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Indirect searches for dark matter from radio to gamma rays

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The particle nature of dark matter remains one of the most mysterious and urgent research questions of modern particle physics and cosmology. Despite decades of research, the mass of possible dark matter particles is only constrained to within 80 orders of magnitude or so. Astronomical observations spanning the full electromagnetic spectrum allow to search for dark matter particles across the mass scales. I will briefly review the most popular models for dark matter, including axions, sterile neutrinos, WIMPs and primordial black holes, discuss the current status of astrophysical searches, and highlight opportunities for the upcoming years.

Summary

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