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Analysis of discrepancies in experimental data for Np-237 fission cross section

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Nuclear reaction data at fast neutron energies play a key role in the development of new nuclear reactor concepts and, in particular, of the Accelerator Driven Systems dedicated to waste transmutation. However, the evaluated cross sections for Np-237, one of the more abundant isotopes in the spent fuel, are discrepant and they do not provide the required accuracy required for practical applications.

This work is devoted to the analysis of available experimental data on the neutron-induced fission cross section for Np-237. We discuss the impact of the new data obtained at the n_TOF facility (CERN) which extend the energy range up to 1 GeV.

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