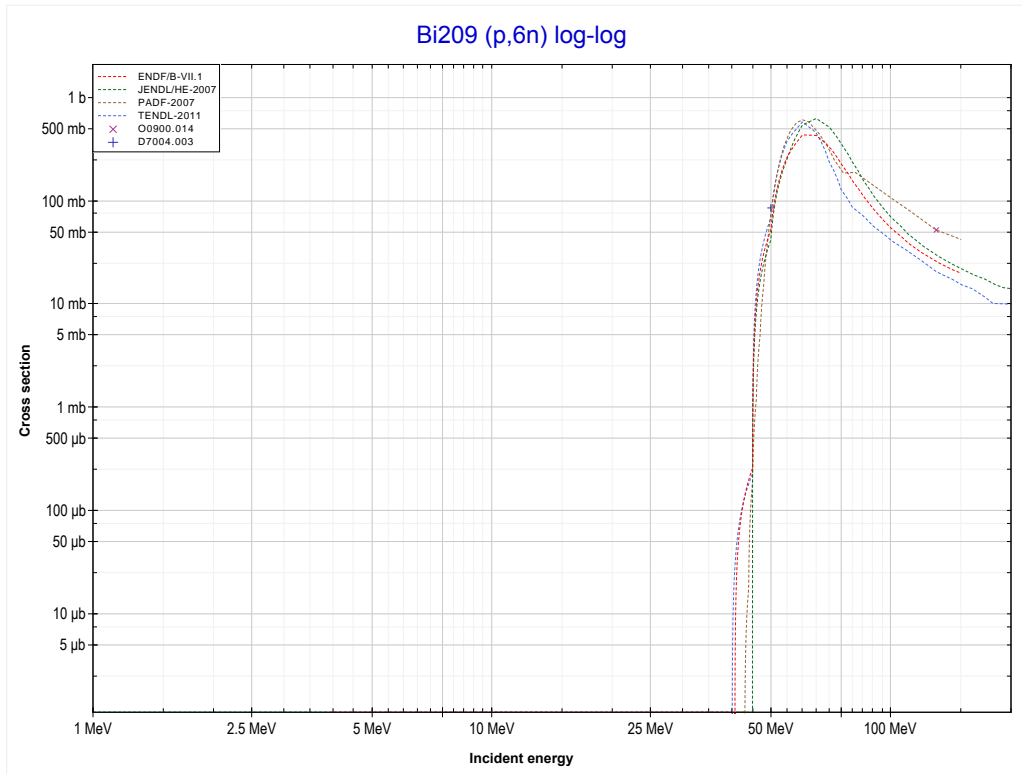
Reaction	Q-Value
Bi209(p, $\alpha$ )Pb206	10390.95 keV
Bi209(p,p+t)Pb206	-9422.91 keV
Bi209(p,n+He3)Pb206	-10186.66 keV
Bi209(p,2d)Pb206	-13455.57 keV
Bi209(p,n+p+d)Pb206	-15680.14 keV
Bi209(p,2n+2p)Pb206	-17904.70 keV

<< 82-Pb-208	<b>83-Bi-209</b>	90-Th-232 >>
<< MT107 (p, $\alpha$ )	<b>MT152 (p,5n) or MT5 (Po205 production)</b>	MT153 (p,6n) >>



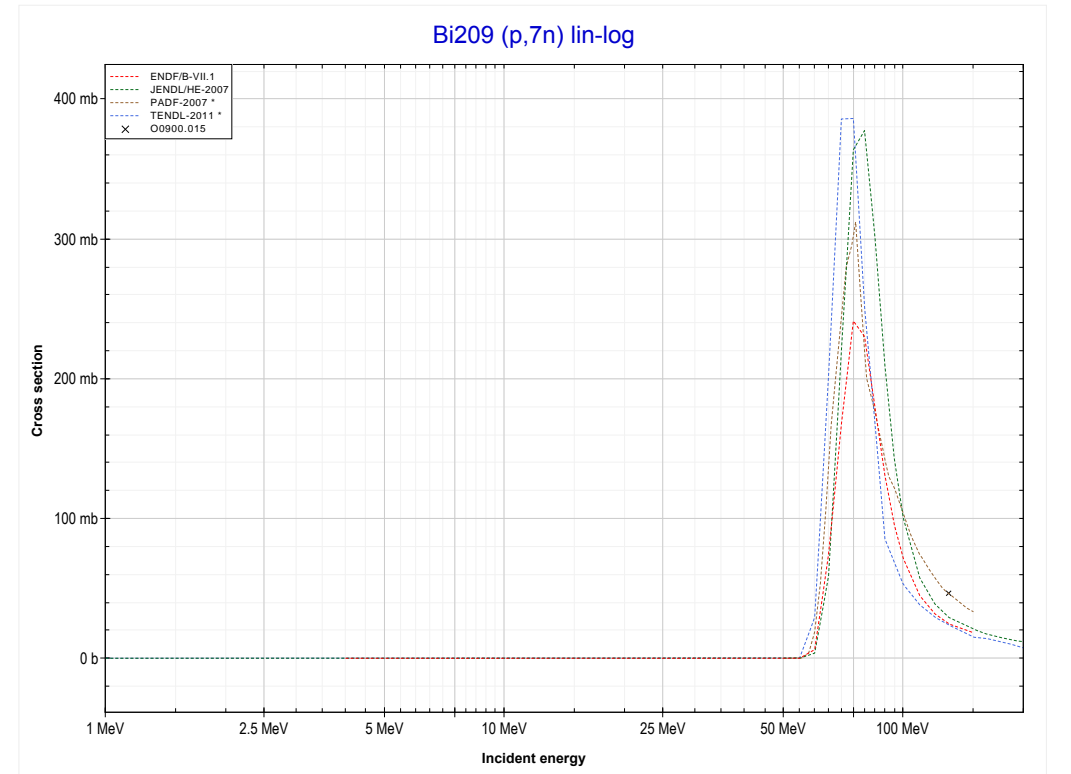
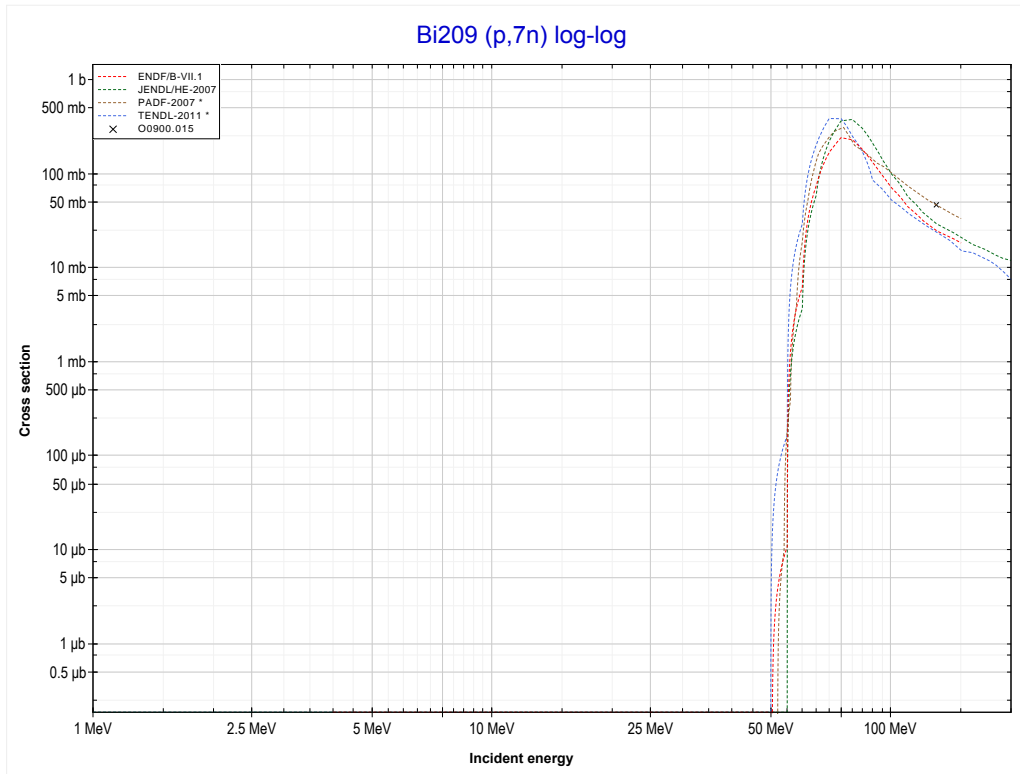
Reaction	Q-Value
Bi209(p,5n)Po205	-33817.11 keV

<< 76-Os-192	<b>83-Bi-209</b>	90-Th-232 >>
<< MT152 (p,5n)	<b>MT153 (p,6n) or MT5 (Po204 production)</b>	MT160 (p,7n) >>



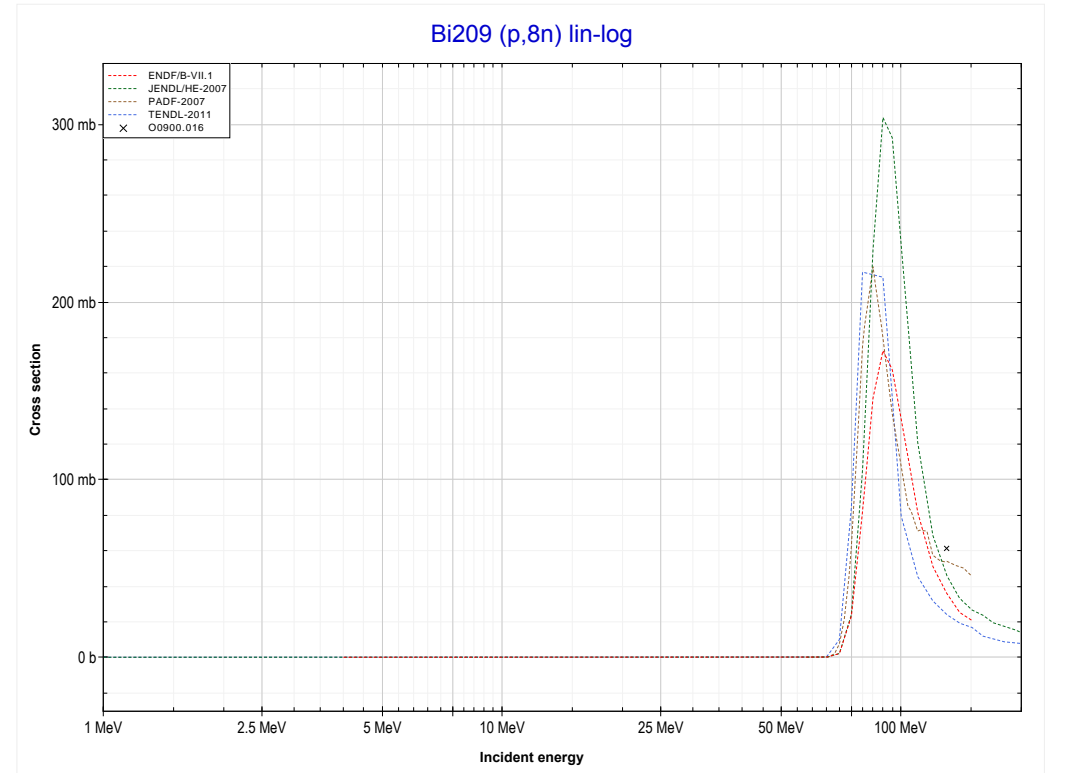
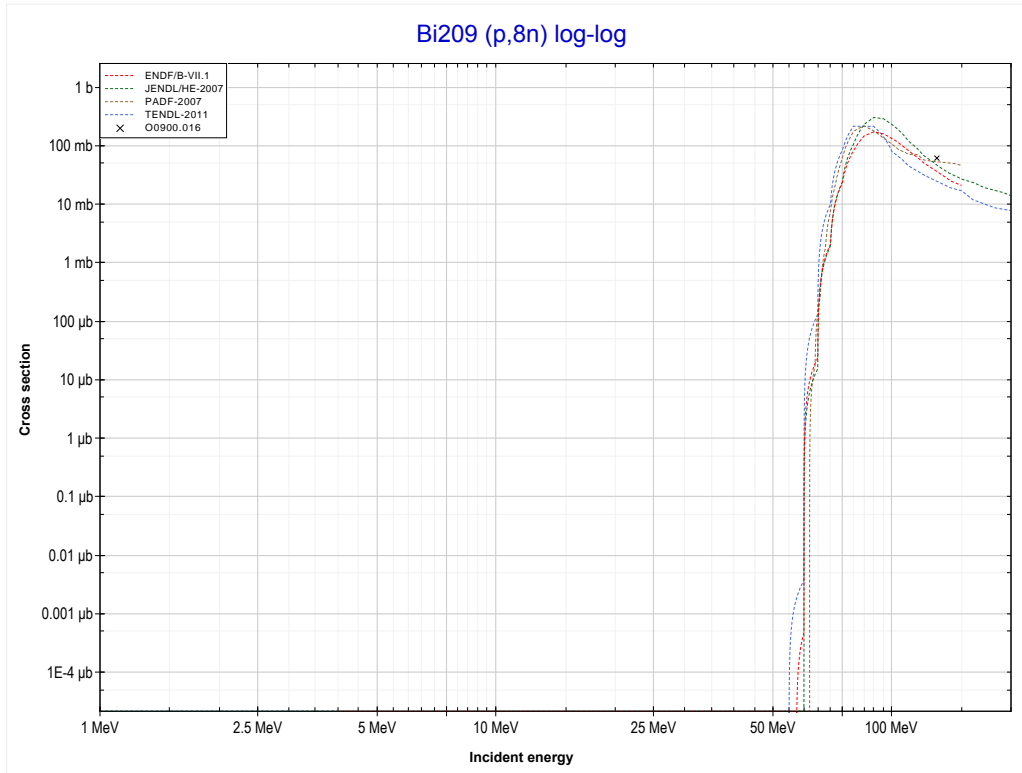
Reaction	Q-Value
Bi209(p,6n)Po204	-41063.43 keV

<< 82-Pb-206	<b>83-Bi-209</b>	90-Th-232 >>
<< MT153 (p,6n)	<b>MT160 (p,7n) or MT5 (Po203 production)</b>	MT161 (p,8n) >>



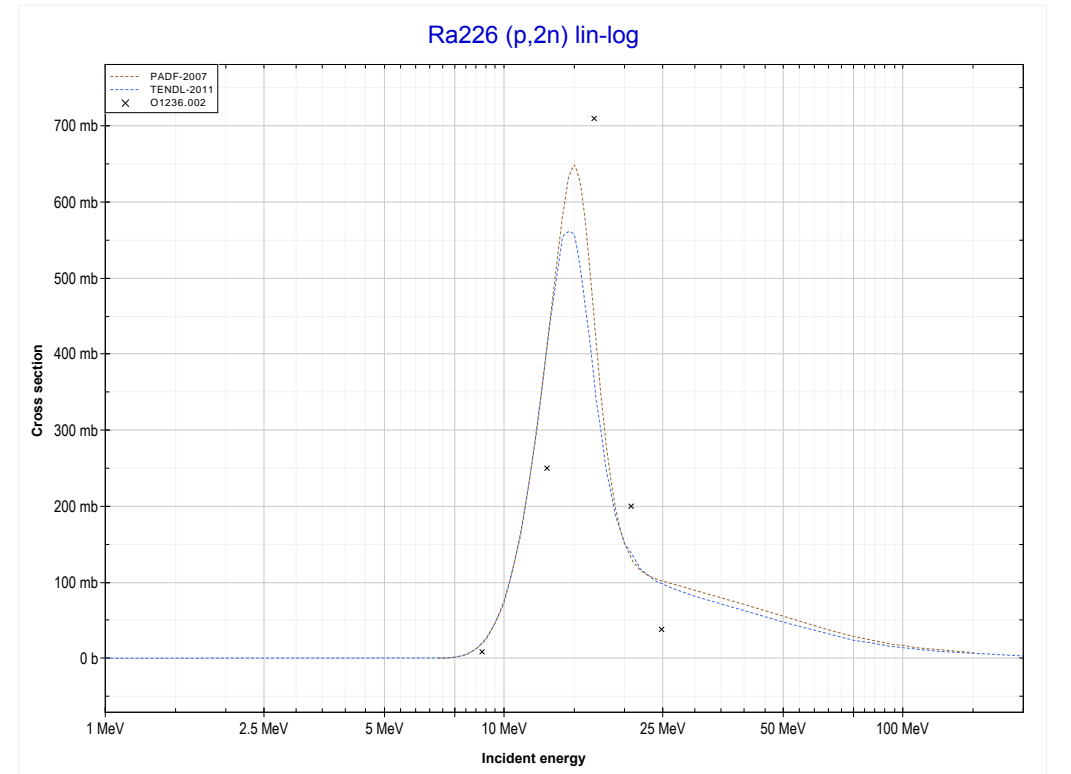
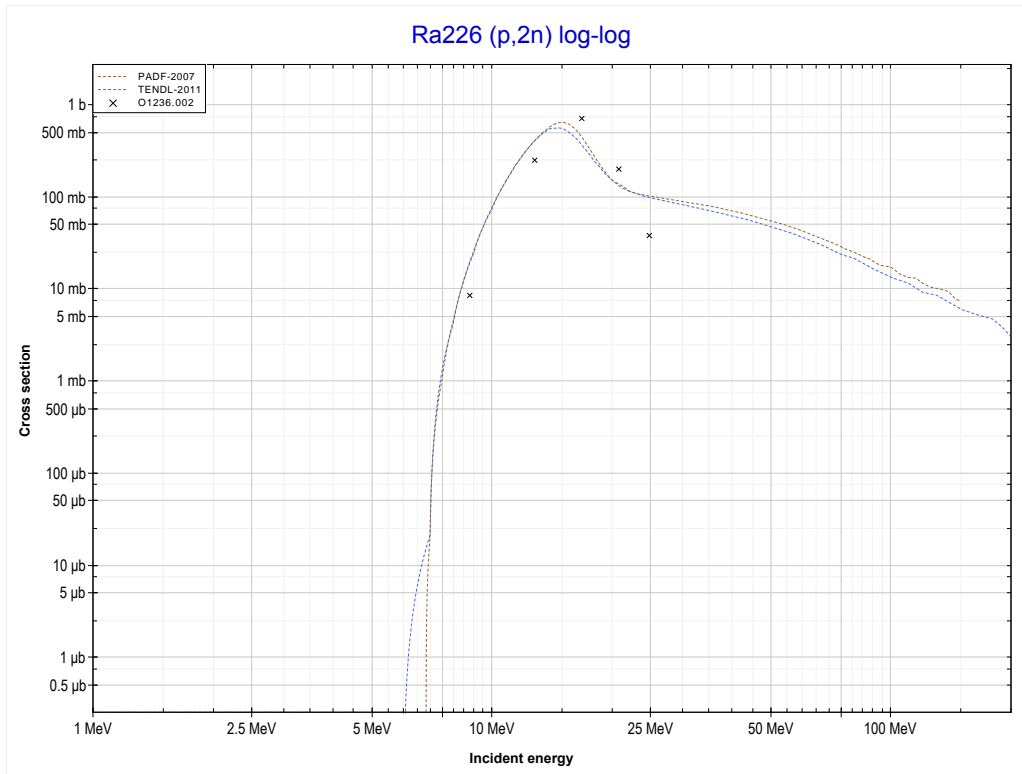
Reaction	Q-Value
Bi209(p,7n)Po203	-50161.75 keV

	<b>83-Bi-209</b>	92-U-238 >>
<< MT160 (p,7n)	<b>MT161 (p,8n) or MT5 (Po202 production)</b>	MT16 (p,2n) >>



Reaction	Q-Value
Bi209(p,8n)Po202	-57616.07 keV

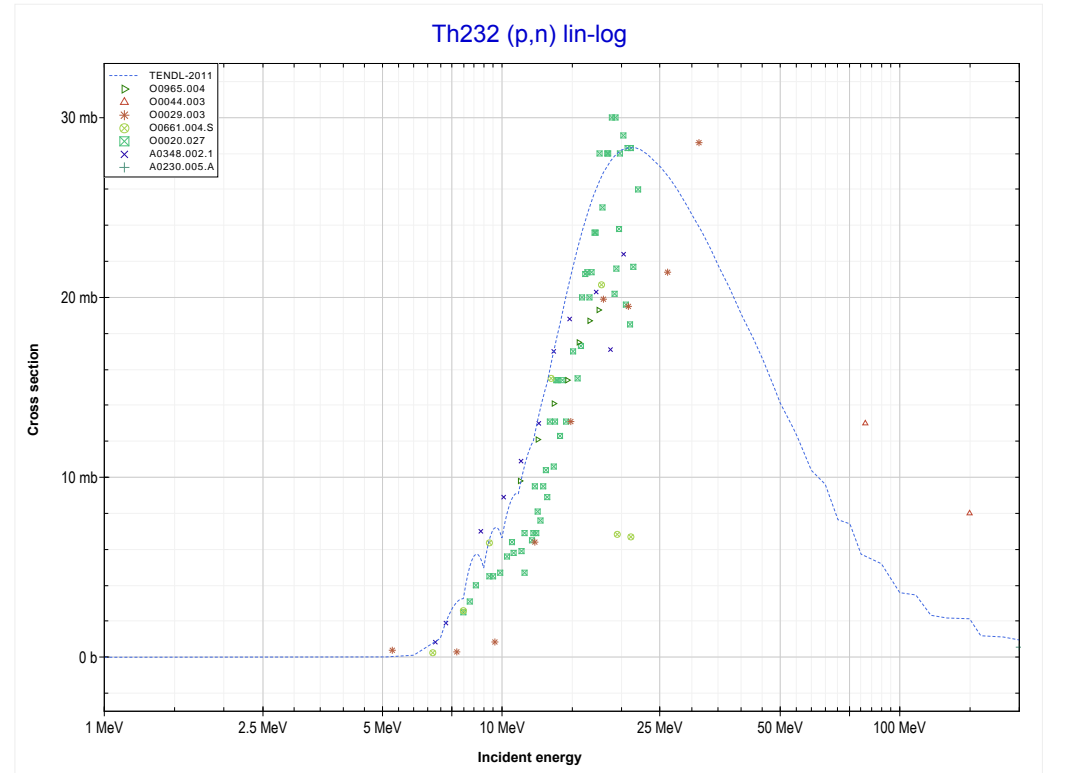
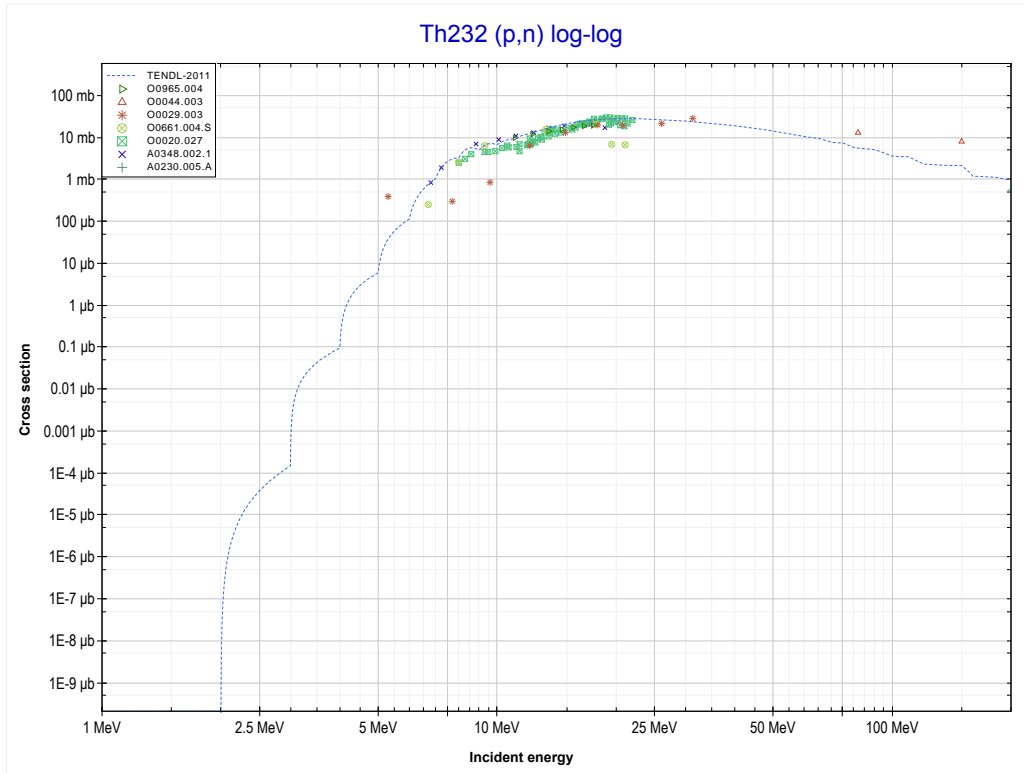
<< 83-Bi-209	<b>88-Ra-226</b>	90-Th-232 >>
<< MT161 (p,8n)	<b>MT16 (p,2n) or MT5 (Ac225 production)</b>	MT4 (p,n) >>



<b>Reaction</b>	<b>Q-Value</b>
Ra226(p,2n)Ac225	-6822.56 keV

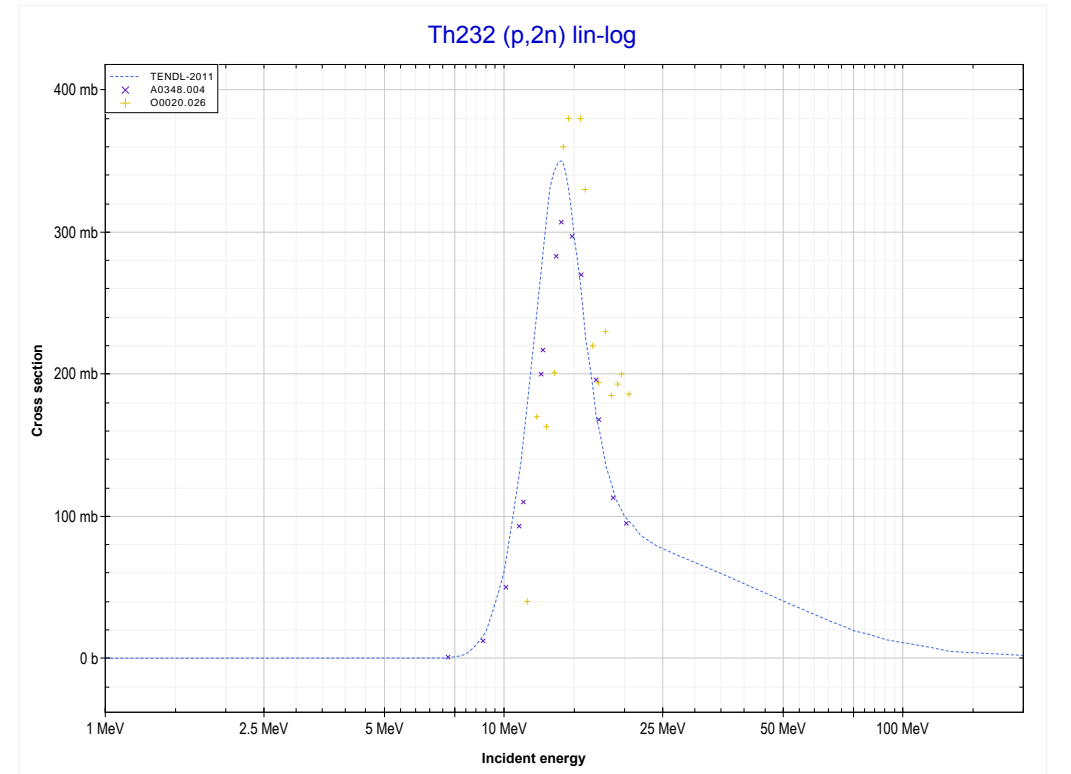
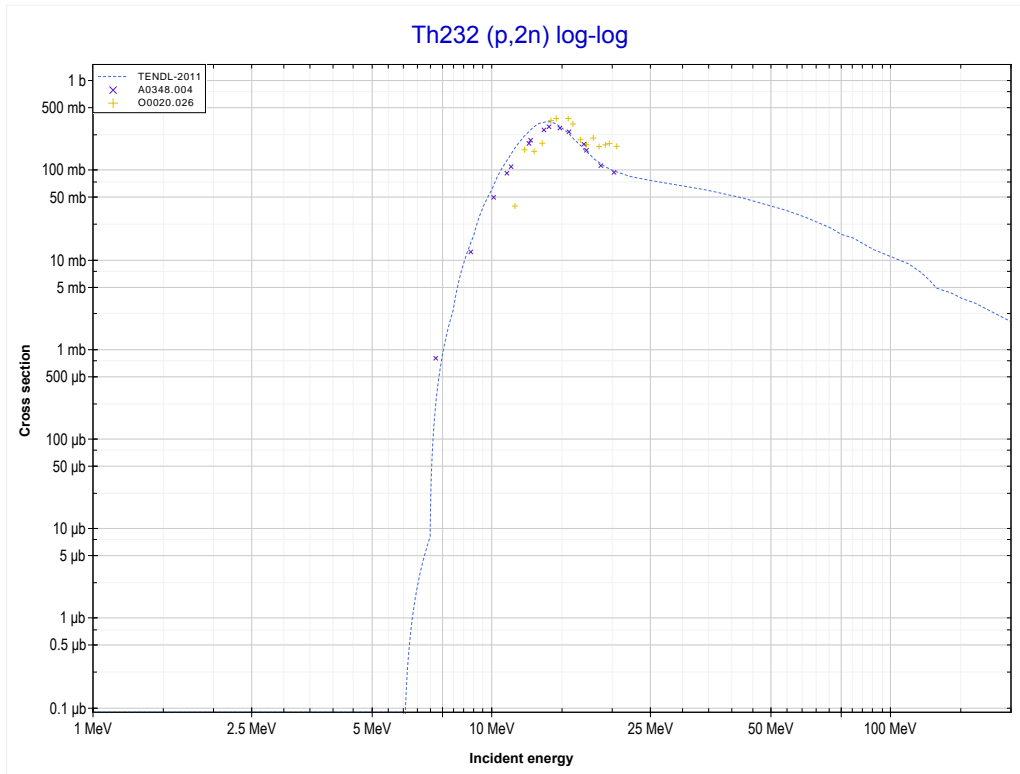


<< 83-Bi-209	<b>90-Th-232</b>	92-U-235 >>
<< MT16 (p,2n)	<b>MT4 (p,n) or MT5 (Pa232 production)</b>	MT16 (p,2n) >>



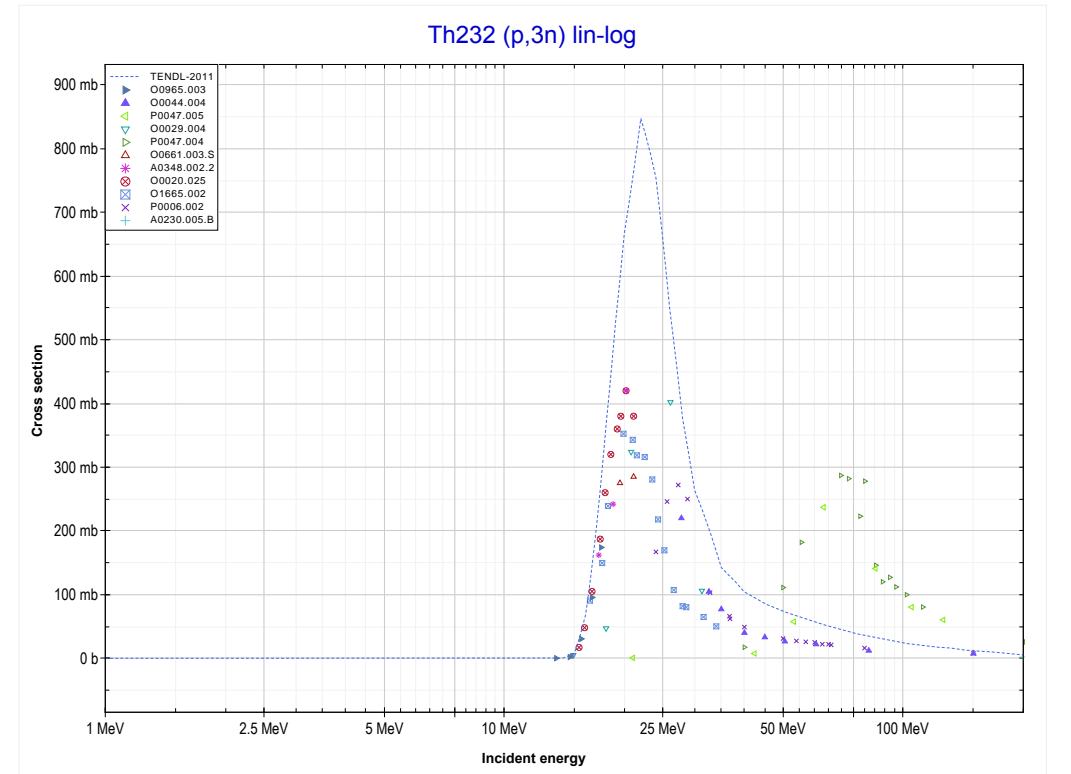
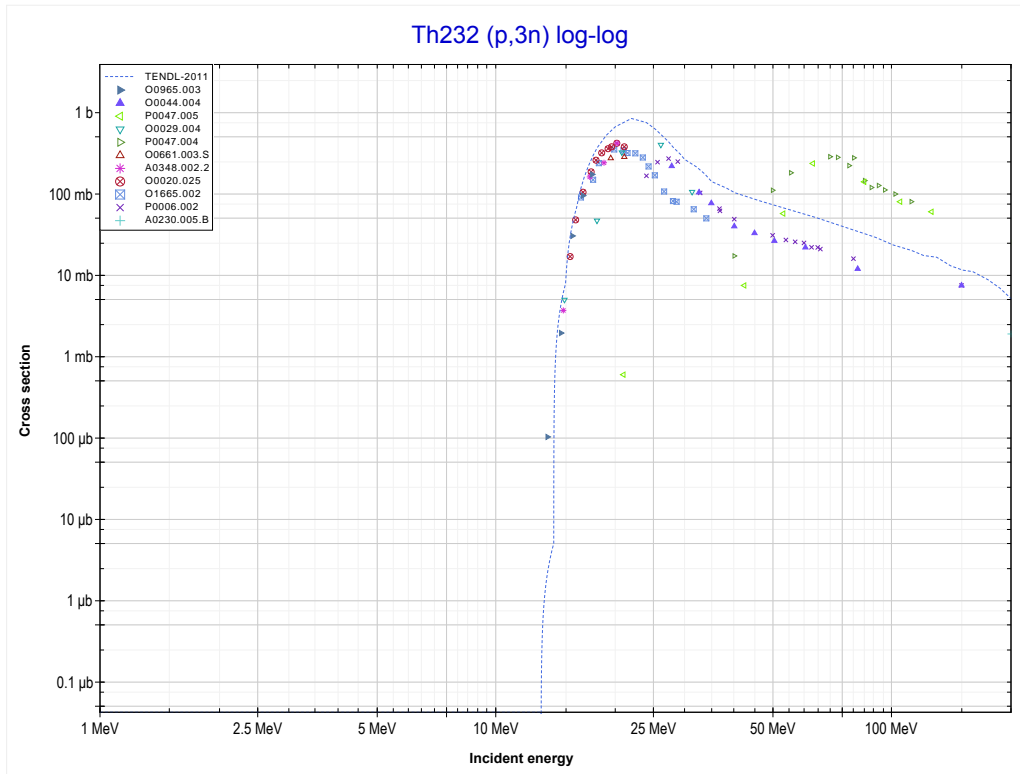
Reaction	Q-Value
Th232(p,n)Pa232	-1282.05 keV

<< 88-Ra-226	<b>90-Th-232</b>	91-Pa-231 >>
<< MT4 (p,n)	<b>MT16 (p,2n) or MT5 (Pa231 production)</b>	MT17 (p,3n) >>



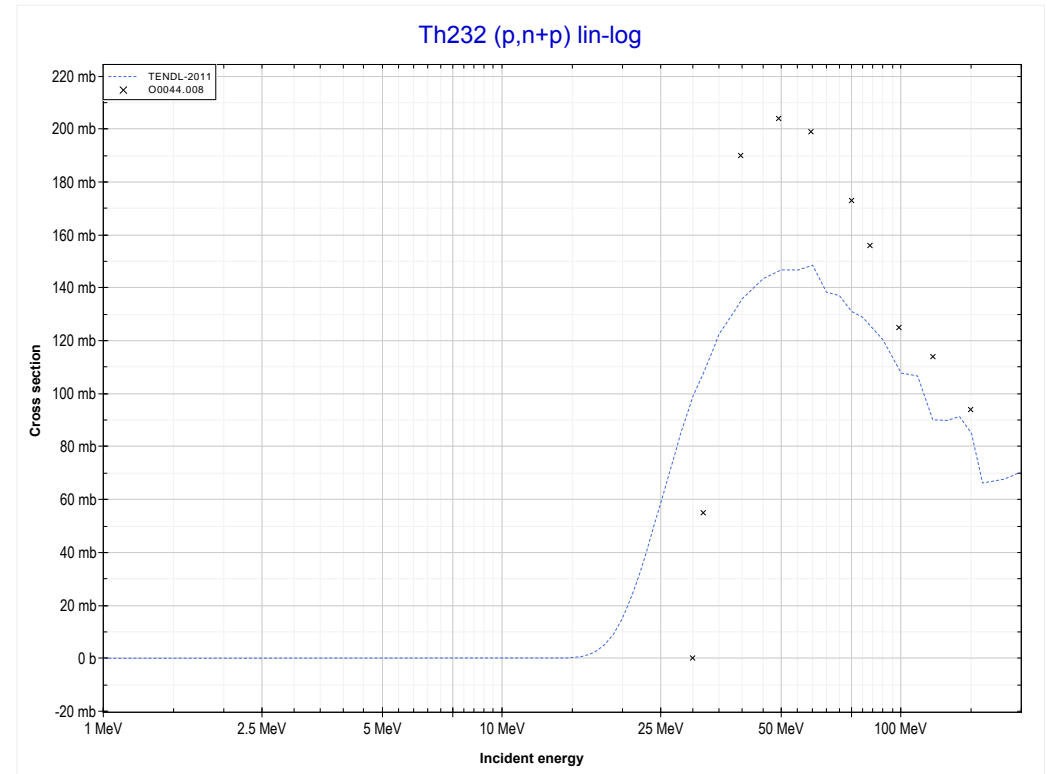
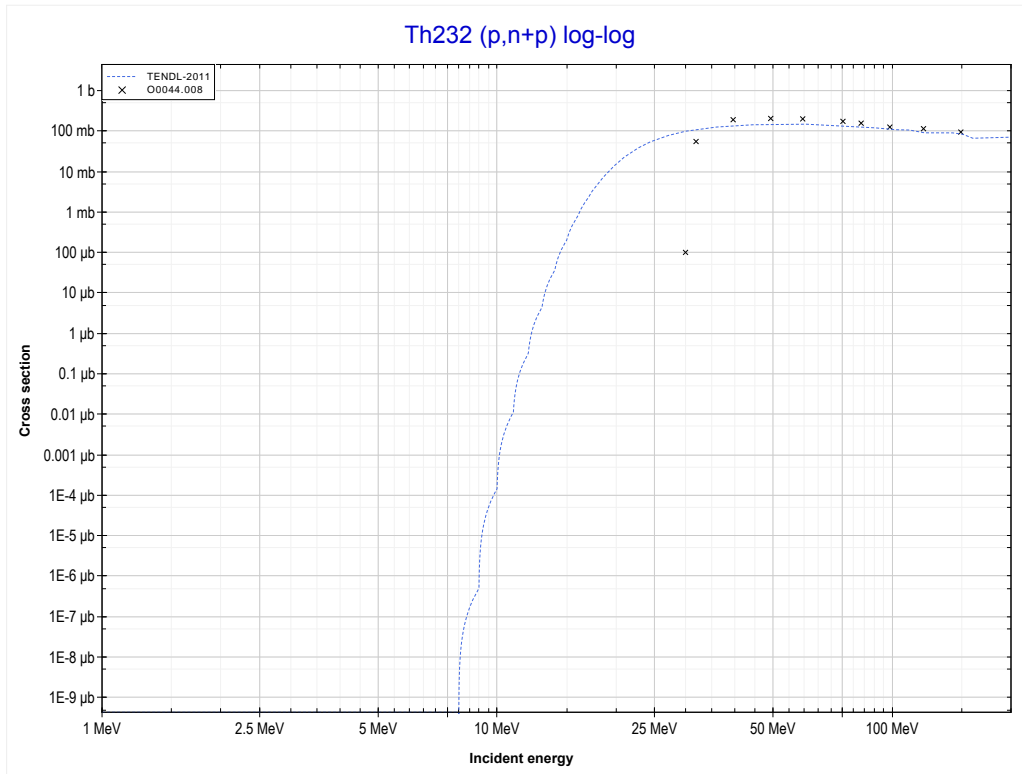
Reaction	Q-Value
Th232(p,2n)Pa231	-6831.06 keV

