



TRANSNATIONAL ACCESS ACTIVITIES AT THE NEUTRON DATA MEASUREMENT FACILITIES OF THE JRC

The Transnational Access programme at JRC-IRMM facilitates the access of outside users to the facilities of the Neutron Physics unit and promotes a coherent use of the measurement infrastructure in order to meet high-priority neutron data requests from European industry, safety authorities and nuclear research community.

External users can propose experiments in the thematic area addressed in the EURATOM Fission Framework Programme, with preference to the areas of radioactive waste management and innovative nuclear reactor systems.

NUDAME Neutron Data measurements at IRMM

FP6 project funded under the EURATOM Management of Radioactive waste programme

EC support : 264 k€



Start : 01/04/2005 End : 31/03/2008

- IRMM offered 3000 supplementary data taking hours to external users.
- 22 experiments were proposed, exceeding about 2.5 times the beam time which could be provided.
- 18 proposals were approved by the Programme Advisory Committee.
- the approved experiments were proposed by 96 researchers from 22 European institutions.
- 94% of the supported scientists were using the IRMM facilities for the first time.



EUFRAT European Facility for innovative reactor and transmutation data



FP7 project funded under the EURATOM Nuclear Research and Training Activities programme

EC support : 503 k€

Start : 01/11/2008 End : 31/10/2012



- IRMM offers 4500 supplementary data taking hours to external users: 3600 hours at GELINA and 900 hours at the Van de Graaff accelerator.
- proposals for experiments of external users are evaluated by a Programme Advisory Committee composed of high-level experts belonging to relevant international organisations or representing the stakeholder community.
- the EUFRAT Programme Advisory Committee will select experiments that:
 - generate results of high scientific quality,
 - match to the neutron data community demands,
 - have high priority for nuclear industry and research laboratories
 - are important for the strategic goals of the EURATOM Work Programme.

Objectives of the Transnational Access activities at IRMM

- focus measurements on the international neutron data needs for innovative nuclear systems, as expressed by the nuclear industry, the scientific nuclear data community or the Generation IV International Forum (GIF).
- obtain new or more accurate neutron cross-section data for fission reactor technology, fission reactor and fuel cycle safety, high burn-up fuels, nuclear waste transmutation and innovative reactor systems.
- make results available to the international data centres operated by the NEA Data Bank of the OECD (Paris) and by the IAEA (Vienna). These data banks have open access.
- offer unique training opportunities for young PhD students, an important aspect in view of the declining number of European nuclear science specialists.

More information : <http://www.irmm.jrc.be/>



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