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Characterizing cosmological fields with blazar observations: the EBL and IGMF

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Recent progress in using very-high-energy gamma-ray observations to constrain the properties of the extragalactic background light and the intergalactic magnetic field is reviewed. Such studies capitalize on the scattering of gamma rays from distant emitters on diffuse photon fields, namely the extragalactic background light and cosmic microwave background. Observations of extreme blazars are particularly suited to these measurements due to their significant gamma-ray emission at multi-TeV energies. The latest measurements are discussed, as well as uncertainties pertaining to the gamma-ray emission and scattering processes.

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