

### Feedback to HPRL entry status (as of March 2017)

ID	Reaction Quantity	Energy range	Date entry created	Feedback (new experiments, comments, references, EXFOR, ...)	Status
1	14-Si-28(n,np) Cross section	12 MeV- 20 MeV	21 Sept 2005		
2	8-O- 16(n,a),(n,abs) Cross section	2 MeV- 20 MeV	21 Sept 2005	<p><i>Experiments</i></p> <ul style="list-style-type: none"> <li>• IRMM: [Giorginis2008]</li> <li>• IPPE: [Khryachkov2011,2012]</li> <li>• Planned (n,a) measurements at LANL, Demokritos and n_TOF</li> </ul> <p><i>Theory/Evaluation</i></p> <ul style="list-style-type: none"> <li>• Evaluation works in the framework of the CIELO initiative at LANL [Hale2014], JAEA [Kunieda2014], ORNL, KAPL and others [CSWEG2014]</li> </ul>	
3	94-Pu-239(n,f) Prompt gammas	Thermal, Fast	28 April 2006	<p><i>Experiments</i></p> <ul style="list-style-type: none"> <li>• LANL-LLNL: [Chyzh2014]</li> <li>• Ongoing work at IRMM-IPNO [Oberstedt2015]</li> </ul>	
4	92-U-235(n,f) Prompt gammas	Thermal, Fast	10 May 2006	<p><i>Experiments</i></p> <ul style="list-style-type: none"> <li>• LANL-LLNL: [Kwan2012] [Chyzh2014]</li> <li>• IPNO: [Lebois2014,2015]</li> <li>• IRMM: [Oberstedt2013] [Billnert2014]</li> <li>• Ongoing work at IRMM-IPNO [Oberstedt2015]</li> </ul>	

ID	Reaction Quantity	Energy range	Date entry created	Feedback (new experiments, comments, references, EXFOR, ...)	Status
5	72-Hf-nat(n,g) Cross section	500 eV- 5 keV	28 April 2006	<p><i>Experiments</i></p> <ul style="list-style-type: none"> <li>• KIT/FZK: [Wisshak2006]</li> <li>• Turkey??: [Budak2011]</li> <li>• KAERI: [Kim2005]</li> <li>• RPI: [Trbovich2009]</li> </ul> <p><i>Theory/Evaluation</i></p> <ul style="list-style-type: none"> <li>• Serco: [Dean2011]</li> <li>• CEA: [Noguere2009]</li> </ul>	
6	92-U-233(n,g) Cross section	10 keV- 1 MeV	28 April 2006	<p><i>Experiments</i></p> <ul style="list-style-type: none"> <li>• n_TOF: [Carrapiço2013, EXFOR 23071] [Bacak2017]</li> </ul>	
7	26-Fe-56(n,xn) Cross section, DDX	7 MeV- 20 MeV	13 July 2006	See US feedback form by D. Brown	

