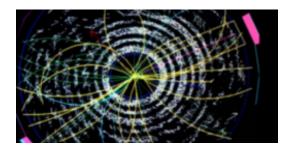Contribution ID: **36**   Type: **Oral Presentation**

Data Monitoring and Performance of the NOvA Detectors

Tuesday, 6 June 2017 09:15 (15 minutes)

NOvA consists of two detectors, one at Fermilab, and the second 810km away in northern Minnesota. The experiment uses Fermilab's NuMI beam to measure the $\nu\mu$ to νe oscillation probability in order to learn more about the neutrino mass hierarchy, mixing angles, and CP violation in the neutrino sector. As with any large experiment, there are many components that need to operate smoothly to maximize uninterrupted data-taking and ensure the recorded data is of high quality. If any component fails it is essential know as soon as possible what failed, and why it failed, so the problem can be promptly resolved. In order to do this, NOvA has a multitude of monitoring tools and procedures to continuously monitor various aspects of the experiment. In this talk, I will discuss these tools and procedures and how they enable the high quality physics results produced by NOvA.

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