Contribution ID : **193** Type : **Oral talk**

AMoRE experiment: search for the neutrinoless double beta decay of 100Mo isotope

Friday, 2 December 2022 11:45 (15)

AMoRE (Advanced Mo based Rare process Experiment) is an international collaboration searching for the neutrinoless double beta decay of 100Mo using scintillating molybdate crystals with metallic magnetic calorimeters as low temperature sensors. AMoRE-I, as the first phase experiment with 6,2 kg of the calcium and lithium molybdate crystals, has been installed at the Yangyang underground laboratory (Y2L) and is accumulating the data. AMoRE-II main phase experiment, using 200 kg of lithium molybdate crystals, will be installed at the Yemi underground laboratory (Yemilab), newly constructed at deeper (1 km overburden) and larger space for future experiments. Here, we present the current status of the AMoRE-I and preparation of the AMoRE-II phase.

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Session Classification : Neutrino Physics

Track Classification : Neutrino physics