

**Plenarvortrag**

PV I Mo 11:15 Audimax

**Neutron-rich nuclei: recent in-beam gamma spectroscopy results from the RIBF** — ●ALEXANDRE OBERTELLI — IKP, TU Darmstadt, Germany

Neutron-rich nuclear systems reveal particular phenomena such as shell evolution, halos and neutron skins. Large efforts are being made world-

wide to reach the most neutron-rich nuclei and investigate how their structure differ from stable ones, leading to stringent tests for the predictive power of state-of-the art nuclear structure models.

In this talk, results from a three-year gamma-spectroscopy campaign at the Radioactive Isotope Beam Factory (RIBF) of RIKEN in Japan, today's most powerful accelerator to produce neutron-rich nuclei, will be presented with a focus on the nuclear structure at and nearby  $^{78}\text{Ni}$ .