

## General Interest Talk - Nuclear Astrophysics at n-TOF

*Tuesday, 26 November 2013 17:50 (30 minutes)*

After a brief description of the n\_TOF facility and of the experimental setups employed for capture and fission measurements, an overview of the most notable results obtained so far in the first experimental area (EAR1) - especially focused on nuclear astrophysics - will be presented in the seminar.

The capability of the facility and the extent of the experimental program will be significantly expanded with the new vertical experimental area (EAR2), presently under construction and ready by mid-2014. This upgrade will open the possibility to measure neutron-induced cross-section on low mass samples and drastically increase the measurement sensitivity.

A report on the future measurements proposed by the n\_TOF Collaboration over the course of the next few years will also be given.

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**Session Classification:** Astrophysics