

# Implementation of the npnh model of Martini et al in the GENIE event generator

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We present an implementation of the npnh model of Martini et al in the GENIE neutrino nucleus interaction event generator along side subsequent comparisons of the model predictions to neutrino cross-section measurements. The Martini model includes a particularly comprehensive description of npnh interactions, considering MEC, SRC and interference contributions in addition to a contribution from 3p3h interactions. Its implementation in GENIE allows neutrino oscillation analyses to benchmark their input interaction models and motivates a more complete treatment of their systematic uncertainties.

## Poster prize

Yes

## Given name

Lavinia

## Surname

Russo

## First affiliation

LPNHE

## Second affiliation

## Institutional email

lavinia.russo@lpnhe.in2p3.fr

## Gender

Female

## Collaboration (if any)

**Primary authors:** MUNTEANU, Laura (CERN); RUSSO, Lavinia (LPNHE); MARTINI, Marco (MIB); DOLAN, Stephen (CERN)

**Presenter:** RUSSO, Lavinia (LPNHE)

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