



NES Colloquium

Tuesday, 19 January 2016, 11:00 - 12:00, OSGA/EG06

LRC: Laboratory of Radiochemistry

Prof. Dr. A. Türler, PSI & UNIBE

The laboratory of radiochemistry (LRC) is a joint unit of the Paul Scherrer Institute (PSI) and the University of Bern (UNIBE). It covers various topics of basic research in the field of nuclear chemistry. At PSI we focus on the investigation of the chemical and nuclear properties of super-heavy elements and concentrate on the isolation and characterization of very exotic, long-lived radionuclides contained in various materials in storage at PSI, mainly derived from accelerator operations. An emerging activity jointly with the Center of Radiopharmaceutical Sciences (CRS/BIO) concerns the production of novel radionuclides for medical applications (diagnosis and cancer therapy) using PSI's large-scale facilities.

At UNIBE we operate an accelerator mass spectrometer for research with ^{14}C as tracer and a state of the art radiopharmaceutical production facility including a newly installed cyclotron for radionuclide production.