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Searches for point-like and extended sources of cosmic neutrinos with the complete ANTARES dataset

The ANTARES neutrino telescope was a 0.01 km^3 volume detector located at the bottom of the Mediterranean Sea. It operated from 2007 until early 2022, and over its 15-year span it accumulated valuable neutrino data. The primary goal of ANTARES was to detect neutrinos originated at astrophysical sources. Due to the optical properties of the sea water, ANTARES was able to reconstruct neutrino events with an angular resolution better than 0.4 degrees at the highest energies, with a privileged view of the Galactic sky thanks to its location.

Throughout its operation, the ANTARES Collaboration regularly updated its findings on astrophysical neutrino emissions. Now, with the detector decommissioned, the final analysis using the complete dataset and most refined selection is presented in this contribution. The study looks for potential Galactic and extragalactic sources of high energy neutrinos, with point-like and extended assumptions on the emission profile. It also includes a search of neutrino clustering across the entire sky visible to the ANTARES telescope, as well as a dedicated survey of the Galactic Plane.

Collaboration(s)

ANTARES

Authors: ALVES GARRE, Sergio (IFIC); ILLUMINATI, Giulia (INFN-Bologna); SÁNCHEZ LOSA, Agustín (IFIC); SALESA GREUS, Francisco (IFIC)

Presenter: SALESA GREUS, Francisco (IFIC)

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