Contribution ID: **108** Type: **Talk**

KM3NeT/ORCA calibration procedures and capabilities

Thursday, 4 August 2022 16:54 (22 minutes)

The cubic-kilometre neutrino telescope (KM3NeT) is a deep-sea infrastructure composed of two neutrino telescopes, consisting of large-scale 3D-arrays of photomultiplier tubes (PMTs) currently under construction on the Mediterranean seabed. The two telescopes are: ARCA, near Sicily in Italy, designed for neutrino astronomy and ORCA, near Toulon in France, designed for neutrino oscillations.

The ORCA telescope, having a neutrino energy threshold in the GeV range, has the measurement of the neutrino mass ordering and atmospheric neutrino oscillation parameters as its main research goal. We intend to discuss the accurate calibration procedures performed necessary to achieve these purposes.

Attendance type

In-person presentation

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Session Classification: WG1: Neutrino Oscillations

Track Classification: WG1: Neutrino Oscillation Physics