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Physikalisches Kolloquium

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HS KPH

Prof. Kate Scholberg
Duke University - USA

Scattering in Neutrino Alley

Coherent elastic neutrino-nucleus scattering (CEvNS) is a process in which a neutrino scatters off an entire nucleus. It is tremendously challenging to detect, due to the tiny nuclear recoil. CEvNS was measured for the first time by the COHERENT collaboration using the unique source of neutrinos at the Oak Ridge National Laboratory Spallation Neutron Source. This talk will describe the physics reach of CEvNS, as well as COHERENT's measurements, status and future plans.

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