Line of sight neutrinos and gamma-rays from blazars associated with IceCube neutri- nos

Thursday 16 September 2021 14:00 (15 minutes)

Blazars are potential candidates of cosmic-ray (CR) acceleration up to ultrahigh energies (UHE, E > 1017 eV). Association of a number of blazars with IceCube neutrino events supports this hypothesis. If the intergalactic magnetic field strength is reasonably low, the UHECRs escaping from the blazar jet will produce neutrinos and gamma rays along the line-of-sight (LoS) by interacting with the extragalactic background light (EBL) and cosmic microwave background (CMB) while propagating. This talk will focus on LoS neutrino and gamma-ray fluxes from four blazars associated with IceCube neutrinos, namely TXS 0506+056, PKS 1502+106, 3HSP J095507.9+355101 and GB6 J1040+0617, and their possible detection.

Abstract field

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Session Classification: Multi-Messenger & Astro-Particle

Track Classification: Multi-Messenger and Astro-particle