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Probing the nature of dark matter with the CMB

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The cosmic microwave background has provided the most precise measurement of the dark matter (DM) abundance, and places stringent limits on its annihilation cross section. Yet, its nature remains unknown, motivating the exploration of non-standard models. In this talk I will discuss the imprints that such non-standard DM candidates may leave on CMB spectral distortions and anisotropy measurements, focusing on elastically scattering DM and primordial black holes.

Primary author: Dr ALI-HAIMOUD, Yacine (New York University)

Presenter: Dr ALI-HAIMOUD, Yacine (New York University)

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