

First results of CUPID-0

Monday 24 July 2017 15:45 (15 minutes)

CUPID-0 (former LUCIFER experiment) represents the first demonstrator towards CUPID (Cuore Upgrade with Particle IDentification). CUPID-0 -consisting of an array of 24 enriched Zn82Se scintillating bolometers totalling $3.5 \cdot 10^{25}$ 82Se emitters- has started its background measurement on March 2017. Thanks to the scintillation signal readout, the troublesome alpha-induced background is identified, allowing to reach an extremely low background above the environmental 2615 keV gamma-line. We will present the first results of the background in the RoI of 82Se as well as the future perspectives.

Author: Dr PIRRO, Stefano (INFN - Laboratori Nazionali del Gran Sasso, Italy)

Presenter: Dr PIRRO, Stefano (INFN - Laboratori Nazionali del Gran Sasso, Italy)

Session Classification: Neutrino Parallel

Track Classification: Neutrinos