<< 83-Bi-209	<b>90-Th-232</b>	92-U-235 >>
<< MT16 (p,2n)	<b>MT17 (p,3n) or MT5 (Pa230 production)</b>	MT28 (p,n+p) >>



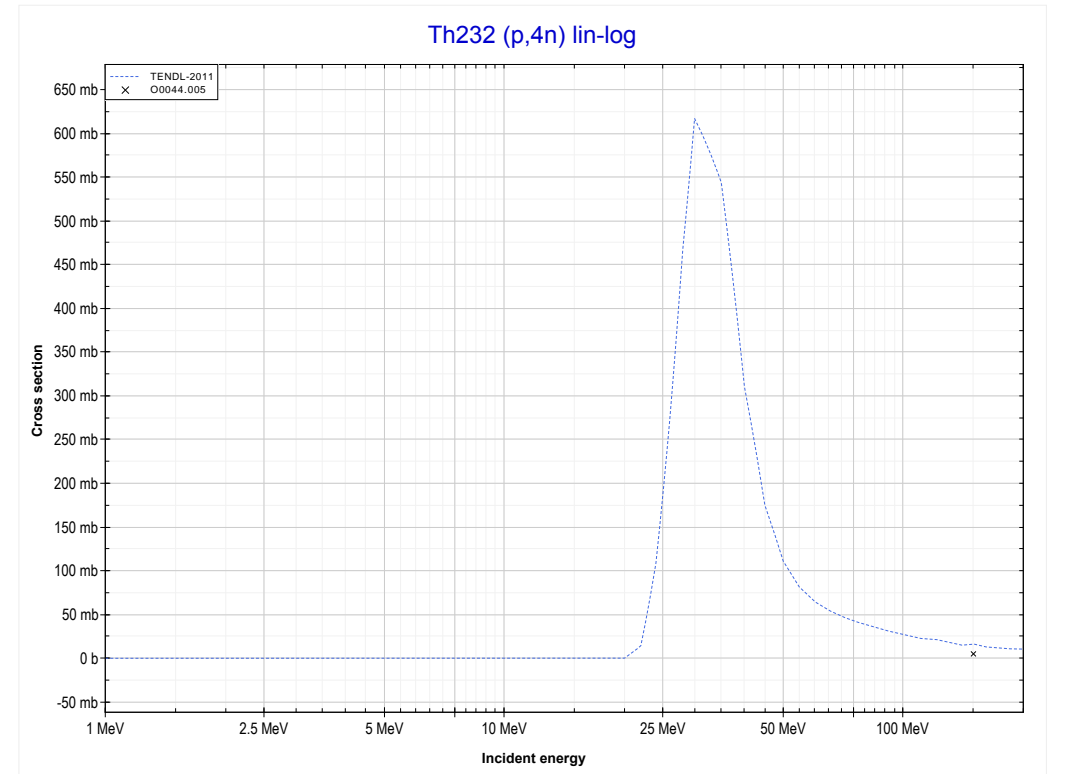
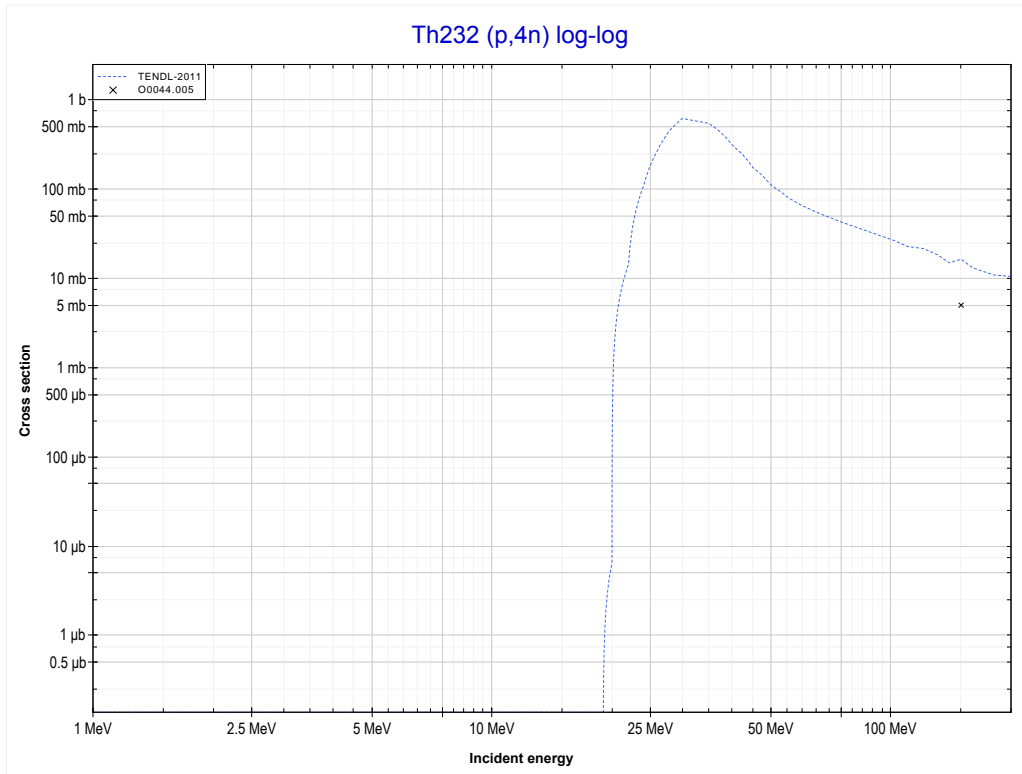
Reaction	Q-Value
Th232(p,3n)Pa230	-13651.68 keV

<< 79-Au-197	<b>90-Th-232</b>	
<< MT17 (p,3n)	<b>MT28 (p,n+p) or MT5 (Th231 production)</b>	MT37 (p,4n) >>



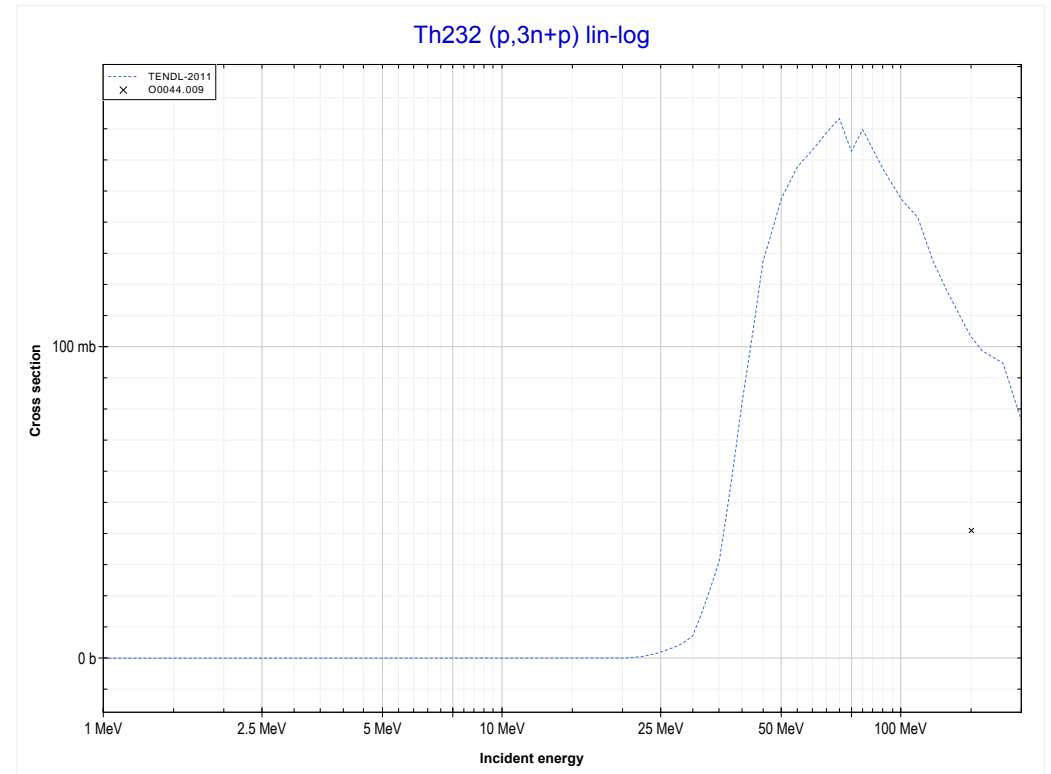
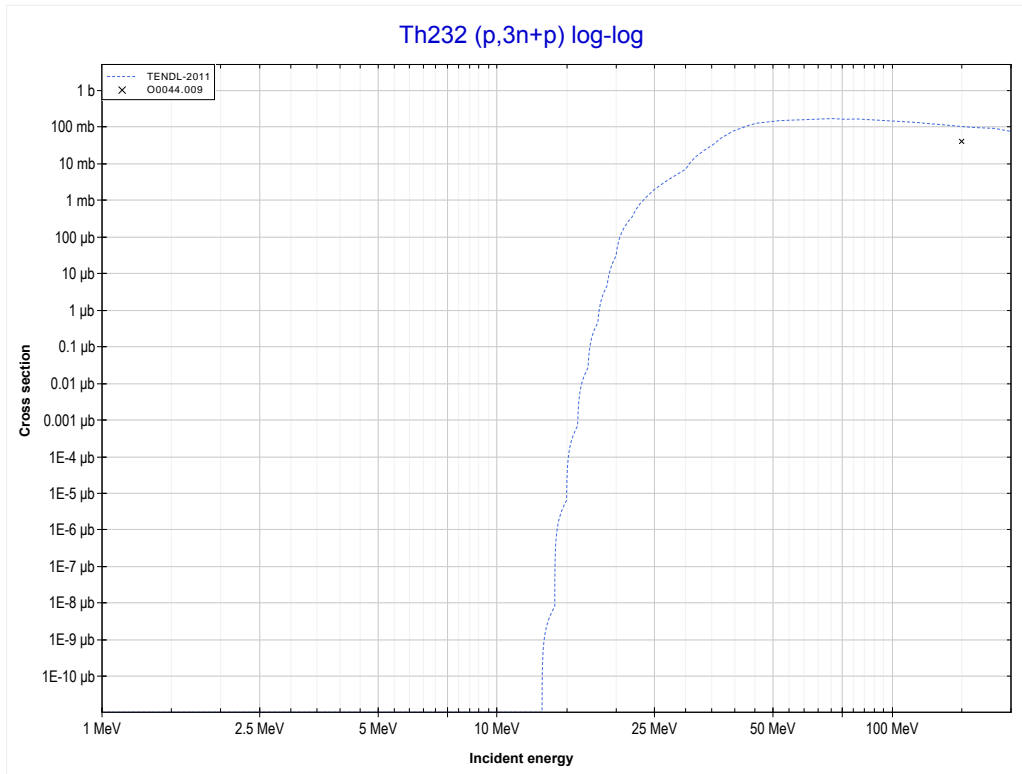
Reaction	Q-Value
Th232(p,d)Th231	-4215.75 keV
Th232(p,n+p)Th231	-6440.32 keV

<< 83-Bi-209	<b>90-Th-232</b>	92-U-235 >>
<< MT28 (p,n+p)	<b>MT37 (p,4n) or MT5 (Pa229 production)</b>	MT42 (p,3n+p) >>



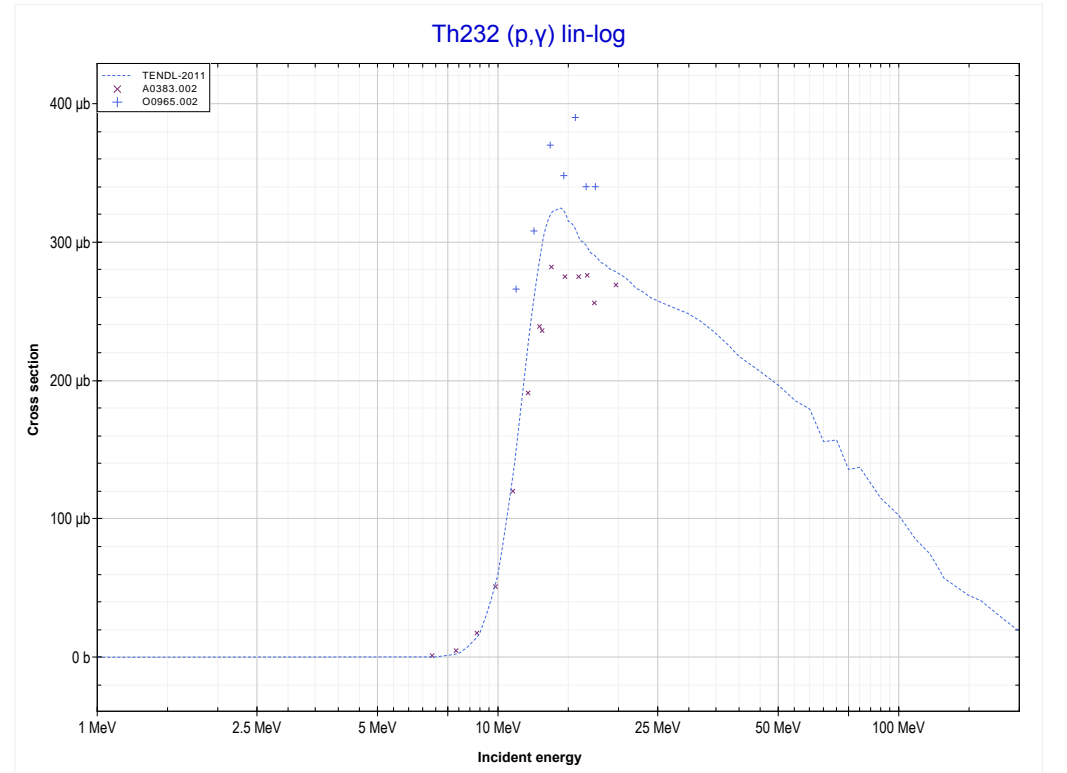
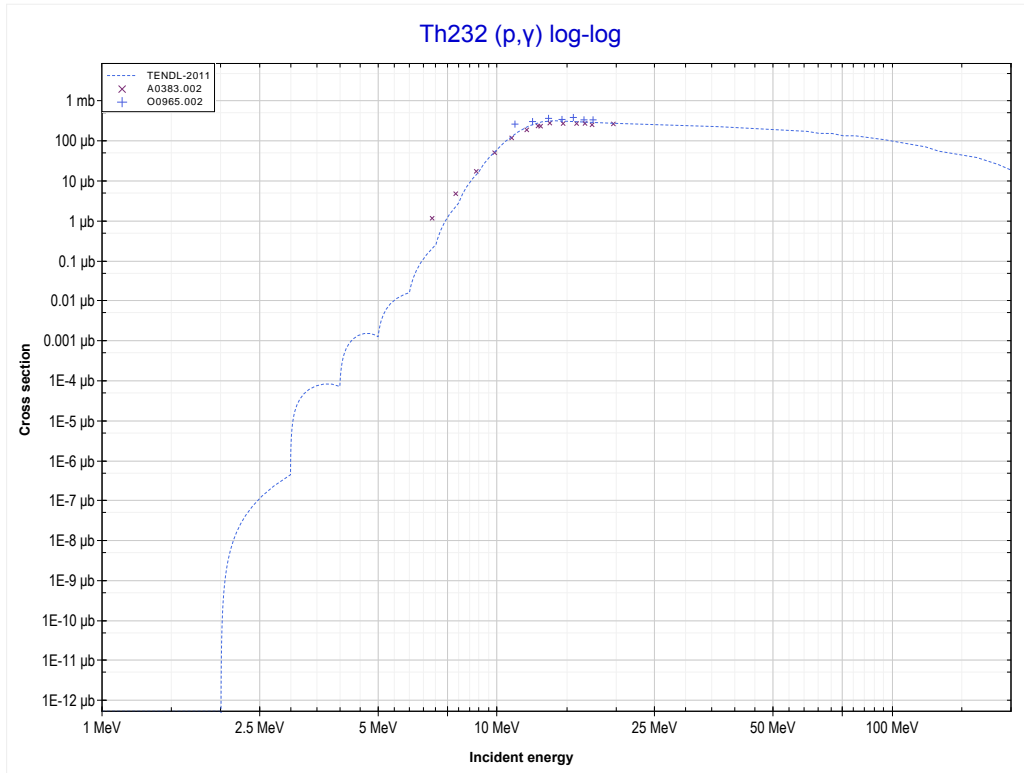
Reaction	Q-Value
Th232(p,4n)Pa229	-19446.00 keV

<< 39-Y-89	<b>90-Th-232</b>	
<< MT37 (p,4n)	<b>MT42 (p,3n+p) or MT5 (Th229 production)</b>	MT102 (p, $\gamma$ ) >>



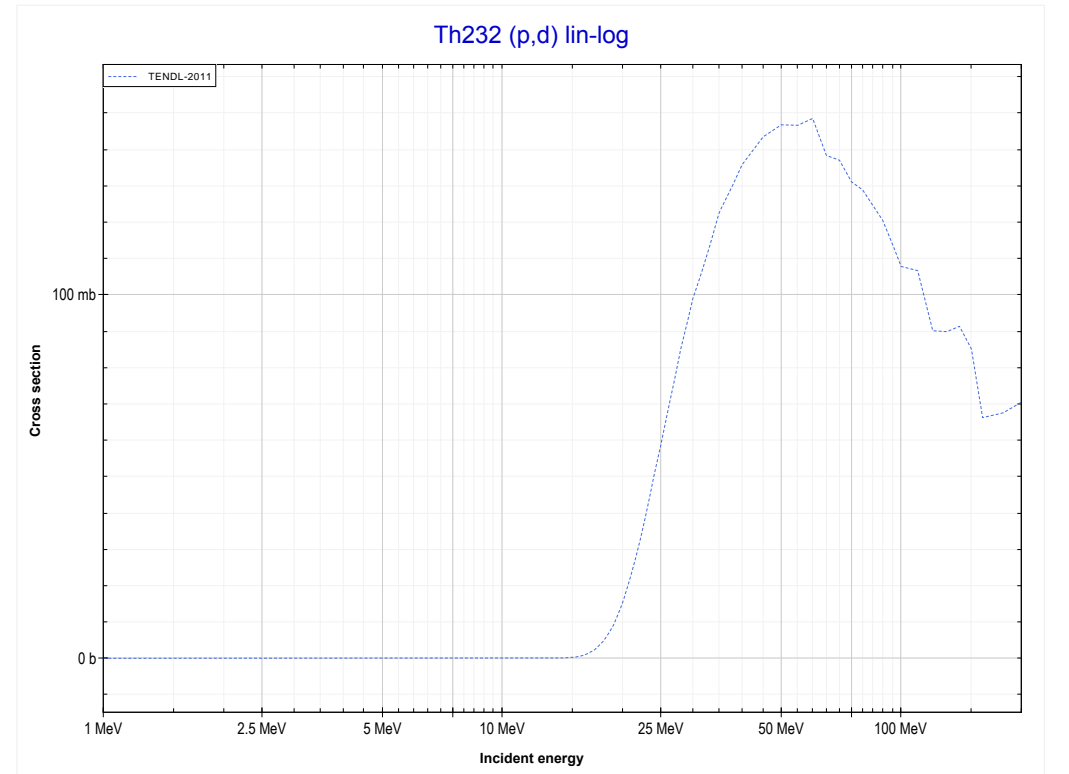
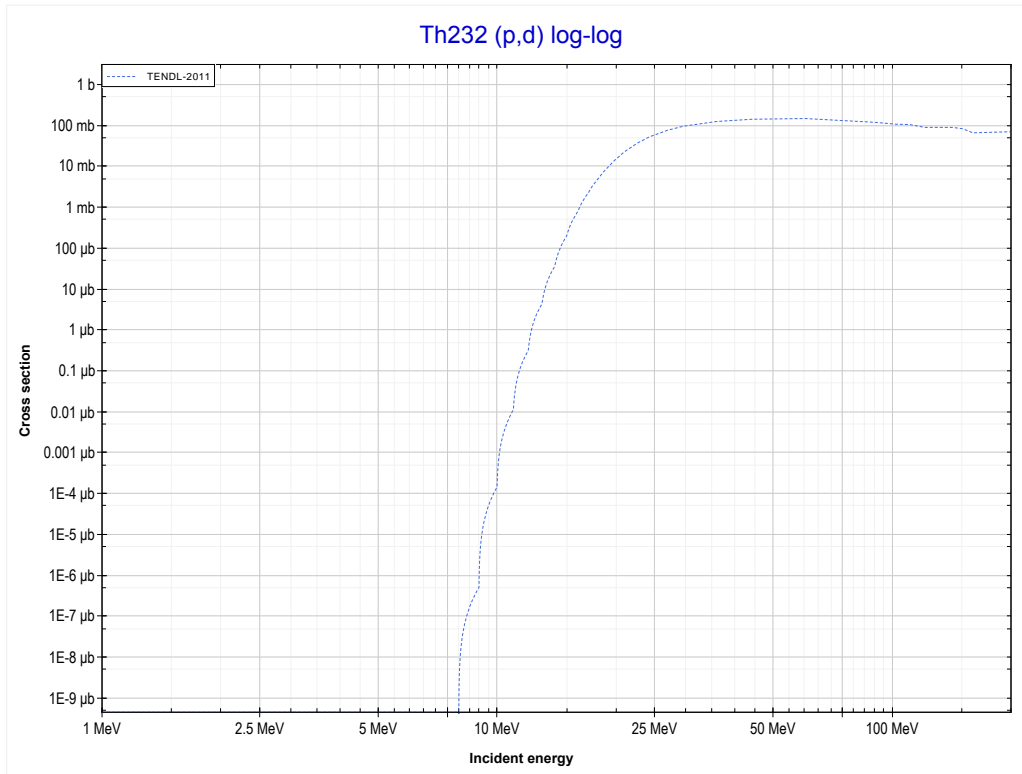
Reaction	Q-Value
Th232(p,n+t)Th229	-9870.35 keV
Th232(p,2n+d)Th229	-16127.59 keV
Th232(p,3n+p)Th229	-18352.15 keV

<< 83-Bi-209	<b>90-Th-232</b>	92-U-238 >>
<< MT42 (p,3n+p)	<b>MT102 (p,<math>\gamma</math>) or MT5 (Pa233 production)</b>	MT104 (p,d) >>



Reaction	Q-Value
Th232(p, $\gamma$ )Pa233	5247.17 keV

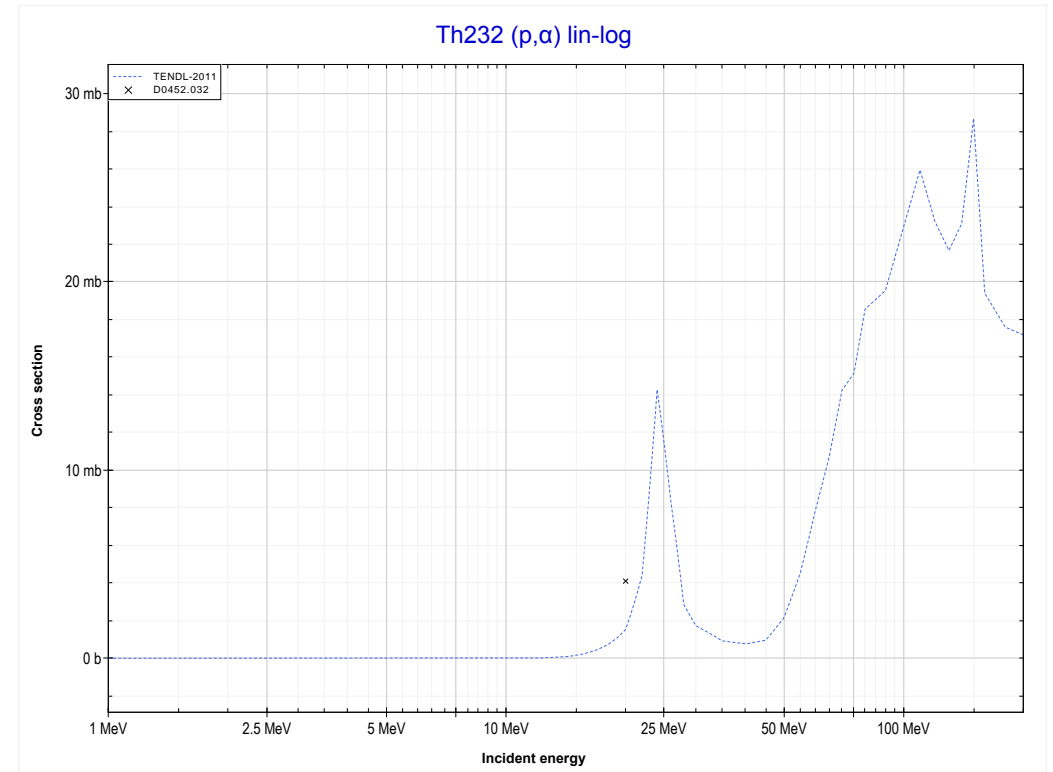
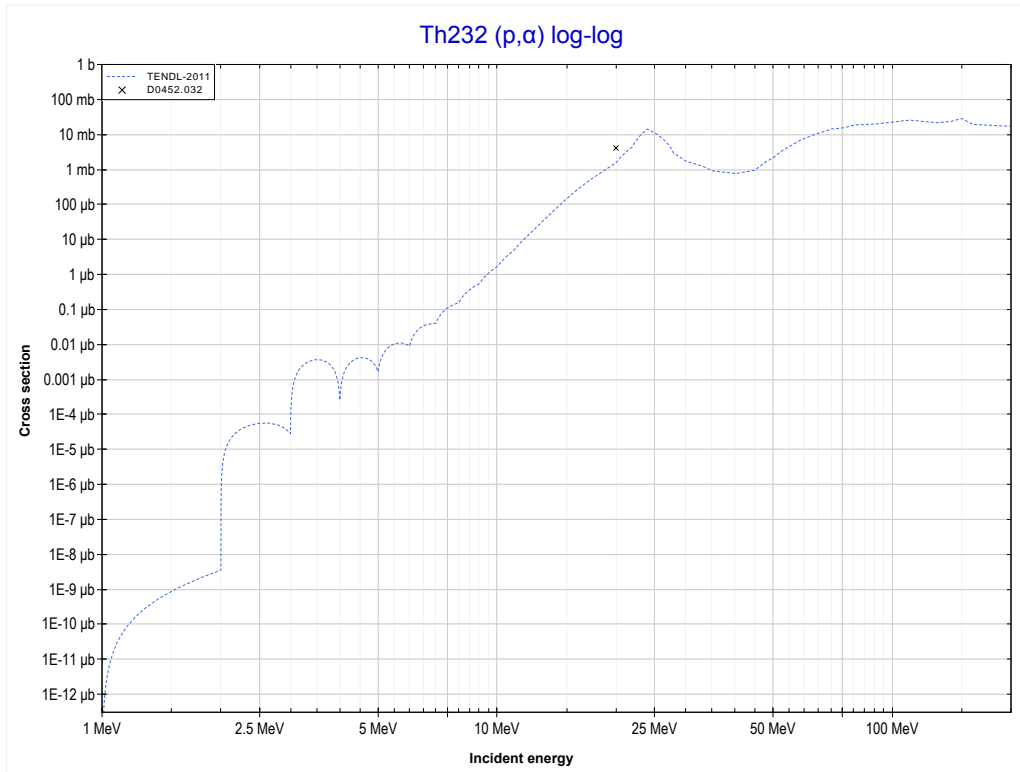
<< 7-N-14	<b>90-Th-232</b>	92-U-235 >>
<< MT102 (p, $\gamma$ )	<b>MT104 (p,d) or MT5 (Th231 production)</b>	MT107 (p, $\alpha$ ) >>



Reaction	Q-Value
Th232(p,d)Th231	-4215.75 keV
Th232(p,n+p)Th231	-6440.32 keV

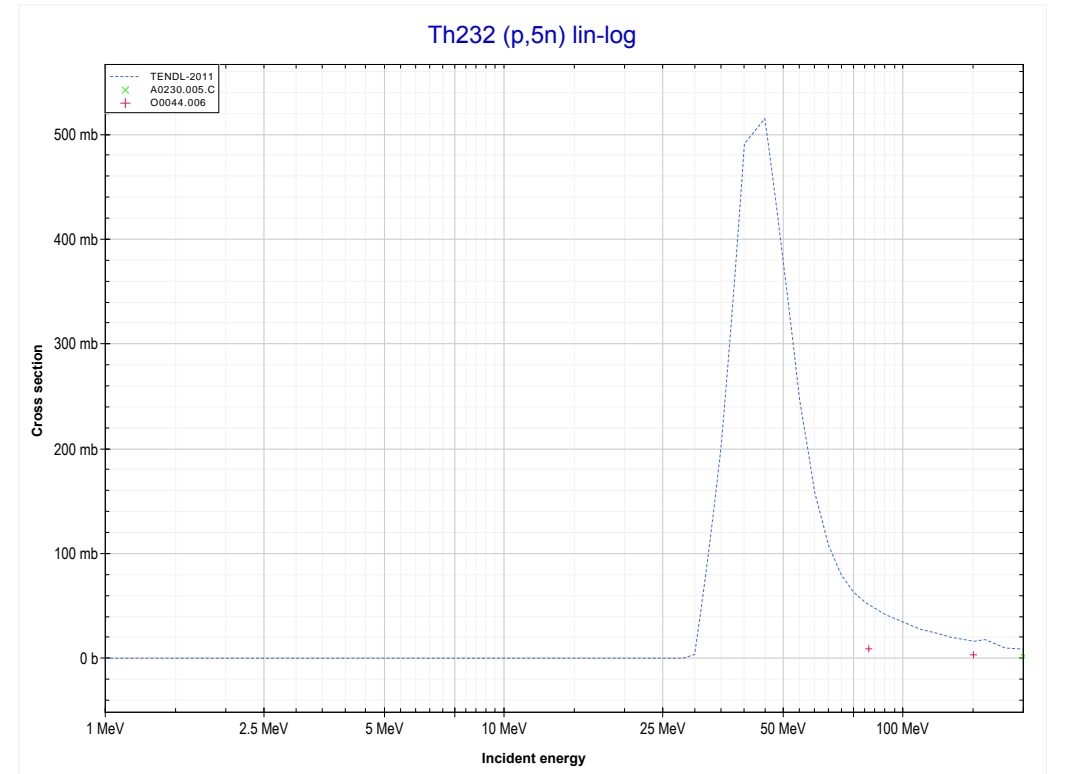
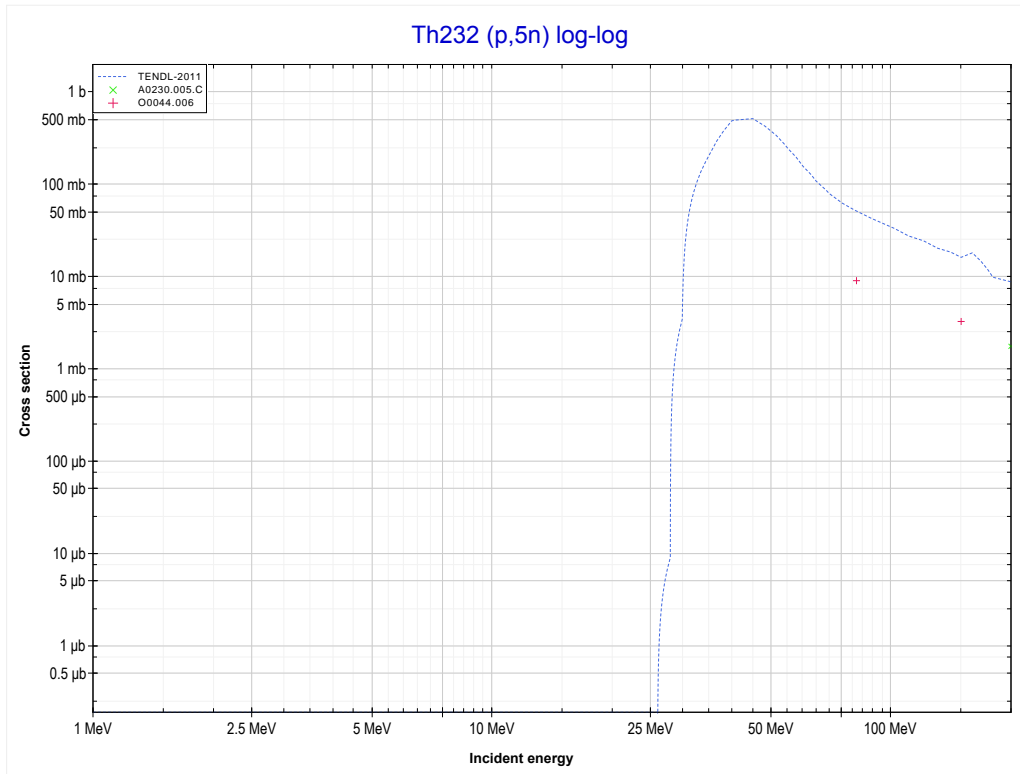


<< 83-Bi-209	<b>90-Th-232</b>	92-U-235 >>
<< MT104 (p,d)	<b>MT107 (p,<math>\alpha</math>) or MT5 (Ac229 production)</b>	MT152 (p,5n) >>



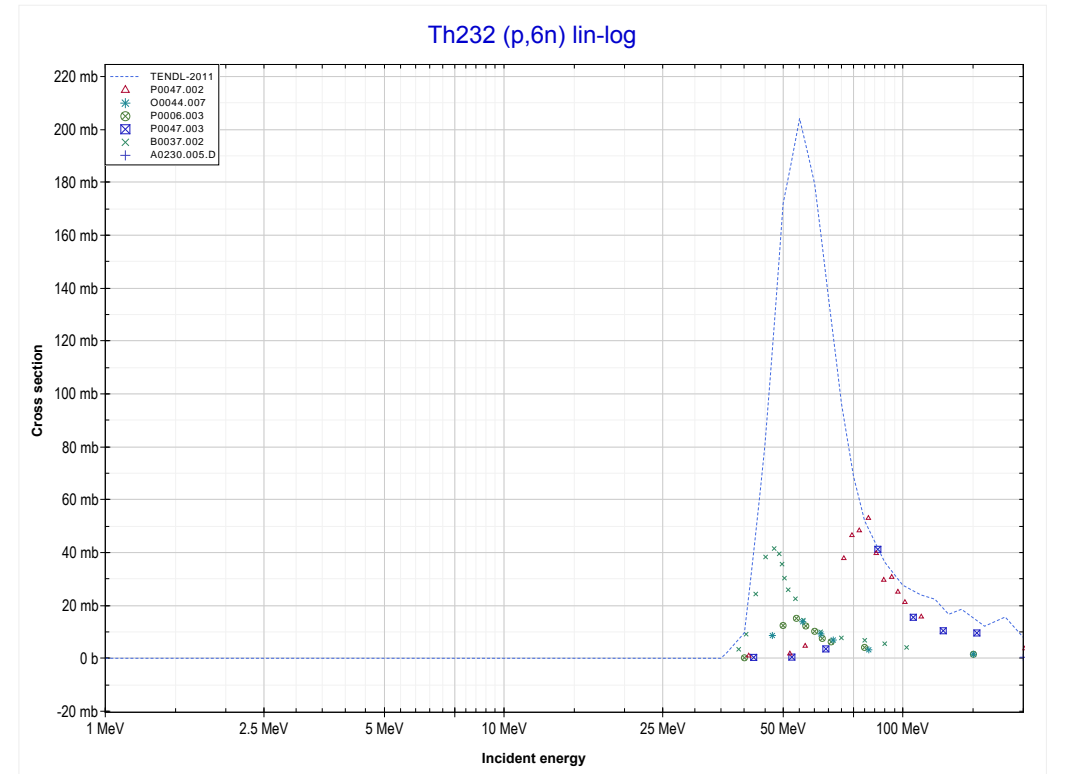
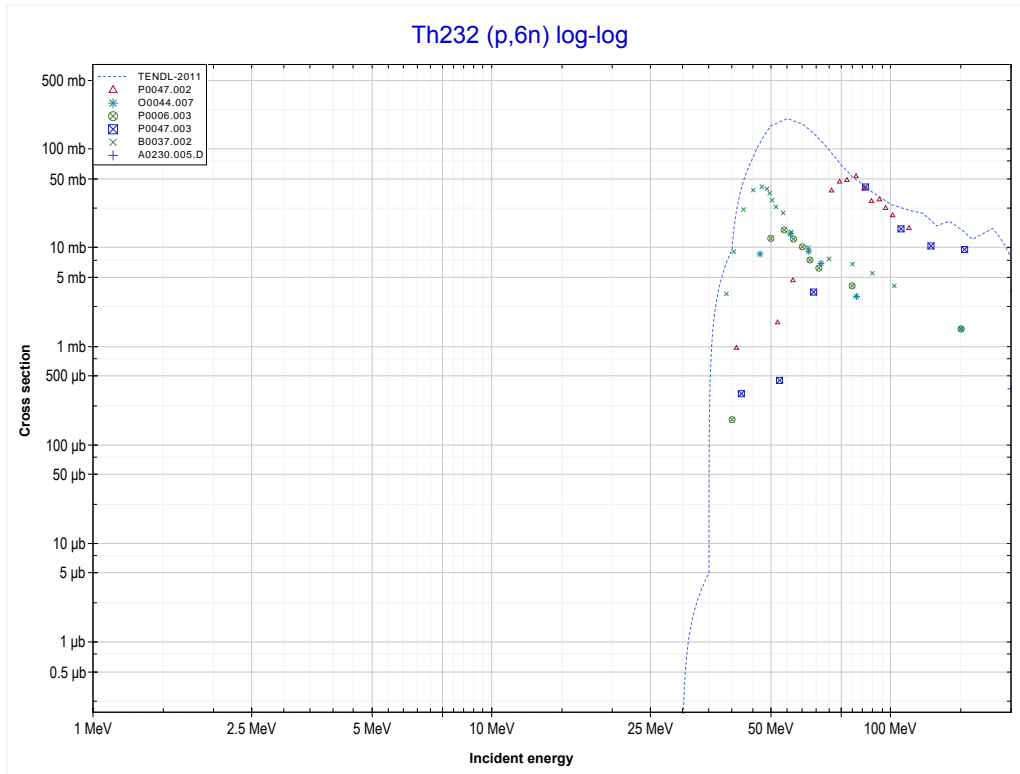
Reaction	Q-Value
Th232(p, $\alpha$ )Ac229	9562.35 keV
Th232(p,p+t)Ac229	-10251.51 keV
Th232(p,n+He3)Ac229	-11015.26 keV
Th232(p,2d)Ac229	-14284.17 keV
Th232(p,n+p+d)Ac229	-16508.74 keV
Th232(p,2n+2p)Ac229	-18733.30 keV

