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Large Active Rejection Detectors measuring inization and heat simulaneously for the Edelweiss collaboration

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For events produced by betas, X and gammas rays underneath the surface of ionization and heat detectors, the collection of free charge carriers is poor. This is a strong limiting factor for Dark Matter research as WIMPs. For such events, electron recoils can indeed mimic nuclear recoils which generated by WIMPs. The solution is to localize of the interaction. This is the reason position sensitive detectors are developed for Edelweiss experiment.
In this paper we present the design of the two possible solutions of large active rejection detectors, and we report the result of the first data taking in the Frejus Underground Labs (LSM) in the Edelweiss-2 experiment with these detectors.

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