Abstract Submitted
for the APR17 Meeting of
The American Physical Society

Measuring the Cross-Section of Charged-Current Neutrino Interactions in Sodium Iodide BENJAMIN SUH, Oak Ridge National Lab, COHERENT COLLABORATION — An array of twenty-four 7.7 kg sodium iodide (NaI[Tl]) scintillating detectors has been deployed to the basement of the Spallation Neutron Source at Oak Ridge National Laboratory in order to observe and measure the cross-section of charged-current neutrino interactions on ^{127}I. Preliminary results and testing of these detectors will be presented herein. In addition, potential applications for observing coherent elastic neutrino-nucleus scattering (CEvNS) will be discussed.

Benjamin Suh
Oak Ridge National Lab

Date submitted: 04 Oct 2016 Electronic form version 1.4