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Back on the iron throne: A new measurement of the 56Fe(n,inl) and 56Fe(p,inl) cross sections

Wednesday 11 October 2023 09:00 (35 minutes)

New measurements of the nucleon inelastic scattering cross sections was proposed in response to the concerns raised by the evaluators community with regard to the previous experiments, including our measurement published in 2014 [1].
The current experimental campaign includes a measurement of the proton inelastic scattering at the 9-MV Tandem accelerator of IFIN-HH, Romania and one of the neutron inelastic cross sections at the GELINA neutron source of JRC-Geel, Belgium.
We will report on the current status of the two experiments scheduled in 2022.
[1] A. Negret, C. Borcea, Ph. Dessagne, M. Kerveno, A. Olacel, A.J.M. Plompen, and M. Stanoiu, Physical Review C90, 034602 (2014)

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Track Classification: Recent Experimental Results of Elastic and Inelastic Neutron Scattering