

Status of AMoRE

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AMoRE is a search for neutrinoless double beta decay using Mo-100 enriched crystal scintillators at an ultra-low temperature. We have understood the major background sources and how they can be reduced from a pilot stage run in the Yangyang underground laboratory. AMoRE-I is currently running with twelve $^{48\text{depl}}\text{Ca}^{100}\text{MoO}_4$ and five $\text{Li}_2^{100}\text{MoO}_4$ crystals with a total mass of enriched ^{100}Mo 2.8 kg. The detector design for the main stage of the experiment, AMoRE-II, has been finalized and the detector is under construction in YemiLab, a new underground laboratory located in an iron mine with an average depth 2500 meter of water equivalent. The status of AMoRE-I and the preparations for AMoRE-II will be presented.

Reference to paper (DOI or arXiv)

Your gender (free text)

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