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New directions in Dark Matter Searches from the Sun

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Dark matter particles captured by the Sun through scattering may annihilate and produce neutrinos, which escape. Current searches have focused on the high-energy neutrino signal produced in the prompt decays of some final states. Interactions of hadronic annihilation products lead to other interesting final states with potentially observable neutrino signals. The talk will discuss the sensitivity of present and future neutrino detectors towards observing these neutrino signals. The talk will further review astrophysical uncertainties in the dark matter capture process in the Sun and describe their impact on the sensitivity of indirect dark matter searches.

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