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Potential candidates for the astrophysical neutrino signal measured by IceCube experiment and the role of GRBs

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During the last years the IceCube collaboration has detected the largest astrophysical neutrino sample ever obtained up to few PeV energies. The origin of these events encourage the astroparticle community and several hypotheses are now under debate. Based on temporal and spatial correlations, we explore some potential TeV gamma-ray (galactic and extragalactic) sources to explain some events. In addition, we show a possible theoretical scenario to explain the observed astrophysical neutrino events in the gamma-ray bursts (GRB) scenario

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