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Generalized Dark Matter Cosmological Observables and Constraints.

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Generalized Dark Matter in one of its simplest form is an extension to the dark matter paradigm allowing homogeneous and perturbed pressures through a non vanishing equation of state parameter with a sound speed parameter different from zero. Yet these deviations from LCDM model could translate in large changes in the determination of geometrical cosmological observables as well as those of large scale structures formation and growth. We review attempts to constrain the parameters related to these extensions, using SN, BAO or CMB and Galaxy clustering observations and describe, in the GDM framework, modifications to cosmological solvers allowing to obtain needed distances and linear perturbations as well as the spherical collapse model for non linear ones.

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