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## Measurement of Parity-Violating Gamma-ray Asymmetry in Radiative Neutron Capture on Hydrogen at LANSCE

The NPDGamma collaboration is commissioning an experiment to measure with a precision,  $5 \times 10^{-9}$ , the small parity-violating gamma-ray asymmetry,  $A_\gamma$ , in polarized cold neutron capture in a para-hydrogen target. The experiment will determine unambiguously the weak pion-nucleon coupling constant  $H_\pi^1$ . The collaboration has completed commissioning of a new high-flux pulsed cold neutron beam line at LANSCE (flight path 12). The NPDGamma experiment was commissioned by measuring  $A_\gamma$  on Al, B, Cl, Cu, and In. The well-known large parity-violating gamma-ray asymmetry on Cl was used to calibrate these measurements. The other studied nuclei are present in materials used in construction of the experiment and are, therefore, possible sources of the false asymmetries since backgrounds are expected to be about 10% of the neutron capture on hydrogen signal. I will describe the NPDGamma experiment and its status, and report results of the commissioning run.