



Poster session 2 – Tuesday 5 July

P2.038 COHERENT at the Spallation Neutron Source

K Scholberg

Duke University, USA

on behalf of COHERENT collaboration

COHERENT at the Spallation Neutron Source. The COHERENT collaboration's primary objective is to measure coherent elastic neutrino-nucleus scattering (CEvNS) using the unique, high-quality source of tens-of-MeV neutrinos provided by the Spallation Neutron Source (SNS) at Oak Ridge National Laboratory (ORNL). COHERENT will deploy multiple detector technologies in a phased approach and will test the N^2 dependence of the cross section. Following an extensive background measurement campaign, a location in the SNS basement has proven to be neutron-quiet and suitable for deployment of the COHERENT detector suite. This poster will describe COHERENT physics motivation, status and plans.