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The MINERvA Detector: Description and Performance

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The MINERvA experiment is aimed at precisely measuring the cross-sections for various neutrino interaction channels. It is located in Fermilab in an underground cavern in front of the MINOS near detector. MINERvA is a finely-grained scintillator with electromagnetic and hadron calorimetry regions. There are various nuclear targets located inside and in front of the detector for studying nuclear medium effects in neutrino-induced interactions. The installation was completed in March 2010 and since then the detector has been collecting data.

In my talk, I will describe the structure of MINERvA detector, calibration procedures, and performance. I will also outline recent physics results related to the nuclear targets part of the detector.

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