ID	Reaction Quantity	Energy range	Date entry created	Feedback (new experiments, comments, references, EXFOR, ...)	Status
8	1-H-2(n,el) DDX	100 keV- 1 MeV	25 July 2006	<p><i>Experiments</i></p> <ul style="list-style-type: none"> <li>• J.A. Frenje, et al., PRL 107 (2011) 122502 Measurements of the Differential Cross Sections for the Elastic n-H3 and n-H2 Scattering at 14.1 MeV by Using an Inertial Confinement Fusion Facility</li> <li>• M. Stanoiu, et al. ND2010, J. KPS 59 (2011) 1825, Neutron-Deuteron Elastic Scattering Measurements; AIP Conf. 1224 (2010) 234</li> <li>• N.Nankov, et al., ND2013, NDS 119 (2014) 98, The Angular Distribution of Neutrons Scattered from Deuterium below 2 MeV</li> <li>• R. Nolte, et al., ERINDA final workshop CERN – Proceedings-2014-002, p.187, Measurement of the differential neutron-deuteron scattering cross section in the energy range from 100 keV to 600 keV using a proportional counter</li> <li>• G.J. Weisel, et al., PRC 89 (2014) 054001, Neutron-deuteron analyzing power data at En=22.5 MeV (Of interest to theoretical models for evaluations)</li> <li>• Ongoing work at JRC-Geel in collaboration with HZDR, PTB</li> </ul> <p><i>Theory/Evaluation</i></p> <ul style="list-style-type: none"> <li>• J.P. Svenne, et al., ND2007, EDP Sciences p.243 (2008) Re-evaluating low-energy neutron-deuteron elastic scattering using three-nucleon theory.</li> <li>• D. Roubtsov, et al., ND2013, NDS 118 (2014) 414 , Reactivity Impact of 2H and 16O Elastic Scattering Nuclear Data on Critical Systems with Heavy Water</li> </ul>	
9	92-U-233(n,g) Cross section, nu-bar	Thermal- 10 keV	19 April 2007	<p><i>Experiments</i></p> <ul style="list-style-type: none"> <li>• n_TOF: [Carrapiço2013, EXFOR 23071] [Bacak2017]</li> <li>• J.E. Escher and F.S. Dietrich, PRC81(2010)024612, Cross sections for neutron capture from surrogate measurements: An examination of Weisskopf-Ewing and ratio approximations</li> </ul>	

ID	Reaction Quantity	Energy range	Date entry created	Feedback (new experiments, comments, references, EXFOR, ...)	Status
10	79-Au-197(n,tot) Cross section	5 keV- 200 keV	18 May 2007	<p><i>Experiments</i></p> <ul style="list-style-type: none"> <li>• R. Hannaske, et al., EPJA 49 (2013) 137, Neutron total cross section measurements of gold and tantalum at the nELBE photoneutron source (HZDR)</li> <li>• I. Sirakov, et al., EPJA 49(2014) 144, Results of total cross section measurements for 197Au in the neutron energy region from 4 to 108 keV at GELINA.</li> </ul> <p><i>Theory/Evaluation</i></p> <ul style="list-style-type: none"> <li>• A.B. Smith, ANL/NDM-161 (2005) Neutron Scattering from the Standard 197Au (calculated n,tot MeV range).</li> <li>• B. Becker, et al., NDS 118 (2014) 381, Evaluation of the Covariance Matrix of Estimated Resonance Parameters (GELINA, JRC-Geel)</li> </ul>	
11	94-Pu-239(n,f),(n,g) Cross section, eta, alpha	1 meV- 1 eV	9 May 2007		
12	92-U-235(n,g) Cross section	100 eV- 1 MeV	29 August 2007	<p>See US feedback form by F. Tovesson</p> <p><i>Experiments</i></p> <ul style="list-style-type: none"> <li>• n_TOF: [Balibrea2014]</li> </ul>	
13	24-Cr-52(n,xd),(n,xt) Cross section	Threshold -65 MeV	23 Oct. 2007		
14	94-Pu-242(n,g),(n,tot) Cross section	0.5 eV- 2 keV	6 July 2007	<p>See US feedback form by D. Brown</p> <p><i>Experiments</i></p> <ul style="list-style-type: none"> <li>• n_TOF: (n,g) [Lerendegui2016]</li> </ul>	

ID	Reaction Quantity	Energy range	Date entry created	Feedback (new experiments, comments, references, EXFOR, ...)	Status
15	95-Am-241(n,g),(n,tot) Cross section	Thermal	8 Nov. 2007	<p><i>Experiments</i></p> <ul style="list-style-type: none"> <li>• IRMM: C. Lampoudis et al., EPJ+ 128 (2013) 86, Neutron transmission and capture cross section measurements for 241Am at the GELINA facility</li> <li>• n_TOF: (n,g) [Fraval2014, EXFOR 23237] [Mendoza2014]</li> </ul> <p><i>Theory/Evaluation</i></p> <ul style="list-style-type: none"> <li>• CEA: G. Noguere et al., PRC 92 (2015) 014607 Partial-wave analysis of n+Am-241 reaction cross sections in the resonance region</li> </ul>	
16	95-Am-243(n,f) Prompt neutrons	Thermal-10 MeV	8 Nov. 2007		
17	96-Cm-244(n,f) Prompt neutrons	Thermal-10 MeV	8 Nov. 2007		

