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Modelling TXS0506+056 with internal $\gamma - \gamma$ secondaries

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A flare in 2017 from TXS0506+056 has 3.5σ spatial as well as temporal correlation with IceCube-170922A neutrino event above energy 290 TeV. The multi-wavelength modeling of the source is one of the viable way to figure out its energetics to produce neutrino. Several models on considering lepto -hardronic channels to produce the gamma rays and neutrino from this blazar has already been done. We report here the secondary contribution resulted from the $\gamma - \gamma \rightarrow e^+e^-$ interaction between self synchrotron (SSC) and synchrotron photon in the blazar TXS0506+056. This study would help in understanding the maximum energy of the electrons produced at the source.

Keywords

AGNs, Neutrinos, Gamma rays

Collaboration

other Collaboration

Subcategory

Theoretical Results

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