

Recent developments in the GENIE neutrino event generator

Thursday, August 4, 2022 4:50 PM (20 minutes)

The GENIE neutrino event generator seeks to be a universal tool for simulating neutrino-nucleus scattering across the wide energy range of interest for current and future experiments. The international GENIE Collaboration maintains and continues to develop its software suite to meet the interaction modeling needs of a broad user community. Recent improvements to GENIE include implementation of new theoretical calculations across several processes of interest, model parameter tuning to neutrino cross-section data, and extensions to the technical infrastructure needed for the successful execution of experimental analyses. This talk presents selected highlights from these ongoing developments in GENIE.

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