ID	Reaction Quantity	Energy range	Date entry created	Feedback (new experiments, comments, references, EXFOR, ...)	Status
18	92-U-238(n,inel) Cross section	65 keV- 20 MeV	28 Mars 2008	<p>See US feedback form by D. Brown</p> <p><i>Experiments</i></p> <ul style="list-style-type: none"> <li>• New experiment done with the prompt spectroscopy gamma method coupled to time of flight measurements @ GELINA (JRC/IRMM). Beam from 2011 to 2013. Analysis in the finalization phase (36 (n,n' g) cross sections but also (n,2n g) and (n,3n g)). The final publication of the results is planned for the end of 2016 or the beginning of 2017 (EXFOR #22795.002)</li> <li>• From <math>\gamma</math> emissions to (n,xn) cross sections of interest : the role of GAINS and GRAPHEME in nuclear reaction modeling. M. Kerveno, et al., Eur. Phys. J. A, 51 12 (2015) 167</li> <li>• (n,xn <math>\gamma</math>) reaction cross section measurements for (n,xn) reaction studies. M. Kerveno, et al., WONDER 2012, 3rd International Workshop on Nuclear Data Evaluation for Reactor Applications, Aix-en-Provence, 25-28 septembre 2012 (EPJ web of conference, 42, 01005 (2013))</li> <li>• Study of (n,xn <math>\gamma</math>) reactions on 235,238U. A. Bacquias, et al., 13th International Conference on Nuclear Reaction Mechanisms, Varenna, Italie, 11-15 juin 2012 (CERN-Proceedings-2012-002) — (2012)</li> </ul> <p><i>Theory/Evaluation</i></p> <ul style="list-style-type: none"> <li>• A. Santamarina et al., ND2013, Nuclear Data Sheets 118 (2014) 118–121, Improvement of 238U Inelastic Scattering Cross Section for an Accurate Calculation of Large Commercial Reactors</li> <li>• R. Capote et al., ND2013, Nuclear Data Sheets 118 (2014) 26–31, Physics of Neutron Interactions with 238U: New Developments and Challenges</li> </ul>	
19	94-Pu-238(n,f) Cross section	9 keV- 6 MeV	31 Mars 2008		
21	95-Am-241(n,f) Cross section	180 keV- 20 MeV	31 Mars 2008	<p><i>Experiments</i></p> <ul style="list-style-type: none"> <li>• n_TOF: [Belloni2013, EXFOR 23148], new measurement planned in 2018 in EAR2</li> </ul>	

