



Contribution ID: 107

Type: **Talk**

Bernhard Siebenborn (Karlsruhe Inst. of Technology (KIT)): Results from the EDELWEISS-III Dark Matter search, prospects for EDELWEISS-LT and beyond

Friday 23 February 2018 09:30 (15 minutes)

EDELWEISS is a phased direct Dark Matter search program looking for WIMPs in the GeV-TeV mass range with cryogenic Ge mono-crystals. The simultaneous measurement of heat via thermal sensors (NTDs) and ionization signals allows for discrimination of nuclear against electron recoils. We present our results of the first stage of EDELWEISS-III and discuss the currently ongoing R&D approaches and measurements to further improve the experiment's sensitivity to smaller WIMP masses by utilizing the Neganov-Trofimov-Luke effect in EDELWEISS-LT. The timeline and the anticipated sensitivity will be presented together with an outlook beyond EDELWEISS-LT.

Presenter: SIEBENBORN, Bernhard (Karlsruhe Institute of Technology (KIT))

Session Classification: Session 12