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Indirect Search for Dark Matter with the ANTARES Neutrino Telescope

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The ANTARES Collaboration is operating the largest water Cherenkov neutrino telescope in the Northern hemisphere, installed in the Mediterranean Sea offshore France. One major goal of ANTARES is the search for neutrinos produced in self-annihilation of Dark Matter particles, for instance in the direction of the Sun or the Galactic Centre.

The results on the search for Dark Matter annihilations in the Sun with the data recorded between 2007 and 2012 are presented. The obtained competitive limts on the WIMP-proton cross-section are compared to the ones of other indirect and direct detection experiments as well as to predictions of SUSY models such as CMSSM and MSSM-7 models.

New preliminary results of ANTARES on Dark Matter searches towards the Galactic Centre are also presented, leading to the most stringent limits on the annihilation cross-sections for high mass WIMPs.

Finnaly, preliminary sensitivities on indirect search towards dwarf galaxies and the centre of the Earth are also expected to be presented.

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