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Towards a non-Gaussian model of RSD

mardi 19 mai 2020 14:30 (30 minutes)

In this talk, I will present the work we did in Cuesta-Lazaro et al. (2020, arXiv:2002.02683). I will first remind the ingredients we need to get a prediction of the redshift-space clustering of galaxies and extract constraints on the growth rate of structures. Then, I will present the improvement of the modelling of the galaxy pairwise velocities at small scales we proposed using the Skew-T PDF, which has nonzero skewness and kurtosis. Our model accurately reproduces the redshift-space multipoles (monopole, quadrupole and hexadecapole) predicted by N-body simulations, above scales of about 10Mpc/h. Eventually, I will show some applications of this model for a mock lightcone which reproduces the upcoming DESI Bright Galaxy Survey.

Auteur principal: ZARROUK, Pauline (ICC Durham University)

Orateur: ZARROUK, Pauline (ICC Durham University)

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