<< 83-Bi-209	<b>90-Th-232</b>	92-U-235 >>
<< MT107 (p, $\alpha$ )	<b>MT152 (p,5n) or MT5 (Pa228 production)</b>	MT153 (p,6n) >>



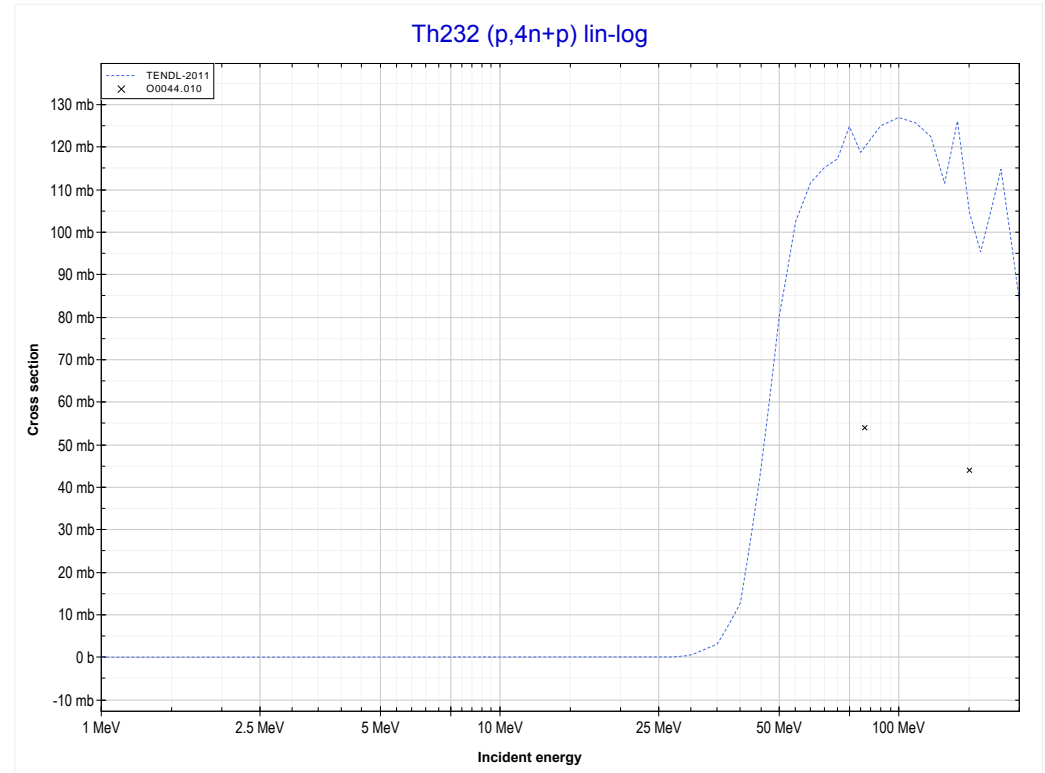
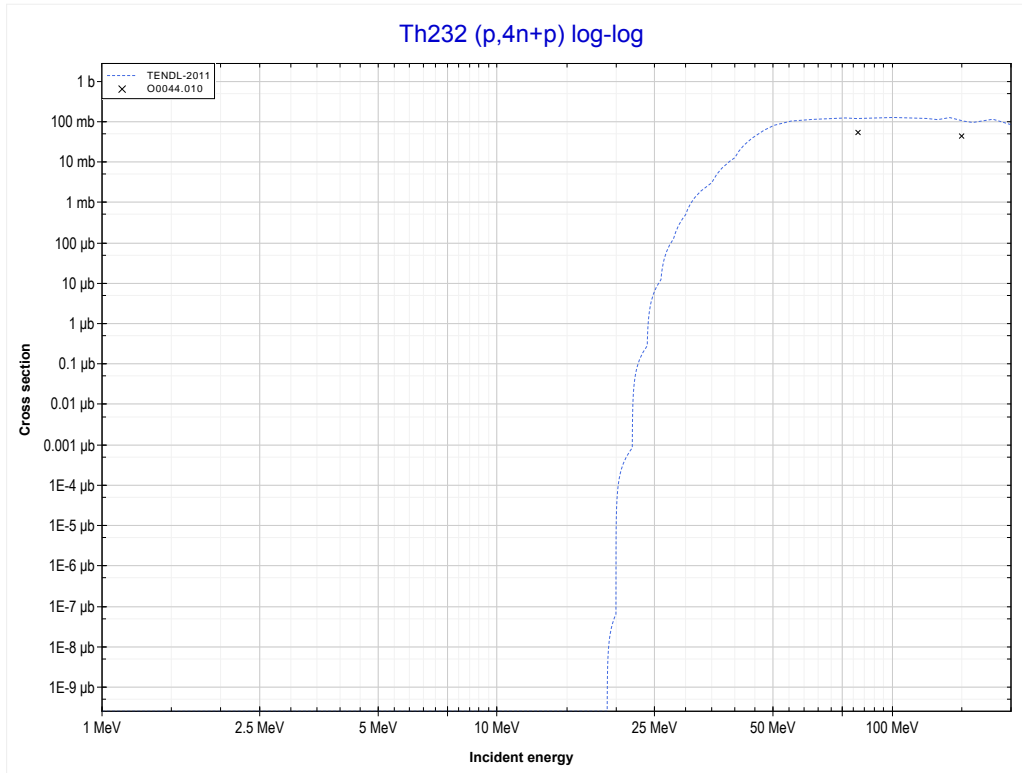
Reaction	Q-Value
Th232(p,5n)Pa228	-26543.31 keV

<< 83-Bi-209	<b>90-Th-232</b>	92-U-238 >>
<< MT152 (p,5n)	<b>MT153 (p,6n) or MT5 (Pa227 production)</b>	MT156 (p,4n+p) >>



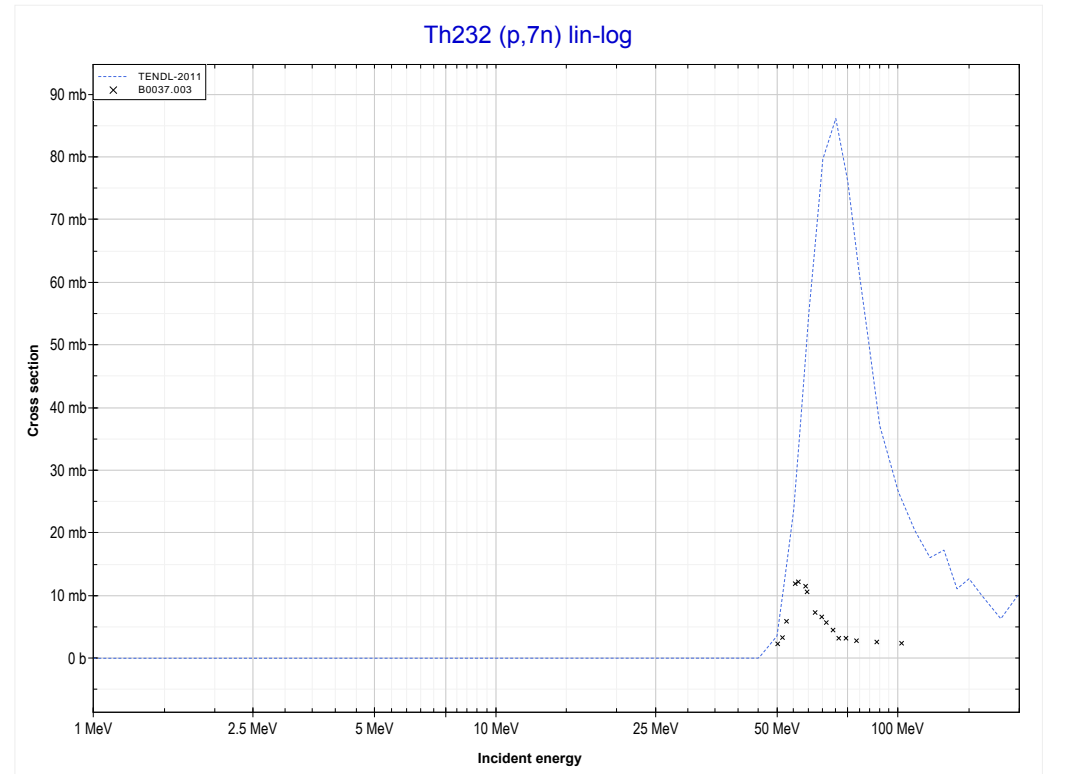
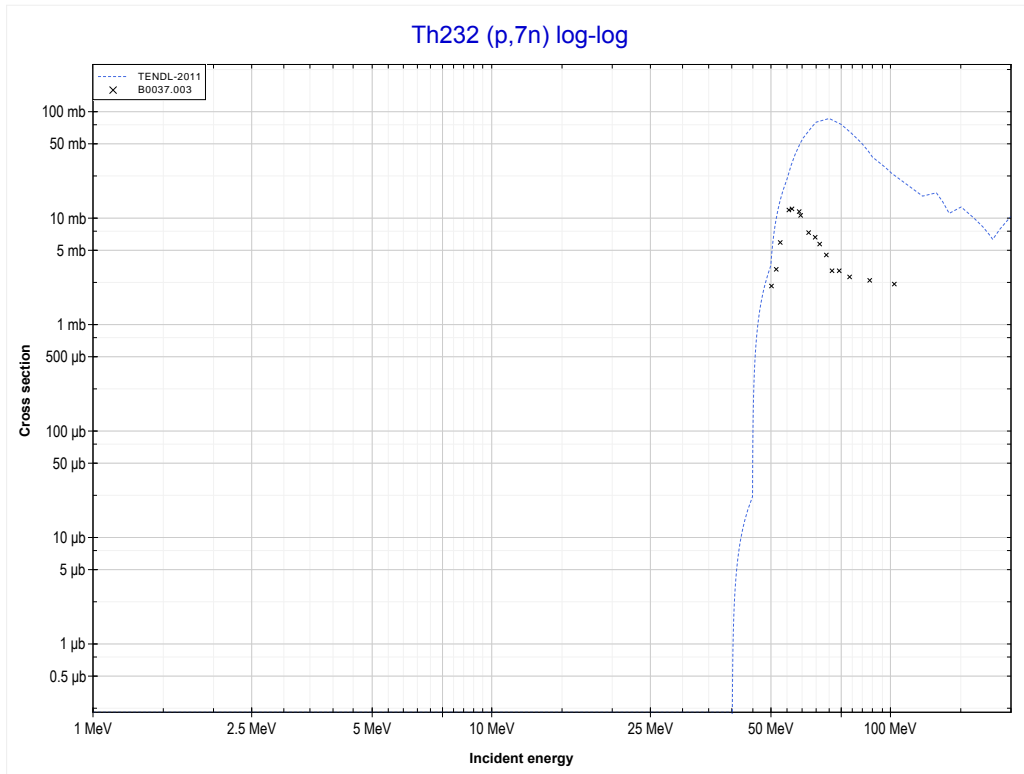
Reaction	Q-Value
Th232(p,6n)Pa227	-32522.63 keV

<< 31-Ga-71	<b>90-Th-232</b>	
<< MT153 (p,6n)	<b>MT156 (p,4n+p) or MT5 (Th228 production)</b>	MT160 (p,7n) >>



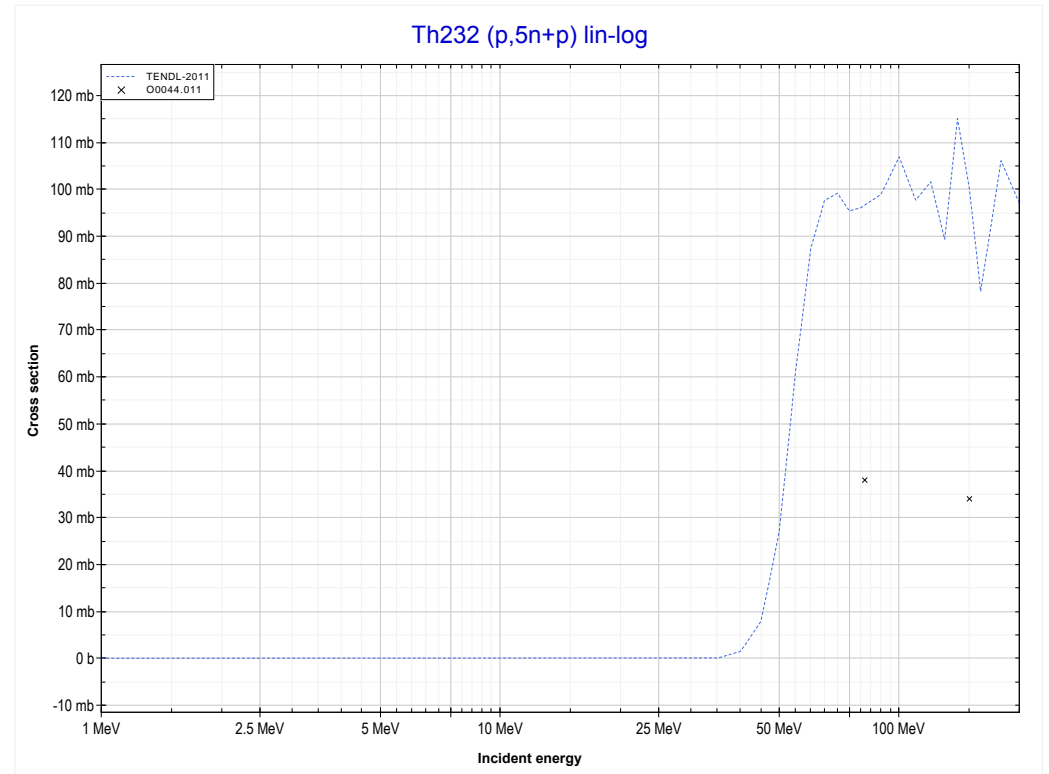
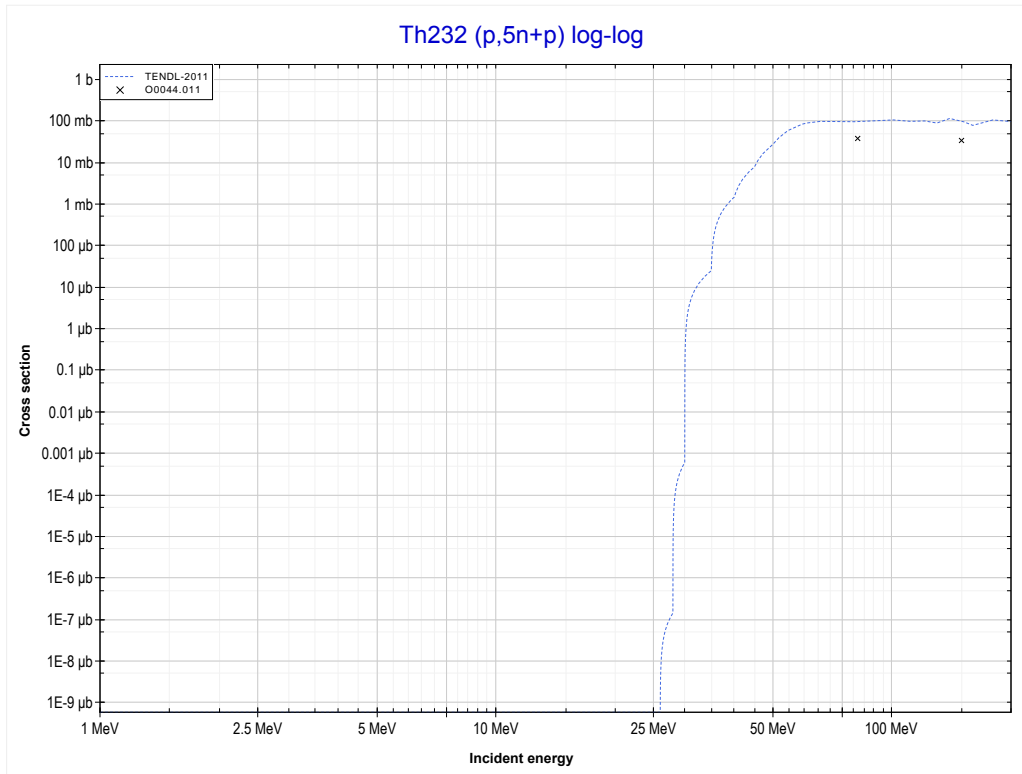
Reaction	Q-Value
Th232(p,2n+t)Th228	-15127.37 keV
Th232(p,3n+d)Th228	-21384.60 keV
Th232(p,4n+p)Th228	-23609.17 keV

<< 83-Bi-209	<b>90-Th-232</b>	92-U-238 >>
<< MT156 (p,4n+p)	<b>MT160 (p,7n) or MT5 (Pa226 production)</b>	MT162 (p,5n+p) >>



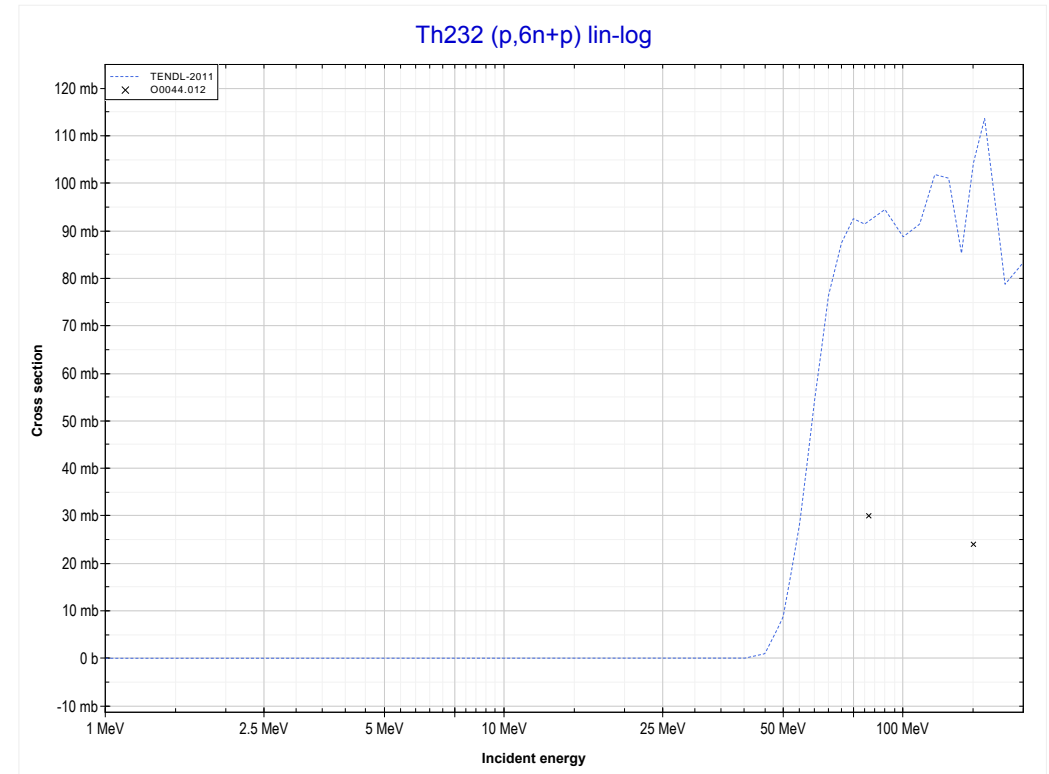
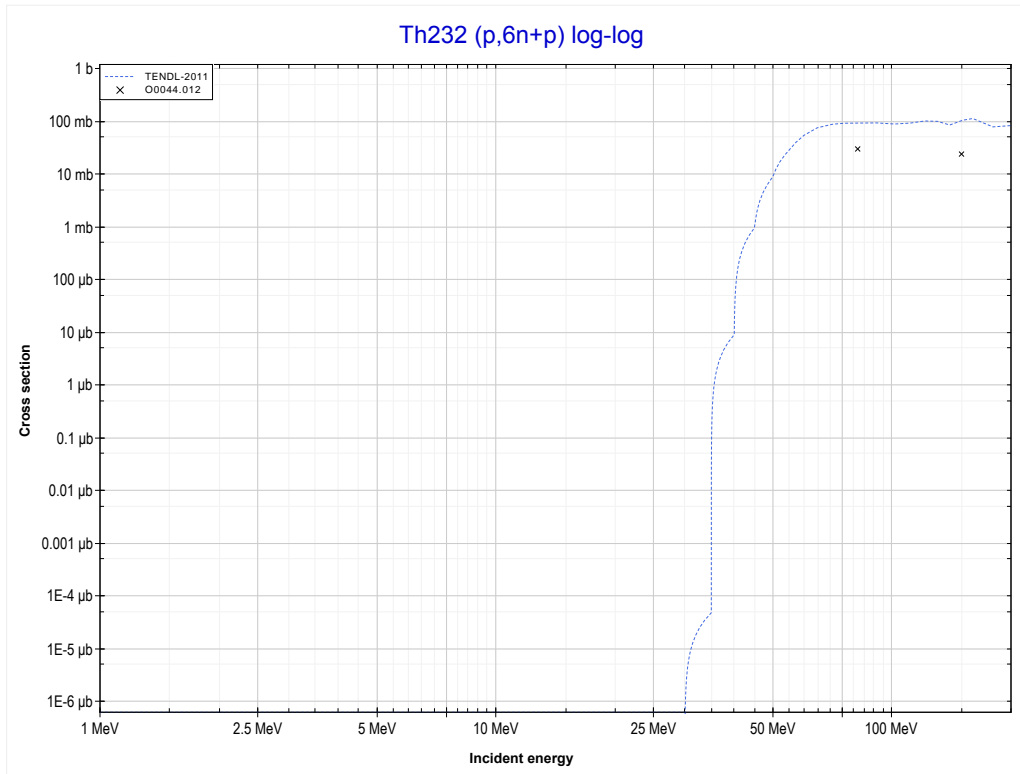
Reaction	Q-Value
Th232(p,7n)Pa226	-39794.95 keV

<< 39-Y-89	<b>90-Th-232</b>	
<< MT160 (p,7n)	<b>MT162 (p,5n+p) or MT5 (Th227 production)</b>	MT163 (p,6n+p) >>



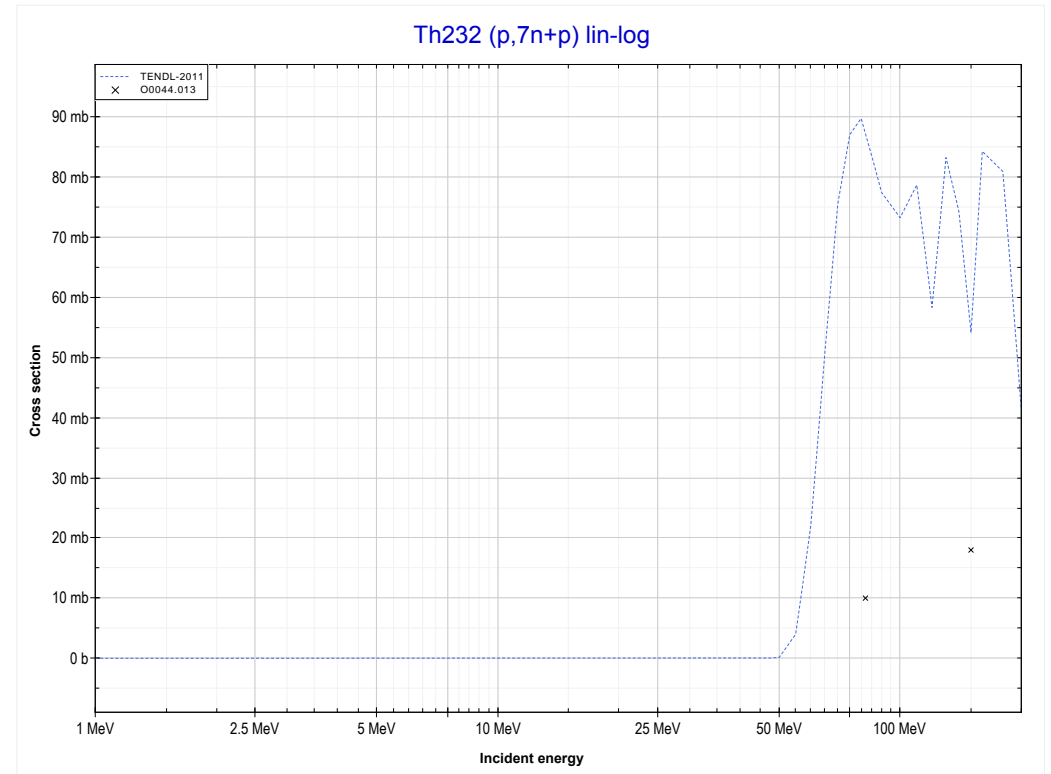
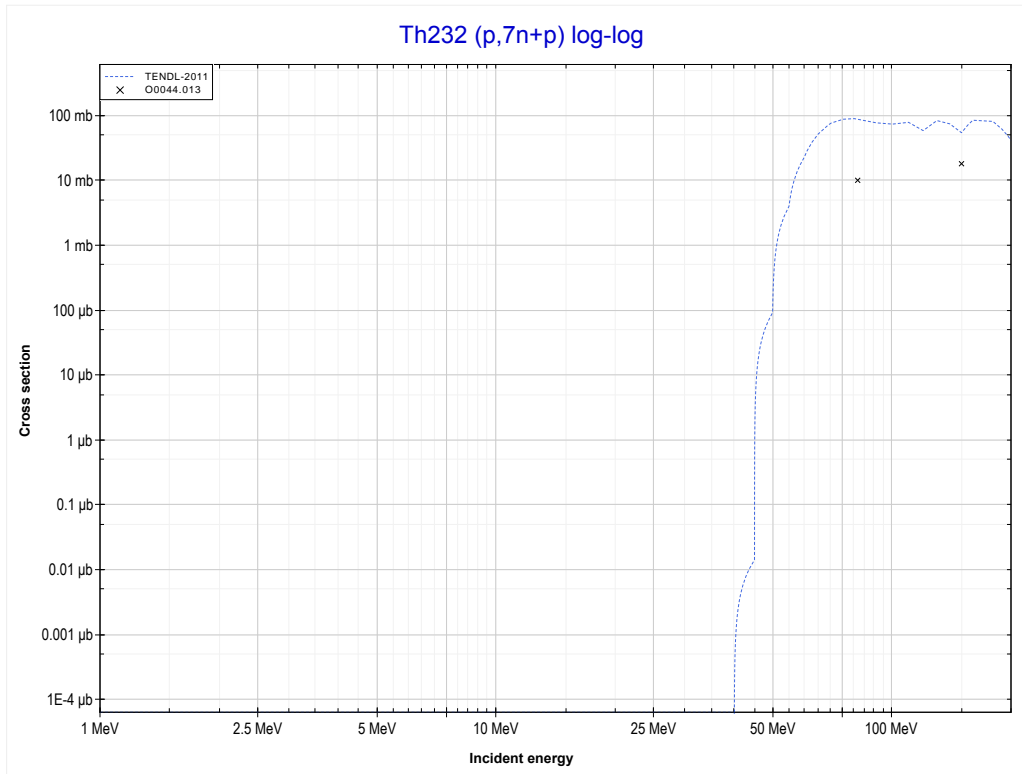
Reaction	Q-Value
Th232(p,3n+t)Th227	-22232.69 keV
Th232(p,4n+d)Th227	-28489.92 keV
Th232(p,5n+p)Th227	-30714.49 keV

<< 39-Y-89	<b>90-Th-232</b>	
<< MT162 (p,5n+p)	<b>MT163 (p,6n+p) or MT5 (Th226 production)</b>	MT164 (p,7n+p) >>



Reaction	Q-Value
Th232(p,4n+t)Th226	-27694.80 keV
Th232(p,5n+d)Th226	-33952.04 keV
Th232(p,6n+p)Th226	-36176.60 keV

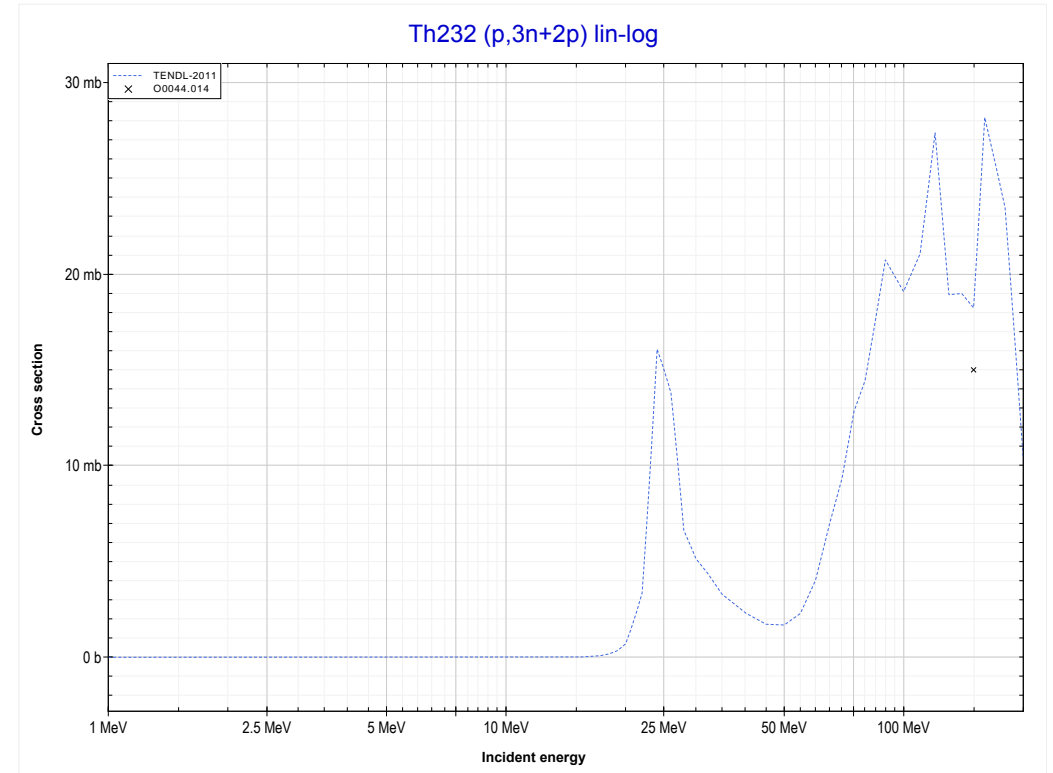
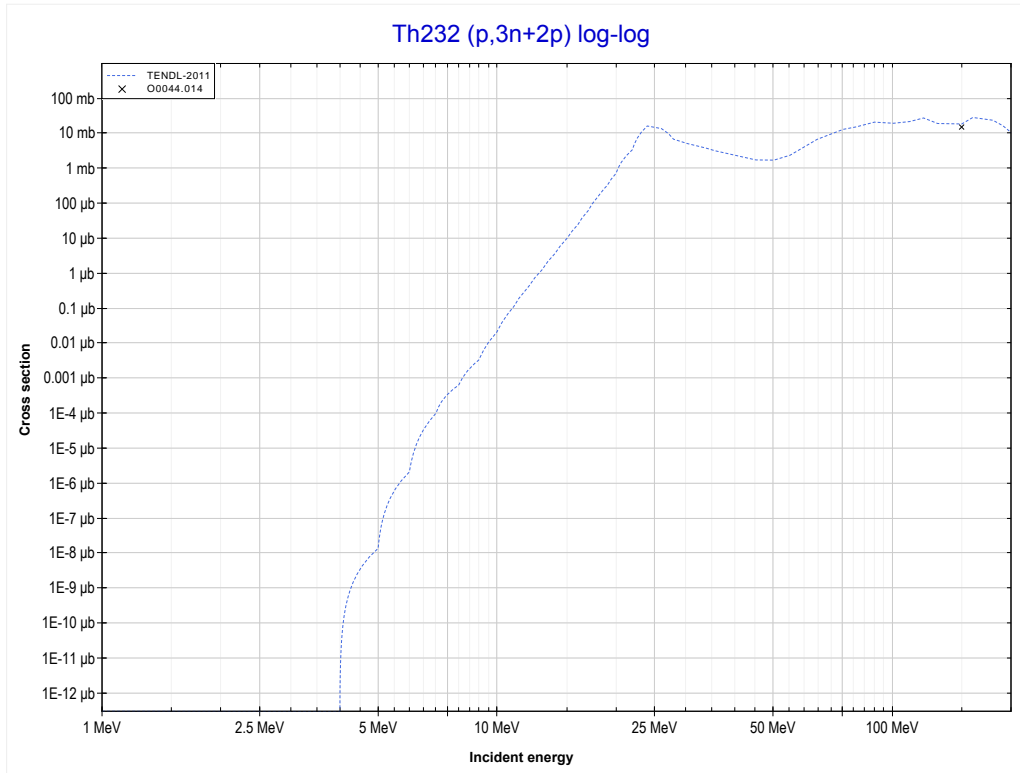
	<b>90-Th-232</b>	
<< MT163 (p,6n+p)	<b>MT164 (p,7n+p) or MT5 (Th225 production)</b>	MT179 (p,3n+2p) >>



Reaction	Q-Value
Th232(p,5n+t)Th225	-34879.12 keV
Th232(p,6n+d)Th225	-41136.35 keV
Th232(p,7n+p)Th225	-43360.92 keV

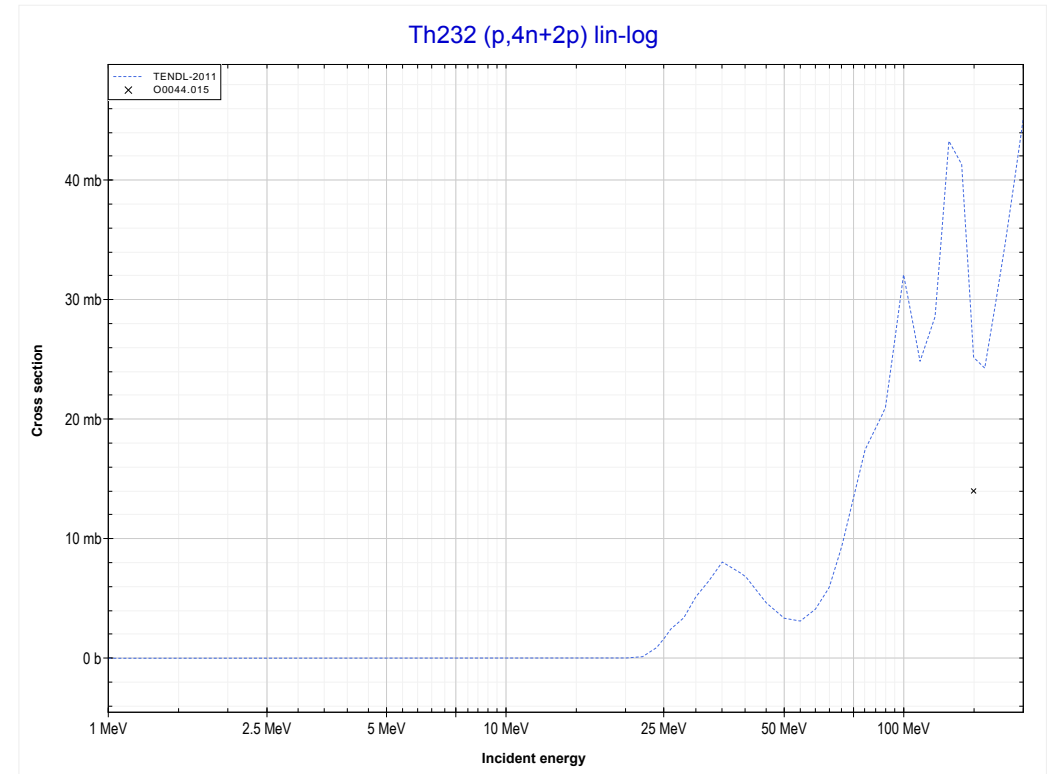
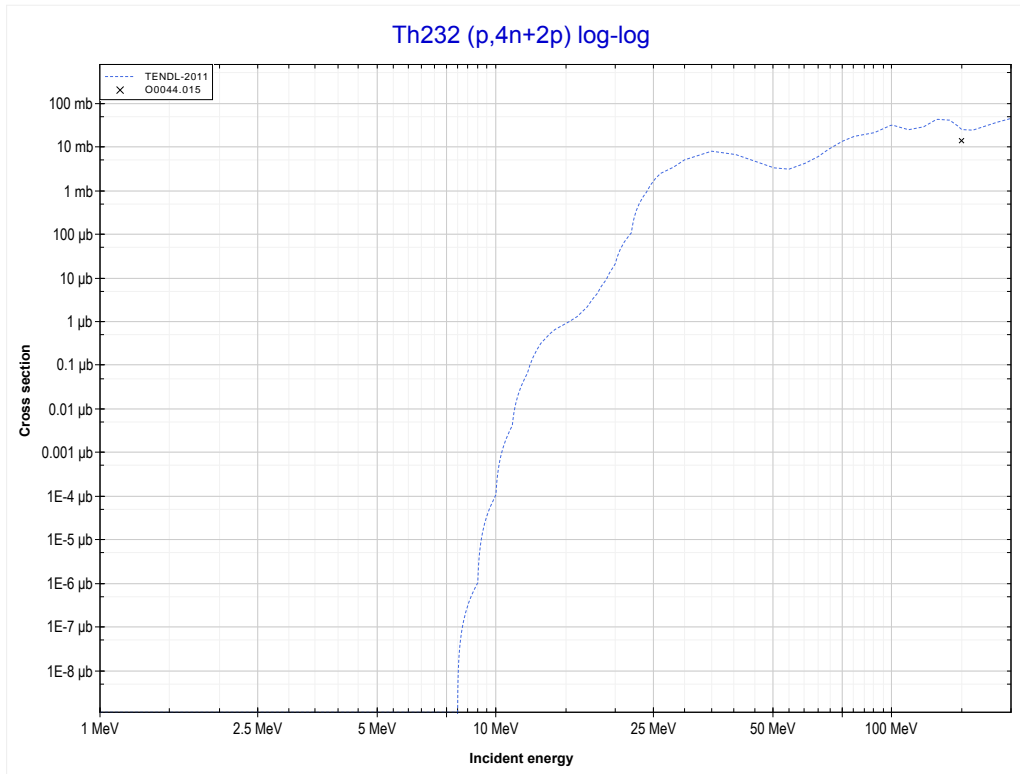


