

Contributed Talk //

Active Galactic Nuclei (AGNs); Multi-messenger - neutrinos



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In 2017 a 290 TeV neutrino was detected by IceCube, coming from the direction of the blazar TXS 0506+056 which coincided with a gamma-ray flare from the same blazar. Blazar flares are periods of increased energy output which, in this case, are modelled as either being due to a change in particle injection into the jet or an increase in magnetic field strength. Using gamma and x-ray data from blazars in flaring states to fit spectral energy distributions as well as light curves we predict the resultant neutrino flux during these flares.