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Carsten Rott (Sungkyunkwan University (SKKU), Korea): Indirect Searches for Dark Matter with Neutrinos

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Dark Matter could be detected indirectly through the observation of neutrinos produced in self-annihilations or decays. Searches for such neutrino signals have resulted in some of the most stringent constraints on the lifetime of heavy dark matter and world best limits on spin-dependent scattering with matter. Searches have made significant progress in sensitivity through new search methodologies, detection channels, and through the availability of rich datasets, foremost from the IceCube Neutrino Telescope. In this talk, I will review latest results from dark matter searches with neutrinos and discuss discovery prospects at present and next-generation detectors. A particular focus will be put on the search for dark matter in the Sun and how a dark matter annihilation signal.

Presenter: ROTT, Carsten (Sungkyunkwan University)

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