

High-energy neutrino astrophysics with the KM3NeT telescope

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KM3NeT is a neutrino telescope located in the depths of the Mediterranean Sea. It consists of two sites, ARCA (off the Sicilian coast of Capo Passero) dedicated to the study of astrophysical neutrinos and ORCA (off the French coast of Toulon), optimised for GeV - TeV energies.

The two detectors are still under construction and should be completed in the next few years. However, the first detection lines have already been deployed and are collecting exploitable physics data.

I will present the first results with these partial configurations in the context of neutrino and multi-messenger astrophysics. In particular, the contribution will focus on the candidate detection of a very-high-energy neutrino event with the 21-line configuration of the ARCA detector.

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