

Abstract Submitted
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Comparing pion production data to Geant4 simulation ARIA SALYAPONGSE, Carnegie Mellon Univ, REBECCA RAPP, DIANA PARNO, Carnegie Mellon University, COHERENT COLLABORATION — The COHERENT collaboration uses the Spallation Neutron Source at the Oak Ridge National Laboratory in Tennessee as a source of free neutrinos. These neutrinos are produced when the 1 GeV pulsed proton beam impinges on a liquid mercury target, producing pions, which eventually lead to substantial neutrino production. In the investigation into coherent elastic neutrino-nucleus scattering the collaboration has previously used a 10

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