



ICECUBE

Search for high-energy neutrino emission from hard X-ray AGN with IceCube

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Motivation:

IceCube has detected neutrinos in the TeV-PeV range but their primary origin remains a mystery. Some observations point to Active Galactic Nuclei (AGN) especially ones with a jet, blazars as potential candidate source.

Analysis:

Hard X-rays (≥ 10 keV) are excellent probes of AGN. The goal of the analysis is to search for neutrino emission from a sample of AGN detected in the hard X-ray energy band by the *Swift*-BAT AGN Spectroscopic Survey (BASS).

What the poster presents:

- We present an outline of our analysis and describe the hypotheses we plan to test.
- We also present plots from our preliminary blind analysis of one hypothesis.