ID	Reaction Quantity	Energy range	Date entry created	Feedback (new experiments, comments, references, EXFOR, ...)	Status
22	95-Am-242m(n,f) Cross section	0.5 keV- 6 MeV	31 Mars 2008		
25	96-Cm-244(n,f) Cross section	65 keV- 6 MeV	4 April 2008		
27	96-Cm-245(n,f) Cross section	0.5 keV- 6 MeV	4 April 2008	<i>Experiments</i> <ul style="list-style-type: none"> <li>n_TOF: [Calviani2012, EXFOR 23168]</li> </ul>	
29	11-Na-23(n,inl) Cross section	0.5 MeV- 1.3 MeV	4 April 2008	See US feedback form by D. Brown <i>Experiments</i> <ul style="list-style-type: none"> <li>C. Rouki et al. NIM A 672 (2012) 82, High resolution measurement of neutron inelastic scattering cross-sections for <sup>23</sup>Na (GELINA).</li> <li>J.R. Vanhoy et al., Nucl. Phys. A 939, 121 (2015), Neutron scattering differential cross sections for <sup>23</sup>Na from 1.5 to 4.5 MeV; Int. Nucl. Phys. Conf. 2013 (IUPAP, Firenze), EPJ conf. 66(2014)03091; Kentucky University</li> </ul> <i>Theory/Evaluation</i> <ul style="list-style-type: none"> <li>CEA: P. Archier et al., NDS 118 (2014) 140, New JEFF-3.2 Sodium Neutron Induced Cross-sections Evaluation for Neutron Fast Reactors Applications: from 0 to 20 MeV</li> </ul>	
32	94-Pu-239(n,g) Cross section	0.1 eV- 1.35 MeV	4 April 2008	See US feedback form by F. Tovesson	
33	94-Pu-241(n,g) Cross section	0.1 eV- 1.35 MeV	4 April 2008		

ID	Reaction Quantity	Energy range	Date entry created	Feedback (new experiments, comments, references, EXFOR, ...)	Status
34	26-Fe-56(n,n') Cross section	800 keV- 20 MeV	4 April 2008	<p>See US feedback form by D. Brown</p> <p><i>Experiments</i></p> <ul style="list-style-type: none"> <li>• R.O. Nelson et al., ND2004, 1 (2004) 838, EXFOR 14118; Cross-section standards for neutron-induced gamma-ray production in the MeV energy range</li> <li>• C.M. Castaneda et al., NIM/B 260 (2007) 508, Gamma ray production cross sections from the bombardment of Mg, Al, Si, Ca and Fe with medium energy neutrons; EXFOR 14151 gamma-production cross section first level at six energies.</li> <li>• R. Beyer et al., EPJ CS 8 (2010) 070007, Measurement of inelastic neutron scattering cross section of Fe-56. EXFOR 23134</li> <li>• Z. Wang et al., CST 47 (2013) 2177, Study on coincidence measurement for 56Fe(n,xng) reaction cross section; EXFOR 32720; En=14.8 MeV</li> <li>• A. Negret et al., PRC 90 (2014) 034602, Cross-section measurements for the 56Fe(n,xng) reactions; EXFOR 23073; Inelastic cross section, level cross sections, gamma-production cross sections; close to target accuracy for the cross section.</li> <li>• R. Beyer et al., NPA 927 (2014) 41, Inelastic scattering of fast neutrons from excited states in 56Fe; inelastic cross section, level cross sections, gamma-production cross sections (missing in EXFOR).</li> <li>• Y. Danon et al., WONDER2015, EPJConf 111 (2016) 02001, Recent developments in nuclear data measurement capabilities at the Gaerttner LINAC Center at RPI.</li> <li>• Ongoing work at University of Kentucky (Vanhoy, Hicks, Yates et al.)</li> </ul> <p><i>Theory/Evaluation</i></p> <ul style="list-style-type: none"> <li>• See CIELO-FE initiative; OECD-NEA <a href="http://www.oecd-nea.org/science/wpec/sg40-cielo/">www.oecd-nea.org/science/wpec/sg40-cielo/</a>, <a href="http://www-nds.iaea.org/CIELO/">www-nds.iaea.org/CIELO/</a></li> </ul>	
35	94-Pu-241(n,f) Cross section	0.5 eV- 1.35 MeV	4 April 2008		



