

AMoRE searching for the neutrinoless double beta decay of ^{100}Mo

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AMoRE (Advanced Mo-based Rare process Experiment) is an international collaboration searching for the neutrinoless double-beta decay of ^{100}Mo using molybdate scintillating crystal with metallic magnetic calorimeters as low-temperature sensors. AMoRE-I, as the second phase experiment, has been installed at the Yangyang underground laboratory (Y2L) and accumulates the data under radon reduced environment. In the final phase experiment, AMoRE-II will be installed at the Yemi underground laboratory (Yemilab), which is being constructed newly for deeper (1 km overburden) and larger space for future experiments. Here, we present the current status of the AMoRE-I, the preparation of the AMoRE-II, and the physics approaches using the AMoRE detector.

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