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KM3NeT and ANTARES status and results

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ANTARES is the largest and longest operated neutrino telescope in the Northern hemisphere. It is located 40 km off-shore Toulon, France, at a depth of 2475 m on the Mediterranean seabed and has been continuously taking data since 2006. Its primary goal is the search for astrophysical neutrinos in the TeV-PeV energy range. Its location and excellent angular resolution makes ANTARES sensitive to a large part of the Southern sky which contains many promising neutrino source candidates, including the Galactic Center region. The latest results from ANTARES will be presented regarding the search for a diffuse high energy neutrino flux, the analysis to identify astrophysical neutrino point sources and the various searches for multi-messenger coincidences between neutrinos and other cosmic probes, like photons or gravitational waves.

KM3NeT, the new generation of underwater neutrino telescopes, is currently under construction in the Mediterranean sea. Thanks to its large size and improved detection capabilities, KM3NeT will open new perspectives in neutrino astronomy.

Results obtained with the first KM3NeT deployed lines, together with the current status and perspectives of the detector, will be reported.

Selected session

Astroparticle Physics

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