

Abstract Submitted
for the APR09 Meeting of
The American Physical Society

Prospects for a Low Threshold Neutrino Experiment at the SNS
TARITREE WONGJIRAD, Duke University, CLEAR COLLABORATION — A low-threshold neutrino scattering experiment at a high intensity stopped-pion neutrino source has the potential to measure coherent neutral current neutrino-nucleus elastic scattering. A promising prospect for this measurement is through a proposed noble-liquid-detector experiment, dubbed CLEAR (Coherent Low Energy A(Nuclear) Recoils), at the Spallation Neutron Source. This talk will describe the CLEAR detector, our study of backgrounds, and the experiment's physics reach.

Taritree Wongjirad
Duke University

Date submitted: 13 Jan 2009

Electronic form version 1.4