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Physics from solar neutrinos in dark matter experiments

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The next generation of dark matter direct detection experiments will be sensitive to both coherent neutrino-nucleus and neutrino-electron scattering. We compute projected nuclear and electron recoil rates due to solar neutrinos, and use them to infer errors on future measurements of the neutrino fluxes, weak mixing angle and solar observables, as well as to constrain new physics in the neutrino sector.

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