

NPDGamma: The Final Chapter

Wednesday, May 30, 2018 11:20 AM (35 minutes)

Neutrons have been a useful probe in many fields of science as well as an important physical system for study in themselves. Modern neutron sources provide extraordinary opportunities to study a wide variety of physics topics. Among them is a detailed study of the weak interaction. These measurements, done in few-nucleon systems, are finally letting us gain knowledge of the hadronic weak interaction without the contributions from nuclear effects. The NPDGamma experiment aims to isolate the long-range component of the hadronic weak interaction by measuring the directional parity-violating asymmetry in polarized cold neutron capture on protons. The experiment and analysis will be described and final results will be presented.

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