

**List of Publications by the CRP participants relevant to the IAEA project  
"Testing and Improving the International Reactor Dosimetry and Fusion File (IRDF)"  
published during the CRP period**

*(compilation in progress)*

1. M. Majerle, P. Bém, J. Novák, E. Šimečková, S. P. Simakov, U. Fischer, Validation of  $^{59}\text{Co}$  and  $^{93}\text{Nb}$  activation cross sections in a quasi-mono energetic neutron spectrum ( $< 35$  MeV) including irradiation, measurement and computational analysis, [Report INDC\(CZR\)-0002](#), IAEA, April 2016
2. K.I. Zolotarev "Evaluation of  $^{23}\text{Na}(n,\gamma)^{24}\text{Na}$ ,  $^{23}\text{Na}(n,2n)^{22}\text{Na}$ , and  $^{27}\text{Al}(n,2n)^{26}\text{Al}$  reaction cross sections for the IRDF library", [INDC\(NDS\)-0706](#), 2016 (in preparation)
3. P.J. Griffin, Covariance Propagation in Spectral Indices, [Nuclear Data Sheets 123\(2015\)104](#)
4. Arjan Plompen, The potential for improved activation measurements in the thermal fission neutron spectrum of U-235, JRC Technical Reports, 2015, <https://ec.europa.eu/jrc/>
5. M. Majerle, P. Bem, J. Novak, E. Simeckova, M. Stefanik, "Au, Bi, Co and Nb cross-section measured by quasimonoenergetic neutrons from  $p + ^7\text{Li}$  reaction in the energy range of 18-36 MeV", to appear in Nucl. Phys. A, 2016
6. Y. Iwamoto, M. Hagiwara, D. Satoh, S. Araki, H. Yashima et al., "Characterization of high-energy quasi-monoenergetic neutron energy spectra and ambient dose equivalents of 80–389 MeV  $^7\text{Li}(p,n)$  reactions using a time-of-flight method", [NIM A804\(2015\)50](#)
7. Y. Iwamoto, M. Hagiwara, H. Iwase, H. Yashima et al., "Characterization of quasi-monoenergetic neutron source using 137, 200, 246 and 389 MeV", Progress in Nuclear Science and Technology 4 (2014) 657; [http://www.aesj.or.jp/publication/pnst004/data/657\\_660.pdf](http://www.aesj.or.jp/publication/pnst004/data/657_660.pdf)
8. S. Sato, S. Kwon, M. Ohta, K. Ochiai, C. Konno, "Integral test of International Reactor Dosimetry and Fusion File with  $\text{Li}_2\text{O}$  assembly and DT neutron source at JAEA/FNS", Fus. Eng. Des. 2015 (in press)
9. M. Ohta, S. Sato, K. Ochiai, C. Konno, "Integral Test of International Reactor Dosimetry and Fusion File on Graphite Assembly with DT Neutron at JAEA/FNS", Fus. Eng. and Design (in press) (2015).
10. I. Kodeli, "Validation of IRDF-v1.04 (and v.1.05) Dosimetry Library using SINBAD Shielding Benchmark Experiments", Report [INDC\(SLO\)-0002](#), IAEA, Feb 2015, available on-line: <http://int-nds.iaea.org/publications/indc/indc-slo-0002.pdf>
11. G. Žerovnik et al., "Validation of the neutron and gamma fields in the JSI TRIGA reactor using in-core fission and ionization chambers," Applied Radiation and Isotopes 96 (2015) 27–35
12. L.R. Greenwood and C.D. Johnson, "Least-Squares Neutron Spectral Adjustment with STAYSL PNNL", ISRD-15, Aix en Provence, May 2014, EPJ Web of Conferences **106**, 07001 (2016) <http://dx.doi.org/10.1051/epjconf/201610607001>
13. P.J. Griffin, "Use of Neutron Benchmark Fields for the Validation of Dosimetry Cross Sections," ISRD-15, May 2014, Aix-en-Provence, EPJ Web of Conferences **106**, 04001 (2016) <http://dx.doi.org/10.1051/epjconf/201610604001>
14. V.P. Chechev and N.K. Kuzmenko, Nuclear decay data for the International Reactor Dosimetry Library for Fission and Fusion (IRDF): updated evaluations of the half-lives and gamma ray intensities, ISRD-15, May 2014, EPJ Web of Conferences 106 (2016) 04010, <http://dx.doi.org/10.1051/epjconf/201610604010>
15. S. Simakov, R. Capote, L. Greenwood, P. Griffin, A. Kahler, V. Pronyaev, A. Trkov and K. Zolotarev, "Validation of IRDF in  $^{252}\text{Cf}$  standard and IRDF-2002 reference neutron fields", ISRD-15, May 2014, Aix-en-Provence, EPJ Web of Conferences 106 (2016) 04011, <http://dx.doi.org/10.1051/epjconf/201610604011>
16. K. Zolotarev and S. Badikov, Evaluation of the  $^{93}\text{Nb}(n,\gamma)$  Reaction Cross-Section, ISRD-15, May 2014, Aix-en-Provence, EPJ Web of Conferences 106 (2016) 04013, <http://dx.doi.org/10.1051/epjconf/201610604013>
17. S. Manojlovič, A. Trkov et al., "Capture cross section measurement analysis in the Californium-252 spectrum with the Monte Carlo method", Appl. Rad. and Isotopes 101 (2015) 101
18. K.I. Zolotarev, "Evaluation excitation functions for  $^{28}\text{Si}(n,p)^{28}\text{Al}$ ,  $^{31}\text{P}(n,p)^{31}\text{Si}$ , and  $^{113}\text{In}(n,\gamma)^{114\text{m}}\text{In}$  reactions", IAEA [Report INDC\(NDS\)-0668](#), Oct 2014,
19. N.V. Kornilov, "Verification of the  $^{252}\text{CF}$  Standard in the Energy Range 2 - 20 MeV", Report [INDC\(USA\)-108](#), July 2015

