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Indirect dark matter searches in IceCube

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The IceCube Neutrino Observatory searches for a neutrino signal from dark matter self-annihilations in the Sun, the Earth, and the halo of the Milky Way among other targets. The signal neutrinos are identified as events with reconstructed energies and arrival directions that correspond to the distribution expected in dark matter self-annihilations. The latest results from IceCube will be presented with focus on the recent updates of the search from the center of the Milky Way. Two new analyses have been carried out that are sensitive to different energy scales and together cover an energy range from 10 GeV to 300 TeV in dark matter particle mass. Sensitivities as well as experimental exclusion limits will be presented for both analyses.

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