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Searching for sterile neutrinos and other beyond-SM physics at SBN

The Short Baseline Neutrino (SBN) program comprises three detectors — the Short Baseline Near Detector (SBND), MicroBooNE, and ICARUS — and promises sensitivity to a variety of new physics models proposed to explain the perplexing short-baseline neutrino anomalies. This poster will describe ongoing developments to assess the SBN sensitivity to new physics using the SBNfit fitting framework, including making use of high performance computing. Particular focus will be on searches for sterile neutrino oscillations and searches for anomalous single-photon production in neutrino interactions at neutrino energies of 0.1-1 GeV.

Mini-abstract

SBN sensitivity assessment to search for light sterile neutrino oscillations

Experiment/Collaboration

SBN

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