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## Commissioning and Initial Performance of the Short-Baseline Near Detector at Fermilab

Monday, 16 September 2024 16:05 (1 hour)

The Short-Baseline Near Detector (SBND) is a Liquid Argon Time Projection Chamber (LArTPC) neutrino detector located in the Booster Neutrino Beam (BNB) at Fermilab, and is part of the Short-Baseline Neutrino (SBN) Program. The detector is currently being commissioned and has collected its initial neutrino beam dataset. This poster will detail the effort to commission SBND, including the detector subsystems, the data acquisition system, and the trigger system. An initial look at detector performance will be provided. This work forms the foundation for SBND's rich and exciting physics program across neutrino interaction measurements, novel searches for physics beyond the Standard Model, and contributing to the SBN sterile neutrino program. The current status and future prospects will be discussed.

## **Working Group**

WG 6: Detectors

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