APS DIVISION OF PARTICLES & FIELDS
DPF 2017
MEETING OF THE AMERICAN PHYSICAL SOCIETY DIVISION OF PARTICLES AND FIELDS

Contribution ID: **240** Type: **Poster**

# Tracking Detector Performance and Data Quality in the NOvA Experiment

*Monday, 31 July 2017 18:28 (1 minute)*

NOvA is a long-baseline neutrino oscillation experiment. It uses the NuMI beam from Fermilab and two sampling calorimeter detectors located off-axis from the beam. The NOvA experiment measures the rate of electron-neutrino appearance in the almost pure muon-neutrino NuMI beam, with the data measured at the Near Detector being used to accurately determine the expected rate at the Far Detector. It is very important to have automated and accurate monitoring of the data recorded by the detectors so any hardware, DAQ or beam issues arising in the 344k (20k) channels of the Far (Near) detector which could effect quality of the data taking are determined. This poster will cover the techniques and detector monitoring systems in various stages of data taking.

**Primary author:** Mr BEHERA, Biswaranjan (IIT Hyderabad/Fermilab)

**Presenter:** Mr BEHERA, Biswaranjan (IIT Hyderabad/Fermilab)

**Session Classification:** Poster Session and Reception

**Track Classification:** Particle Detectors