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ANTARES and KM3NeT: latest results of the neutrino telescopes in the Mediterranean

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The measurement of cosmic neutrinos is a new and unique method to observe the Universe. Neutrinos are chargeless, weakly interacting particles that can cross dense matter or radiation fields without being absorbed for cosmological distances. Indeed, they are a complementary probe with respect to other messengers such as multi-wavelength light and charged cosmic rays allowing the observation of the far universe and providing information on the production mechanism

This presentation will review the neutrino telescopes in the Mediterranean Sea that are operating or in progress. The ANTARES detector (Astronomy with a Neutrino Telescope and Abyss environmental RESearch), is the largest neutrino telescope currently in operation in the Northern Hemisphere and the first operating in sea water. Some of the ANTARES results will be reviewed, including diffuse and point-like sources searches and multi-messenger searches. Finally the future km³-scale telescope KM3NeT (Cubic Kilometre Neutrino Telescope) will be presented focusing on the expected performances and sensitivities.

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