



Contribution ID: 53

Type: **Oral**

Underground Experiments

Friday 26 April 2019 10:20 (20 minutes)

Low-background experiments searching for dark matter, neutrinos and other rare processes heavily rely on GEANT4 in order to calibrate the detector responses, estimate the background rate and topology, predict the expected signals. Moreover, Monte Carlo simulations are extensively used in order to optimize the design of new experiments. The physics involved includes low-energy hadronic processes for neutron transport, the simulation of high-energy cosmic rays interactions and the optics in scintillator based experiments. I will summarize the main features and the needs shared by these experiments.

I will be able to attend the workshop on FRIDAY 26th ONLY.

Author: AGNES, paolo (University of Houston)

Presenter: AGNES, paolo (University of Houston)

Session Classification: Underground experiments

Track Classification: Underground experiments