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## Muographic Analysis of the NOvA-ND Cosmic Data

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Radiographic analysis of the overburden inhomogeneities above the NOvA Near Detector, located -100m below the surface at Fermilab, will be presented. A continuous measurement of the underground cosmic muon flux by the NOvA detector (of size 4x4x15 meters) allowed us to detect temporal variations of the overburden, related to the soil excavation and the concrete mass accumulation during the ICARUS detector installation at Fermilab. Utilising the internal reflection symmetries of the NOvA detector acceptance, we are able to obtain a differential radiographic maps of the spatial overburden variations directly from the measured cosmic data, without using the Geant simulations or the open-sky data subtraction.

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