ID	Reaction Quantity	Energy range	Date entry created	Feedback (new experiments, comments, references, EXFOR, ...)	Status
36	92-U-238(n,g) Cross section	20 eV- 25 keV	15 Sept. 2008	<p>See US feedback form by D. Brown</p> <ul style="list-style-type: none"> <li>• H.I. Kim et al. EPJA 52(2016)170 Neutron capture cross section measurements for 238U in the resonance region at GELINA</li> <li>• n_TOF: [Mingrone2014][Wright2014]</li> <li>• Kopecky et al., Status of Evaluated Data Files for 238U in the Resonance region, JRC Technical Report, EUR 27504 EN (2015).</li> <li>• H. Naik et al., Radioanal.Nucl.Chem.303(2015)2497, Neutron induced reaction cross-section of 232Th and 238U at the neutron energies of 2.45 and 14.8 MeV.</li> <li>• J.L. Ullmann, et al., Phys. Rev. C 89, 034603 (2014), Cross section and <math>\gamma</math>-ray spectra for 238U(n, <math>\gamma</math>) measured with the DANCE detector array at the Los Alamos Neutron Science Center</li> <li>• A. Wallner et al., PRL112(2014)192501, Novel Method to Study Neutron Capture of 235U and 238U Simultaneously at keV Energies</li> <li>• R. Dagan et al., ND2013, NDS 118(2014)179, Impact of the Doppler Broadened Double Differential Cross Section on Observed Resonance Profiles</li> <li>• Q. Ducasse et al., ND2013 NDS119(2014)233 Neutron-induced Cross Sections of Actinides via the Surrogate-reaction Method</li> <li>• C. Lampoudis et al. ND2013, NDS119(2014)14 238U Neutron Capture Cross Section Measurements at the GELINA Facility</li> <li>• R. Crasta et al., NSE 178(2014) 66, Measurement of the 238U(n, <math>\gamma</math>)239U and 238U(n, 2n)237U Reaction Cross Sections Using a Neutron Activation Technique at Neutron Energies of 8.04 and 11.90 MeV</li> <li>• J. Ullmann et al., ND2010, J.KPS59(2011)1406, Measurement of the 238U Neutron-capture Cross Section and Gamma-emission Spectra from 10 eV to 100 keV Using the DANCE Detector at LANSCE</li> <li>• H. Derrien et al., NSE161(2009)131, R-Matrix Analysis of 238U High-Resolution Neutron Transmissions and Capture Cross Sections in the Energy Range 0 to 20 keV</li> <li>• A. Carlson et al., ND2007, EDP Sciences, p.1233 (2008), An international neutron cross section standards evaluation</li> <li>• R. Capote et al., ND2013, Nuclear Data Sheets 118 (2014) 26–31, Physics of Neutron Interactions with 238U: New Developments and Challenges</li> </ul>	

ID	Reaction Quantity	Energy range	Date entry created	Feedback (new experiments, comments, references, EXFOR, ...)	Status
37	94-Pu-240(n,f) Cross section	0.5 keV- 5 MeV	15 Sept. 2008	See US feedback form by F. Tovesson <i>Experiments</i> <ul style="list-style-type: none"> <li>• n_TOF: [Tsinganis2015]</li> <li>• P. Salvador et al., PRC 92 (2015) 014620, Neutron-induced fission cross section of 240Pu from 0.5 MeV to 3 MeV; EXFOR 23281</li> <li>• Ongoing work from a JRC-PTB-NPL collaboration and from a CENBG-CEA-JRC collaboration (ANDES and EMRP projects)</li> </ul>	
38	94-Pu-240(n,f) Nu-bar	200 keV- 2 MeV	15 Sept. 2008		
39	94-Pu-242(n,f) Cross section	200 keV- 20 MeV	15 Sept. 2008	See US feedback form by D. Brown <i>Experiments</i> <ul style="list-style-type: none"> <li>• n_TOF: [Tsinganis2014]</li> <li>• P. Salvador-Castiñeira, PRC 92 (2015) 044606, Neutron-induced fission cross sections of Pu242 from 0.3 MeV to 3 MeV (JRC, VdG); EXFOR 23280.</li> <li>• Ongoing work from a JRC-PTB-NPL collaboration [C. Matei et al., PRC 95 (2017) 024606] and from a CENBG-CEA-JRC collaboration (ANDES and EMRP projects)</li> </ul>	
40	14-Si-28(n,inl) Cross section	1.4 MeV- 6 MeV	15 Sept. 2008	<i>Experiments</i> <ul style="list-style-type: none"> <li>• H.-Y. Zhou, PRC 82 (2010) 047602, Investigation of discrete <math>\gamma</math> radiation in interactions of 14.9MeV neutrons with natural silicon by a total <math>\gamma</math>-radiation measurement technique</li> <li>• A. Negret et al., PRC 88 (2013) 034604, Cross sections for inelastic scattering of neutrons on 28Si and comparison with the 25Mg(<math>\alpha</math>,n)28Si reaction (GELINA inelastic); EXFOR 23173</li> <li>• A. Negret et al., PRC 88 (2014) 027601, Neutron inelastic scattering measurements for background assessment in neutrinoless double <math>\beta</math> decay experiments (partial data)</li> </ul>	

