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The AMoRE project: Search for neutrinoless double beta decay of 100Mo using cryogenic 40Ca100MoO4 detectors

The AMoRE (Advanced Mo based Rare process Experiment) project is an international experiment to search for neutrinoless double beta decay of 100Mo using cryogenic scintillating crystals. The detector is composed of 40Ca100MoO4 crystals (depleted in 48Ca and enriched in 100Mo) and metallic magnetic calorimeters as the target and sensor materials in the concept of source-equals-detector. It is scheduled to build a large scale experiment with 200 kg 40Ca100MoO4 crystals in the next 8 years. The proposed experiment is expected to be sensitive to effective Majorana Neutrino masses of 0.02-0.05 eV. An overview of the current status will be presented.

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