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High accuracy neutron inelastic cross section measurements on ^{206}Pb

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The design of the Generation IV lead-cooled fast reactors and of the future accelerator-driven systems require the knowledge of neutron inelastic cross sections on ^{206}Pb with a precision of the order of 5%. An extended experiment consisting of two largely independent measurements was conducted at the GELINA neutron source operated by EC-JRC-IRMM. We present in detail the experimental technique we used in order to achieve the high precision required by the applications. The results are compared with previous experimental data and with various theoretical calculations.

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