



Contribution ID: 571

Type: **Poster**

Status of AMoRE

AMoRE is an experiment to search for the neutrinoless double beta decay using Mo-100 based scintillation crystals and a cryogenic detection technique. Detection of both thermal and scintillation signals using metallic magnetic calorimeter (MMC) sensors provides high energy resolution and efficient particle discrimination. From AMoRE-pilot phase, we have understood the sources of backgrounds and have learned how to reduce them. AMoRE-I starts with about 6 kg of crystals in the Yangyang underground laboratory in 2020. AMoRE-II is being prepared to be launched with about 200 kg of crystals at YemiLab, a new underground laboratory.

Mini-abstract

Status of the AMoRE-pilot stage data analysis and preparations for the next stages

Experiment/Collaboration

AMoRE Collaboration

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Session Classification: Poster session 3