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Unifying the Background with Perturbations in Chaplygin-gas Cosmology

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Recently a generalized Chaplygin gas has been proposed as a unifying solution to the dark energy and dark matter problems. In this work, we will study the density perturbations of a universe filled with radiation, baryonic matter and the Chaplygin gas fluid and analyse the implications on large-scale structure. We will then compare our model results with power spectrum of the observable universe.

Apply to be considered for a student award (Yes / No)?

yes

Level for award (Hons, MSc, PhD, N/A)?

PhD

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