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Status of DM searches with EDELWEISS

Tuesday 31 May 2016 18:10 (20 minutes)

Summary

The EDELWEISS experiment is operating an array of bolometric detectors for the direct search of WIMP dark matter in the Modane Underground Laboratory. After a brief discussion on the performances of the latest generation "FID" detectors, I will present the results of a recently published search for low-mass WIMPs which is in tension with hints of WIMP signals from other experiments. I will also present ongoing R&D developments which will allow to explore in a short timescale uncharted parameter space for WIMPs in the few GeV/c^2 mass range.

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