Contribution ID: **10** Type: **Oral**

# The NOvA Test Beam Program

*Tuesday, June 11, 2019 3:50 PM (15 minutes)*

NOvA is a two-detector long-baseline neutrino oscillation experiment which aims to make a determination of the neutrino mass hierarchy, the octant of $\theta_{23}$, and measure possible CP violation. The NOvA Test Beam program consists of a scaled-down NOvA detector placed in a beamline capable of delivering 0.3 - 2.0 GeV/c protons, electrons, pions, and kaons. The beamline detectors provide us with particle identification and momentum measurements so we can study our detector technology with known inputs. Studying these particles will provide us a more detailed understanding of our calibration, detector response, and energy scale, which are some of the largest sources of systematic uncertainty in NOvA analyses. We will also collect a selection of single-particle data events for training particle identification algorithms. In this talk, I will present the current status of the NOvA Test Beam program and discuss plans for data taking and analysis.

**Primary author:** LACKEY, Teresa

**Presenter:** LACKEY, Teresa

**Session Classification:** Tuesday Afternoon I