ID	Reaction Quantity	Energy range	Date entry created	Feedback (new experiments, comments, references, EXFOR, ...)	Status
41	82-Pb-206(n,inl) Cross section	0.5 MeV- 6 MeV	15 Sept. 2008	<p><i>Experiments</i></p> <ul style="list-style-type: none"> <li>• V.E. Guiseppe et al., PRC 79 (2009) 054604, Neutron inelastic scattering and reactions in natural Pb as a background in neutrinoless double-<math>\beta</math>-decay experiments</li> <li>• A. Negret, L.C. Mihailescu et al., PRC 91 (2013) 027601 Cross section measurements for neutron inelastic scattering and the (n, 2n gamma) reaction on 206Pb (overrules all earlier publications by these authors on this subject); EXFOR 23292</li> <li>• M. Kerveno et al., EPJA</li> </ul>	
42	82-Pb-207(n,inl) Cross section	0.5 MeV- 6 MeV	15 Sept. 2008	<p><i>Experiments</i></p> <ul style="list-style-type: none"> <li>• V.E. Guiseppe et al., PRC79(2009)054604, Neutron inelastic scattering and reactions in natural Pb as a background in neutrinoless double-<math>\beta</math>-decay experiments</li> </ul> <p>EXFOR 23286, L.C. Mihailescu et al., Neutron (n,xng) cross-section measurements for 52Cr, 209Bi, 206, 207, 208Pb from threshold up to 20 MeV, Report EUR 22343 EN, ISBN 92-79-02885-5, ISSN 1018-5593, European Communities (2006); From <math>\gamma</math> emissions to (n,xn) cross sections of interest : the role of GAINS and GRAPHEME in nuclear reaction modeling. M. Kerveno, et al. Eur. Phys. J. A, 51 12 (2015) 167; see Negret-2013 under Pb-206 for normalisation.</p>	
43	1-H-1(n,n) Cross section (dA)	10 MeV- 20 MeV	29 April 2011	See US feedback form by A. Carlson	
44	93-Np-237(n,f) Cross section	200 keV- 20 MeV	11 May 2015	<p><i>Experiments</i></p> <ul style="list-style-type: none"> <li>• n_TOF: [Paradela2010] [Diakaki2016], new measurements performed in 2016</li> <li>• Ongoing work at JRC-Geel in collaboration with NPL</li> </ul>	

## References

[Bacak2017] M. Bacak, et al., *A compact multi-plate fission chamber for the simultaneous measurement of 233U capture and fission cross-sections*,

