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Noble Element Simulation Technique v2.0

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The Noble Element Simulation Technique (NEST) is a comprehensive mostly-empirical standalone package for complete and accurate simulation both the scintillation light and ionization yields of noble elements for many particle types (nuclear recoil, electron recoil, Kr83, alphas, etc.). Instead of NEST v.1.0, v.2.0 could fully work both as GEANT4 library and command-line tool. Huge updates to the NEST models, which make the package even more realistic, are presented. Near all available gas, liquid and solid xenon data to date have been taken into consideration in arriving at the current models.

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