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Near-Far Neutrino Beam Correlations for the DUNE Experiment

Saturday 6 August 2016 18:00 (2 hours)

In the DUNE long-baseline neutrino experiment, the Near Detector near to the beamline sees a high neutrino flux, which helps to characterize the neutrino beam. Given a prediction for the neutrino flux at the Near Detector, the unoscillated flux at the Far Detector can be predicted and a transfer matrix constructed. We present results from a beam matrix method to predict the Far Detector flux from the Near Detector flux for the DUNE beamline and studies of the sensitivity to different physics models of the flux.

Presenter: BASHYAL, Amit

Session Classification: Poster Session

Track Classification: Detector: R&D and Performance