- ND2016 Proceedings, EPJ Web of Conferences (2017)
- [Balibrea2014] J. Balibrea, et al., NDS 119 (2014) 10-13  
<http://dx.doi.org/10.1016/j.nds.2014.08.005>
- [Belloni2011] F. Belloni, et al., EPJ A 47 (2011) 160; EXFOR 23148  
<http://dx.doi.org/10.1140/epja/i2011-11160-x>
- [Belloni2013] F. Belloni, et al., EPJ A 49 (2013) 2  
<http://dx.doi.org/10.1140/epja/i2013-13002-3>
- [Billnert2014] R. Billnert, et al., *Prompt  $\gamma$ -ray Spectral Data from  $^{252}\text{Cf}(SF)$ ,  $^{235}\text{U}(n_{th}, f)$  and  $^{241}\text{Pu}(n_{th}, f)$* , GAMMA-2, Physics Procedia 59 (2014) 17-23, <http://dx.doi.org/10.1016/j.phpro.2014.10.003>
- [Budak2011] M. Budak, et al., *Experimental determination of effective resonance energies for  $^{158}\text{Gd}(n, \gamma)^{159}\text{Gd}$  and  $^{179}\text{Hf}(n, \gamma)^{180m}\text{Hf}$  reactions*, ANE 38 (2011) 2550, <http://dx.doi.org/10.1016/j.anucene.2011.07.014>
- [Calviani2012] M. Calviani, et al., PRC 85 (2012) 034616  
<http://dx.doi.org/10.1103/PhysRevC.85.034616>
- [Carrapiço2013] C. Carrapiço, E. Berthoumieux, et al., NIM A 704 (2013) 60-67  
<http://dx.doi.org/10.1016/j.nima.2012.11.082>
- [Chyzh2014] A. Chyzh, et al., *Total prompt  $\gamma$ -ray emission in fission of U-235, Pu-239,241, and Cf-252*, PRC 90 (2014) 014602  
<http://dx.doi.org/10.1103/PhysRevC.90.014602>
- [CSEWG2014] CSEWG/CIELO, BNL, Brookhaven, USA, Nov. 3-5, 2014  
<https://indico.bnl.gov/conferenceDisplay.py?confId=868>
- [Dean2011] C. Dean et al., *Evaluation of Neutron Cross Sections for Hafnium in the Resolved Resonance Range*, ND2010, J. KPS 59 (2011) 1884,  
<http://dx.doi.org/10.3938/jkps.59.1884>
- [Diakaki2016] M. Diakaki, et al., PRC 93 (2016) 034614  
<http://dx.doi.org/10.1103/PhysRevC.93.034614>
- [Fraval2014] K. Fraval, et al., PRC 89 (2014) 044609  
<http://dx.doi.org/10.1103/PhysRevC.89.044609>
- [Giorginis2008] G. Giorginis, et al. (V.A. Khryachkov), *The cross section of the  $^{16}\text{O}(n, \alpha)^{13}\text{C}$  reaction in the MeV energy range*, ND2007

