

Mocks for the DESI BGS

mardi 7 novembre 2023 11:00 (20 minutes)

I will present my contribution to the creation of realistic mocks for the DESI Bright Galaxy Survey. I will mainly focus on the BGS lightcones that I am producing using simulations created with the Parallel Particle-Mesh GLAM code (Klypin & Prada 2018). I will explain how I populate the dark matter halos with BGS galaxies and how I implement magnitudes and colour so that the mocks reproduce the evolution of clustering according to these physical properties. Then, I will show a comparison of the clustering of BGS GLAM mocks with other BGS mocks such AbacusSummit (Maksimova et al. 2021, Smith et al. in prep) and EZmocks that I am also producing. Eventually, as those mocks have been created in order to build covariance matrices, I will show that we can correct for the effect of replications and compare GLAM covariance matrix with other methods.

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Classification de Session: Review and contribution talks