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Cryogenic detectors for the EDELWEISS Dark Matter Search

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EDELWEISS is a direct dark matter search looking for Weakly Interacting Massive Particles (WIMPs). In order to measure the low energies of nuclear recoils coming from the scattering of WIMPs from the galactic halo, EDELWEISS uses very sensitive Ge cryogenic detectors in a low radioactivity environment. During its first stage, up to 3 Ge 320 g detectors have been used simultaneously. The second stage, started in January 2006 with an increased detection mass and improved detectors, aims to gain two orders of magnitude in sensitivity.

Author: LUCA, Melisa (Uni Claude Bernard Lyon)

Presenter: LUCA, Melisa (Uni Claude Bernard Lyon)

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