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Results from ANNIE Phase 1 and Plans for Phase 2

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The Accelerator Neutrino Neutron Interaction Experiment (ANNIE) has two main goals: (1) a precision measurement of final state neutron multiplicity in neutrino interactions as a function of momentum transfer in the range of 0.5-1.5 GeV, and (2) first deployment and performance characterization of Large Area Picosecond Photo Detectors (LAPPDs) for use in future neutrino experiments. ANNIE Phase 1 was constructed in 2015 in the Booster Neutrino Beam at Fermilab in order to measure the background neutron flux to confirm the feasibility of accomplishing these two goals. The preliminary results from Phase 1 are presented along with sensitivity studies for Phase 2.

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