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Indirect dark-matter searches with gamma-rays experiments : status and future plans from KeV to TeV

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Detection of gamma rays and cosmic rays from the annihilation or decay of dark matter particles is a promising method for identifying dark matter, understanding its intrinsic properties, and mapping its distribution in the universe. I will review recent results from the Fermi Gamma-ray Space Telescope and other space-based experiments, and highlight the constraints these currently place on particle dark matter models. I will also discuss the prospects for indirect searches to robustly identify or exclude a dark matter signal using upcoming experiments at energies below Fermi (ASTROGAM) and above Fermi, Magic and H.E.S.S. (CTA, LHAASO).

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