Contribution ID: **56** Type: **not specified**

The KM3NeT Project

Wednesday, 7 September 2022 16:50 (5 minutes)

Abstract. KM3NeT is a research infrastructure housing the next generation of Cherenkov neutrino telescopes. It consists of two detectors with similar technology currently under construction in the Mediterranean Sea: ARCA (off-shore Sicily, Italy) and ORCA (off-shore Toulon, France) dedicated to Astroparticle and Oscillation Research with Cosmics in the Abyss, respectively. ARCA will instrument 1 Gton of seawater, with the primary goal of detecting high energy cosmic neutrinos from distant astrophysical sources with energies between tens of GeV and PeV., while ORCA has a denser instrumentation in a smaller volume of few Mtons. ORCA will detect atmospheric neutrinos in the 1 - 100 GeV energy range, studying neutrino properties. In this poster we present the KM3NeT project, current status and expected performances on measurements of the neutrino oscillation parameters, the mass ordering, the diffuse neutrino flux and the search for supernovae.

Primary author: KISTAURI, Giorgi (Tbilisi State University)

Co-authors: PAPALASHVILI, Gogita (Tbilisi State University); SHANIDZE, Rezo

Presenter: KISTAURI, Giorgi (Tbilisi State University)

Session Classification: Lightning talk session