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Tracking the NOvA Detectors' Performance FERNANDA PSIHAS, Indiana University, NOVA COLLABORATION — The NOvA experiment measures long baseline $\nu_\mu \rightarrow \nu_e$ oscillations in Fermilab's NuMI beam. We employ two detectors equipped with over 10 thousand sets of data-taking electronics; avalanche photo diodes and front end boards which collect and process the scintillation signal from particle interactions within the detectors. These sets of electronics –as well as the systems which power and cool them– must be monitored and maintained at precise working conditions to ensure maximal data-taking uptime, good data quality and a lasting life for our detectors. This poster describes the automated systems used on NOvA to simultaneously monitor our data quality, diagnose hardware issues, track our performance and coordinate maintenance for the detectors.

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