

Current Need for Simulation Tuning Based on New Experimental Results in ν -A Scattering

Tuesday, August 2, 2022 4:04 PM (20 minutes)

Simulation plays a critical role in neutrino experiments. But for a variety of reasons no simulation is perfect, and experiments must confront discrepancies between simulated predictions and their own measurements and observations. This inevitably leads to the need to tune the simulation in order to obtain robust and reasonable systematic uncertainties in analyses. In this talk I give an overview of the challenges that both simulation developers and experiments face, and the mechanisms employed by various collaborations to deal with this challenge using new experimental results in neutrino-nucleus scattering as examples.

Presenter: PALEY, Jonathan (Fermilab)

Session Classification: Joint Session