

DATE OF TALK: Oct. 24, 2013 TIME: 3:00 pm

TITLE: Modeling Neutrino Quasielastic and Inelastic Scattering Using Electron Scattering Data

ABSTRACT: We show how electron scattering data from Jefferson Lab and SLAC is used to model Quasielastic and Inelastic neutrino charged current interactions on nuclear targets. The models which are currently implemented in the GENIE MC generator include: Bodek-Ritchie Fermi motion, Bodek-Yang modeling of inelastic neutrino interactions, and Bodek-Budd-Bradford-Avvakumov nucleon form factors. Most recently we have added the Bodek-Budd-Christy modeling of the transverse enhancement (Meson Exchange Currents) of quasielastic scattering on nuclear targets.

SPEAKER: Arie Bodek, Professor of Physics, University of Rochester