Clone of XIX International Workshop on Neutrino Telescopes



Contribution ID: 116 Type: Parallel Flash talk

Scintillating Li2MoO4 Bolometers for neutrinoless double beta decay search

Tuesday, 23 February 2021 12:05 (5 minutes)

The next generation experiment CUPID will search for neutrinoless double beta decay using scintillating ${\rm Li_2MoO_4}$ bolometers to study the candidate isotope $^{100}{\rm Mo}$. The scintillating properties of these crystals allow for the dual read-out of heat and light signals to suppress the background induced by alpha particles. This feature, together with the high Q-value of $^{100}{\rm Mo}$, will reduce the background level by a factor 100 with respect to CUORE, the predecessor of CUPID. The R&D results presented concern the study of the detector performances in terms of energy resolution, a key element to search for rare decays, and light yield, to understand the particle identification capabilities of the experiment.

Collaboration name

CUPID

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Session Classification: Double Beta decays and Neutrino Masses