



Contribution ID: 244

Type: Poster

All-flavor search for high-energy neutrinos in correlation with very-high-energy gamma-rays in ANTARES data

The first gamma-ray burst (GRB) detections at very-high energies (sub-TeV gamma-rays) have been announced recently: GRB190114C, observed by MAGIC, GRB180720B and GRB190829A, both detected by the H.E.S.S. telescopes. A dedicated search for all-flavor high-energy neutrinos in correlation with the gamma-ray emission has been performed using ANTARES data. The search covers both the prompt and afterglow phases. This contribution presents the results of this study and discusses the associated astrophysical constraints on the neutrino spectral fluence and the total energy radiated in high-energy neutrinos (TeV-PeV range).

Mini-abstract

No neutrino observed in coincidence with sub-TeV gamma-ray emission in ANTARES data. Limits are set.

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Session Classification: Poster session 4