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Solving the dark matter problem with new gravitational degrees of freedom

In this talk, I will discuss how a newly proposed gravitational theory (arXiv: 2007:00082, PRL in press) can solve the dark matter problem by reducing to Milgrom's Modified Newtonian Dynamics at the scale of galaxies and to the LambdaCDM model on cosmological scales. I will show that the theory (i) leads to correct gravitational lensing on galactic scales, (ii) propagates tensor modes at the speed of light, and (iii) gives excellent fits to the Cosmic Microwave Background anisotropies and the large-scale structure power spectrum.

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