

Abstract Submitted
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**Prospects for Measuring Neutrino-Nucleus Coherent Scattering
at a Stopped-Pion Neutrino Source** KATE SCHOLBERG, Duke University

— Coherent neutral current neutrino-nucleus elastic scattering has never been observed. Although the cross-section is very high, nuclear recoil energies are very small. However, detection of the process may be within the reach of the new generation of low-threshold detectors. A promising prospect for the first detection of this process is an experiment at a high flux stopped-pion neutrino source such as the SNS. I will present some preliminary rate calculations and discuss sensitivity of such a measurement to new physics.

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