<< 31-Ga-69	<b>90-Th-232</b>	
<< MT164 (p,7n+p)	<b>MT179 (p,3n+2p) or MT5 (Ac228 production)</b>	MT194 (p,4n+2p) >>



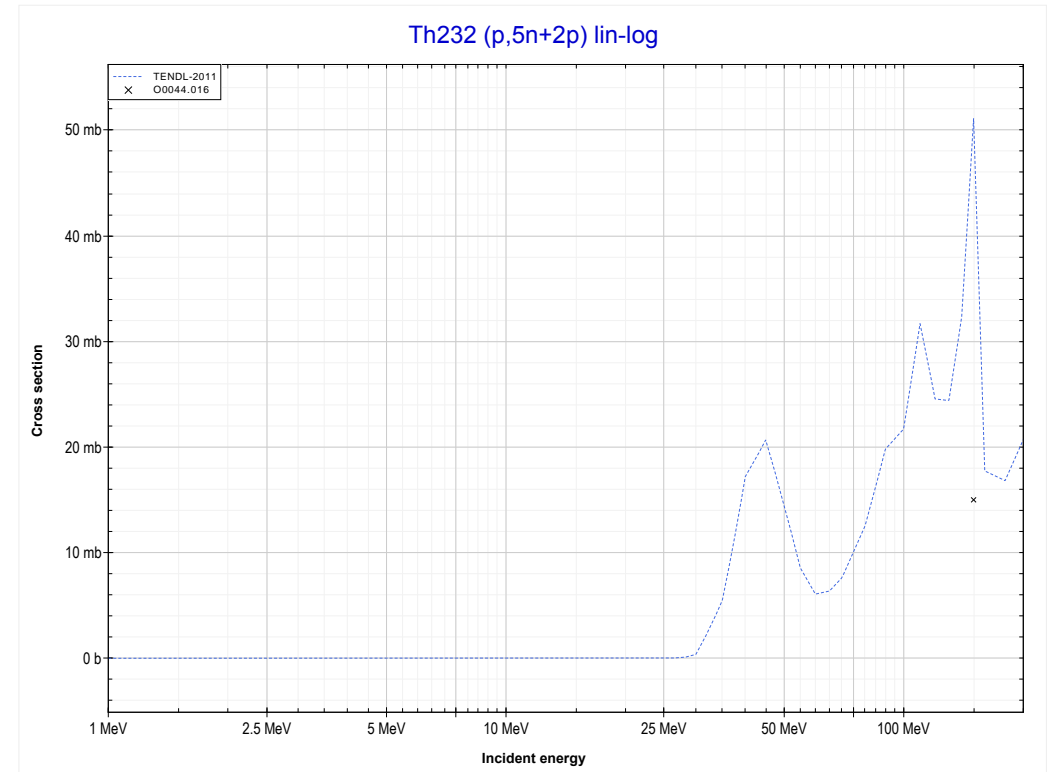
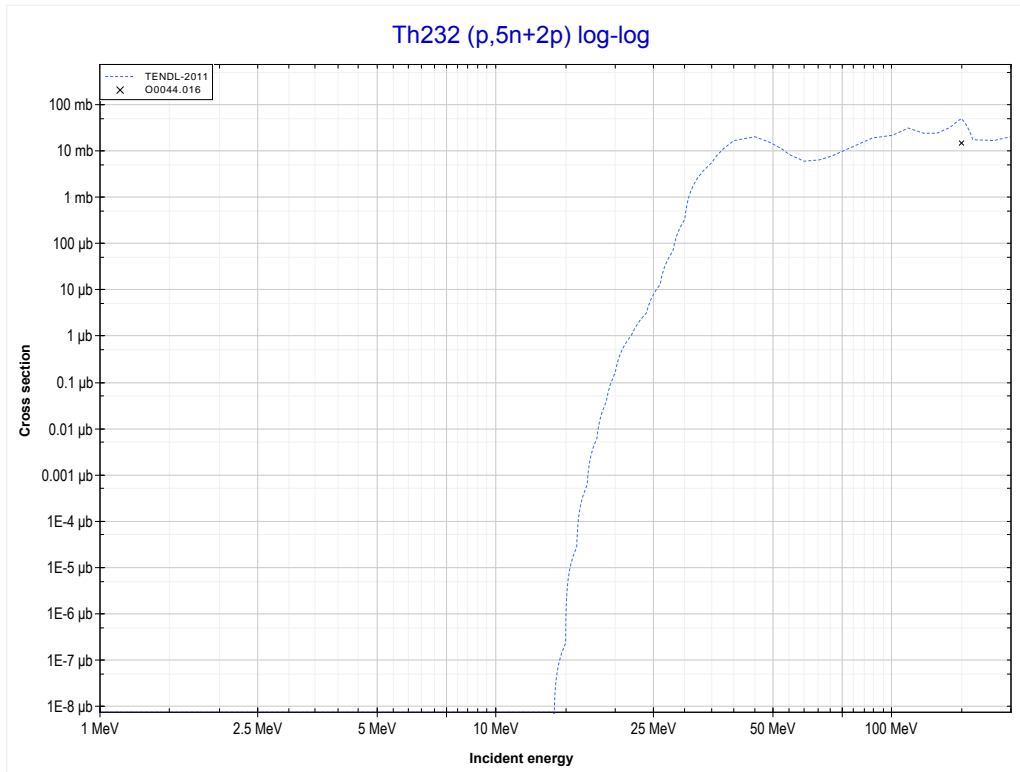
Reaction	Q-Value
Th232(p,n+α)Ac228	3345.04 keV
Th232(p,d+t)Ac228	-14244.26 keV
Th232(p,n+p+t)Ac228	-16468.82 keV
Th232(p,2n+He3)Ac228	-17232.58 keV
Th232(p,n+2d)Ac228	-20501.49 keV
Th232(p,2n+p+d)Ac228	-22726.06 keV
Th232(p,3n+2p)Ac228	-24950.62 keV

<< 22-Ti-48	<b>90-Th-232</b>	
<< MT179 (p,3n+2p)	<b>MT194 (p,4n+2p) or MT5 (Ac227 production)</b>	MT200 (p,5n+2p) >>



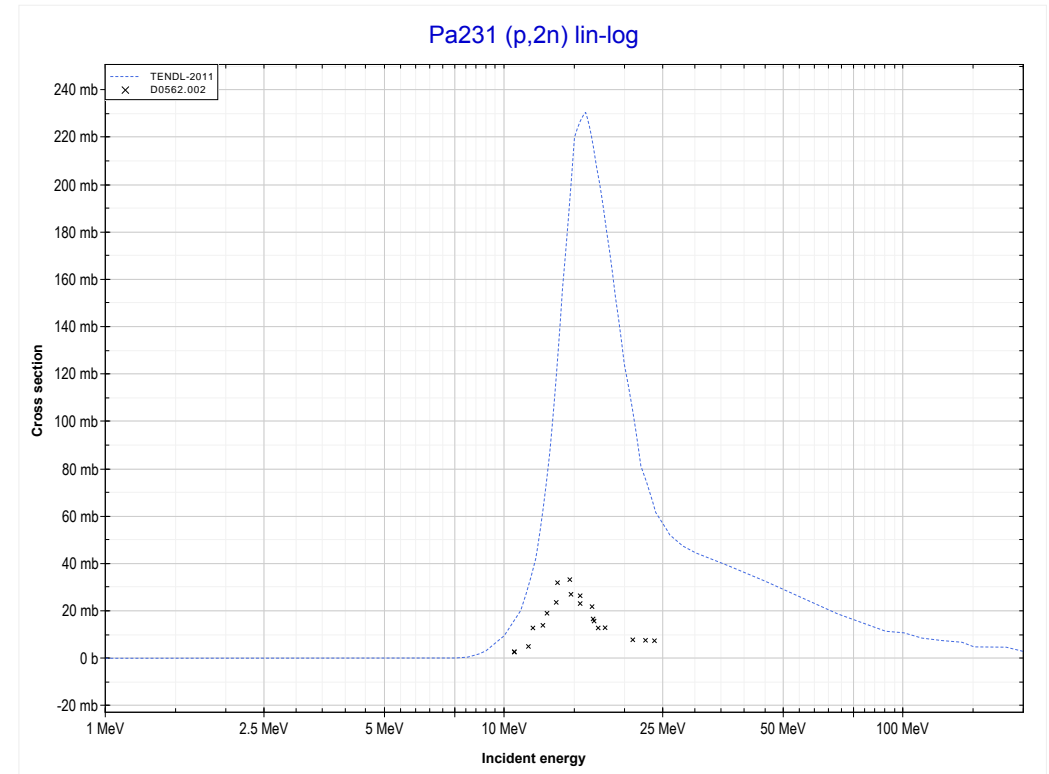
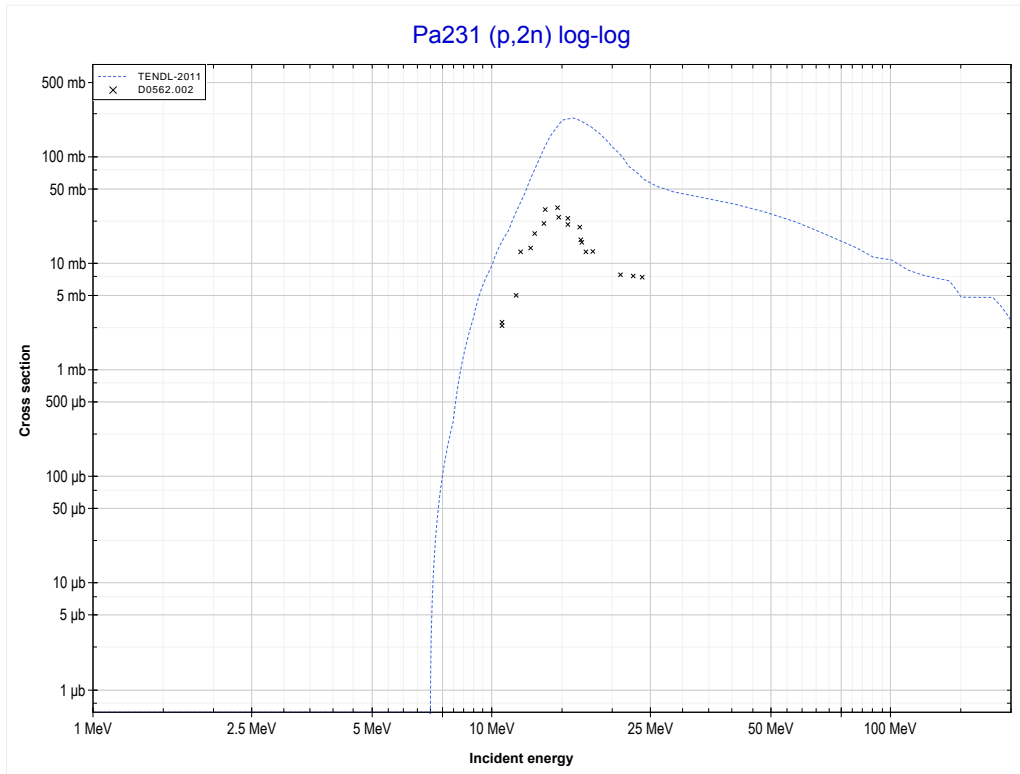
Reaction	Q-Value
Th232(p,2n+α)Ac227	-1681.18 keV
Th232(p,2t)Ac227	-13013.24 keV
Th232(p,n+d+t)Ac227	-19270.47 keV
Th232(p,2n+p+t)Ac227	-21495.04 keV
Th232(p,3n+He3)Ac227	-22258.80 keV
Th232(p,2n+2d)Ac227	-25527.71 keV
Th232(p,3n+p+d)Ac227	-27752.27 keV
Th232(p,4n+2p)Ac227	-29976.84 keV

<< 31-Ga-71	<b>90-Th-232</b>	
<< MT194 (p,4n+2p)	<b>MT200 (p,5n+2p) or MT5 (Ac226 production)</b>	MT16 (p,2n) >>



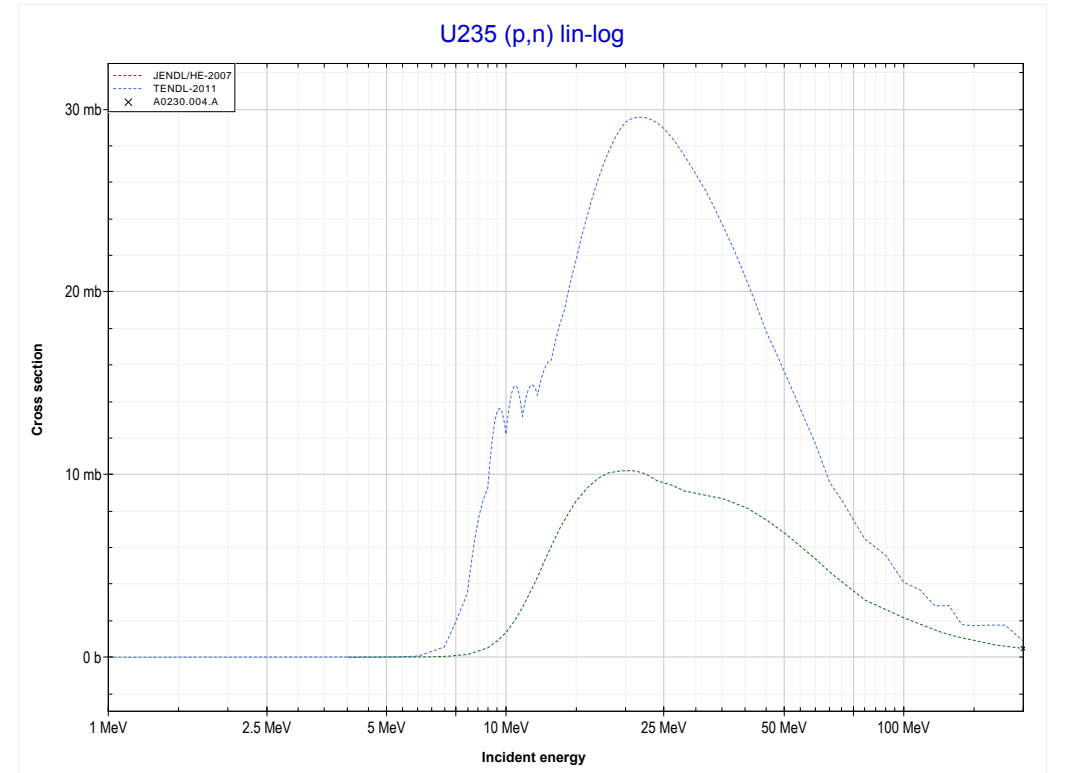
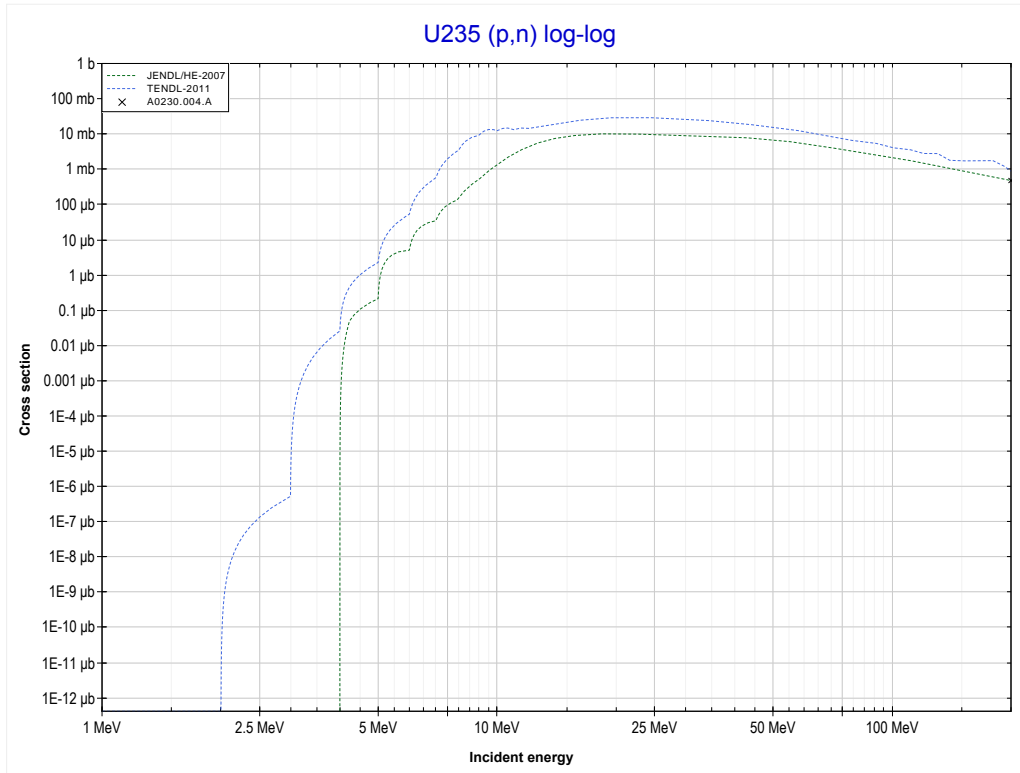
Reaction	Q-Value
Th232(p,3n+α)Ac226	-8211.60 keV
Th232(p,n+2t)Ac226	-19543.66 keV
Th232(p,2n+d+t)Ac226	-25800.89 keV
Th232(p,3n+p+t)Ac226	-28025.46 keV
Th232(p,4n+He3)Ac226	-28789.21 keV
Th232(p,3n+2d)Ac226	-32058.12 keV
Th232(p,4n+p+d)Ac226	-34282.69 keV
Th232(p,5n+2p)Ac226	-36507.26 keV

<< 90-Th-232	<b>91-Pa-231</b>	92-U-235 >>
<< MT200 (p,5n+2p)	<b>MT16 (p,2n) or MT5 (U230 production)</b>	MT4 (p,n) >>



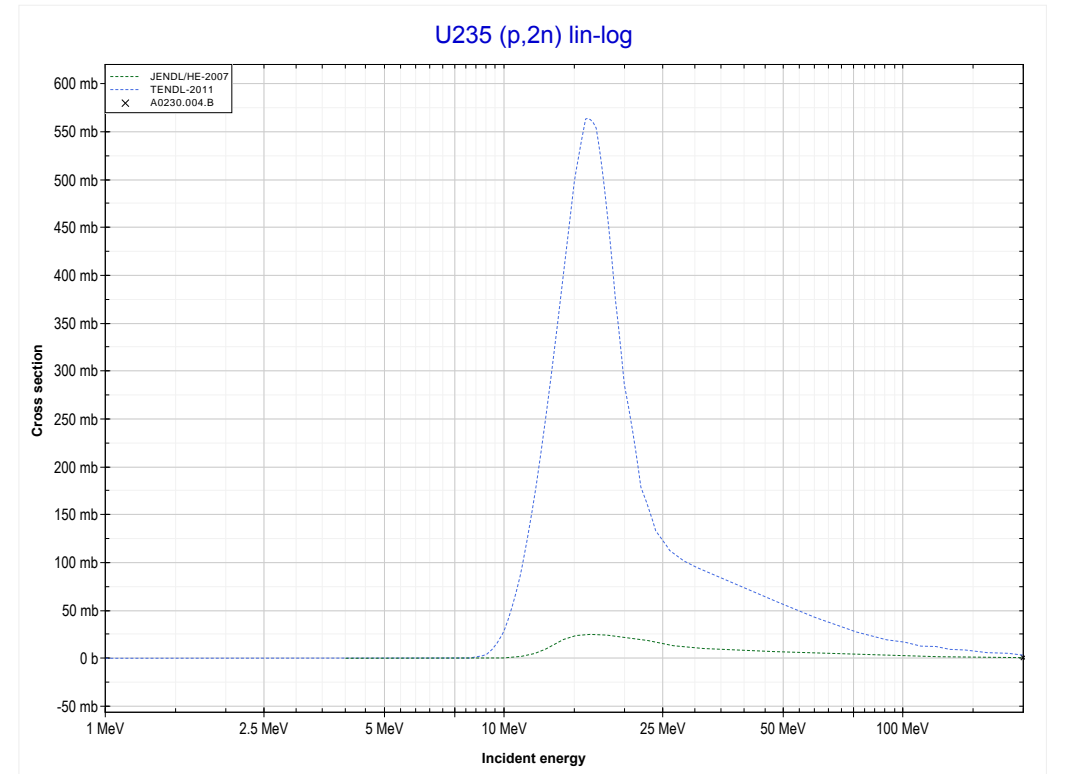
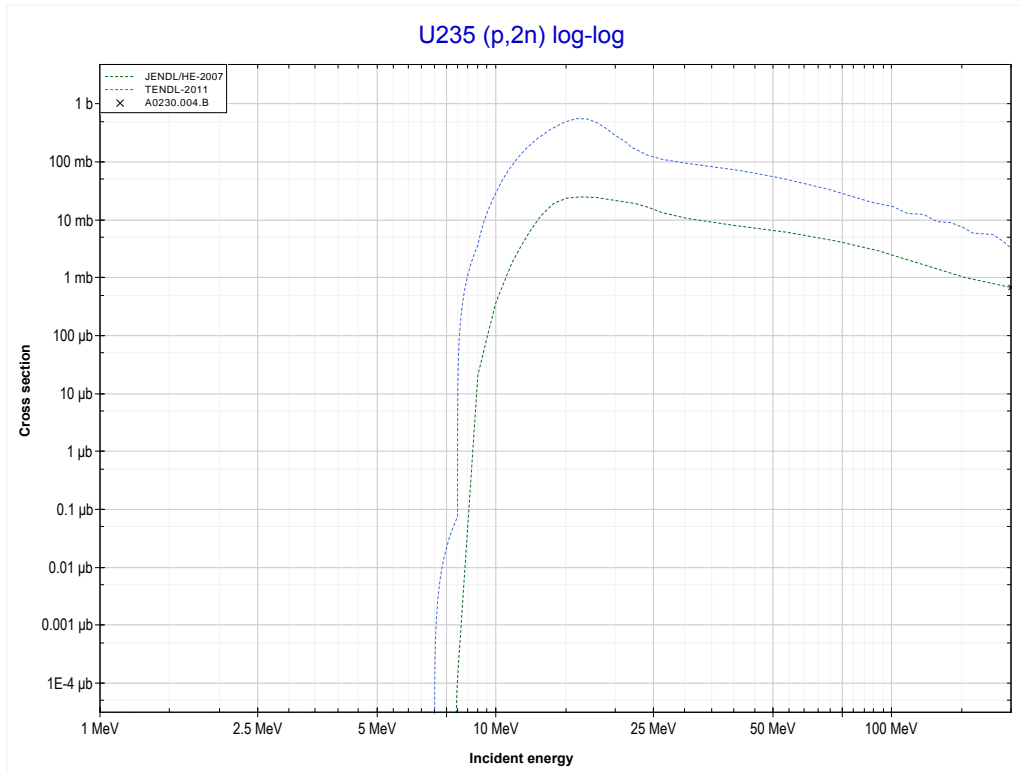
Reaction	Q-Value
Pa231(p,2n)U230	-7042.96 keV

<< 90-Th-232	<b>92-U-235</b>	92-U-236 >>
<< MT16 (p,2n)	<b>MT4 (p,n) or MT5 (Np235 production)</b>	MT16 (p,2n) >>



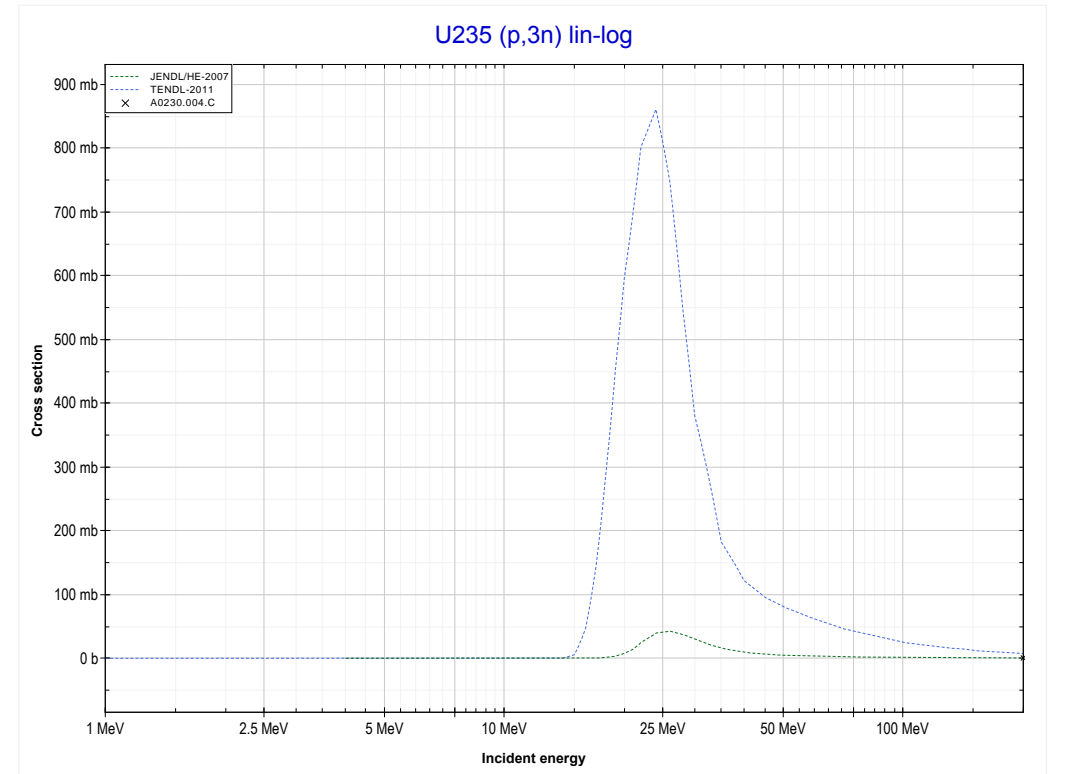
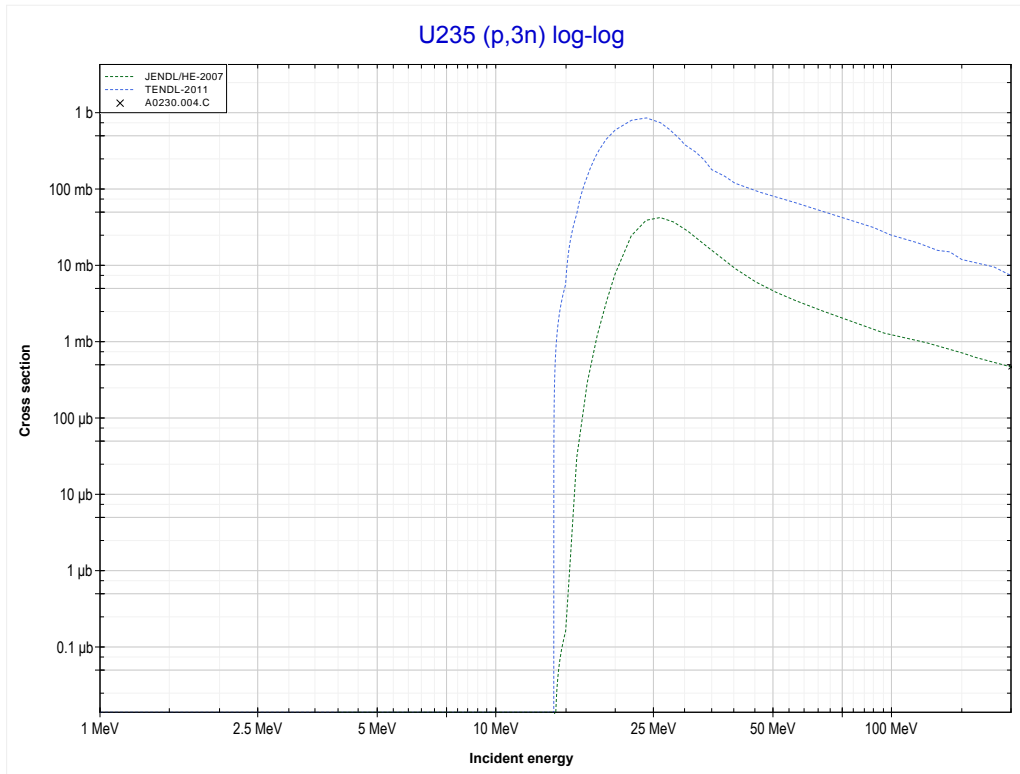
Reaction	Q-Value
U235(p,n)Np235	-906.55 keV

<< 91-Pa-231	<b>92-U-235</b>	92-U-236 >>
<< MT4 (p,n)	<b>MT16 (p,2n) or MT5 (Np234 production)</b>	MT17 (p,3n) >>



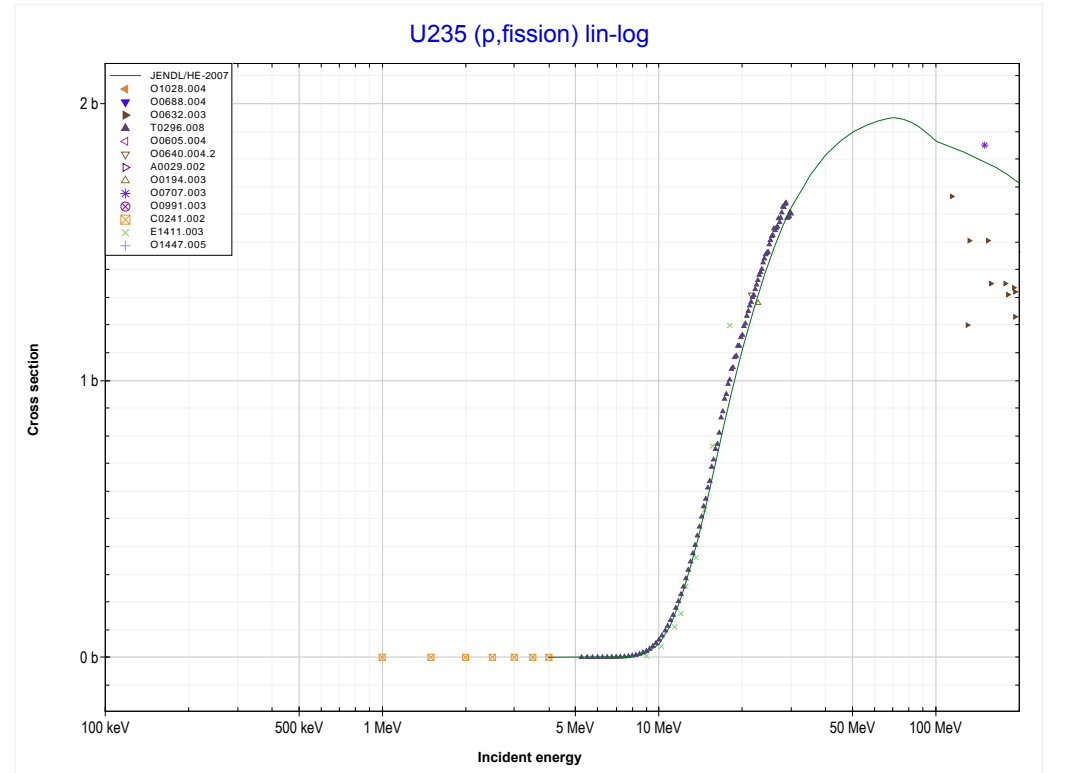
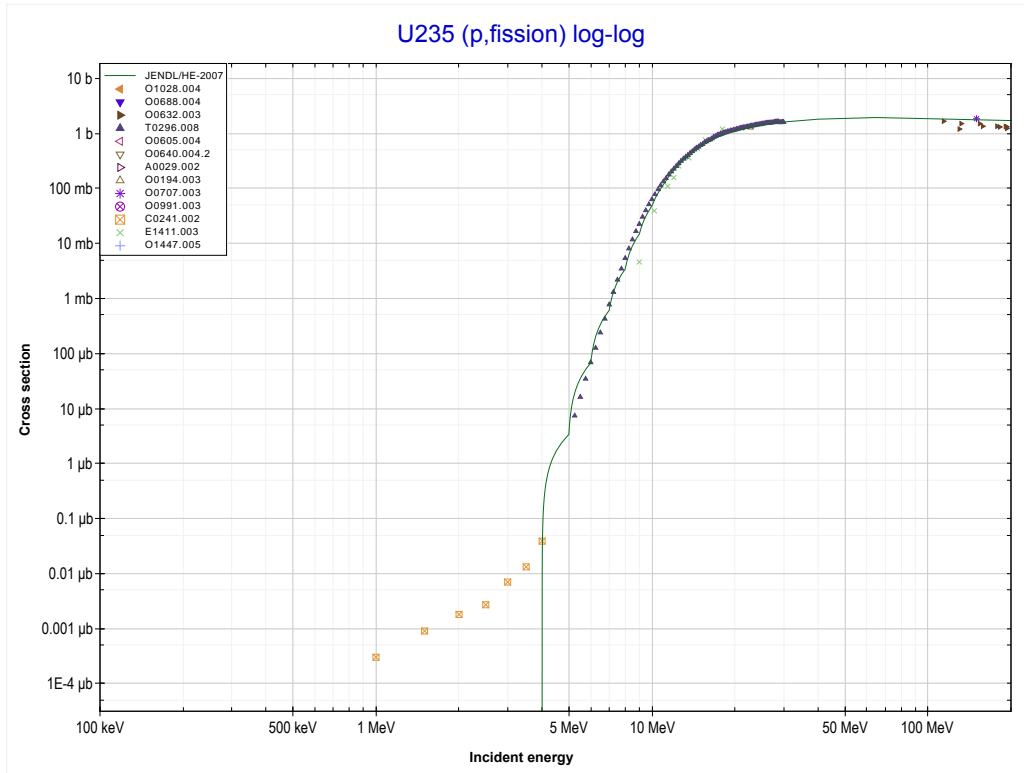
Reaction	Q-Value
U235(p,2n)Np234	-7889.16 keV

<< 90-Th-232	<b>92-U-235</b>	92-U-236 >>
<< MT16 (p,2n)	<b>MT17 (p,3n) or MT5 (Np233 production)</b>	MT18 (p,fission) >>



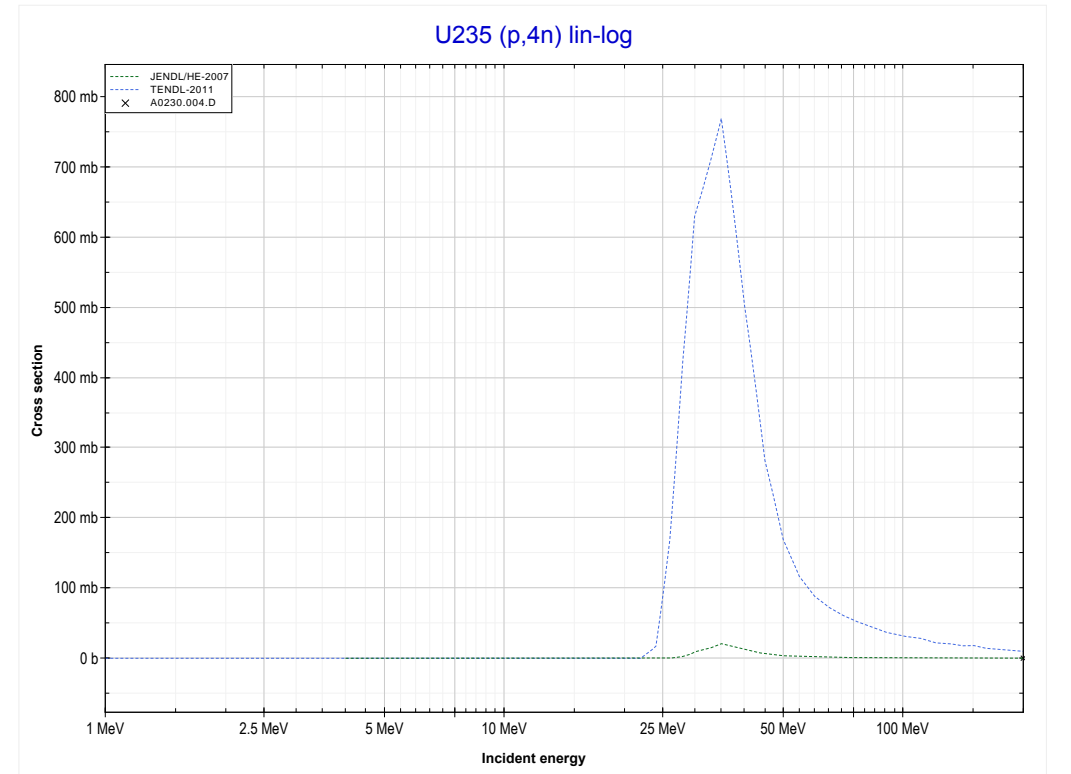
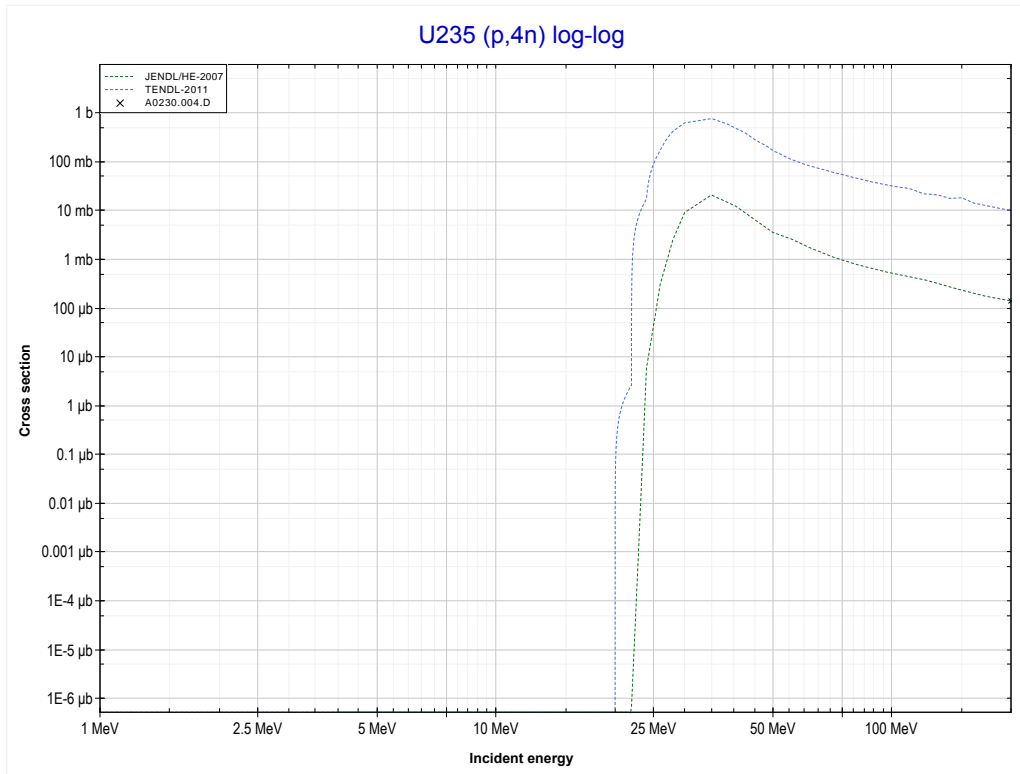
Reaction	Q-Value
U235(p,3n)Np233	-13954.48 keV

