

Constraints on Axionlike Particles from gamma ray observations

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Axion-like particles (ALPs) can oscillate into photons and vice versa in the magnetic fields, which may generate detectable effects on γ -ray spectra. We search for such oscillation effects in the spectra of supernova remnants caused by the photon-ALP conversion, using the Fermi Large Area Telescope and HESS gamma-ray data and constraints the parameter space of ALP.

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