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Multi-detector approach to enhance the sensitivity of neutrino telescopes to low-energy astrophysical sources

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While large neutrino telescopes have so far mainly focused on the detection of TeV-PeV astrophysical neutrinos, several efforts are ongoing to extend the sensitivity down to the GeV level for transient sources. Only a handful of searches have been carried out at the moment leaving the signature of astrophysical transients poorly known in this energy range.

In this contribution, we discuss the motivations for high-energy neutrino telescopes to explore the GeV energy range and summarize the current limitations of detectors, such as IceCube and KM3NeT. We then present and compare different approaches for multi-detector analyses that may enhance the sensitivity to a transient GeV neutrino flux.

Affiliation

Few author contribution using public KM3NeT and IceCube info

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