



Contribution ID: 262

Type: **not specified**

Neutrino Flux Studies at NOvA

Thursday 6 August 2015 16:00 (20 minutes)

We present the beam systematics study of the neutrino flux in NOvA. Systematic errors on the flux at the near detector (ND), far detector (FD), and the ratio, FD/ND, due the beam-transport and hadron production are estimated. The data from ND are used to constrain the Muon (from Pion-decay) and Kaon yields relevant for the Nu and Numu Flux. Additional constraint on the Kaon is obtained from the data from the ND-on-the-Surface (NDOS), a prototype NOvA detector.

Oral or Poster Presentation

Oral

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