<< 83-Bi-209	<b>92-U-235</b>	92-U-238 >>
<< MT17 (p,3n)	<b>MT18 (p,fission)</b>	MT37 (p,4n) >>



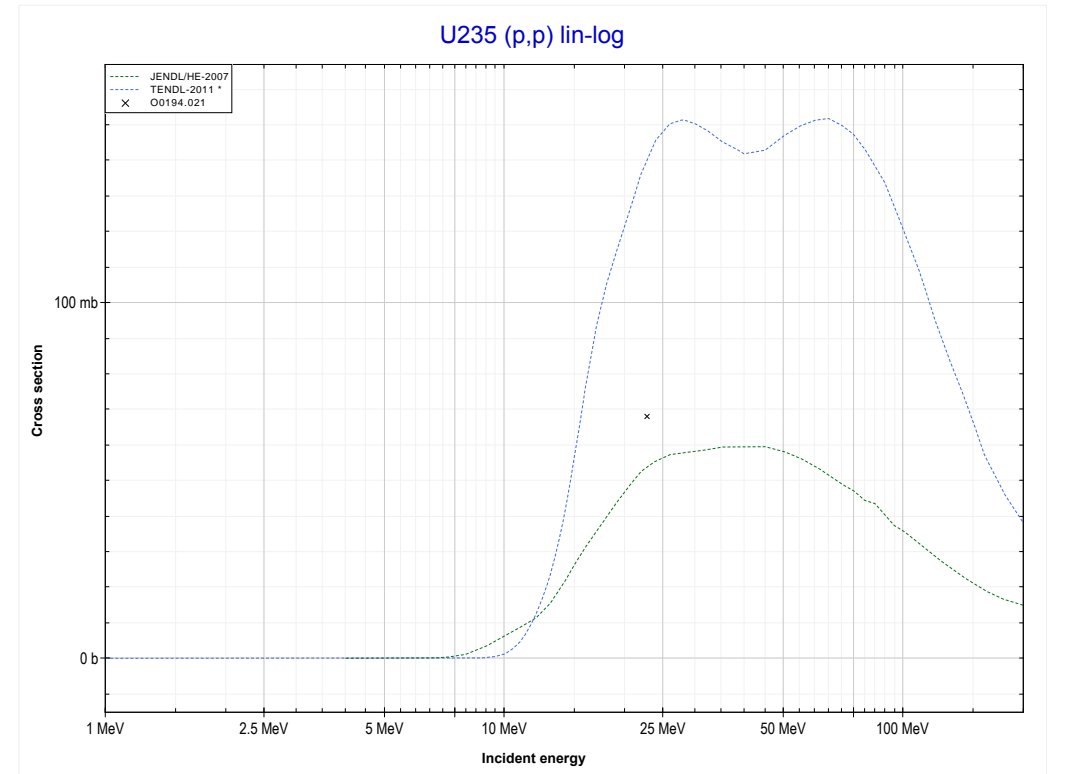
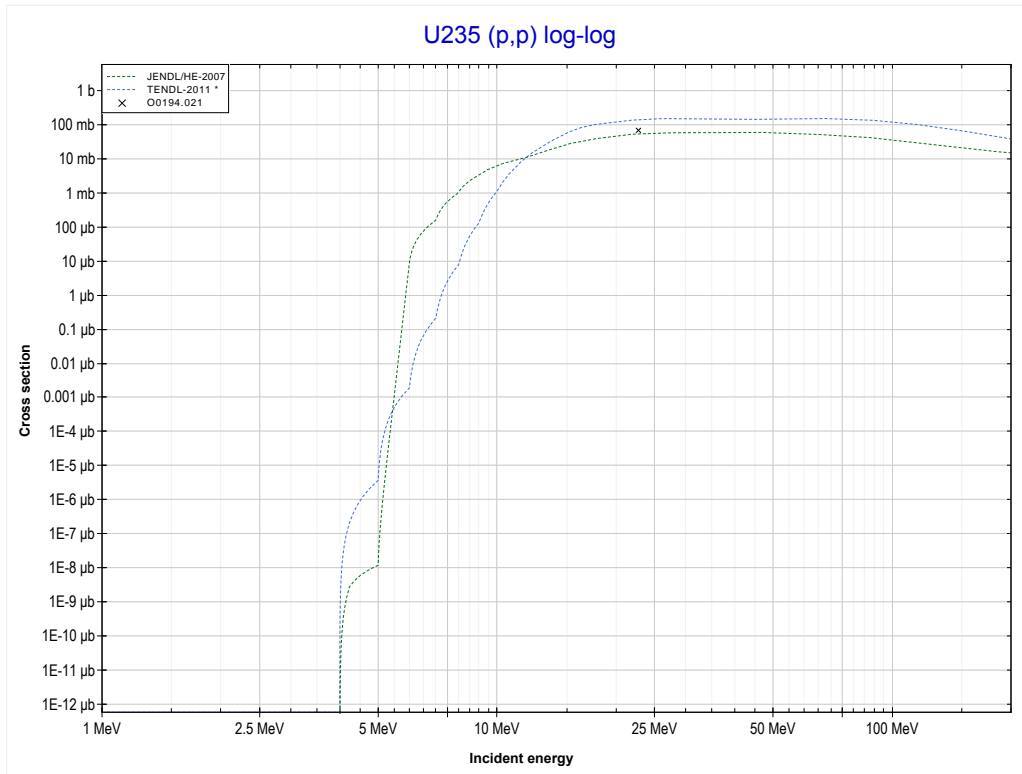


<< 90-Th-232	<b>92-U-235</b>	92-U-238 >>
<< MT18 (p,fission)	<b>MT37 (p,4n) or MT5 (Np232 production)</b>	MT103 (p,p) >>



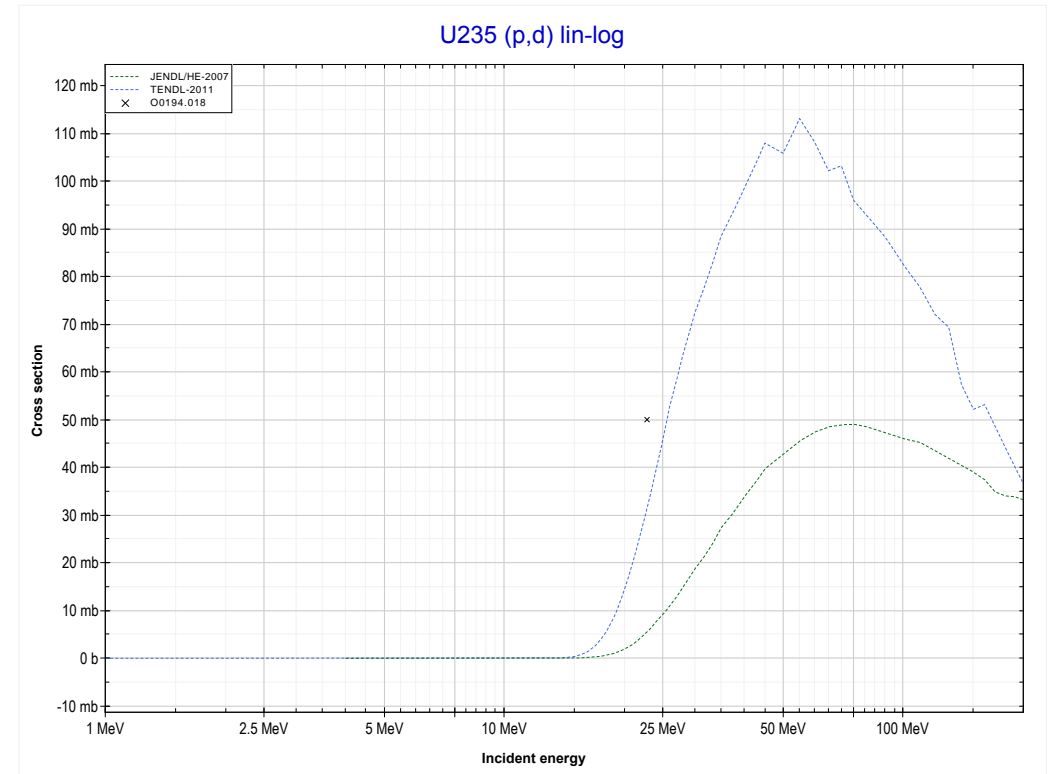
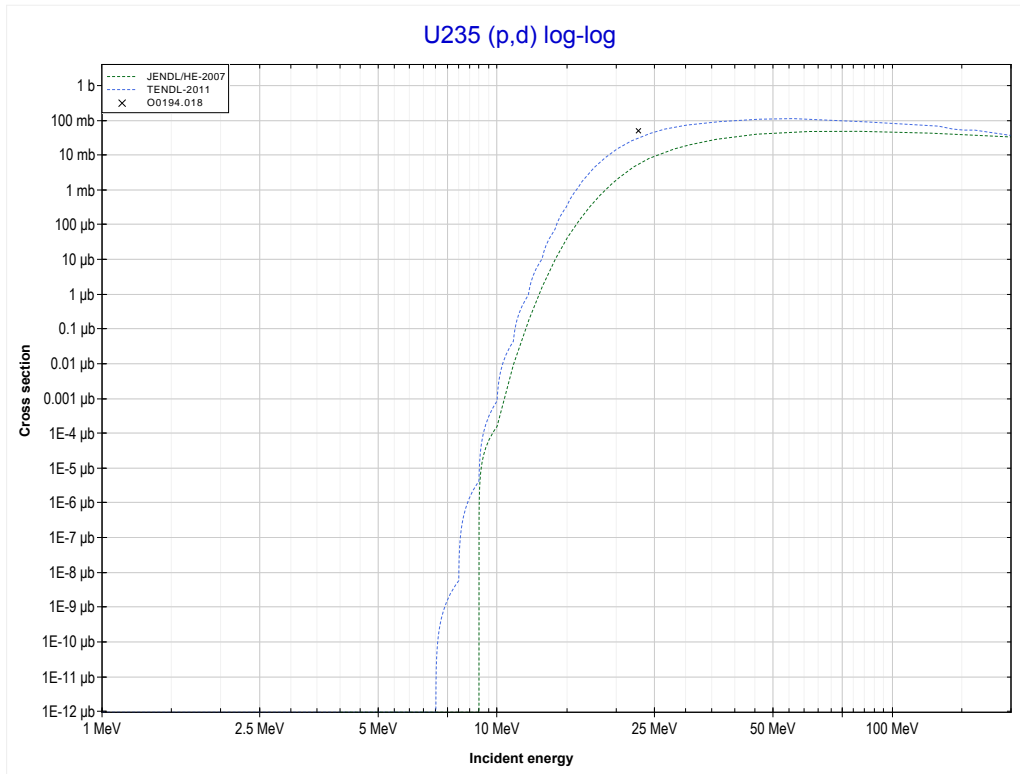
Reaction	Q-Value
U235(p,4n)Np232	-21435.80 keV

<< 67-Ho-165	<b>92-U-235</b>	92-U-238 >>
<< MT37 (p,4n)	<b>MT103 (p,p) or MT5 (U235 production)</b>	MT104 (p,d) >>



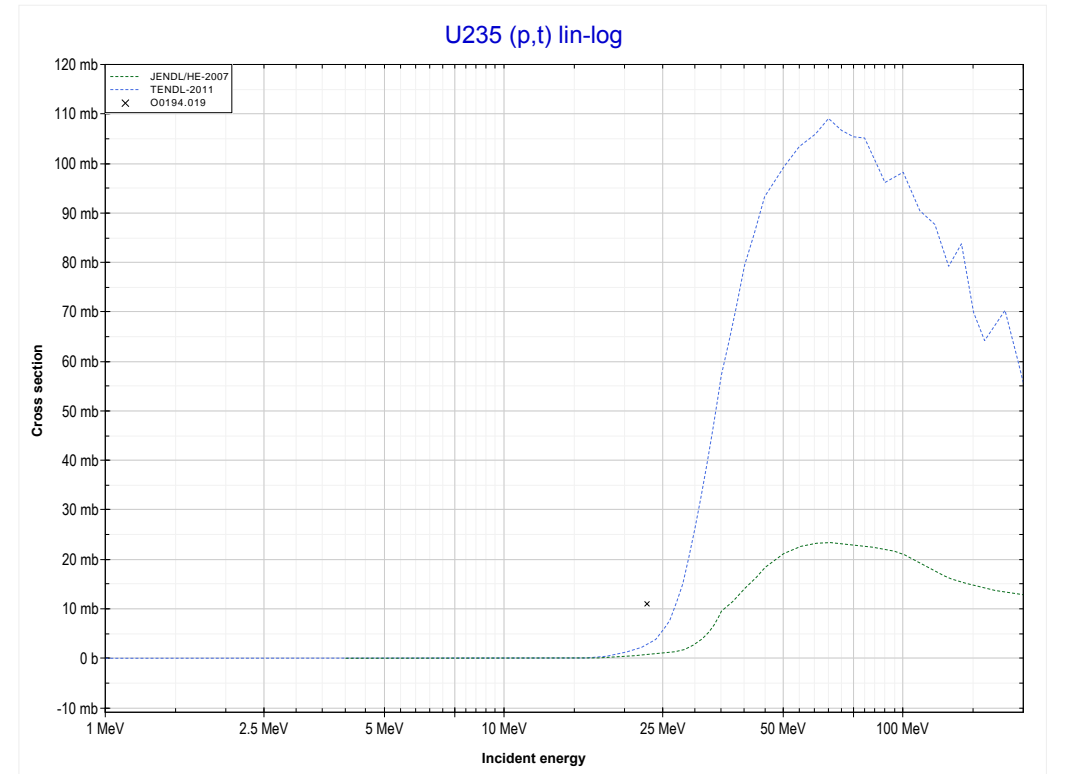
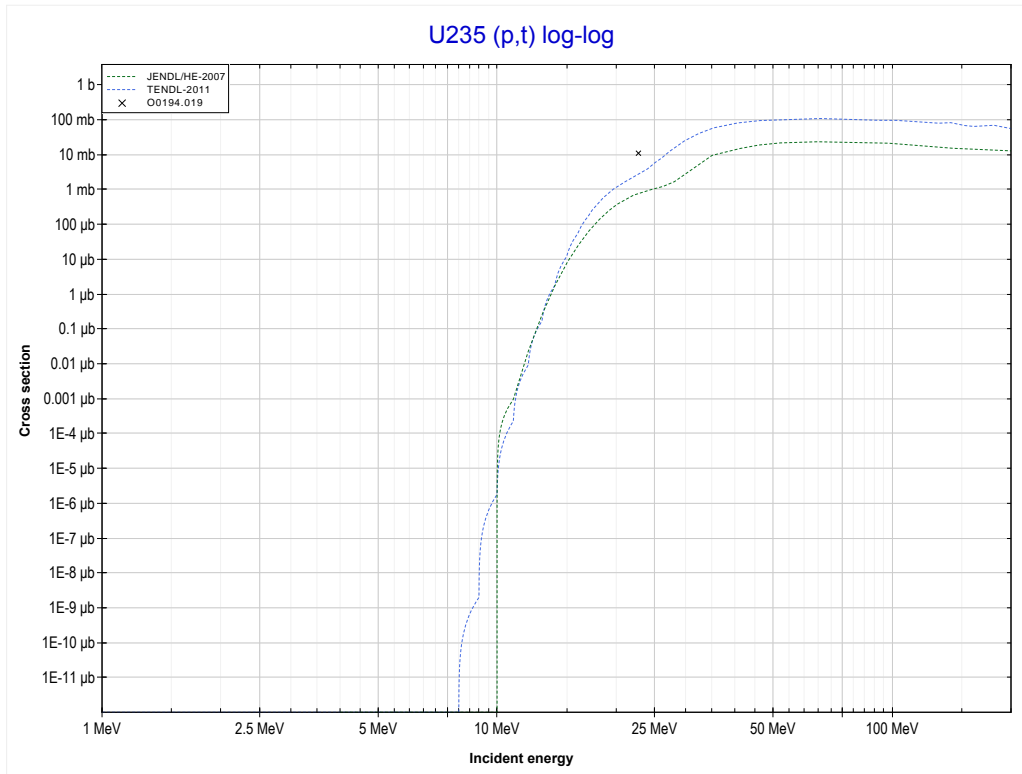
Reaction	Q-Value
U235(p,p)U235	0.00 keV

<< 90-Th-232	<b>92-U-235</b>	92-U-238 >>
<< MT103 (p,p)	<b>MT104 (p,d) or MT5 (U234 production)</b>	MT105 (p,t) >>



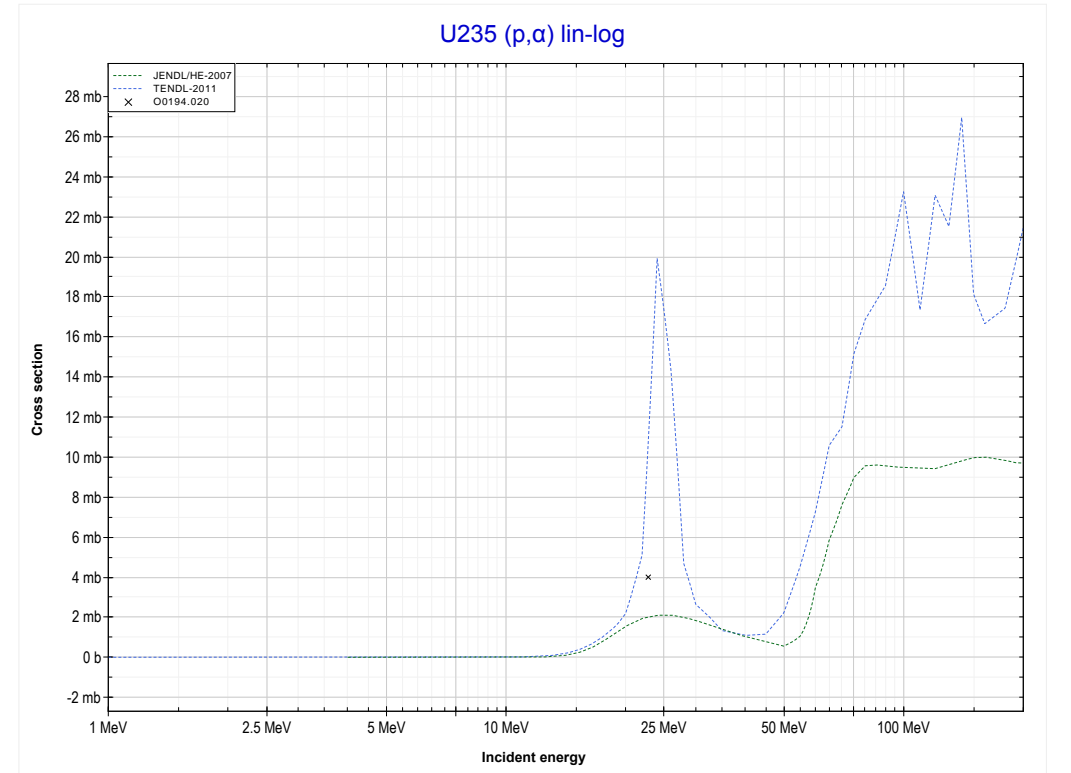
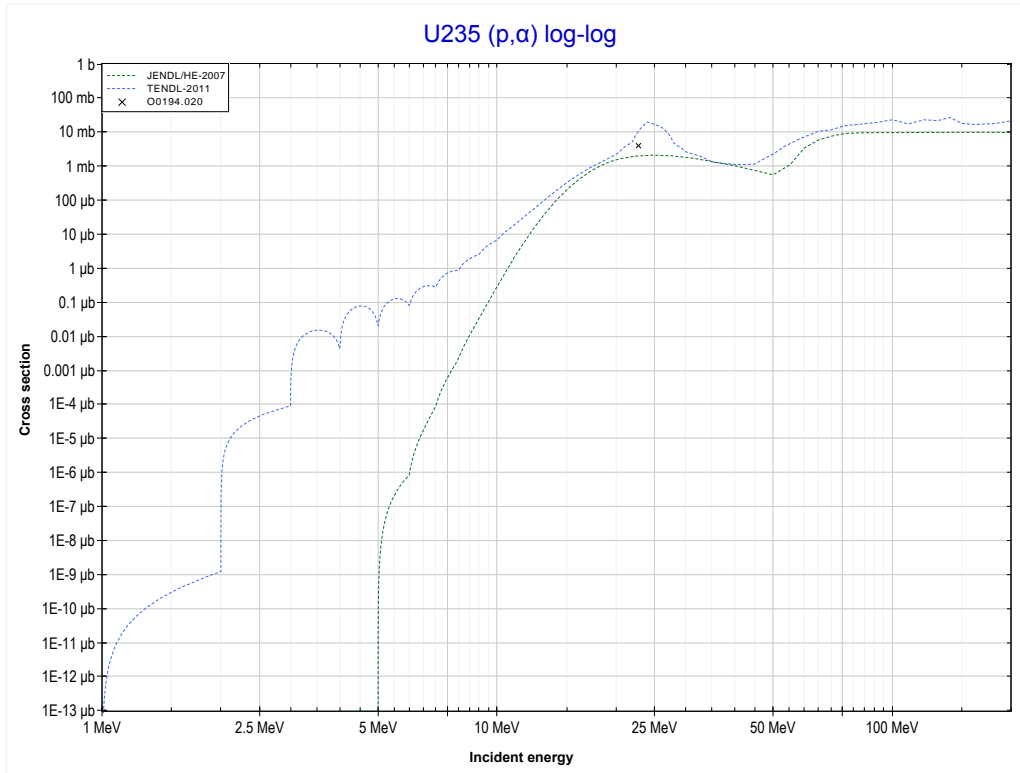
Reaction	Q-Value
U235(p,d)U234	-3072.85 keV
U235(p,n+p)U234	-5297.42 keV

<< 26-Fe-54	<b>92-U-235</b>	92-U-238 >>
<< MT104 (p,d)	<b>MT105 (p,t) or MT5 (U233 production)</b>	MT107 (p, $\alpha$ ) >>



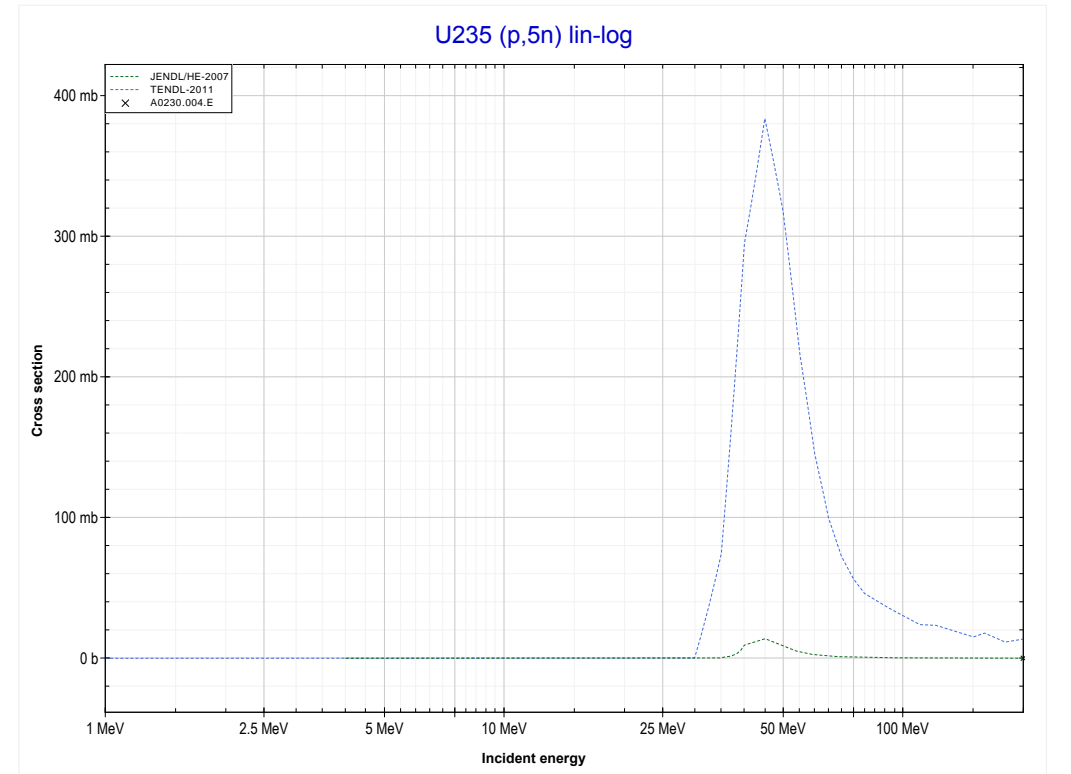
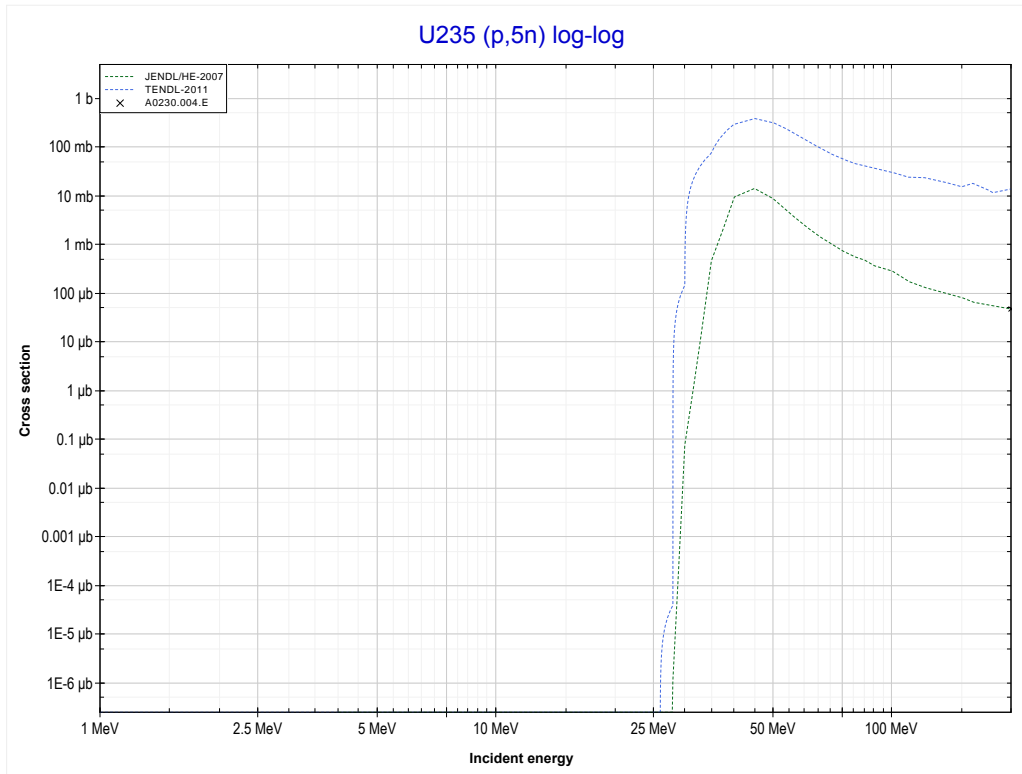
Reaction	Q-Value
U235(p,t)U233	-3660.34 keV
U235(p,n+d)U233	-9917.57 keV
U235(p,2n+p)U233	-12142.13 keV

<< 90-Th-232	<b>92-U-235</b>	92-U-238 >>
<< MT105 (p,t)	<b>MT107 (p,<math>\alpha</math>) or MT5 (Pa232 production)</b>	MT152 (p,5n) >>



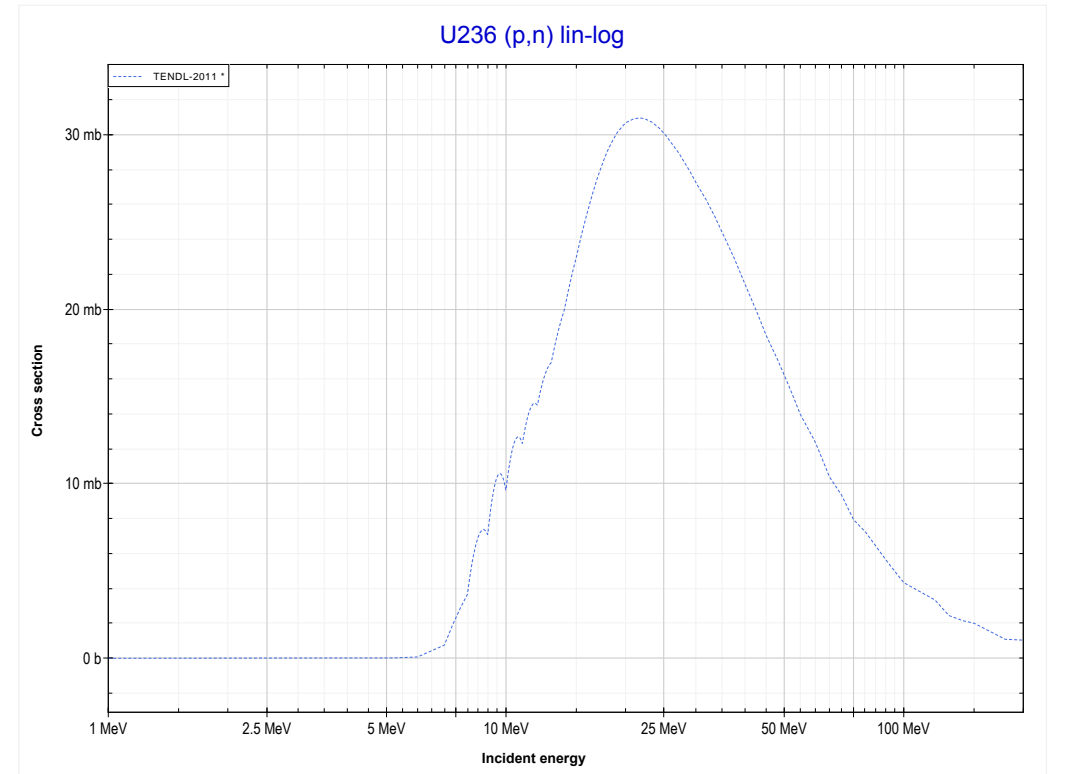
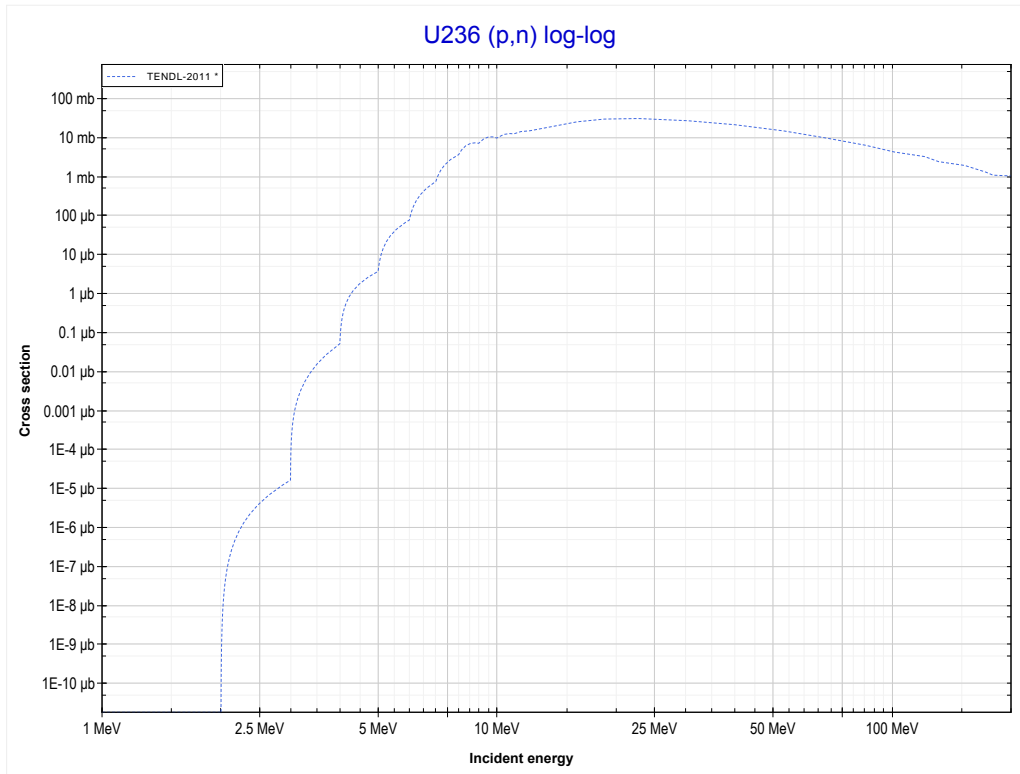
Reaction	Q-Value
U235(p, $\alpha$ )Pa232	9836.55 keV
U235(p,p+t)Pa232	-9977.31 keV
U235(p,n+He3)Pa232	-10741.06 keV
U235(p,2d)Pa232	-14009.97 keV
U235(p,n+p+d)Pa232	-16234.54 keV
U235(p,2n+2p)Pa232	-18459.10 keV

<< 90-Th-232	<b>92-U-235</b>	92-U-238 >>
<< MT107 (p, $\alpha$ )	<b>MT152 (p,5n) or MT5 (Np231 production)</b>	MT4 (p,n) >>



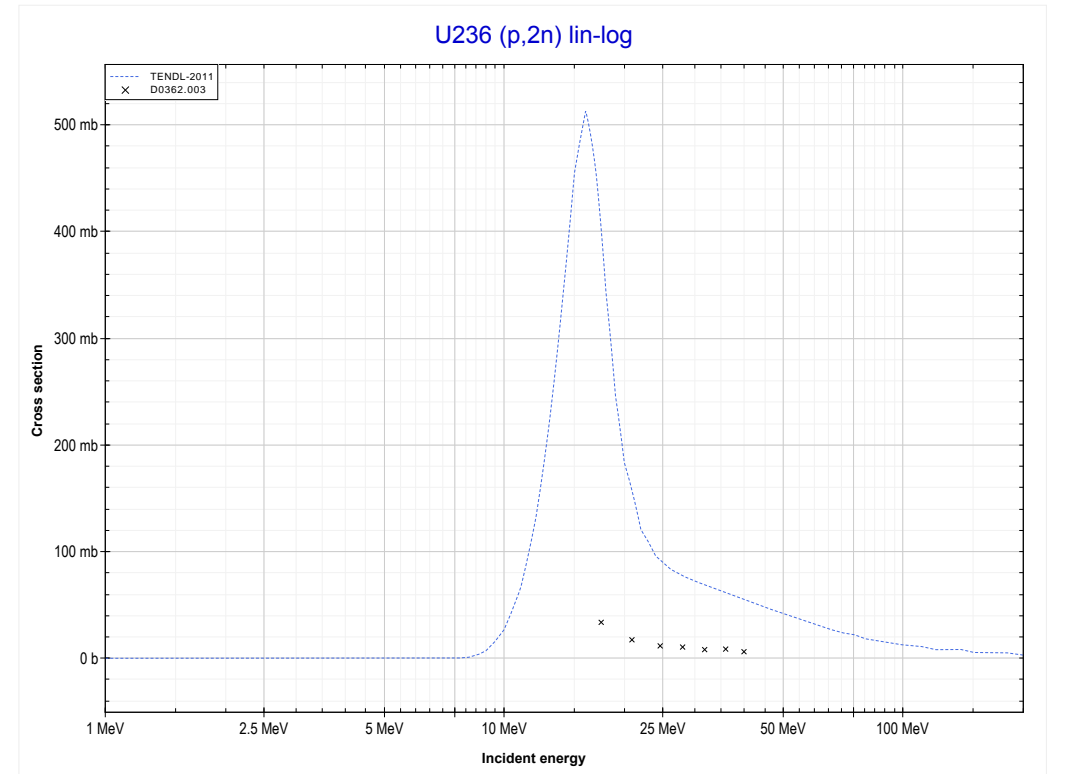
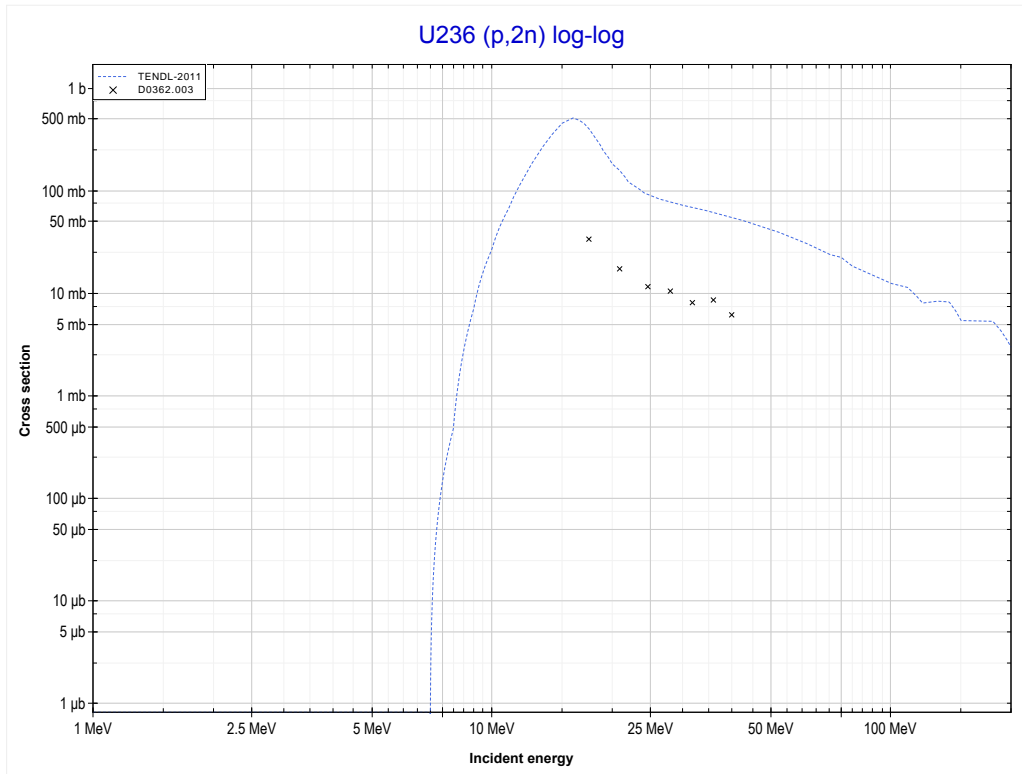
Reaction	Q-Value
U235(p,5n)Np231	-27777.11 keV

