

Latest results of the Antares detector and perspectives for KM3NeT/ARCA

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The ANTARES detector, located 40 km off the French coast, is the largest deep-sea neutrino telescope in the Northern Hemisphere with an instrumented volume of more than 0.01 cubic kilometers. It has been taking data continuously since 2007. The primary goal of such a telescope is to search for astrophysical neutrinos in the TeV-PeV range. The latest results from ANTARES will be presented, including generic searches for diffuse cosmic neutrino fluxes as well as more specific searches for astrophysical sources such as active galactic nuclei or Galactic sources. The rich multi-messenger analysis program based on time and/or space coincidences with other cosmic probes will also be discussed.

The next-generation neutrino telescope in the Mediterranean, KM3NeT/ARCA, is currently under construction and will consist in an instrumented volume several hundred times larger than ANTARES. The first detection lines of KM3NeT have been deployed successfully and the first muons observed. Perspectives for neutrino astronomy with ARCA will also be presented.

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