

Recent Results from the ANTARES Neutrino Telescope

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The ANTARES neutrino telescope is located in the Mediterranean Sea at a water depth of about 2500m, roughly 40km south of the town of Toulon at the French coast. It is detecting neutrinos by measuring the Cherenkov light emitted by relativistic secondary particles generated in neutrino interactions. Its primary goal is the search for astrophysical neutrinos in the TeV/PeV range. The research program comprises the search for point sources, such as gamma ray bursts, and for a diffuse flux in excess of the background of atmospheric neutrinos. Furthermore, an indirect search for dark matter is conducted and ANTARES is part of several multi-messenger analyses, based on temporal and/or spatial coincidences with other cosmic probes. The ANTARES detector also comprises an array of underwater pressure sensors (hydrophones) which are used for the investigation of acoustic neutrino detection techniques.

In this contribution, recent results from the ANTARES neutrino telescope will be presented.

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