

Center for Neutrino Physics

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Fermilab

Neutrino Physics in Dark Matter Experiments

Wednesday, February 8, 4:00 p.m.

304 Robeson Hall

The next generation of dark matter direct detection experiments will be sensitive to the scattering of solar neutrinos in electrons and nuclei, a background to dark matter searches known as "neutrino floor." We investigate how this exceptional sensitivity can be used to study solar neutrino fluxes, weak mixing angle and solar observables, as well as to constrain new physics in the neutrino sector.