

## Phenomenology 2019 Symposium



Contribution ID: 806

Type: **parallel talk**

## Simulations and background analysis for MINER

*Tuesday 7 May 2019 18:00 (15 minutes)*

We will demonstrate the usage of GDML within GEANT4 for building and optimizing shielding for germanium detectors used by MINER, which is a current experiment aimed at detecting coherent elastic neutrino-nucleus scattering at a few meter baseline from a 1MW nuclear reactor. We will discuss preliminary comparisons with background data recently obtained by a germanium detector at the reactor site where MINER operates.

### Summary

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**Session Classification:** Neutrinos III