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SBND in 10 minutes

Tuesday, 19 June 2018 11:00 (15 minutes)

SBND (Short-Baseline Near Detector) is a 112 ton liquid argon time projection chamber being constructed 110 m from the target of the Fermilab Booster Neutrino Beam. One of its primary objectives is to test the eV scale sterile neutrino hypothesis by studying short-baseline oscillations along with MicroBooNE and ICARUS T-600 as part of the Short-Baseline Neutrino program. Due to the proximity to the beam, SBND will observe millions of neutrino interactions and will produce an extensive set of neutrino-argon cross section measurements. SBND will also facilitate crucial research and development of liquid argon technology for the future Deep Underground Neutrino Experiment. This talk will summarize the physics program of SBND and the recent progress towards achieving these goals.

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