



Contribution ID: 166

Type: **Parallel Talk**

Search for neutrinoless double-beta decay with the SuperNEMO demonstrator

Friday, 7 July 2017 17:15 (15 minutes)

Neutrinoless double-beta decay can provide evidence of lepton number violating processes and its observation can give information on the nature and the absolute mass scale of neutrinos. The SuperNEMO demonstrator searches for such decay through a tracking calorimeter technique which allows to disentangle different mechanisms for neutrinoless double beta decay with powerful background rejection capability. In this talk I will review the status of the experiment, being currently in its commissioning phase, and discuss its future perspectives.

Experimental Collaboration

SuperNEMO collaboration

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