Contribution ID: **78** Type: **Oral**

Felsenkeller shallow-underground 5 MV accelerator

Wednesday 7 September 2022 09:45 (15 minutes)

For low-background cross-section measurements, it is beneficial to host an ion accelerator in an underground setting, shielded from cosmic rays. The Felsenkeller 5 MV underground ion accelerator in Dresden, Germany, is the second such facility in Europe and has recently become accessible using EU-supported transnational access. The contribution will review recent progress at Felsenkeller: The three main ion beam species (H-1 and He-4 from the internal and C-12 from the external ion source) have now all been developed successfully. The first experiment by external users has been completed. An HPGe-detector based offline gamma-counting setup with muon veto has been commissioned and tested.

Field of work

Author: BEMMERER, Daniel

Co-authors: ZUBER, Kai (Technische Universitaet Dresden); SCHMIDT, Konrad (Helmholz-Zentrum Dresden-Rossendorf, Institute of Radiation Physics, Dresden, Germany)

Presenter: BEMMERER, Daniel

Session Classification: Wednesday - Session 1