

Quality Control of the NOvA Far Detector

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Abstract

The NuMI Off-Axis ν_e Appearance Experiment (NOvA) project is currently in its construction phase and estimated to be operational around 2015. This experiment is an extension of the Neutrino at Main Injector (NuMI) project that has been operational for several years now. For NOvA a high intensity Neutrino beam is produced at Fermilab and directed to a detector located underground at the Soudan Mine in Minnesota. NOvA requires an upgrade to the beam line to achieve the higher intensities required, however, as an off-axis experiment the pointing direction does not need changing. This presentation outlines the progress made in the construction of the NOvA detector blocks utilizing the HDS 6100 laser scanner as measurement tool for quality assurance. A more detailed explanation of the surface analysis software developed at Fermilab for this purpose is presented by B. Mercurio at this workshop.

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