

Abstract Submitted
for the DNP12 Meeting of
The American Physical Society

The liquid parahydrogen target of the NPDGamma Experiment¹

ZHAOWEN TANG, Indiana University, NPDGAMMA COLLABORATION — The NPDGamma Experiment completed in June of 2012 at the Spallation Neutron Source its first run cycle dedicated to measurement of the parity-violating correlation A_γ between neutron spin and gamma momentum in the reaction $\vec{n} + p \rightarrow d + \gamma$. In our measurement, a polarized cold neutron beam is captured on a 16 liter liquid parahydrogen target. We will describe the performance of the target system which has run steadily and reliably for four months since February.

¹Supported in part by the National Science Foundation through grant PHY-1068712.

Chad Gillis
Indiana University

Date submitted: 10 Oct 2012

Electronic form version 1.4