20. M. Majerle, P. Bem, J. Novak, E. Simeckova, M. Stefanik, S. Simakov, and U. Fischer, Quality Assurance of the Cross-sections Measured on p+Li/C Source, [Nuclear Data Sheets 119\(2014\)425](#)
21. M. Stefanik, P. Bem, M. Gotz, K. Katovsky, M. Majerle, J. Novak and E. Simeckova, Neutron Spectrum Determination of the p(35 MeV)-Be Source Reaction by the Dosimetry Foils Method, [Nuclear Data Sheets 119\(2014\)422](#)
22. P. Chudoba, S. Kilim, V. Wagner, J. Vrzalova, O. Svoboda, M. Majerle, M. Stefanik et al. Measurement of Cross-sections of Yttrium (n,xn) Threshold Reactions by Means of Gamma Spectroscopy, [Physics Procedia 59\(2014\)114](#)
23. S. Simakov, L. Greenwood, and R. Capote, Validation of the international reactor dosimetry and fusion file, Progress in Nuclear Science and Technology, Volume 4 (2014) pp. 591-595; available on-line: [http://www.aesj.or.jp/publication/pnst004/data/591\\_595.pdf](http://www.aesj.or.jp/publication/pnst004/data/591_595.pdf)
24. R. Capote, K.I. Zolotarev, V.G. Pronyaev, A. Trkov, "Updating and Extending the IRDF-2002 Dosimetry Library", ISRD-14, ASTM proceedings, [http://www.astm.org/DIGITAL\\_LIBRARY/JOURNALS/JAI/PAGES/JAI104119.htm](http://www.astm.org/DIGITAL_LIBRARY/JOURNALS/JAI/PAGES/JAI104119.htm)

**List of Publications by non CRP participants relevant to this IAEA project**  
(*compilation in progress*)

1. A.A. Filatenkov, Neutron Activation Cross Sections Measured at KRI in Neutron Energy Region 13.4 – 14.9 MeV, [INDC\(CCP\)-0460](#), IAEA, March 2016
2. S. Oberstedt et al., Future research program on prompt  $\gamma$ -ray emission in nuclear fission, Eur. Physical Journal A51(2015)178; <http://rd.springer.com/article/10.1140/epja/i2015-15178-8>
3. M. Zaman, G. Kim, K. Kim, H. Naik, M. Shahid, and M. Lee, Measurement of activation cross-sections for high-energy neutron-induced reactions of Bi and Pb, Eur. Phys. J. A51 (2015) 104, available on-line: <http://link.springer.com/content/pdf/10.1140/epja/i2015-15104-2>
4. M. Zaman et al., Measurement of cross-sections for  $^{89}\text{Y}(n,xn)$  reaction at average neutron energies of 15–36 MeV, JRNC, 303(1) 815 (2015)
5. M. Zaman et al., Quasi-mono energy neutron source with  $^9\text{Be}(p,xn)$  reaction for activation experiments at 25~45 MeV, to be published
6. S.G. Mashnik and J.S. Bull, MCNP6 Simulation of Quasi-Monoenergetic  $^7\text{Li}(p,n)$  Neutron Sources below 150 MeV, Nuclear Data Sheets 118 (2014) 323–325
7. H. Naik, G.N. Kim, R. Schwengner, K. Kim, et al., Fission product yield distribution in the 12, 14, and 16 MeV bremsstrahlung-induced fission of  $^{232}\text{Th}$ , [Eur. Phys. J. A \(2015\) 51: 150](#)
8. H. Naik, G.N. Kim, R. Schwengner, K. Kim et al., Photo-neutron reaction cross-section for  $^{93}\text{Nb}$  in the end-point bremsstrahlung energies of 12–16 and 45–70 MeV, Nuclear Physics A916 (2013)168
9. N.P. Luciano, A High-Energy Neutron Flux Spectra Measurement Method for the Spallation Neutron Source, [MS Thesis](#), Tennessee, 2012