

Seznam publikovaných prací souvisejících s disertační prací:
List of publications related to thesis:

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1. D. Harutyunyan, S. Vandlík, M. Schulc, M. Ruscak, E. Novak, Applicability of LR-0 mock-up results to VVER-1000 reactor pressure vessel issues, *Annals of Nuclear Energy*, Volume 98, 2016, Pages 157-165, ISSN 0306-4549.
 2. D. Harutyunyan, M. Košťál, S. Vandlík, A. Hojná, M. Schulc, S. Flibor, Estimation of material degradation of VVER-1000 baffle, January 2017 *The European Physical Journal* 153:07019 DOI: 10.1051/epjconf/201715307019.
 3. D. Harutyunyan, I. Mirzov, M. Košťál, M. Schulc, and V. Klupák, Estimation of Void Swelling in VVER-1000 Baffle Using Benchmark in LR-0 Reactor. In *STP1608-EB Reactor Dosimetry: 16th International Symposium*, ed. M. Sparks, K. DePriest, and D. Vehar, (pp. 321-334). West Conshohocken, PA: ASTM International, 2018. doi: <https://doi.org/10.1520/STP160820170091>.
 4. D. Harutyunyan, I. Mirzov, M. Schulc, Void Swelling in VVER-1000 Pressure Vessel Internals, *M&C 2017 - International Conference on Mathematics & Computational Methods Applied to Nuclear Science & Engineering*, Jeju, Korea, April 16-20, 2017.
 5. M. Schulc, M. Košťál, D. Harutyunyan, S. Simakov, V. Rypar, J. Šimon, N. Burianová, E. Novák, B. Janský, M. Mareček and J. Uhlíř, Validation of differential cross sections by means of ²⁵²Cf spectral averaged cross sections, *Applied Radiation and Isotopes*, Volume 132, 2018, Pages 29-37, ISSN 0969-8043.
 6. M. Schulc, B. Janský, D. Harutyunyan and E. Novák, Natural iron isotopes influence on the neutron transport, *Applied Radiation and Isotopes*, Volume 130, 2017, Pages 224-229, ISSN 0969-8043.
 7. M. Schulc, M. Košťál, D. Harutyunyan, E. Novák, Disentangling the ¹⁶O cross section using light water and heavy water benchmark assemblies, *Applied Radiation and Isotopes*, Volume 133, 2018, Pages 45-50, ISSN 0969-8043.
 8. M. Schulc, M. Košťál, D. Harutyunyan, P. Baroň, E. Novák, On ⁵⁴Fe neutron cross section importance in iron, *Applied Radiation and Isotopes*, Volume 128, 2017, Pages 86-91, ISSN 0969-8043.
 9. M. Košťál, V. Rypar, E. Losa, D. Harut, M. Schulc, The influence of core power distribution on neutron flux density behind a pressure vessel of a VVER-1000 Mock Up in LR-0 reactor, *Applied Radiation and Isotopes*, Volume 142, 2018, Pages 12-21, ISSN 0969-8043.
 10. M. Košťál, E. Losa, M. Schulc, J. Šimon, D. Harut, V. Klupák, T. Czako, V. Juříček, Z. Matěj, F. Cvachovec, V. Rypar, The effect of local power increase on neutron flux in internal parts of the VVER-1000 Mock-Up in LR-0 reactor, *Annals of Nuclear Energy*, Volume 121, 2018, Pages 567-576, ISSN 0306-4549.
 11. M. Košťál, Z. Matěj, E. Losa, O. Huml, M. Štefánek, F. Cvachovec, M. Schulc, B. Janský, E. Novák, D. Harutyunyan, V. Rypar, On similarity of various reactor spectra and ²³⁵U prompt fission neutron spectrum, *Applied Radiation and Isotopes*, Volume 135, 2018, Pages 83-91, ISSN 0969-8043.
 12. M. Košťál, E. Losa, Z. Matěj, V. Juříček, D. Harutyunyan, O. Huml, M. Štefánek, F. Cvachovec, F. Mravec, M. Schulc, T. Czako, V. Rypar, Characterization of mixed N/G

beam of the VR-1 reactor, *Annals of Nuclear Energy*, Volume 122, 2018, Pages 69-78, ISSN 0306-4549.

13. M. Schulc, P. Baroň, E. Novák, B. Jánský, D. Harutyunyan, Measurement of reaction rates for different neutron induced reactions in ^{27}Al , *Applied Radiation and Isotopes*, Volume 118, 2016, Pages 277-280, ISSN 0969-8043.
14. M. Košťál, F. Cvachovec, B. Jánský, V. Rypar, V. Juříček, D. Harutyunyan, M. Schulc, J. Milčák, E. Novák, S. Zaritsky, Neutron deep penetration through reactor pressure vessel and biological concrete shield of VVER-1000 Mock-Up in LR-0 reactor, In *Annals of Nuclear Energy*, Volume 94, 2016, Pages 672-683, ISSN 0306-4549.
15. M. Košťál, M. Schulc, J. Šimon, N. Burianová, D. Harutyunyan, V. Rypar, Measurement of various monitors reaction rate in a special core at LR-0 reactor, *Annals of Nuclear Energy*, Volume 112, 2018, Pages 759-768, ISSN 0306-4549.