



Contribution ID: 17

Type: **Talk** (20'+5')

PeV neutrinos, gamma rays, and cosmic rays from distant blazars

Monday, 25 September 2017 15:10 (25 minutes)

Observed spectra of distant blazars show evidence of secondary gamma rays from interactions of cosmic rays with extragalactic photon radiation (EBL and CMB). The same interactions of cosmic rays are expected to produce a flux of neutrinos with energies peaked around 1 PeV. The spectrum and the isotropic distribution are consistent with IceCube observations. This association also implies that AGN can accelerate cosmic rays to EeV energies.

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Session Classification: Astrophysical sources and Backgrounds & Multimessenger physics

Track Classification: Multimessenger physics