

Search for a diffuse flux of cosmic neutrinos with the complete ANTARES dataset

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The ANTARES neutrino telescope took data from 2007 to 2022, collecting a high-purity sample of high-energy neutrinos. This sample can be used to search for a diffuse flux of cosmic neutrinos, emerging at the highest energies above the atmospheric backgrounds. A mild excess of cosmic neutrinos has been observed in the ANTARES dataset covering the first 11 years of data taking. In this contribution, the final update to such search will be presented, including all-flavour neutrino interactions collected over the 15-year lifespan of ANTARES, with an improved energy reconstruction and reduced systematic uncertainties.

Poster prize

No

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