

Contribution ID: 85 Type: Talk

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

Thursday, 24 January 2019 18:10 (20 minutes)

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.

Primary author: Prof. FRANCESCHINI, Alberto (UNIPD)

Co-authors: PRANDINI, Elisa (PD); FOFFANO, Luca (PD); PAIANO, Simona (PD)

Presenter: Prof. FRANCESCHINI, Alberto (UNIPD)

Session Classification: Cosmology

Track Classification: Main track