<< 92-U-235	<b>92-U-236</b>	92-U-238 >>
<< MT152 (p,5n)	<b>MT4 (p,n) or MT5 (Np236 production)</b>	MT16 (p,2n) >>



Reaction	Q-Value
U236(p,n)Np236	-1716.05 keV

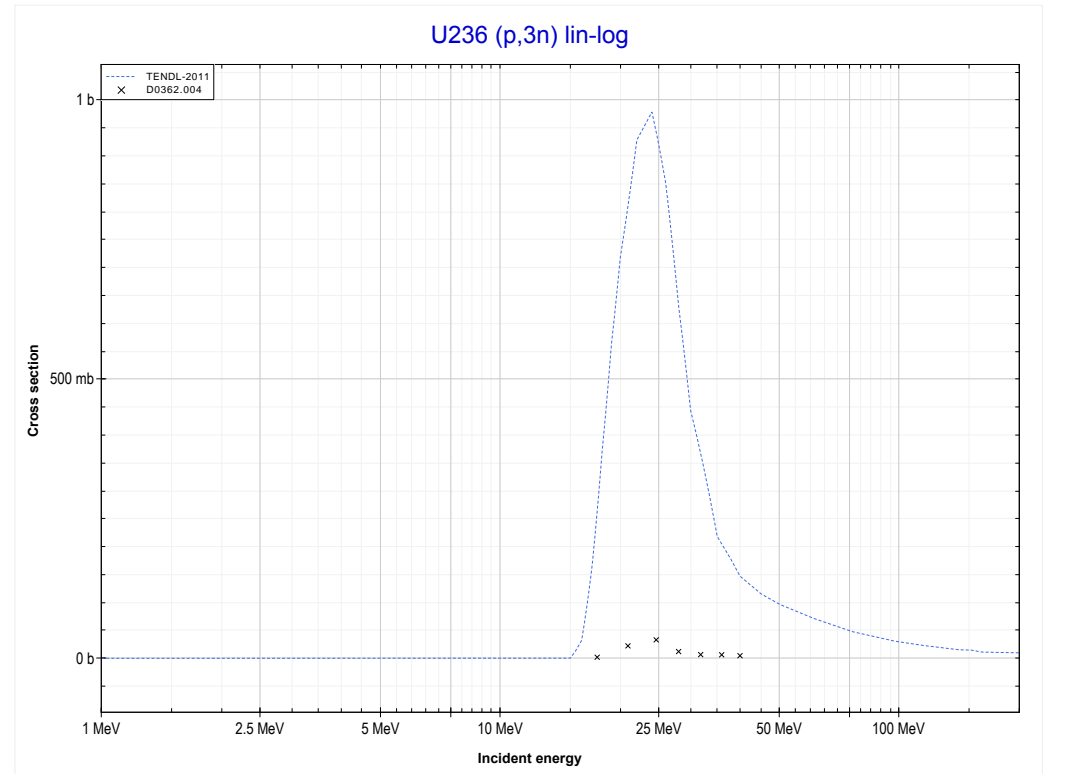
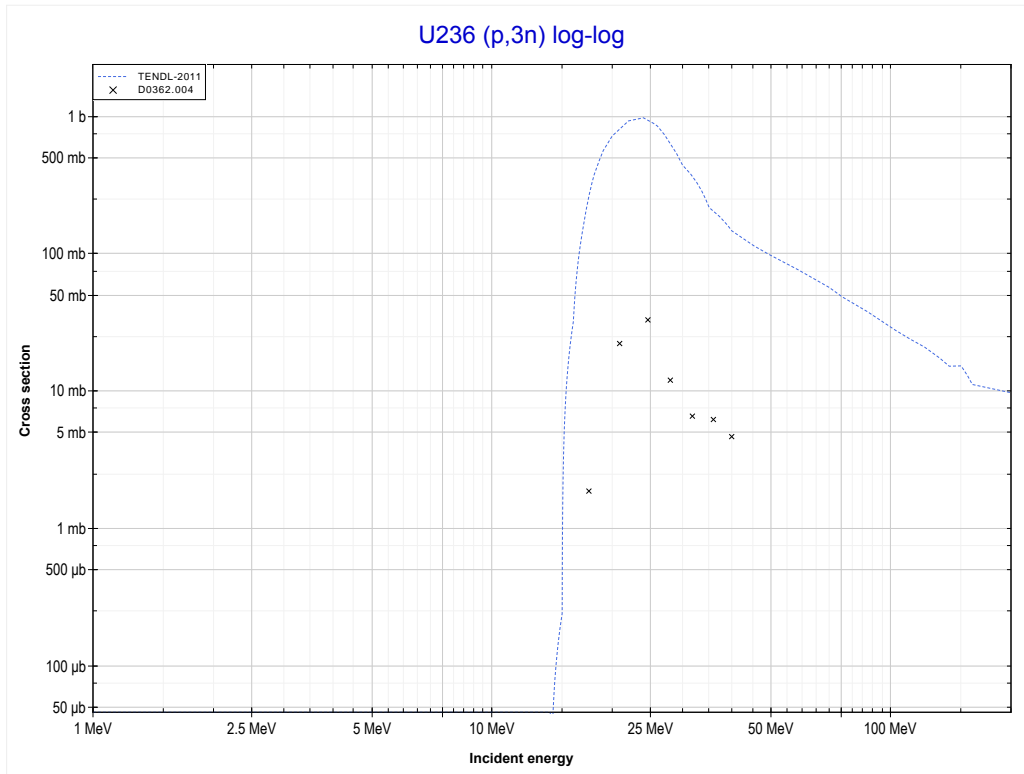
<< 92-U-235	<b>92-U-236</b>	95-Am-241 >>
<< MT4 (p,n)	<b>MT16 (p,2n) or MT5 (Np235 production)</b>	MT17 (p,3n) >>



Reaction	Q-Value
U236(p,2n)Np235	-7452.06 keV

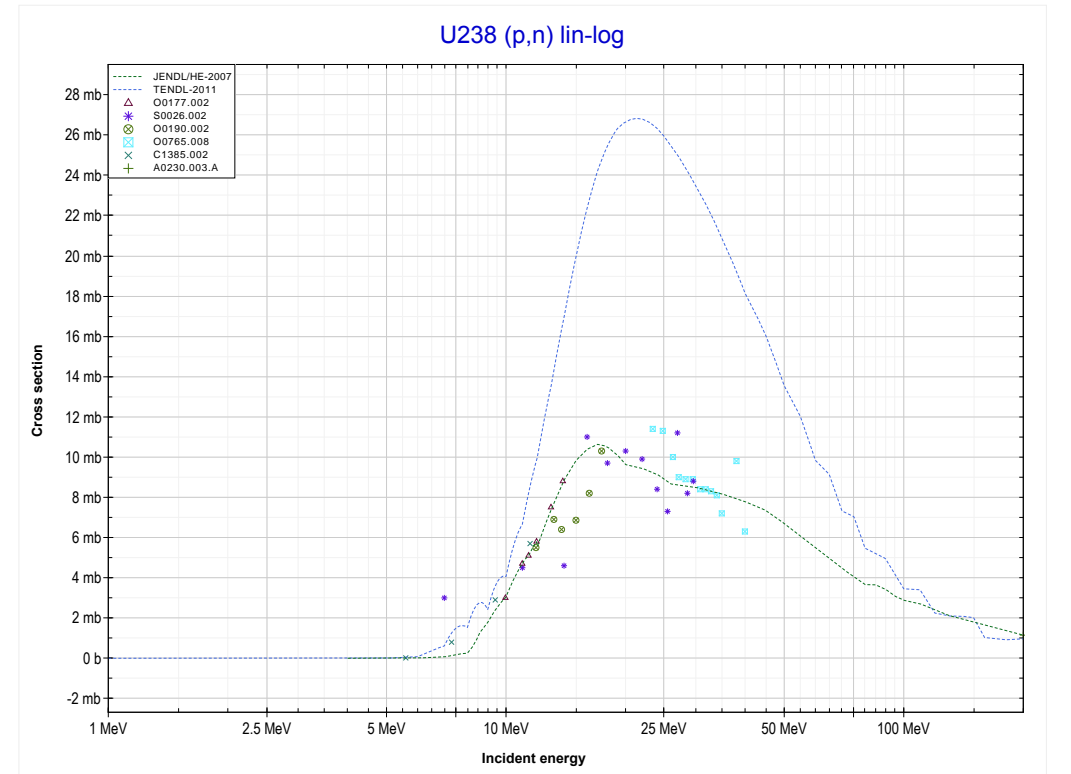
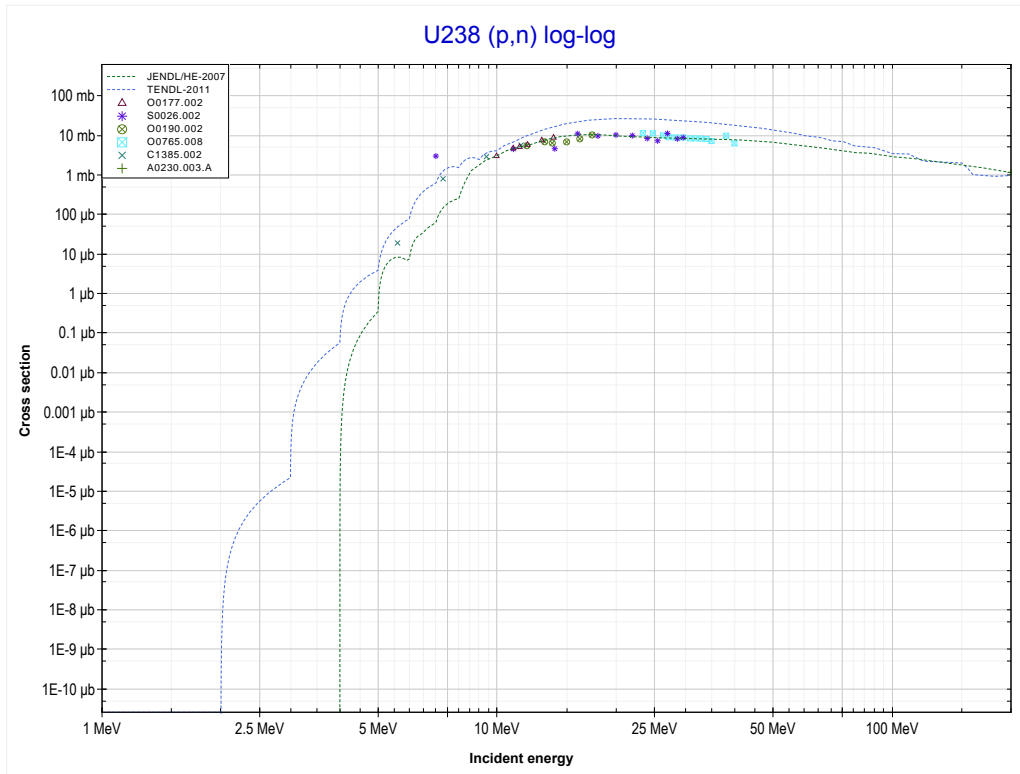


<< 92-U-235	<b>92-U-236</b>	92-U-238 >>
<< MT16 (p,2n)	<b>MT17 (p,3n) or MT5 (Np234 production)</b>	MT4 (p,n) >>



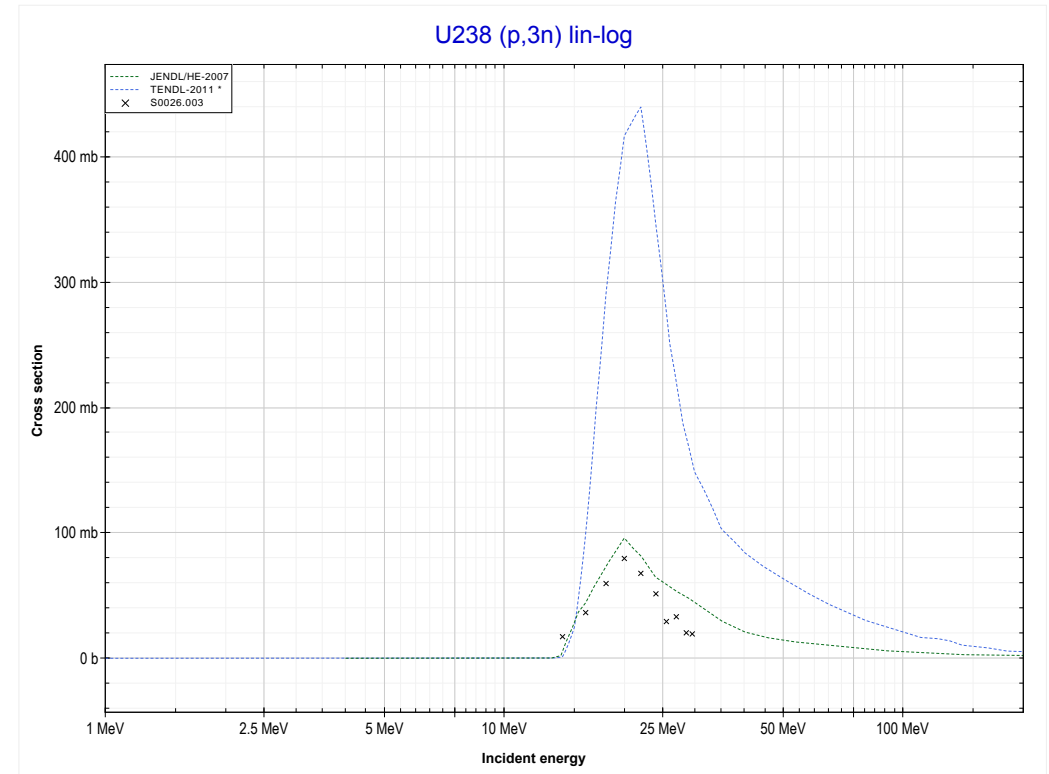
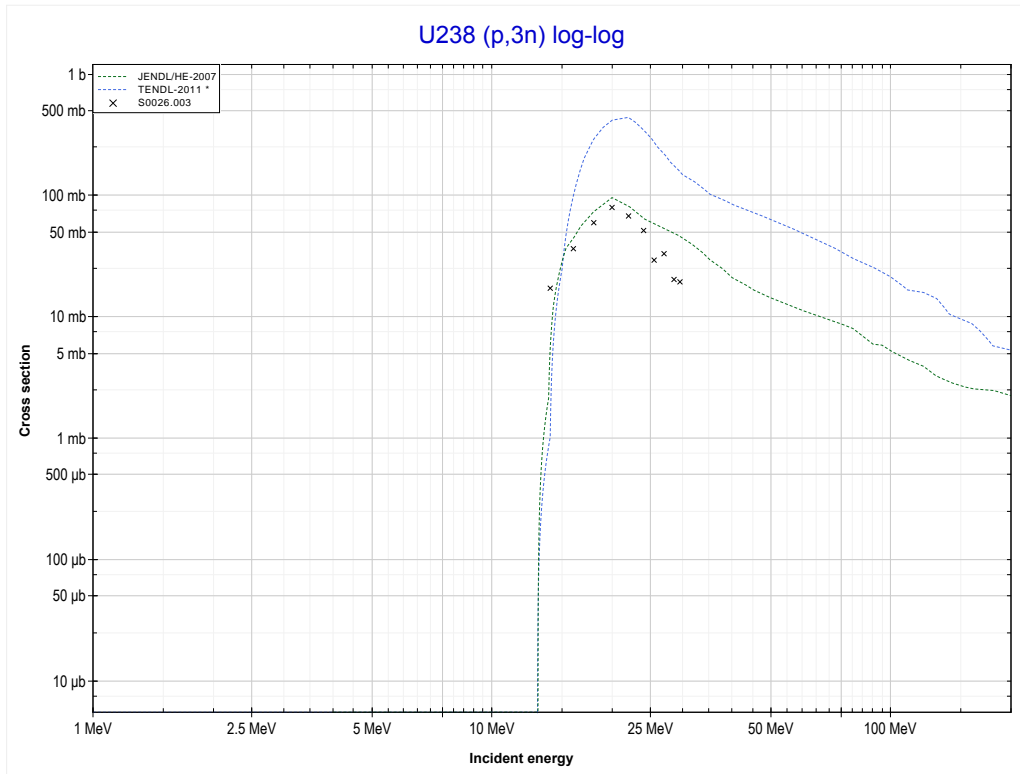
Reaction	Q-Value
U236(p,3n)Np234	-14434.68 keV

<< 92-U-236	<b>92-U-238</b>	93-Np-237 >>
<< MT17 (p,3n)	<b>MT4 (p,n) or MT5 (Np238 production)</b>	MT17 (p,3n) >>



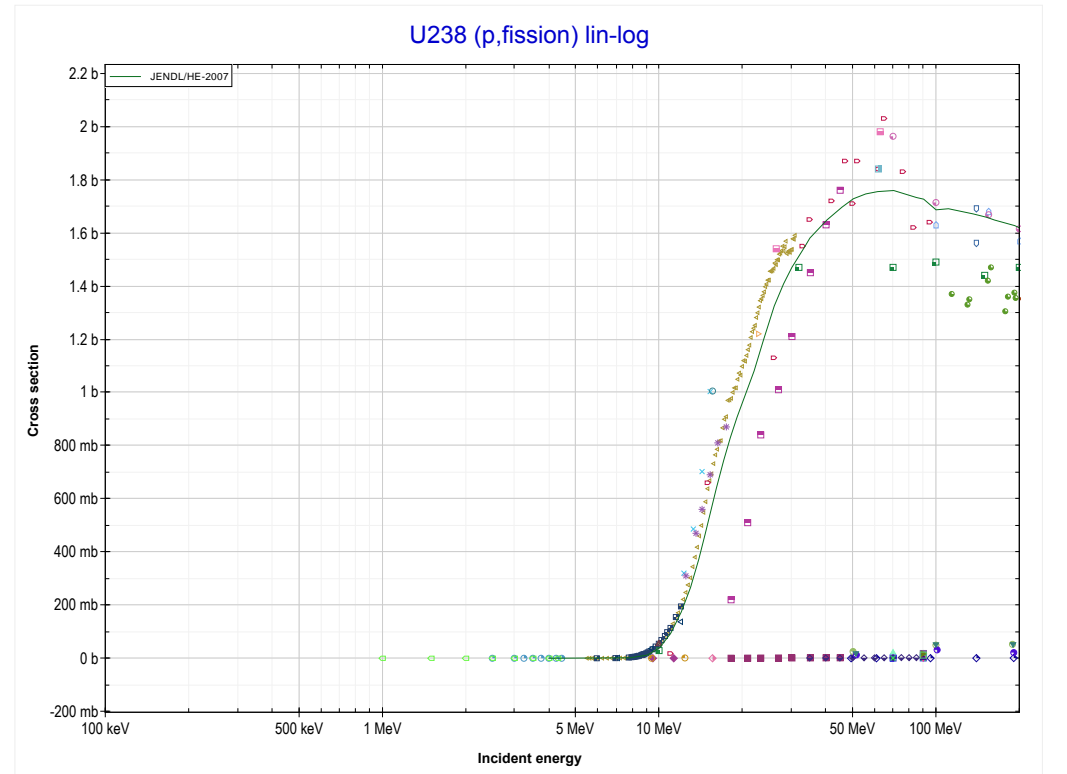
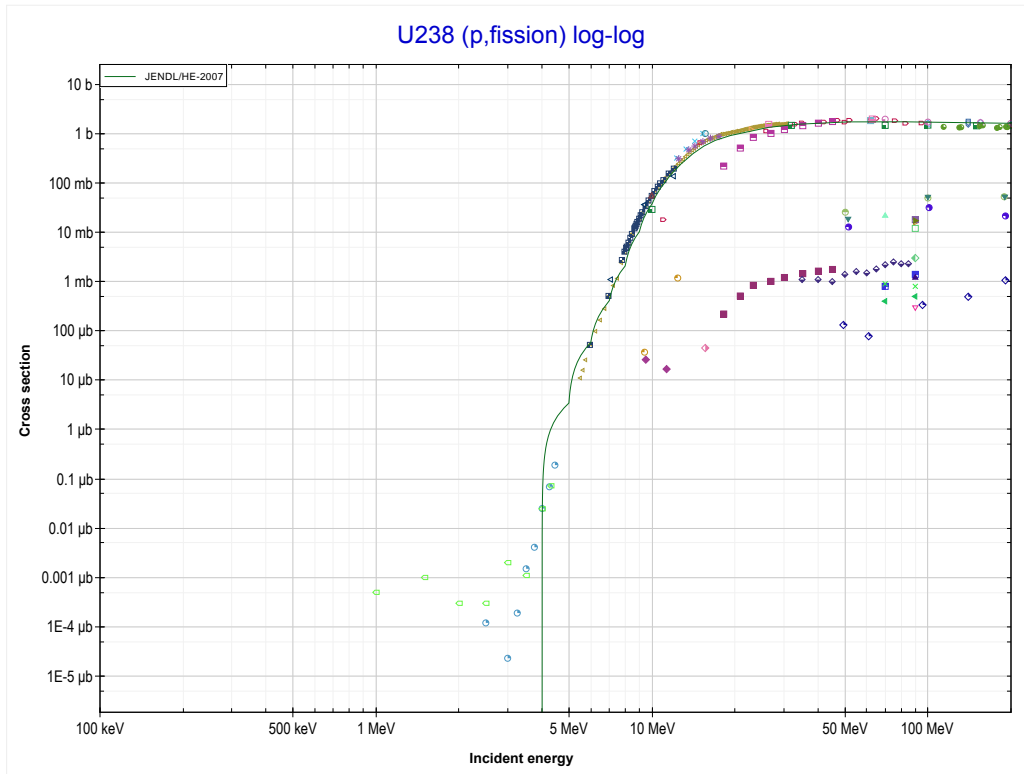
Reaction	Q-Value
U238(p,n)Np238	-929.75 keV

<< 92-U-236	<b>92-U-238</b>	
<< MT4 (p,n)	<b>MT17 (p,3n) or MT5 (Np236 production)</b>	<b>MT18 (p,fission) &gt;&gt;</b>

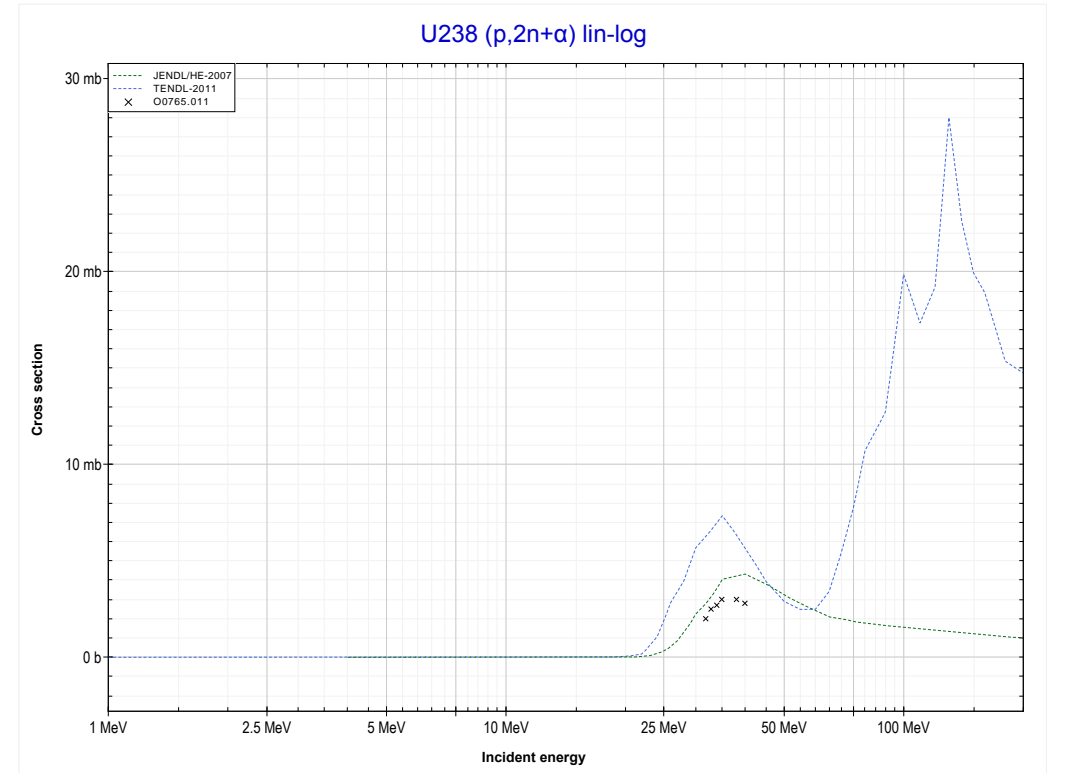
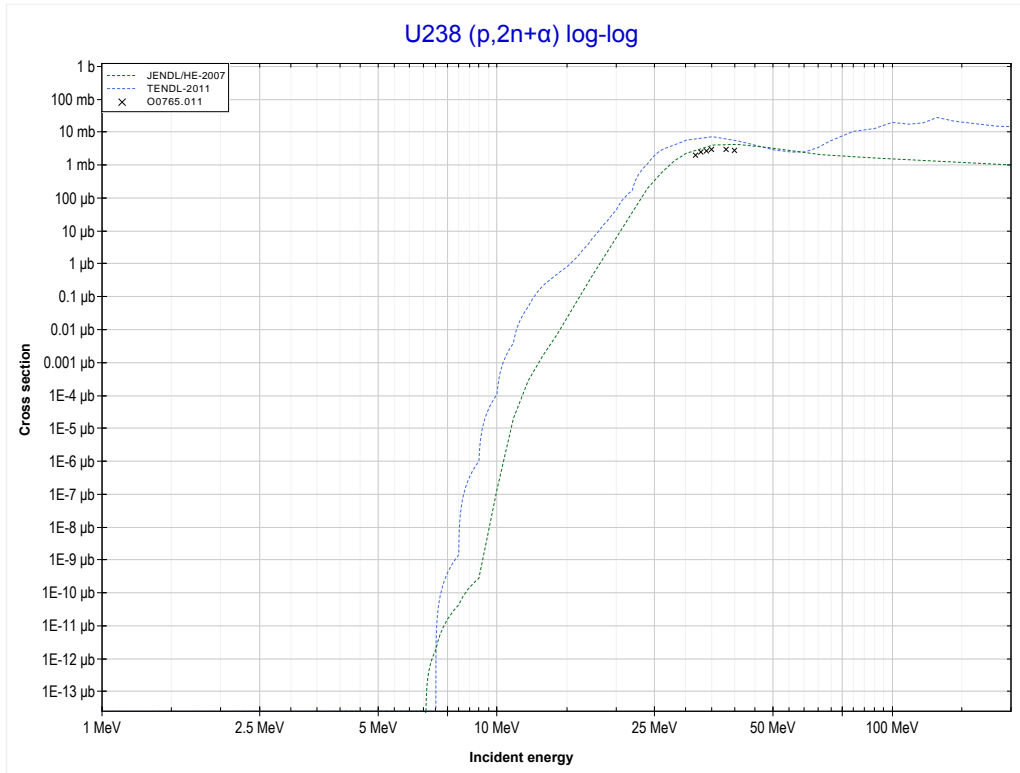


Reaction	Q-Value
U238(p,3n)Np236	-12996.08 keV

<< 92-U-235	<b>92-U-238</b>	93-Np-237 >>
<< MT17 (p,3n)	<b>MT18 (p,fission)</b>	MT24 (p,2n+α) >>

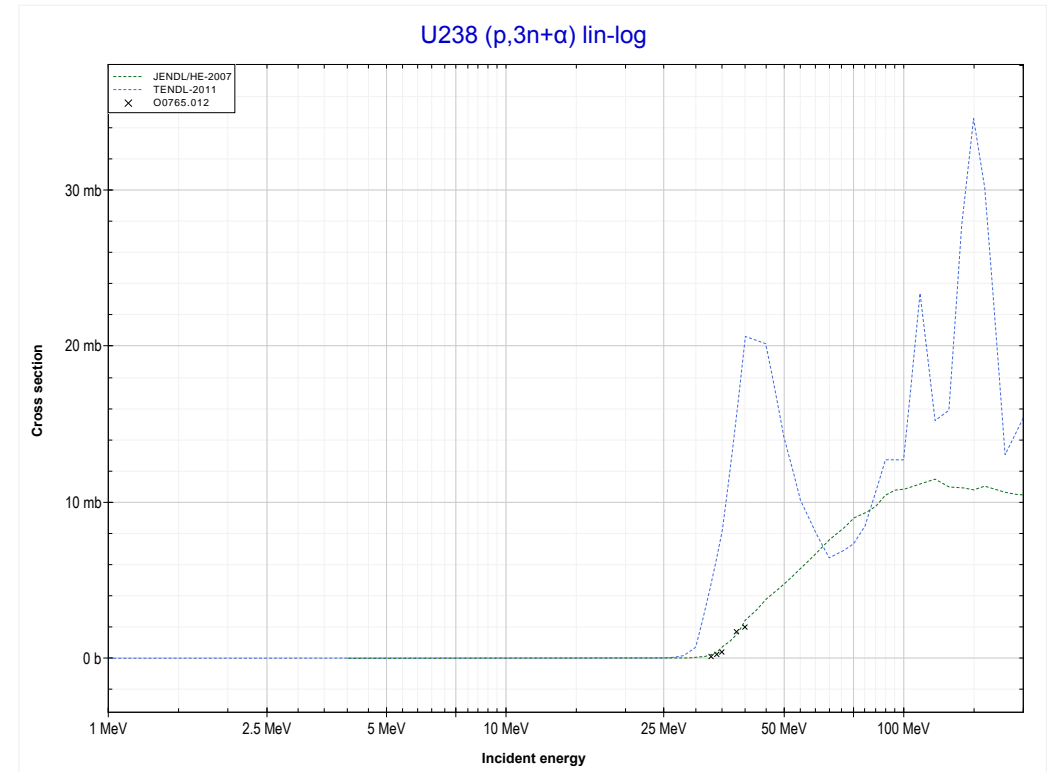
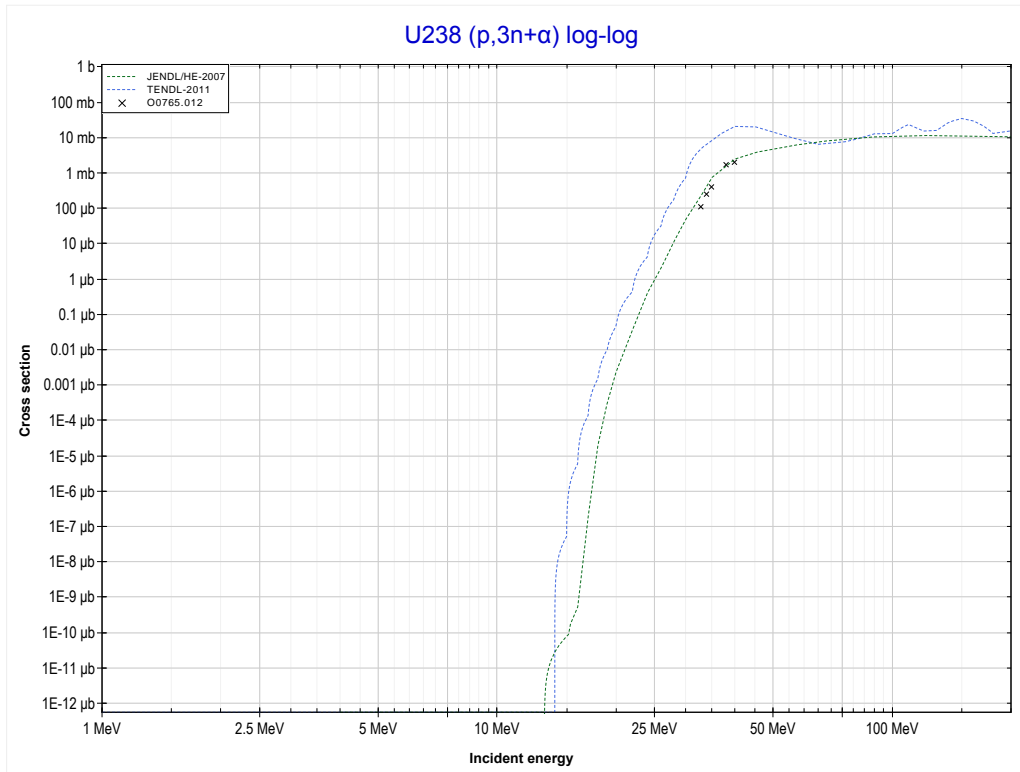


<< 54-Xe-124	<b>92-U-238</b>	
<< MT18 (p,fission)	<b>MT24 (p,2n+α) or MT5 (Pa233 production)</b>	MT25 (p,3n+α) >>



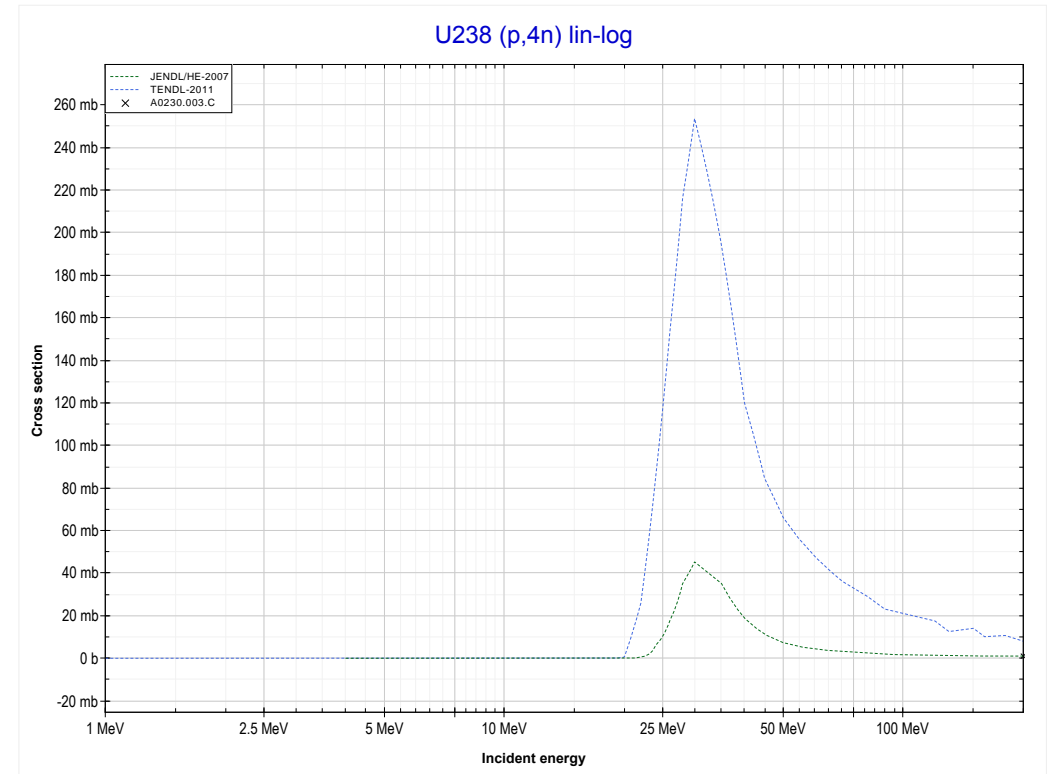
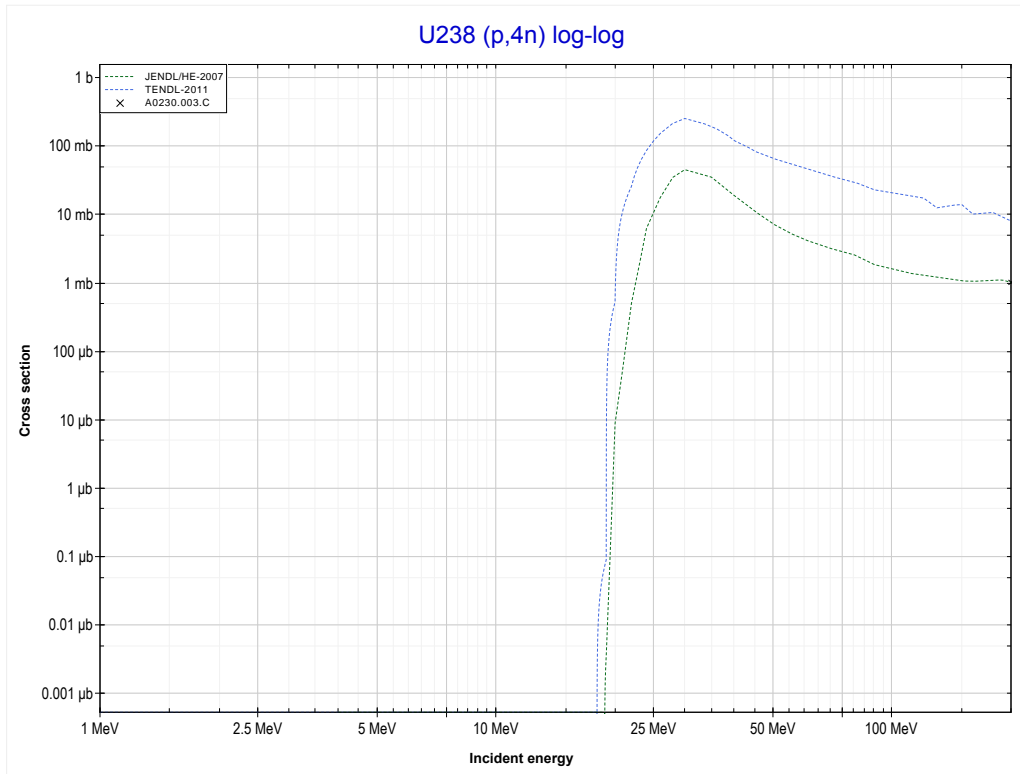
Reaction	Q-Value
U238(p,2n+α)Pa233	-1459.78 keV
U238(p,2t)Pa233	-12791.84 keV
U238(p,n+d+t)Pa233	-19049.07 keV
U238(p,2n+p+t)Pa233	-21273.64 keV
U238(p,3n+He3)Pa233	-22037.40 keV
U238(p,2n+2d)Pa233	-25306.31 keV
U238(p,3n+p+d)Pa233	-27530.87 keV
U238(p,4n+2p)Pa233	-29755.44 keV

