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Constraints on the diffuse flux of cosmic neutrinos with the ANTARES neutrino telescope

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The ANTARES neutrino telescope took data for 15 years in the Mediterranean Sea, from 2007 to 2022, and collected a high-purity all-flavour neutrino sample. The search for a diffuse cosmic neutrino signal using this dataset is presented in this contribution. The non-observation of a statistically significant excess of high-energy neutrinos is converted into limits on the properties of the cosmic neutrino spectrum. Given the optimal sensitivity of the ANTARES neutrino telescope between 1 and 50 TeV, constraints are put on the behaviour of the diffuse cosmic neutrino flux below 20 TeV.

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