



Contribution ID: 479

Type: **Poster**

ANTARES - Baikal GVD Alerts Analysis

ANTARES and Baikal-GVD are both Cherenkov neutrino telescopes located in the Northern Hemisphere. As a consequence, their fields of view overlap allowing for a combined study of the sky. Since December of 2018, Baikal followed up a total of 25 ANTARES alerts, and while no prompt coincidence was found, a cascade mode search showed some events falling within an angular distance of less than 5° around three of these alerts. The 4.5° angular resolution of Baikal-GVD allows for the possibility of these events to be correlated, which makes them of extreme interest. In this poster we present new results on the study of these alerts after the addition of the latest ANTARES shower dataset to the analysis, and the optimization of the search method with a novel Machine Learning Algorithm for background rejection.

Mini-abstract

New results on Baikal-GVD neutrino alerts with the ANTARES shower dataset.

Experiment/Collaboration

ANTARES & BaikalGVD Neutrino Telescopes

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Session Classification: Poster session 3