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Fast Neutron Detection with MITPC

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Fast neutrons are an important background in a variety of particle physics experiments, but data on neutron flux as a function of depth underground is sparse. MITPC is a directional fast neutron detector that measures neutron flux as a function of energy and direction, and is designed for easy deployment to various sites. MITPC has completed runs at the near and far halls of the reactor-based neutrino experiment Double Chooz. Now, MITPC is running on the Booster Neutrino Beamline at Fermilab, where its measurements will serve the Short-Baseline Neutrino program. This talk will present the latest MITPC results.

Oral or Poster Presentation

Oral

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