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Measurement of the atmospheric muon flux between 2.2 and 3.4 km depth undersea with KM3NeT

The KM3NeT Collaboration is currently building the next-generation large volume Cherenkov neutrino observatories in the Mediterranean Sea. The KM3NeT/ARCA detector aims at studying TeV-PeV astrophysical neutrino sources. KM3NeT/ORCA will study atmospheric neutrino oscillations at few GeV energies to determine the neutrino mass ordering. The first KM3NeT detection units were deployed between 2015 and 2017. The measurement of the atmospheric muon flux at large depths in the Mediterranean Sea obtained using data collected with the first detection units of both KM3NeT/ARCA and ORCA is presented in this contribution.

Mini-abstract

The first KM3NeT detection units measure the atmospheric muon flux as a function of water depth.

Experiment/Collaboration

KM3NeT

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