



Contribution ID: 50

Type: **not specified**

Constraining baryonification using inter and intra cluster measurements combined

Thursday, 11 April 2024 16:25 (20 minutes)

Baryonification is a strong candidate for modeling the baryonic feedback on matter power spectrum. The gold of this model is that it provides an inclusive picture of both the intra-cluster physics, namely the cluster component profiles, and the inter-cluster physics, namely the 2pt function statistics of cosmic shear. We plan to both test the validity of this picture and constrain the baryonification parameters one step further using DES Y3 cosmic shear 2pt data product and X-ray measurements on the electron density profile of the clusters. In this talk I will present the Fisher forecast on such combined likelihoods and show the improvement on the baryonic parameters constraints contributed by cluster measurements.

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