

# Studying Neutrino-Nucleus Interactions at SBND

*Monday, 8 July 2024 14:00 (15 minutes)*

The Short-Baseline Near Detector (SBND) is a 100-ton scale Liquid Argon Time Projection Chamber (LArTPC) neutrino detector positioned in the Booster Neutrino Beam (BNB) at Fermilab, as part of the Short-Baseline Neutrino (SBN) program. Located only 110 m from the neutrino production target, SBND is expected to record millions of neutrino interaction events every year allowing neutrino-argon cross-section measurements with unprecedented precision. This talk will explore the neutrino-argon interactions being studied at SBND, highlighting expected statistics and kinematics of inclusive and exclusive channels.

**Primary author:** CARLSON, Brinden (University of Florida)

**Presenter:** CARLSON, Brinden (University of Florida)

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