<http://dx.doi.org/10.1051/ndata:07481>

- [Hale2014] G. Hale and M. Paris, *Status and plans for  $^1\text{H}$  and  $^{16}\text{O}$  evaluations by R-matrix analyses of the N-N and  $^{17}\text{O}$  systems*, NEMEA-7/CIELO, NEA/NSC/DOC(2014)13, page 13, <https://www.oecd-nea.org/science/docs/2014/nsc-doc2014-13.pdf>
- [Khryachkov2011] V.A. Khryachkov, et al., *Study of  $(n,\alpha)$  Reaction Cross Section on a Set of Light Nuclei*, ISINN-18, Sept. 2011, Dubna, Russia  
<http://isinn.jinr.ru/proceedings/isinn-18/pdf/Khryachkov.pdf>
- [Khryachkov2012] V.A. Khryachkov, et al. (G. Giorginis),  *$(n,\alpha)$  reaction cross section research at IPPE, CNR\*11*, EPJ Web of Conferences 21 (2012) 03005  
<http://dx.doi.org/10.1051/epjconf/20122103005>
- [Kim2005] G. Kim, et al., *Measurement of Total Cross Sections at Pohang Neutron Facility*, ND2004, Santa Fe, New Mexico, USA, 26 September-1 October 2004, AIP Conf. 769 (2005) 740, <http://dx.doi.org/10.1063/1.1945113>
- [Kunieda2014] S. Kunieda, et al., *R-matrix Analysis for  $n + ^{16}\text{O}$  Cross-sections up to  $E_n = 6.0$  MeV with Covariances*, NDS 118 (2014) 250-253  
<http://dx.doi.org/10.1016/j.nds.2014.04.050>
- [Kwan2012] E. Kwan, et al., *Prompt energy distribution of  $^{235}\text{U}(n,f)\gamma$  at bombarding energies of 1–20 MeV*, NIM A 688 (2012) 55  
<http://dx.doi.org/10.1016/j.nima.2012.06.003>
- [Lebois2014] M. Lebois, et al., *Prompt  $\gamma$ -rays from the Fast Neutron Induced Fission on  $^{235,238}\text{U}$  and  $^{232}\text{Th}$* , GAMMA-2, Physics Procedia 59 (2014) 37-41, <http://dx.doi.org/10.1016/j.phpro.2014.10.006>
- [Lebois2015] M. Lebois, et al., *Comparative measurement of prompt fission  $\gamma$ -ray emission from fast-neutron-induced fission of U-235 and U-238*, PRC 92 (2015) 034618, <http://dx.doi.org/10.1103/PhysRevC.92.034618>
- [Lerendegui2016] J. Lerendegui, et al., EPJ Web of Conferences 111 (2016) 02005  
<http://dx.doi.org/10.1051/epjconf/201611102005>
- [Mendoza2014] E. Mendoza, et al., NDS 119 (2014) 65-68 (+final paper in preparation)  
<http://dx.doi.org/10.1016/j.nds.2014.08.020>
- [Mingrone2014] F. Mingrone, et al., NDS 119 (2014) 18-21 (+final paper in preparation)  
<http://dx.doi.org/10.1016/j.nds.2014.08.007>
- [Noguere2009] G. Noguere, et al., *Average neutron parameters for hafnium*, NPA 831 (2009) 106,  
<http://dx.doi.org/10.1016/j.nuclphysa.2009.08.011>

- [Oberstedt2013] S. Oberstedt, et al., *Prompt fission  $\gamma$ -rays from the reactions  $^{252}\text{Cf}(SF)$  and  $^{235}\text{U}(n_{th}, f)$  – new data*, EPJ Web of Conferences 62 (2013) 02003  
<http://dx.doi.org/10.1051/epjconf/20136202003>
- [Oberstedt2015] S. Oberstedt, et al., *Future research program on prompt  $\gamma$ -ray emission in nuclear fission*, Eur. Phys. J. A (2015) 51: 178  
<http://dx.doi.org/10.1140/epja/i2015-15178-8>
- [Paradela2010] C. Paradela, et al., PRC 82 (2010) 034601  
<http://dx.doi.org/10.1103/PhysRevC.82.034601>
- [Trbovich2009] M.J. Trbovich, et al., *Hafnium resonance parameter analysis using neutron capture and transmission experiments*, NSE 161 (2009) 303,  
<http://dx.doi.org/10.13182/NSE161-303>
- [Tsinganis2015] A. Tsinganis, et al., Conf. on Nuclear Reaction Mechanisms, Varenna, June 2015  
<http://cds.cern.ch/record/2115357>
- [Tsinganis2014] A. Tsinganis, et al., NDS 119 (2014) 58-60  
<http://dx.doi.org/10.1016/j.nds.2014.08.018>
- [Wisshak2006] K. Wisshak, et al., *Fast neutron capture on the Hf isotopes: Cross sections, isomer production, and stellar aspects*, PRC 73 (2006) 045807,  
<http://dx.doi.org/10.1103/PhysRevC.73.045807>
- [Wright2014] T. Wright, et al., NDS 119 (2014) 26-30 (+final paper in preparation)  
<http://dx.doi.org/10.1016/j.nds.2014.08.009>