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Geant4 usage for AMoRE

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AMoRE is an experiment searching for neutrinoless double beta (0nbb) decay using Mo-100 isotopes in molybdate crystal scintillators operated at mK temperatures. It aims to improve an upper limit on the half-life of 0nbb decay, and its sensitivity increases linearly with the experiment exposure if the zero background level in the region of interest (ROI) is achieved. Therefore, it is crucial to understand the backgrounds, and we use the Geant4 toolkit to assess them. In this presentation, we will discuss how Geant4 is used for AMoRE.

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