



Poster session 4 – Friday 8 July

P4.049 Status of the AMoRE experiment

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on behalf of AMoRE collaboration

The goal of the Advanced Mo-based Rare process Experiment (AMoRE) is to search for neutrinoless double beta decay of ^{100}Mo using low-temperature detectors consisting of Mo-based scintillating crystals read out via metallic magnetic calorimeters. Simultaneous measurements of heat and light signals are performed at mK temperatures, which are reached using a dilution refrigerator. A pilot experiment, named AMoRE-Pilot, using five ^{100}Mo -enriched, ^{48}Ca -depleted $^{40}\text{Ca}^{100}\text{MoO}_4$ crystals with a total mass of about 1.5 kg, has been running in the 700-m-deep Yang-Yang underground Laboratory. The current setup and status of the AMoRE experiment will be presented.