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Multi-wavelength emission from candidate neutrino blazars during different activity states

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The broadband spectral energy distribution (SED) of blazars shows a two-hump structure. Understanding blazar SEDs has become increasingly possible over the last decade due to the capability to acquire near-simultaneous data from low-energy radio to high-energy gamma rays. Though the low energy hump in the broadband SED of blazars is understood to be from synchrotron emission processes, the origin of the high energy hump in the SED is under debate between two scenarios, namely leptonic and hadronic processes. Though the observed SEDs of blazars are generally explained by leptonic models, hadronic or lepto-hadronic models, too, are invoked in some sources. To put constraints on the high energy emission mechanism(s) in blazars, we have carried out an investigation on the broadband SEDs of a sample of blazars that are known to be neutrino candidate sources. These sources are good candidates to test blazar emission models due to the recent observation of a close association of IceCube neutrino detection with flaring blazars in the gamma-ray band. The results of our analysis on the SEDs of candidate neutrino blazars will be presented at the conference.

Presentation Type

Oral

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