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High-Energy Neutrinos and Photons from NGC 1068

Monday, 8 July 2024 15:00 (25 minutes)

The IceCube neutrino observatory recently found an excess of TeV neutrinos at a significance of 4.2σ associated to NGC 1068, one of the most well known nearby Seyfert galaxies.

NGC 1068 was already known as a gamma-ray emitter in the GeV band, whereas only upper limits in the flux were found in the TeV band.

Interestingly, the neutrino flux is about two orders of magnitude larger than the gamma-ray upper limits at the same energies thereby suggesting an optically thick hadronic source.

In my talk, I will review and discuss the possible sites for particle acceleration and their contribution to the multi-messenger flux of NGC 1068.

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