



Contribution ID: 266

Type: **Poster**

Search for Astrophysical Neutrino Transients with IceCube DeepCore

DeepCore is a part of IceCube that enhances IceCube's sensitivity in the low energy range enabling the search for astrophysical transient sources, e.g., choked gamma-ray bursts (GRBs). We present sensitivities to transient timescales between 100 seconds and 1 week in an energy range from 10 to 200 GeV. A dataset that is obtained from a newly developed low energy event selection is used in our analysis. We show that the DeepCore can be reliably used to search for transients between a declination range from -30° and $+30^\circ$

Mini-abstract

Sensitivities of IceCube DeepCore to 100s-1week neutrino transients in the 10-200 GeV range.

Experiment/Collaboration

IceCube Collaboration

Primary author: CHEN, Chujie (Georgia Institute of Technology)

Presenter: CHEN, Chujie (Georgia Institute of Technology)

Session Classification: Poster Session 2