

Abstract Submitted
for the DNP17 Meeting of
The American Physical Society

A 185kg NaI[Tl] Detector for Observing the Charged-Current Neutrino Interaction on ^{127}I SAMUEL HEDGES, Duke University, COHERENT COLLABORATION — A 185kg NaI[Tl] detector has been deployed to the Spallation Neutron Source (SNS) at Oak Ridge National Laboratory (ORNL) to measure the charged-current neutrino interaction cross-section on ^{127}I . Results from an initial run will be shown, and details of an upgrade to the 185kg detector will be discussed. Recent developments towards a 2-ton NaI[Tl] detector capable of simultaneously observing the charged-current interaction on ^{127}I and coherent elastic neutrino nucleus scattering (CEvNS) will be presented.

Samuel Hedges
Duke University

Date submitted: 30 Jun 2017

Electronic form version 1.4