

Abstract Submitted
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COHERENT at the Spallation Neutron Source JUSTIN RAY-
BERN, KATE SCHOLBERG, Duke University — The Spallation Neutron Source
(SNS) at Oak Ridge National Laboratory, Tennessee, provides an intense isotropic
flux of neutrinos in the few tens-of-MeV range, with a sharply-pulsed timing struc-
ture which is beneficial for background rejection. This talk will describe how the SNS
source can be used for a measurement of coherent elastic neutrino-nucleus scattering
(CEvNS), the physics reach of such a measurement, and the status of COHERENT,
the planned experimental program.

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