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Indirect Dark Matter Searches

Wednesday 26 July 2017 11:00 (30 minutes)

Indirect searches for dark matter are a cornerstone in the dark matter particle identification program. Searches for stable messenger particles produced as part of the self-annihilation or decay of dark matter have resulted in stringent bounds on dark matter properties. Searches with gamma-rays, neutrinos, and charged cosmic-rays will be summarized and constraints on the dark matter self-annihilation cross section, lifetime, and interaction with ordinary matter will be reviewed. The talk will conclude with an outlook in the discovery potential at current and next-generation dark matter search experiments.

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