Noble Element Simulation Technique v2

Saturday, 2 December 2017 11:20 (10 minutes)

The Noble Element Simulation Technique (NEST) software package provides a method for calculating light and ionization yields in noble element-based detectors. Since its introduction in 2011, results from various experiments have enabled improvements to NEST's underlying models. This talk introduces NEST2, a new version that implements these upgraded models, along with software improvements for better functionality and accessibility. This talk validates NEST2 against several experiments and highlights its usefulness for optimizing detector parameters and cross-checking analysis efforts. NEST2 will soon be available with a variety of interaction types in xenon, for recoils from 0.1-5,000 keV and electric fields from 0-5,000 V/cm.

Session

Works in Progress (15+5 min)

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Session Classification: Lightning Talks