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Type: Talk

Reionizing the Universe with dark matter: constraints on self- annihilation cross sections

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I will show how it is possible to place sound constraints on DM self annihilation cross sections by making use of cosmological observables.

Current CMB measurements do in fact allow the possibility to test DM self-annihilation down to the thermal values for particle masses of few GeV, and to place constraints that depend only on cosmological parameters. This kind of constraints, competitive at the quantitative level with galactic multimessenger ones, thus offer the qualitative advantage to be unplagued by astrophysical uncertainties typically correlated with structures.

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