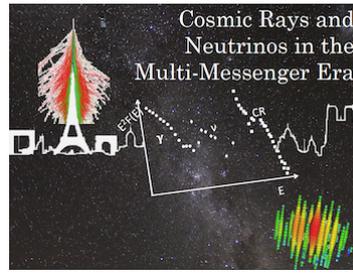


Cosmic Rays and Neutrinos in the Multi-Messenger Era



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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° for three of these alerts. The 4.5° angular resolution of Baikal-GVD allows for the possibility of these events to be spatially correlated, which makes them of special interest, and therefore, a dedicated analysis was performed to check the possible correlation between ANTARES and Baikal-GVD events.

In this poster we present the final results on the analysis after the addition of the latest ANTARES shower dataset, and the optimization of the search method with a novel Machine Learning Algorithm for background rejection.

Related session

Searching for neutrinos

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