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

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The high-energy neutrino telescope ANTARES was a 0.01~km³ volume detector located in the Mediterranean Sea. It operated from 2007 until the beginning of 2022, accumulating more than 15 years of data. The ANTARES neutrino telescope main goal was to identify neutrinos from astrophysical sources particularly those of Galactic origin, using its sensitivity to neutrino coming from the Southern Sky with energies below 100 TeV, and its excellent angular resolution.

The ANTARES Collaboration has been consistently updating the results of these studies, incorporating all the data available at the time. With ANTARES decommissioned, the final update to this analysis using the complete dataset is presented and discussed in this contribution. The result includes a study of Galactic and extragalactic candidate sources for neutrino emission, both point-like or extended. Furthermore, it includes a search for neutrino clustering across the entire sky visible for the ANTARES telescope, along with a dedicated survey of the Galactic Plane.

Poster prize

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