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Nuclear research activities and open access program at GELINA facility

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GELINA is an European Commission nuclear research facility installed at the JRC-Geel site in Belgium [1]. During more than 50 years, this neutron time-of-flight facility has been devoted to the measurement of neutron-induced cross sections. The main interest focus on nuclear energy applications but other research topics such as nuclear astrophysics or medical applications are considered. Their experimental capabilities are continuously upgraded, for instance, with an experimental setup for measuring fast neutron elastic and inelastic scattering cross sections, a new flight-path transmission station for measuring samples at high temperature or a new beamline in the target hall to study gamma-induced reactions.

GELINA takes part in the open access program to JRC Research Infrastructures [2]. This access is offered to researchers from EU Member States, candidate and associated countries. At this conference, we will present an overview of the results obtained within this open access framework.

[1] W. Mondelaers and P. Schillebeeckx, Notiziario Neutroni e Luce di Sincrotrone, 11 no2, 19-25 (2006).

[2] https://joint-research-centre.ec.europa.eu/knowledge-research/open-access-jrc-research-infrastructures_en

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