

The Emerging Population of Seyfert Galaxies as Neutrino Sources in IceCube

Thursday 3 April 2025 14:45 (30 minutes)

The IceCube detection of neutrinos from the X-ray-bright Seyfert galaxy NGC 1068, combined with the lack of a gamma-ray counterpart, suggests that gamma-ray hidden cores of Active Galactic Nuclei (AGN) could be powerful cosmic-ray accelerators. The X-ray-bright corona, near the AGN supermassive black hole, provides a suitable environment for neutrino production and gamma-ray absorption at the same time. This talk will review recent IceCube results from searches for extragalactic neutrino sources, adding to the growing evidence that X-ray-bright, non-blazar AGN could be the first emerging population of neutrino sources.

Presenter: BELLENGHI, Chiara (TUM)

Session Classification: Invited Topical Talks 2 / Eingeladene Vorträge 2