



## Poster session 4 – Friday 8 July

### P4.011 EDELWEISS-III: low mass WIMP results and perspectives

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*on behalf EDELWEISS collaboration*

The EDELWEISS-III experiment aims at the direct detection of dark matter at the Modane Underground Laboratory. It consists of twenty-four advanced high purity 800 g Germanium bolometers working at 18 mK in a dilution refrigerator. These detectors are able to identify rare nuclear recoils induced by elastic scattering of WIMPs from the Galactic halo thanks to a coincident read-out of heat and ionization signals.

Results in the WIMP mass region 4-30 GeV/c<sup>2</sup> extracted from data acquired in a long exposure campaign will be presented. Different background sources and rejection techniques will be discussed. The presented results constitute a large improvement with respect to the previous EDELWEISS-II low-mass WIMP search. The corresponding exclusion limit is in tension with published indications for a potentially WIMP-induced signal and represents a complementary confirmation of the latest LUX and SuperCDMS studies.

Plans for the next phase as well as current R&D activities and sensitivity projections will be also presented.