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Prospects for a Low Threshold Neutrino Experiment at the SNS

TARITREE WONGJIRAD, Duke University — 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 the measurement of this process is a noble-liquid-based experiment at the Spallation Neutron Source: an example is the proposed CLEAR (Coherent Low Energy Nuclear Recoils) experiment. This poster will present the design of this experiment and its physics reach.

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