

GENIE v3 models and global fits of neutrino scattering data

GENIE is the world's most widely-used neutrino Monte Carlo generator and its physics model is employed by nearly all current and near future experiments.

The collaboration developed the capability to perform global physics tuning using both the increasing body of neutrino scattering data and the vast complementary array of electron-nucleus and hadron-nucleus scattering data.

This is based on a new collaboration with the Professor system authors used for Monte Carlo generator tuning for the Large Hadron Collider experiments, resulting in a number new physics model tunes deployed in the GENIE framework.

The poster will describe the details of the procedure and its implementation in the newly released version of the code.

Authorship annotation

for the GENIE collaboration

Session and Location

Wednesday Session, Poster Wall #98 (Auditorium Gallery Left)

Poster included in proceedings:

yes

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Presenter: Dr RODA, Marco (University of Liverpool)

Track Classification: Poster (not participating in poster prize competition)