	<b>92-U-238</b>	
<< MT24 (p,2n+α)	<b>MT25 (p,3n+α) or MT5 (Pa232 production)</b>	MT37 (p,4n) >>



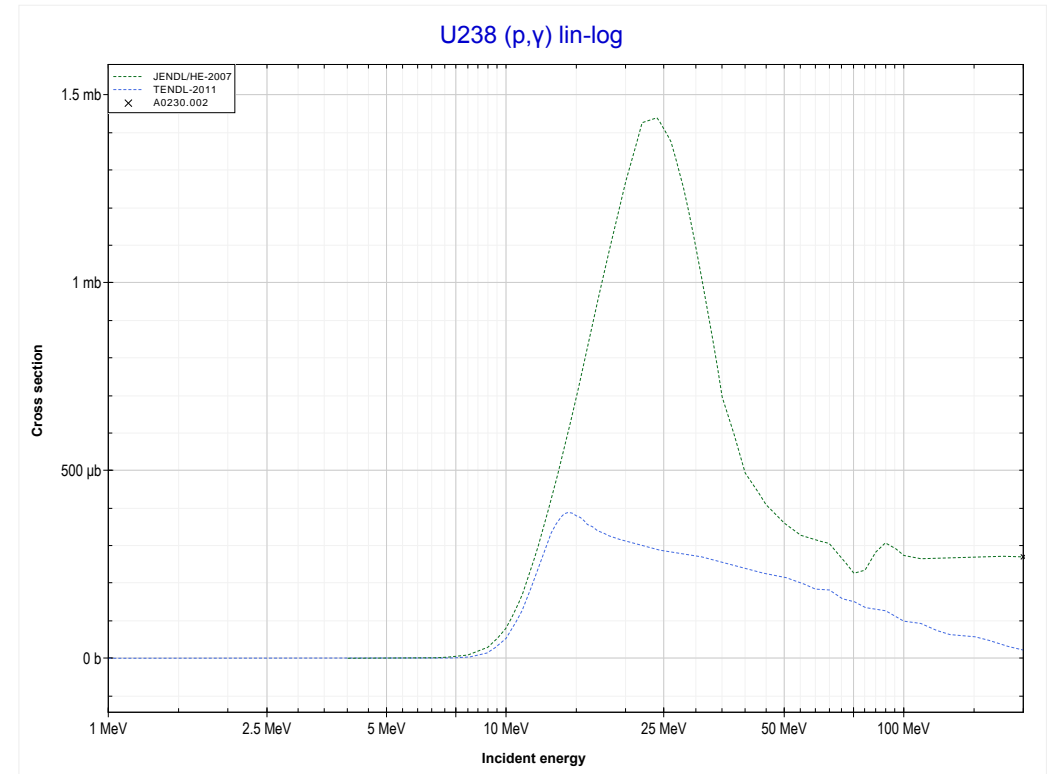
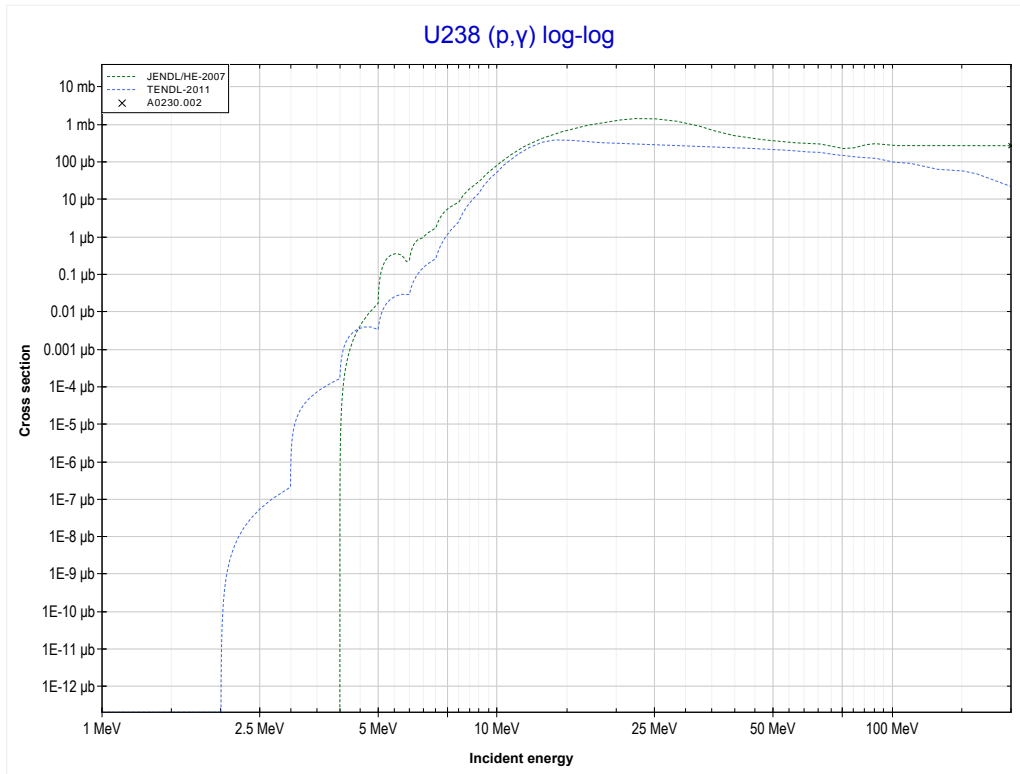
Reaction	Q-Value
U238(p,3n+α)Pa232	-7989.00 keV
U238(p,n+2t)Pa232	-19321.06 keV
U238(p,2n+d+t)Pa232	-25578.29 keV
U238(p,3n+p+t)Pa232	-27802.86 keV
U238(p,4n+He3)Pa232	-28566.61 keV
U238(p,3n+2d)Pa232	-31835.52 keV
U238(p,4n+p+d)Pa232	-34060.09 keV
U238(p,5n+2p)Pa232	-36284.66 keV

<< 92-U-235	<b>92-U-238</b>	
<< MT25 (p,3n+α)	<b>MT37 (p,4n) or MT5 (Np235 production)</b>	MT102 (p,γ) >>



Reaction	Q-Value
U238(p,4n)Np235	-18732.10 keV

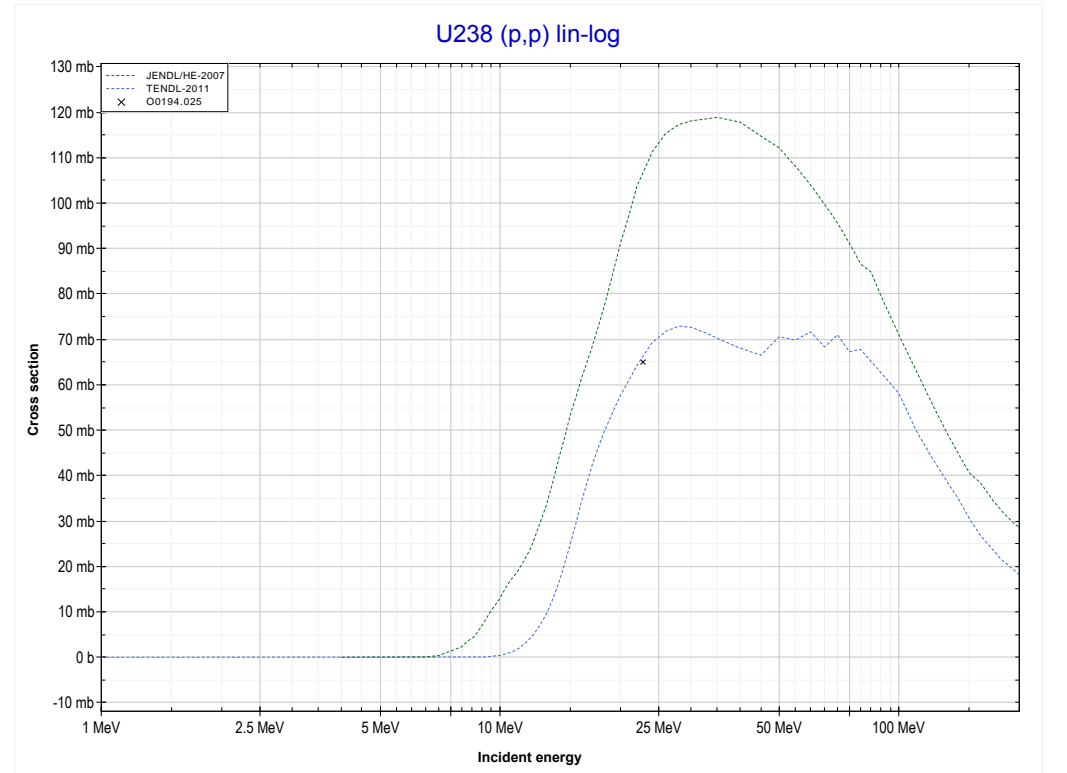
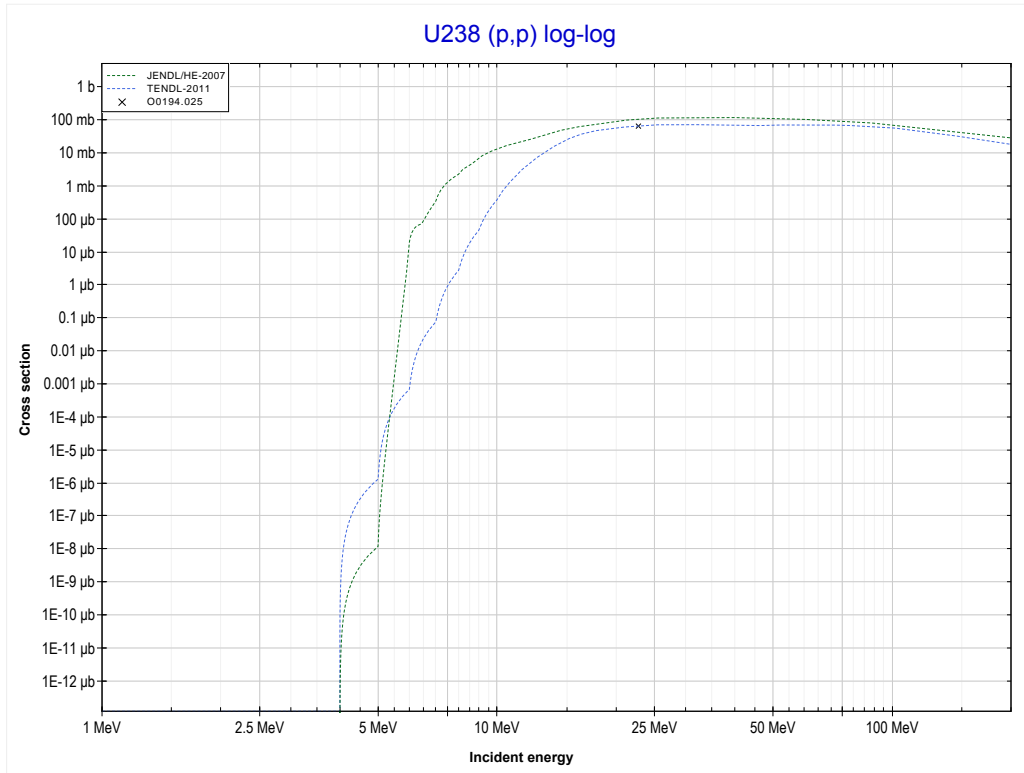
<< 90-Th-232	<b>92-U-238</b>	
<< MT37 (p,4n)	<b>MT102 (p,<math>\gamma</math>) or MT5 (Np239 production)</b>	MT103 (p,p) >>



Reaction	Q-Value
U238(p, $\gamma$ )Np239	5285.47 keV

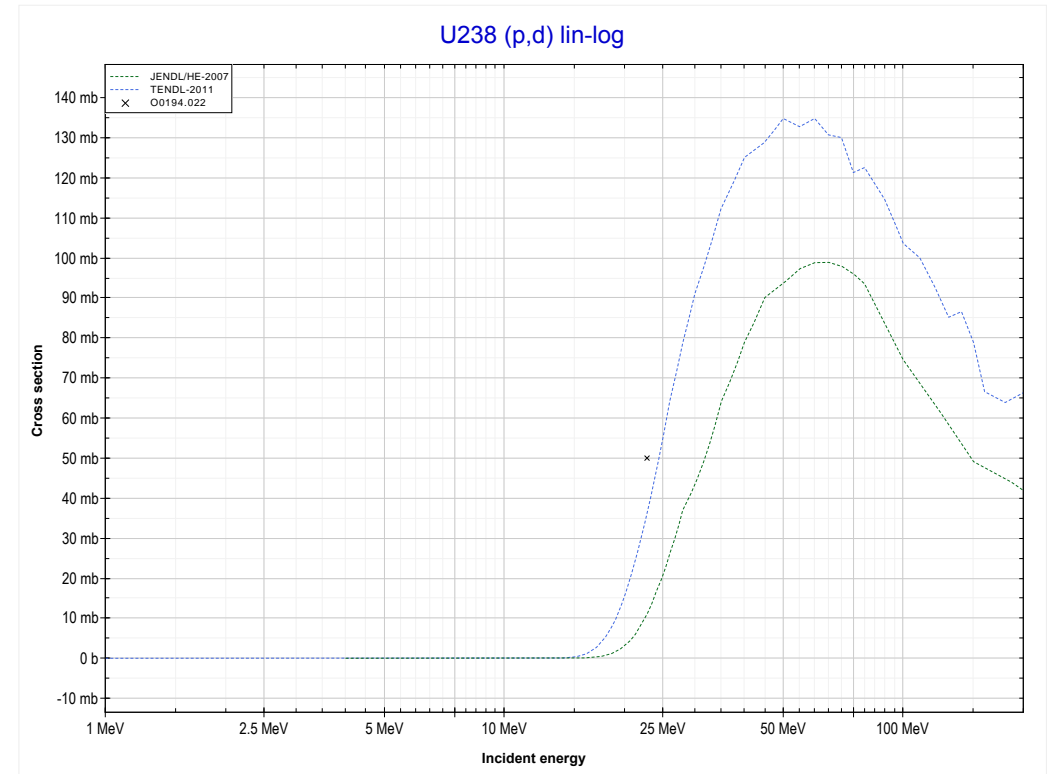
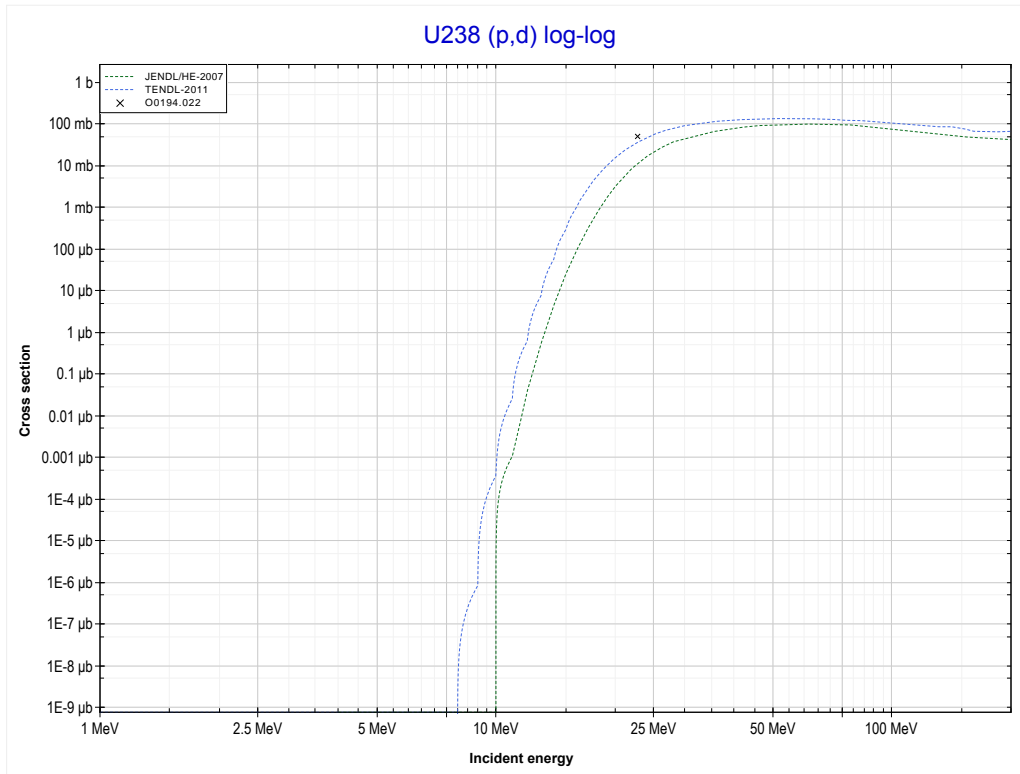


<< 92-U-235	<b>92-U-238</b>	
<< MT102 (p, $\gamma$ )	<b>MT103 (p,p) or MT5 (U238 production)</b>	MT104 (p,d) >>



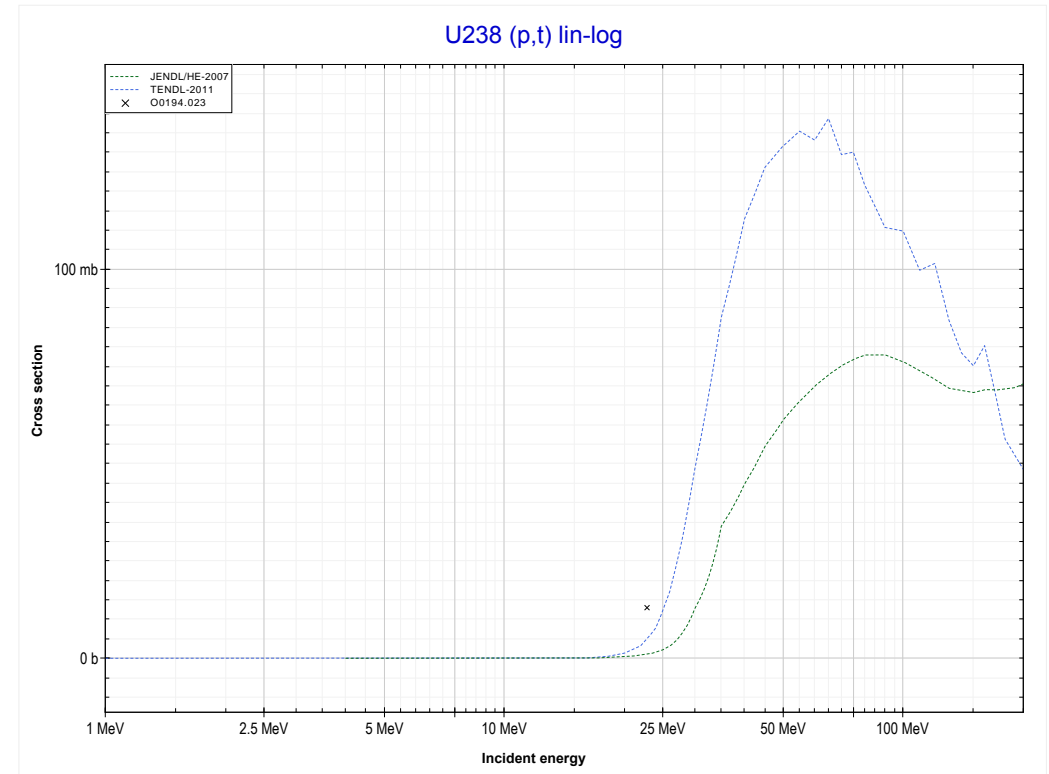
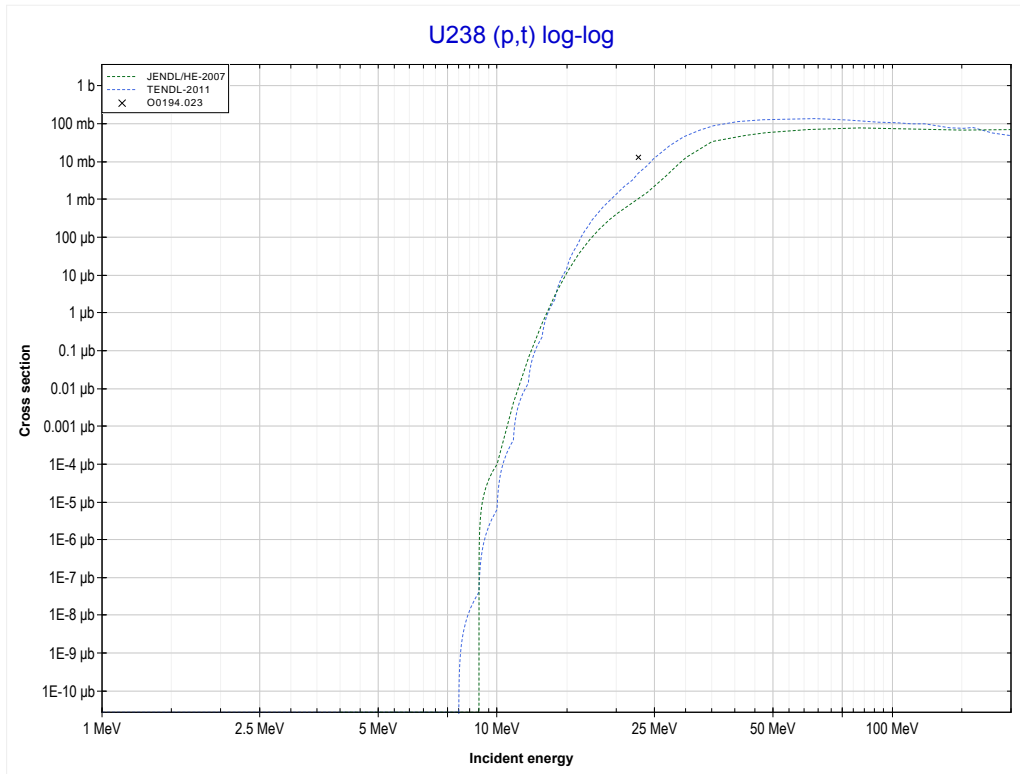
<b>Reaction</b>	<b>Q-Value</b>
U238(p,p)U238	0.00 keV

<< 92-U-235	<b>92-U-238</b>	
<< MT103 (p,p)	<b>MT104 (p,d) or MT5 (U237 production)</b>	MT105 (p,t) >>



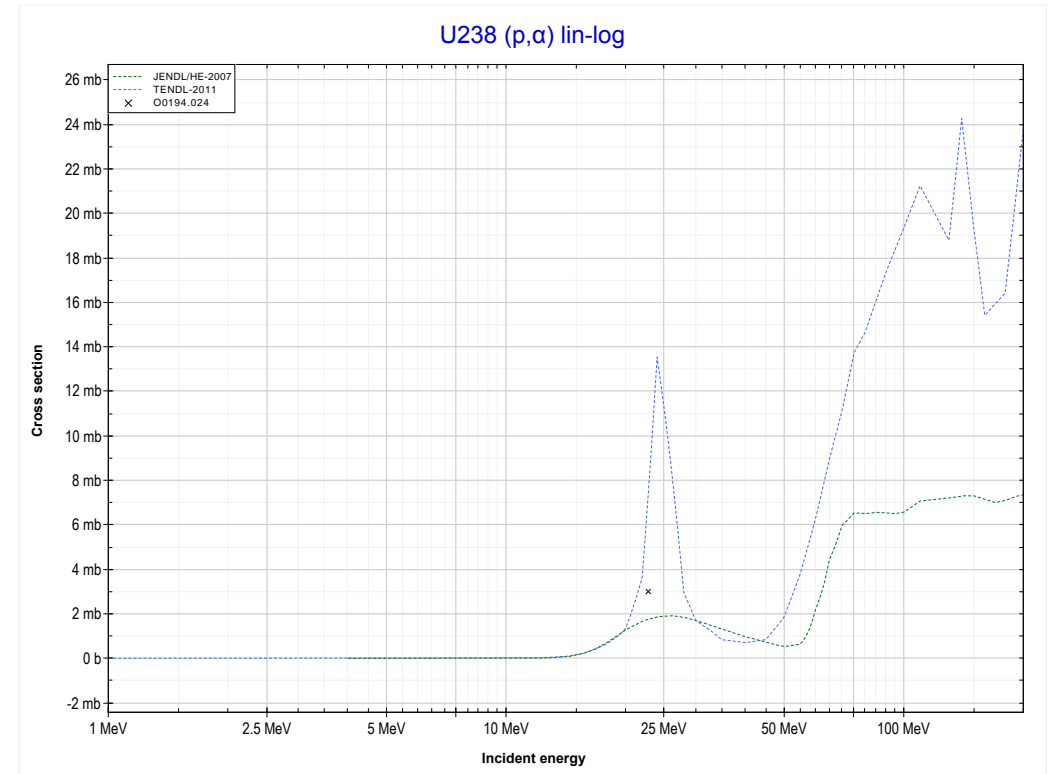
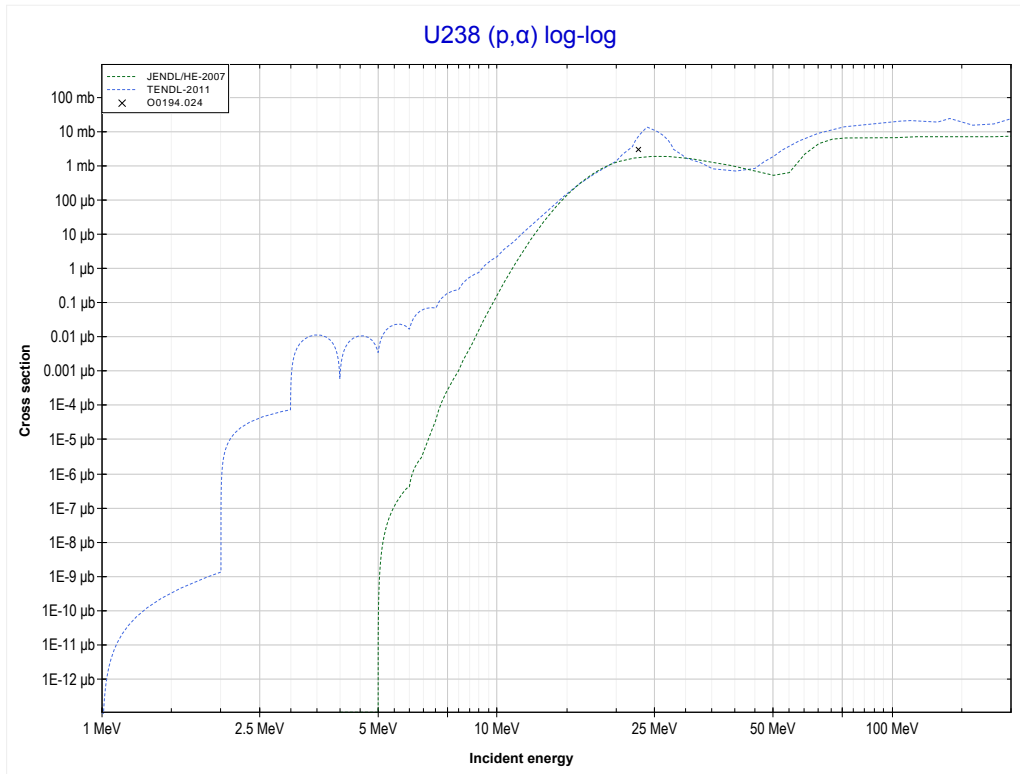
Reaction	Q-Value
U238(p,d)U237	-3929.75 keV
U238(p,n+p)U237	-6154.32 keV

<< 92-U-235	<b>92-U-238</b>	
<< MT104 (p,d)	<b>MT105 (p,t) or MT5 (U236 production)</b>	MT107 (p, $\alpha$ ) >>



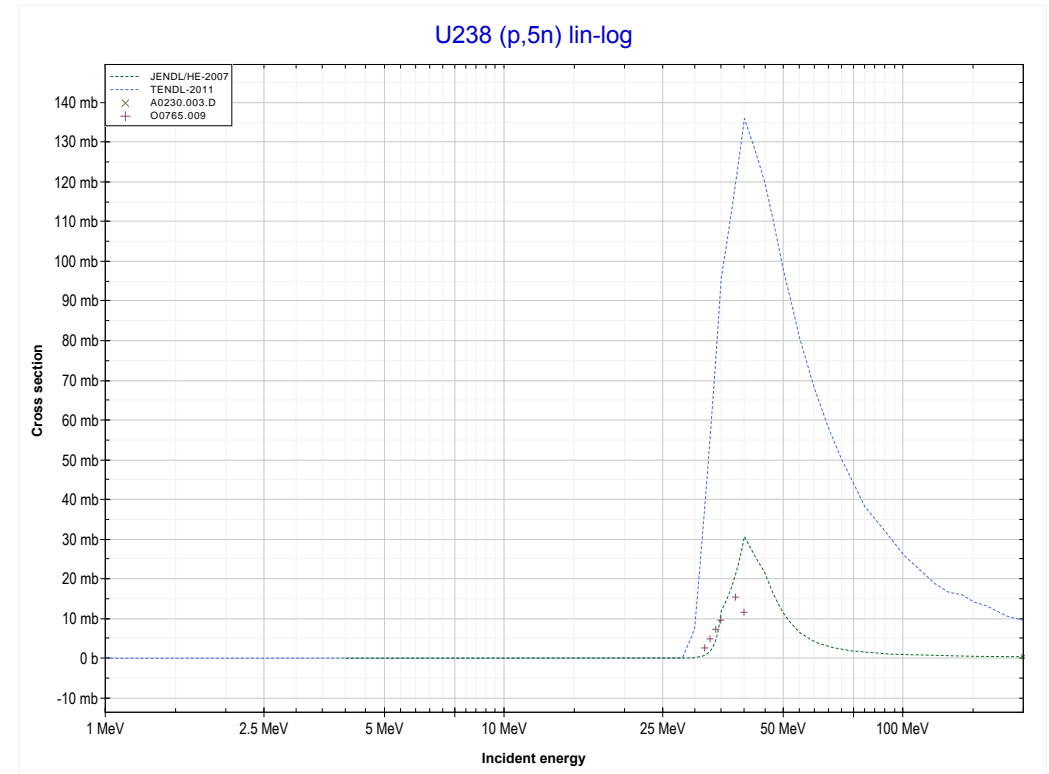
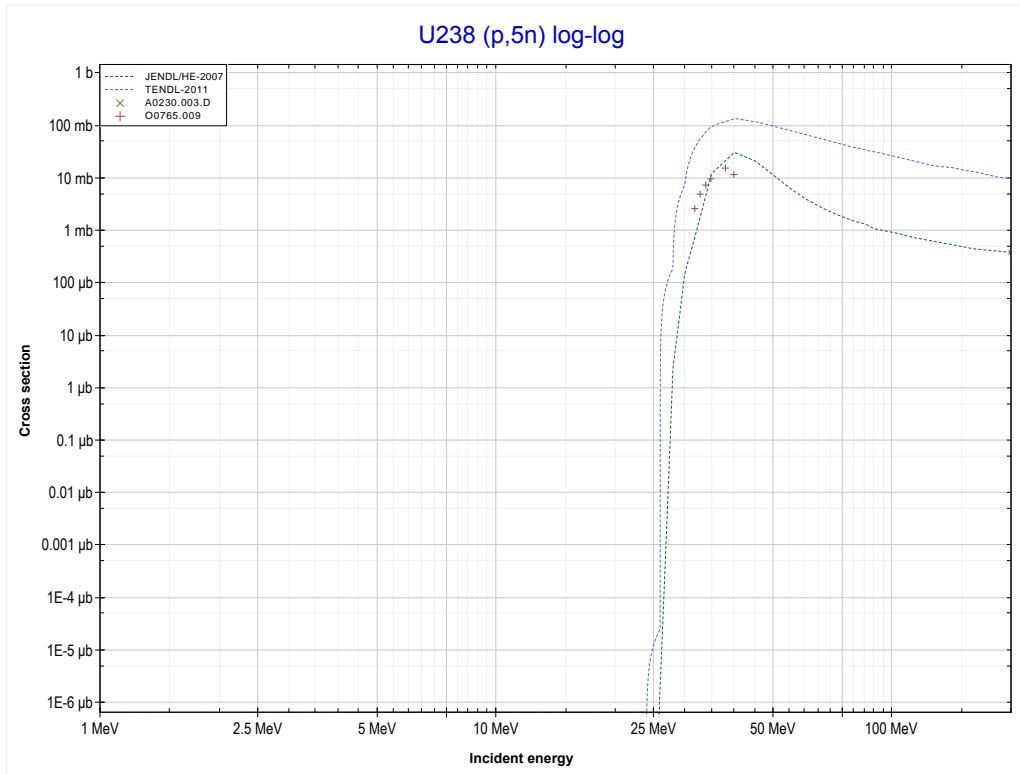
Reaction	Q-Value
U238(p,t)U236	-2798.24 keV
U238(p,n+d)U236	-9055.47 keV
U238(p,2n+p)U236	-11280.03 keV

<< 92-U-235	<b>92-U-238</b>	
<< MT105 (p,t)	<b>MT107 (p,<math>\alpha</math>) or MT5 (Pa235 production)</b>	MT152 (p,5n) >>



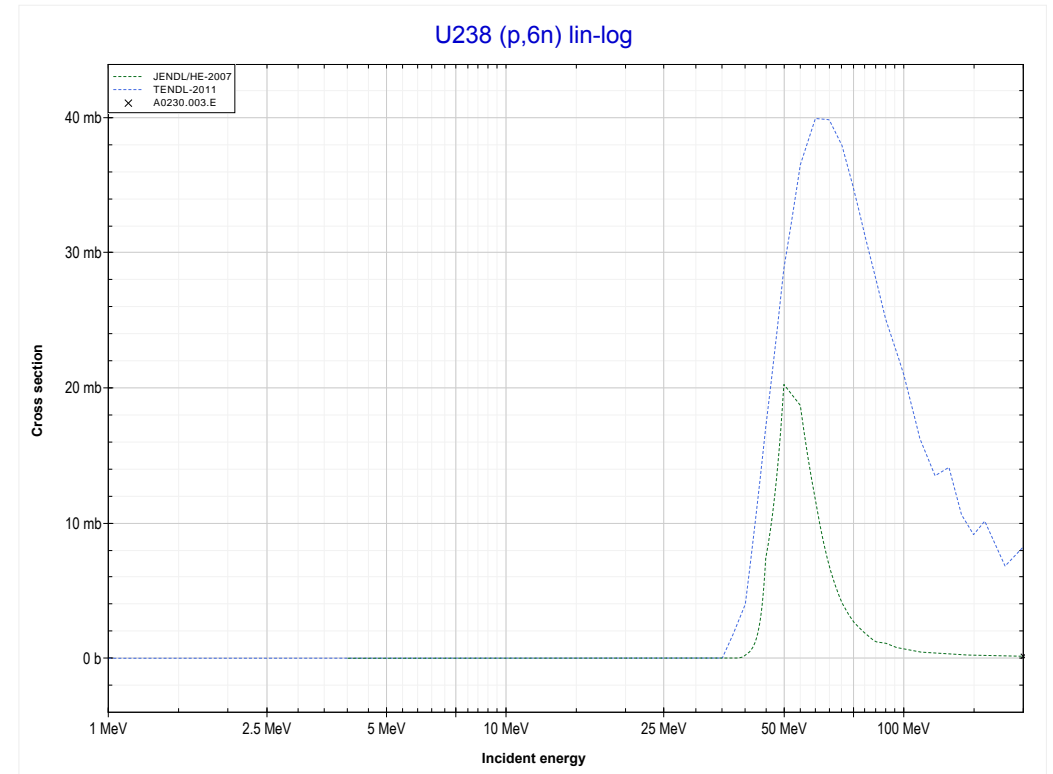
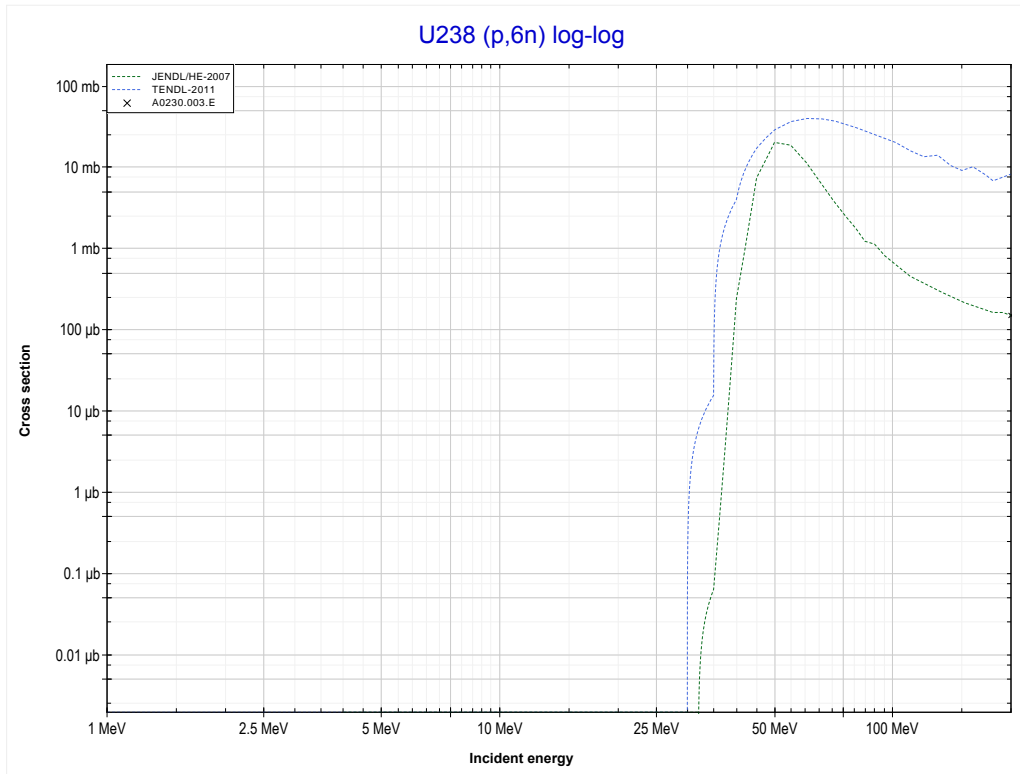
Reaction	Q-Value
U238(p, $\alpha$ )Pa235	9842.95 keV
U238(p,p+t)Pa235	-9970.91 keV
U238(p,n+He3)Pa235	-10734.66 keV
U238(p,2d)Pa235	-14003.57 keV
U238(p,n+p+d)Pa235	-16228.14 keV
U238(p,2n+2p)Pa235	-18452.70 keV

