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Sigma_8 tension in CMB and LSS and models beyond LambdaCDM

The determination of sigma_8 by both the CMB lensing and LSS galactic number counts assumes the LambdaCDM model for the growth function of structures.

We show that some models of dark energy like the Hu-Sawicky model make the sigma_8 tension worse while some models like the CPL phenomenological model ease the tension. Among dark matter models we find that assuming DM with shear and bulk viscosity eases the sigma_8 tension also. We also find that all these models which go beyond the LambdaCDM to also change the bounds on neutrino masses. Therefore the sigma_8 comparison between CMB and LSS is a good tool for testing models of Dark matter and Dark energy.

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