



ID de la contribución : 206

Tipo : Talk

IceCube observations of northern Seyfert galaxies and implications for the extragalactic neutrino flux

martes, 4 de noviembre de 2025 15:30 (15)

Although the existence of a flux of high energy neutrinos emitted by extragalactic sources is well established, only two individual sources have been identified with high confidence: the blazar TXS 0506+056 and the Seyfert galaxy NGC 1068. We will review the results of observations of other Seyfert galaxies in the northern sky, and discuss the implications of both northern and southern observations for our understanding of the extragalactic neutrino flux. Although the observations do not line up perfectly with the most straightforward emission models, and the inferred spectral index and flux level cannot account for the entire extragalactic neutrino flux, these results suggest that Seyfert galaxies as a class may contribute to the quasi-diffuse extragalactic neutrino flux, and are consistent with the idea that a considerable portion of the flux arises from sources opaque to gamma rays.

Primary author(s) : DEYOUUNG, Tyce (Michigan State University)

Presenter(s) : DEYOUUNG, Tyce (Michigan State University)

Clasificación de la sesión : Neutrinos

Clasificación de temáticas : Neutrinos