<< 92-U-235	<b>92-U-238</b>	
<< MT107 (p, $\alpha$ )	<b>MT152 (p,5n) or MT5 (Np234 production)</b>	MT153 (p,6n) >>



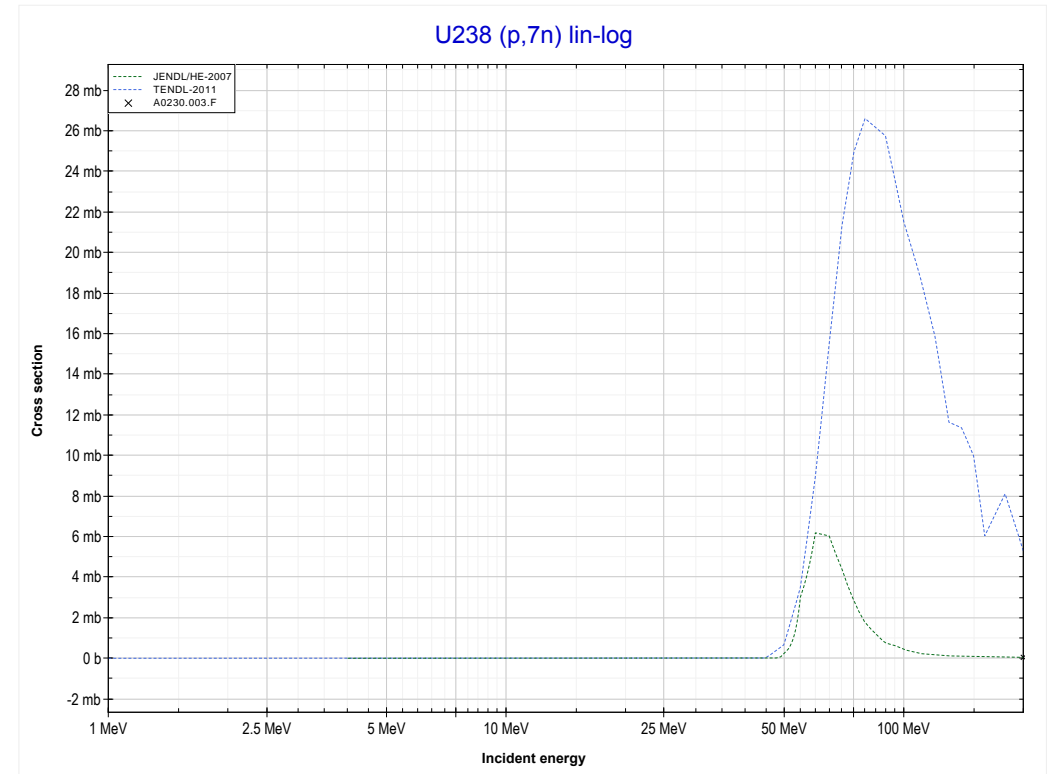
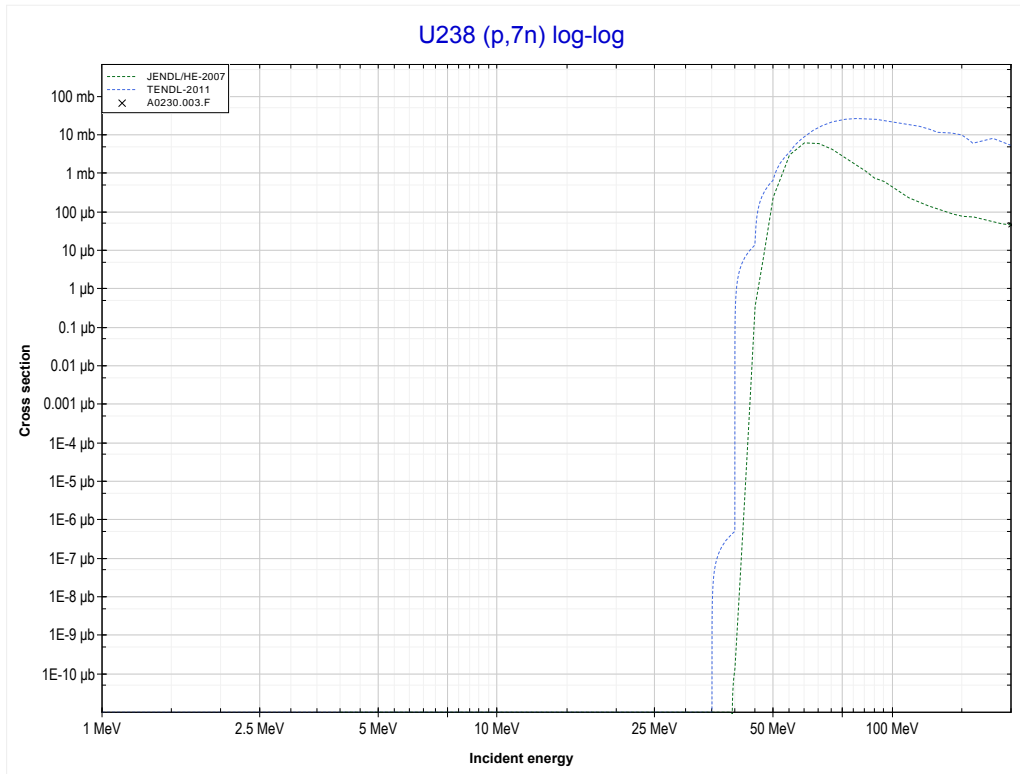
Reaction	Q-Value
U238(p,5n)Np234	-25714.71 keV

<< 90-Th-232	<b>92-U-238</b>	
<< MT152 (p,5n)	<b>MT153 (p,6n) or MT5 (Np233 production)</b>	MT160 (p,7n) >>



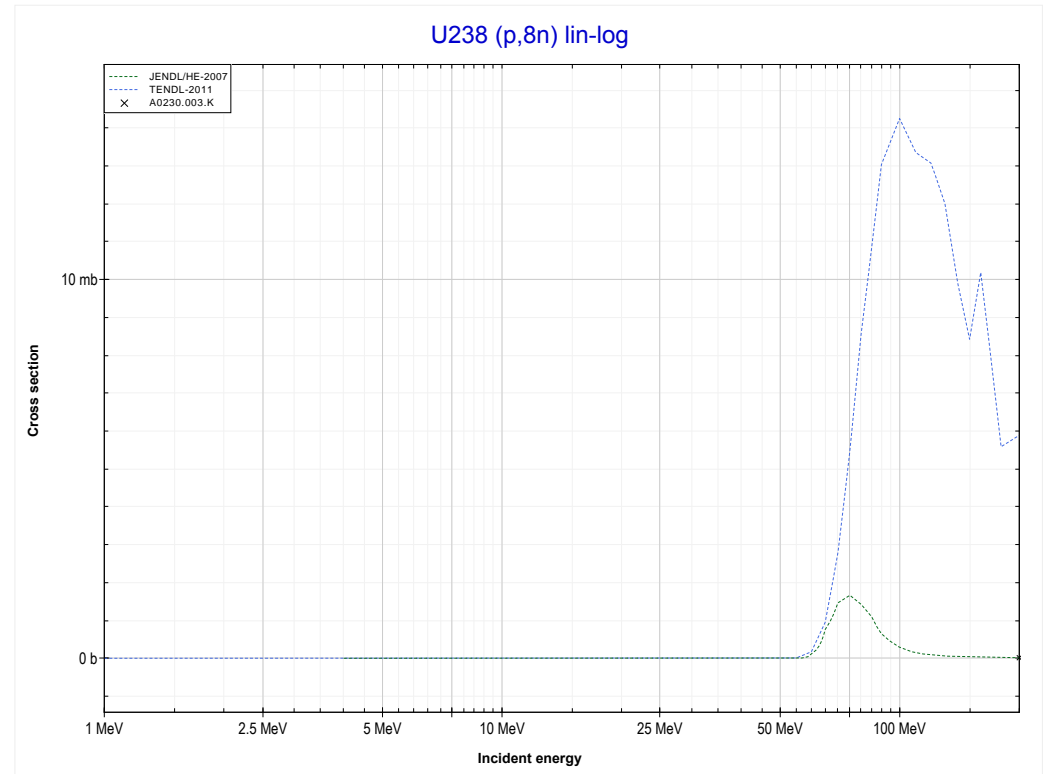
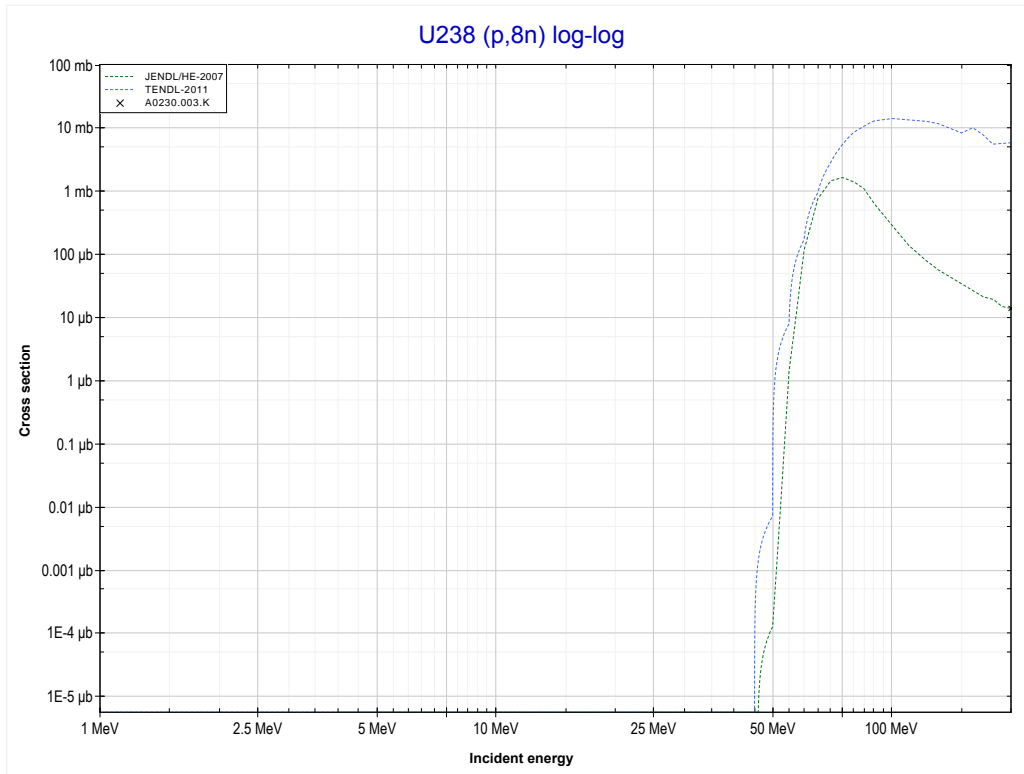
Reaction	Q-Value
U238(p,6n)Np233	-31780.03 keV

<< 90-Th-232	<b>92-U-238</b>	
<< MT153 (p,6n)	<b>MT160 (p,7n) or MT5 (Np232 production)</b>	MT161 (p,8n) >>



Reaction	Q-Value
U238(p,7n)Np232	-39261.35 keV

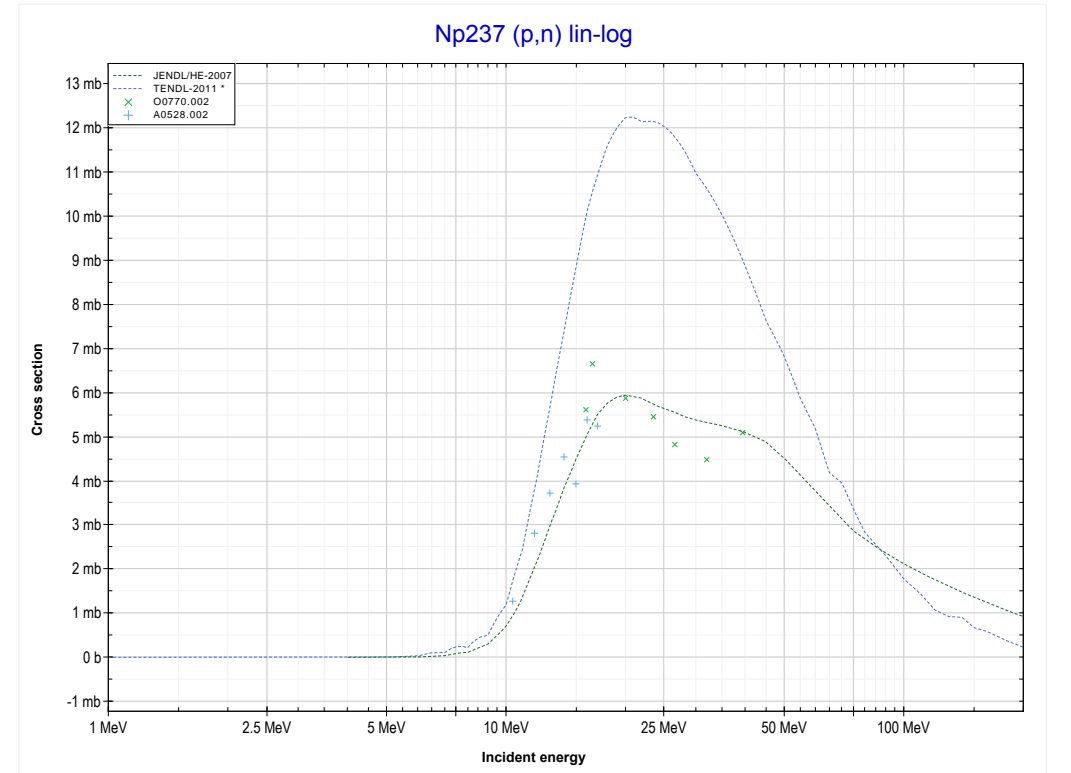
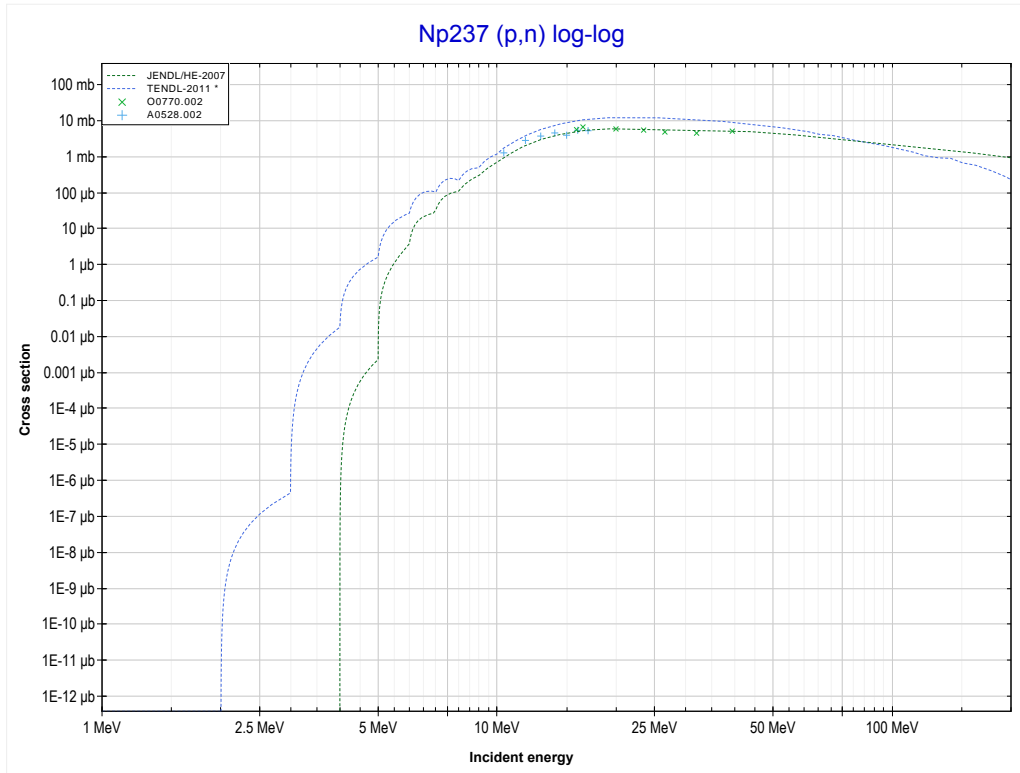
<< 83-Bi-209	<b>92-U-238</b>	
<< MT160 (p,7n)	<b>MT161 (p,8n) or MT5 (Np231 production)</b>	MT4 (p,n) >>



Reaction	Q-Value
U238(p,8n)Np231	-45602.67 keV

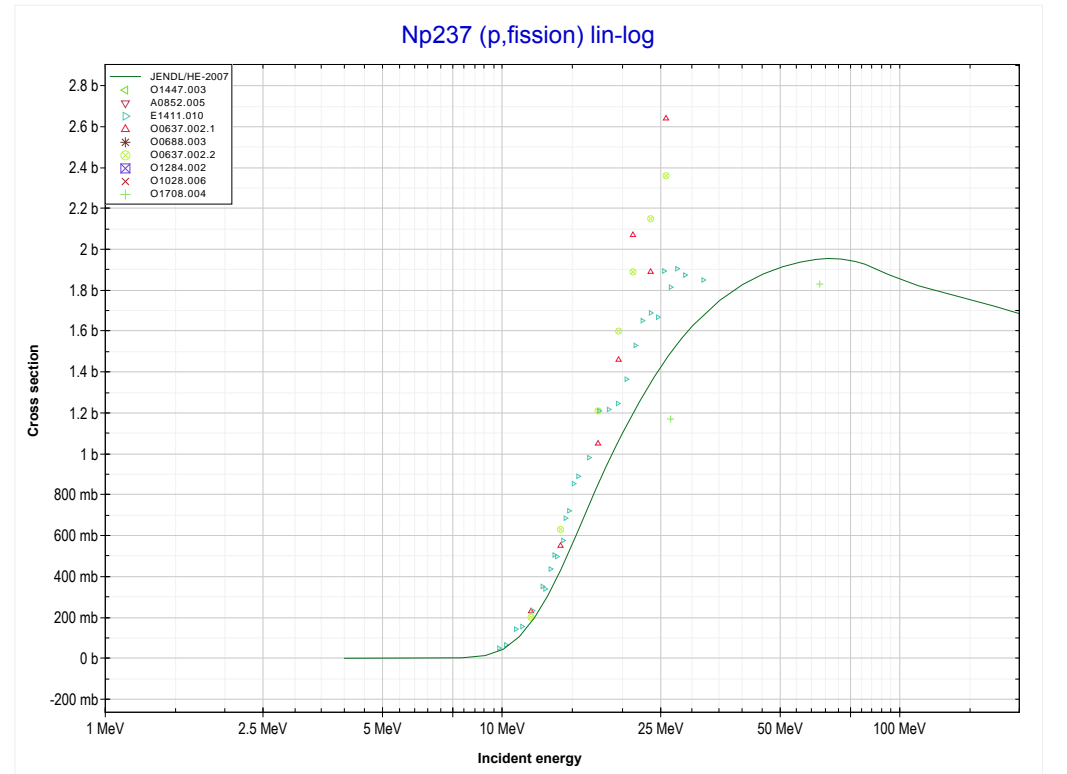
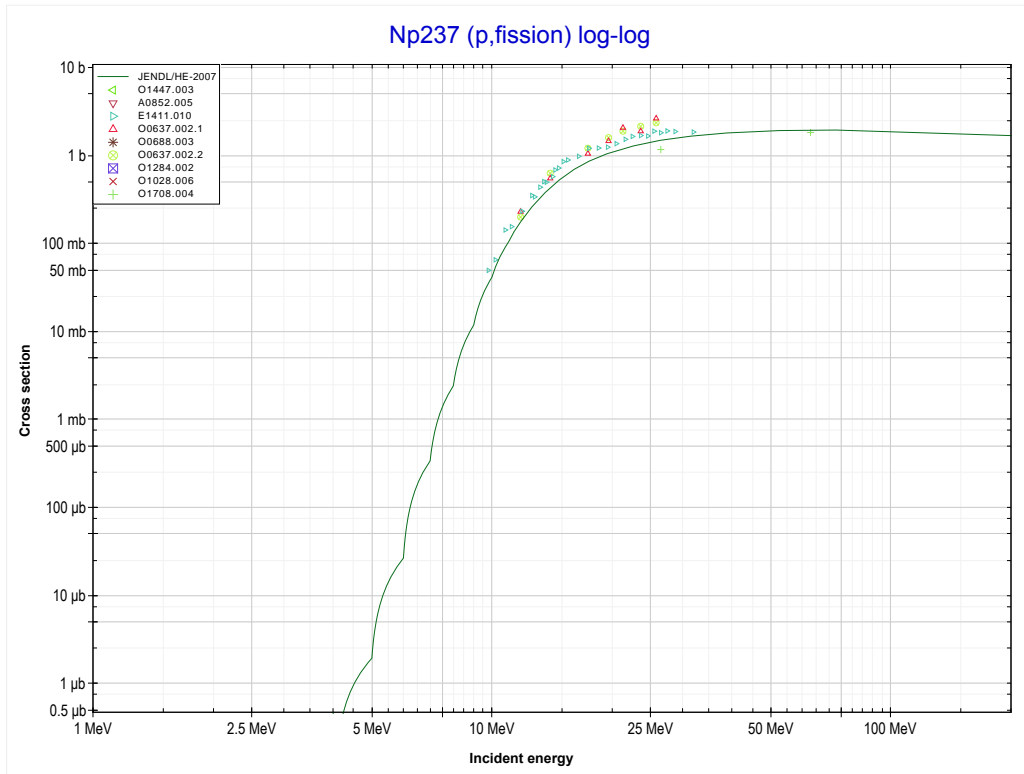


<< 92-U-238	<b>93-Np-237</b>	
<< MT161 (p,8n)	<b>MT4 (p,n) or MT5 (Pu237 production)</b>	<b>MT18 (p,fission) &gt;&gt;</b>

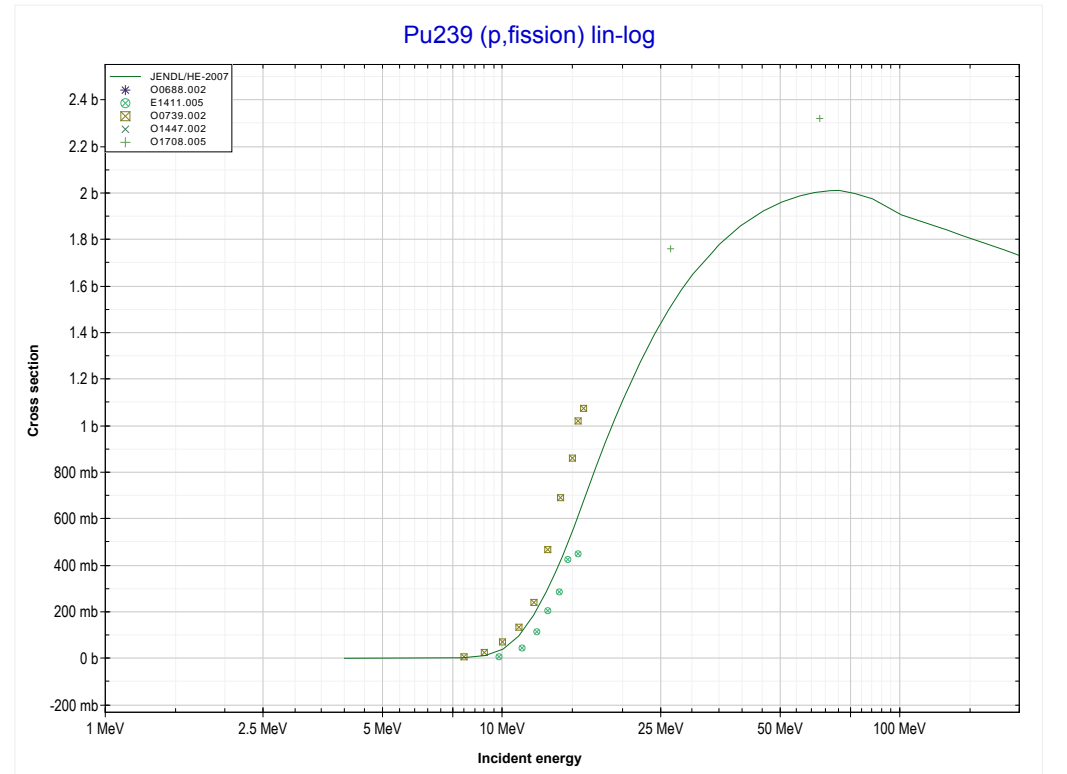
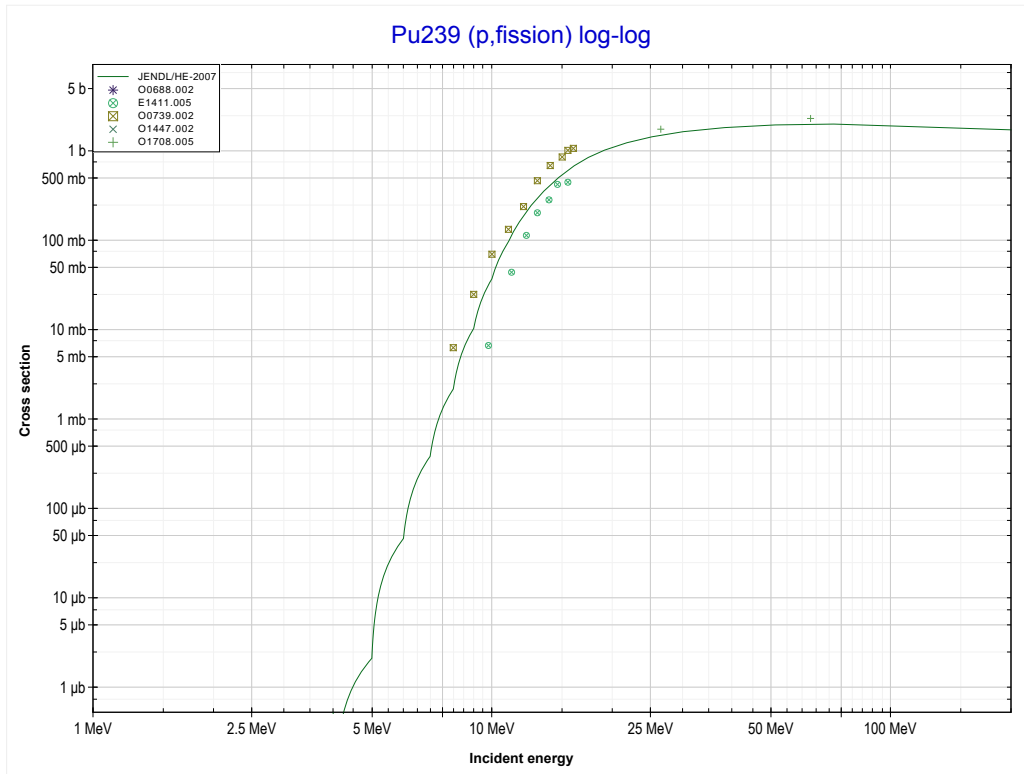


Reaction	Q-Value
Np237(p,n)Pu237	-1002.35 keV

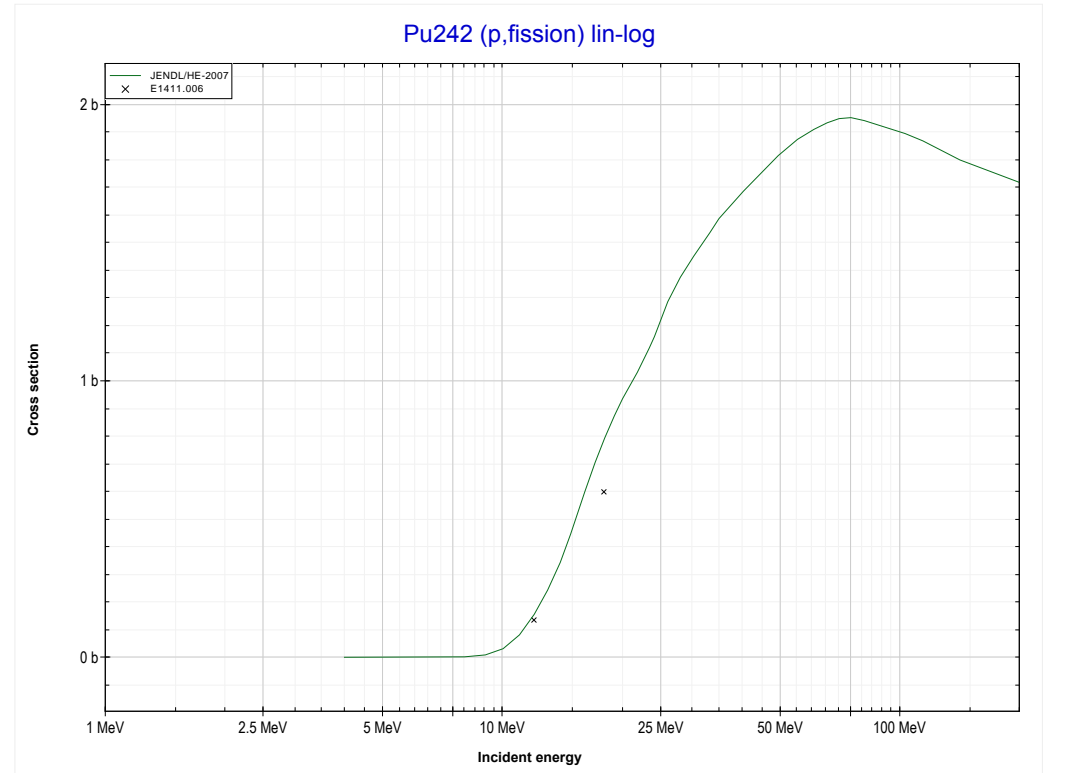
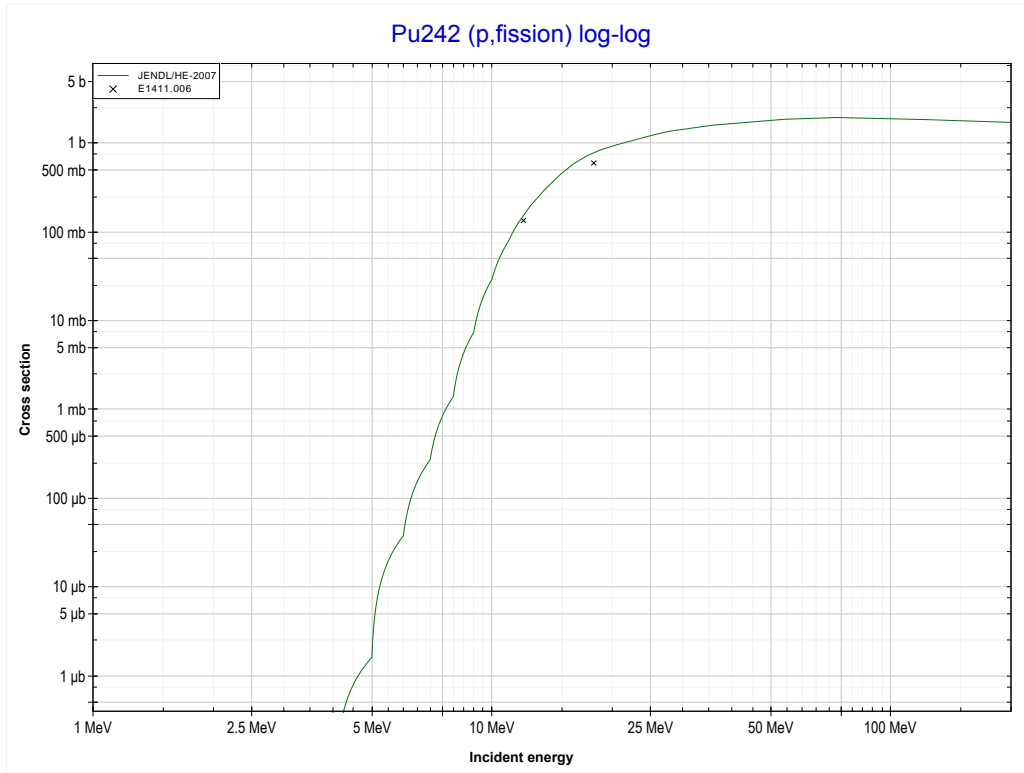
<< 92-U-238	<b>93-Np-237</b>	94-Pu-239 >>
<< MT4 (p,n)	<b>MT18 (p,fission)</b>	MT18 (p,fission) >>



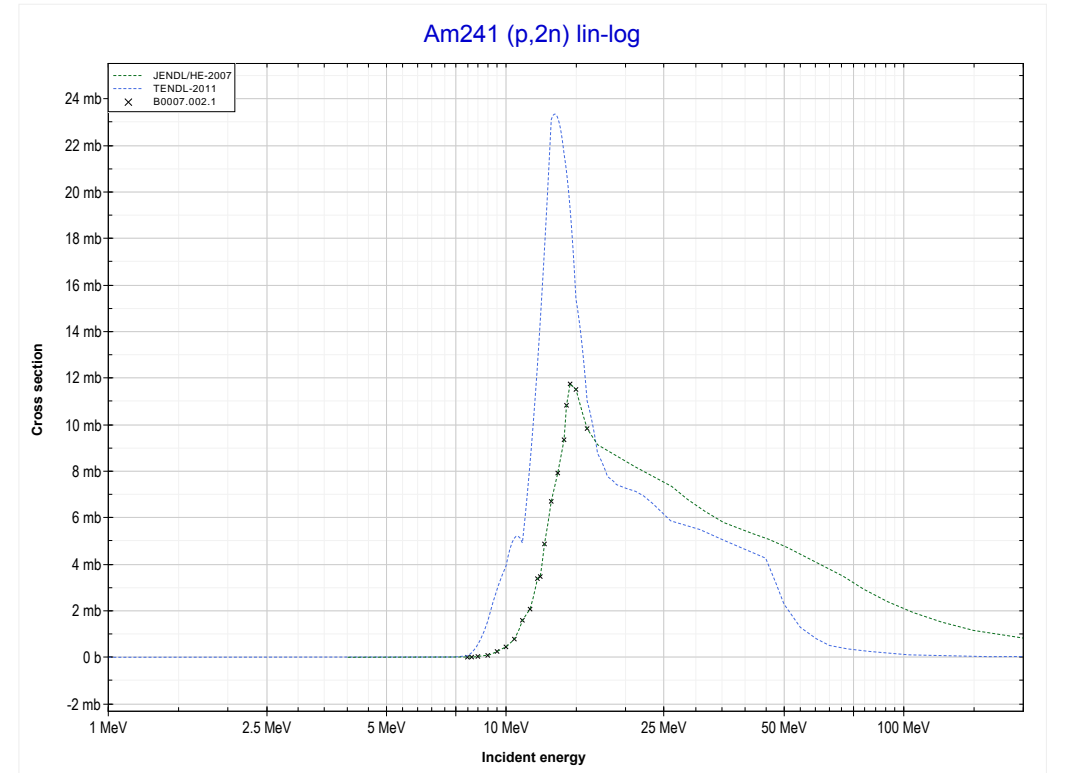
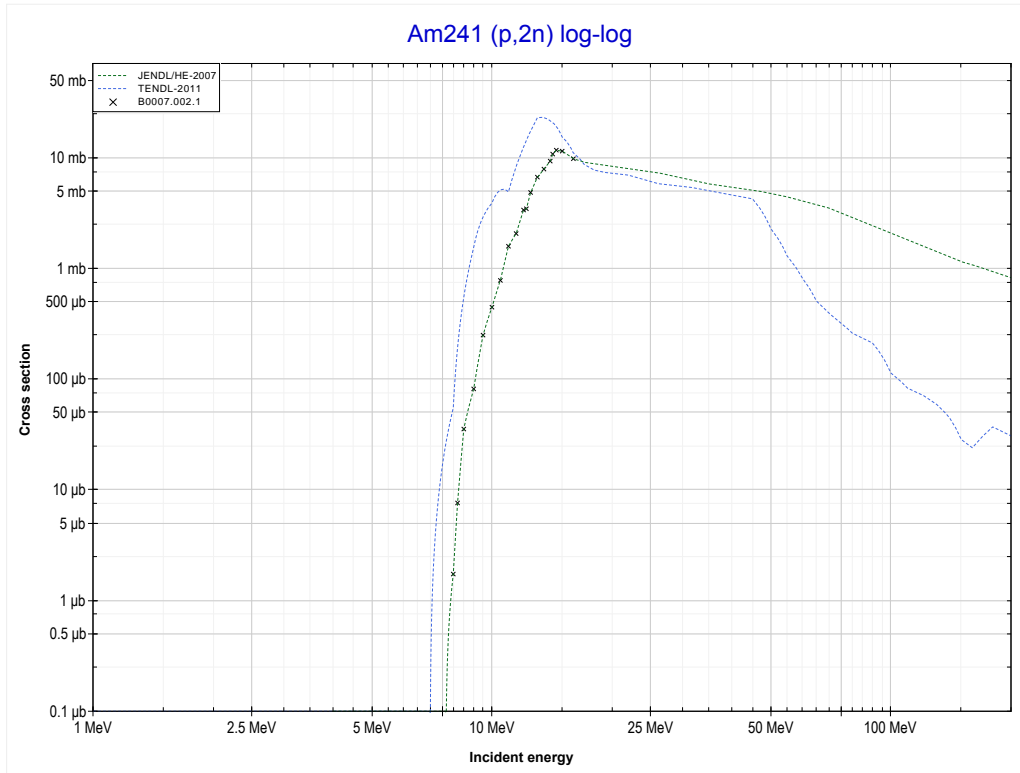
<< 93-Np-237	<b>94-Pu-239</b>	94-Pu-242 >>
<< MT18 (p,fission)	<b>MT18 (p,fission)</b>	MT18 (p,fission) >>



<< 94-Pu-239	<b>94-Pu-242</b>	95-Am-241 >>
<< MT18 (p,fission)	<b>MT18 (p,fission)</b>	MT16 (p,2n) >>



<< 92-U-236	<b>95-Am-241</b>	
<< MT18 (p,fission)	<b>MT16 (p,2n) or MT5 (Cm240 production)</b>	MT18 (p,fission) >>



Reaction	Q-Value
Am241(p,2n)Cm240	-7643.06 keV

<< 94-Pu-242	<b>95-Am-241</b>	
<< MT16 (p,2n)	<b>MT18 (p,fission)</b>	

