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Dark Matter Studies and Results with ANTARES Neutrino Telescope

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The ANTARES neutrino telescope is the largest water Cherenkov neutrino telescope in operation in the Northern hemisphere, installed in the Mediterranean Sea. One of the main objectives of ANTARES is the searches for neutrinos produced in self-annihilation of Dark Matter particles. Results on the search for Dark Matter annihilations in the Sun will be presented. The obtained competitive limits on the WIMP-proton cross-section are compared to the ones of other indirect and direct detection searches. Results of ANTARES on Dark Matter searches towards the Galactic Centre will also be shown. Competitive limits on the annihilation cross-sections for high mass WIMPs have been obtained. Finally, the work on indirect searches towards dwarf galaxies and the centre of the Earth will also be addressed.

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