



Contribution ID: 109

Type: **Talk**

Implications of the observation of high-energy neutrinos in the direction of TXS 0506+056

Thursday, 24 January 2019 11:30 (30 minutes)

The IceCube Collaboration recently announced the detection of a high-energy astrophysical neutrino consistent with arriving from the direction of the blazar TXS 0506+056 during an energetic gamma-ray flare, and a “neutrino flare” from the same direction during 2014-15. I will present some of the inferences drawn from these observations for neutrino emission from TXS 0506+056, in light of the characteristics of this source. Additionally, implications for neutrinos from blazar flares in general will be presented.

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Session Classification: Connection to neutrinos

Track Classification: Main track