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RSD & weak lensing : Λ CDM is alive and well!

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The Λ CDM model has successfully passed the confrontation to many observations of cosmological relevances in the past. In recent years, several tensions have been raised up with the increasing accuracy of cosmological data. The amplitude of the matter fluctuations is regarded as one of these serious concerns. We show that redshift space distortion from present day surveys provide interesting constraints. The combination of these measurements

with DES3yr results of local probes lead to accurate constraints on the amplitude of the matter fluctuations consistent with the values inferred from the CMB, with a difference too weak to be qualified as a tension. We concluded that a standard Λ CDM model is in reasonable agreement with the amplitude of the matter fluctuations measured at low redshift.

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Classification de Session: Joint galaxy clustering and lensing analysis