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Probing the Extragalactic Background Light with VERITAS

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The observed spectra of active galactic nuclei carry the imprint of gamma-ray interactions with the extragalactic background light (EBL). As gamma rays from an extragalactic source travel to the observer, pair production on the EBL plays a role in reprocessing the photons to lower energies, obscuring the intrinsic source spectrum. VERITAS, a ground-based imaging atmospheric-Cherenkov telescope array sensitive to gamma rays above 85 GeV, has collected a large set of observations of blazars for a range of redshifts. We present the latest VERITAS results from using blazar spectral measurements to constrain the EBL's spectral energy distribution.

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