

## AMoRE-Pilot background simulation

*Friday, July 6, 2018 8:15 PM (15 minutes)*

The AMoRE (Advanced Mo Rare process Experiment) project is the experiment searching for neutrino-less double beta decay of  $^{100}\text{Mo}$ .

Monte Carlo simulation using the Geant4 toolkit was performed to understand background level of detector configuration.

Decays of radioactive isotopes such as  $^{232}\text{Th}$ ,  $^{238}\text{U}$ ,  $^{40}\text{K}$ ,  $^{235}\text{U}$  and their daughter nuclei were simulated in six  $\text{CaMoO}_4$  crystals, and in near-by detector materials.

Background spectra of crystals from the recent pilot measurements were fitted with simulation results to identify dominant background sources.

In this poster, the simulation results and fitting results will be presented.

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**Session Classification:** POSTER

**Track Classification:** Detector: R&D for Present and Future Facilities