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Contribution ID: 25

Type: **not specified**

Cosmic Neutrinos from a Blazar (12'+3')

Tuesday 16 October 2018 11:15 (15 minutes)

This summer IceCube announced the first evidence of a cosmic source of high-energy neutrinos. A rare, high-energy neutrino event detected on 2017 Sept. 22 was reported by IceCube in a public alert that led to extensive follow-up observations across the electromagnetic spectrum. A tantalizing association was found with a blazar, an active galaxy where one of the jets from the central black hole is pointed in our direction. Subsequent analysis of archival IceCube data revealed further evidence that the blazar had a previous episode of neutrino emission. These results may for the first time identify a long-sought accelerator of high-energy cosmic rays.

Author: FINLEY, Chad

Presenter: FINLEY, Chad

Session Classification: Partikeldagarna 2018