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Extreme high frequency peaked BL Lac objects to constrain the infrared background light

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Extreme High Frequency Peaked BL Lacs (EHBL) are the cosmic sources able to produce the highest energy photons in the Universe. They make a relatively rare population of objects, difficult to identify also because they are quite faint at the energies probed by the Fermi surveys. Based on a hard X-ray selection, Foffano et al. have uncovered a small subset of such population. We discuss in the present contribution the implications of observing them with Cherenkov telescopes with the aim of constraining the extragalactic diffuse background at far-infrared wavelengths, where it has never been observed because of the overwhelming dominance of the local foreground emissions.

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