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## NuMI Beam Monitoring Simulation and Data Analysis Status and Progress

With the Main Injector Neutrino Oscillation Search (MINOS) experiment decommissioned, muon and hadron monitors became an important diagnostic tool for the NuMI Off-axis  $\nu\mu$  Appearance (NOvA) experiment at Fermilab to monitor the Neutrinos at the Main Injector (NuMI) beam. The goal of this study is to establish correlations between muon monitor and other beamline detector signals and upstream and downstream beam and lattice parameters in order to monitor and improve neutrino beam quality. We report on the progress of the beam data analysis and comparison with the simulation results.

## Working group

WG3

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