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Kris Pardo (Princeton): Astrophysical and Cosmological Constraints on Dark Matter Emulators

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Several modified gravity theories have been proposed as attempts to explain dark matter. However, many of these dark matter emulators are unable to explain core phenomena of dark matter. We show that Verlinde's Emergent Gravity, a theory which reduces to MOND in the point mass limit, is unable to properly predict the rotation curves of isolated dwarf galaxies.

In addition, we use an analytic treatment to show that general dark matter emulators are unable to reproduce the observed baryonic acoustic oscillations.

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