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Update on Dark Matter constraints from CMB anisotropies

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Cosmology, and especially the CMB anisotropies, has been proved to be a powerful tool in the quest for pinning down the nature of Dark Matter (DM).

In this talk, I will review how it is possible to get very competitive constraints on the lifetime and the fraction of unstable DM particles, as well as constraints on the annihilation cross section, using either purely gravitational arguments, and/or from the impact of decay products on the anisotropies of the CMB.

I will present new results using the very last Planck data and comment on perspective on new probes for testing DM properties with Cosmology.

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