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Galactic interstellar gamma-ray emission

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The Milky Way shines in gamma rays from MeV to above TeV energies due to interactions of high-energy cosmic rays with interstellar gas and radiation fields. I will review the current status and future challenges for both space-borne and ground-based observations, and I will discuss some implications for the physics of cosmic rays and of the interstellar medium, as well as for the modeling of backgrounds in indirect dark-matter searches.

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