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Turbulence in and around galaxy clusters

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Galaxy clusters are the most massive gravitationally bound structures in the universe. They are mostly made of dark matter, inducing a deep gravitational potential well, in which baryons are accreted from the cosmic web and heated up to millions of Kelvins, we call it the Intra-Cluster Medium (ICM). Lots of complex and linked physics processes happen in the ICM, one of them is turbulence. In this talk I will present why and how to study turbulence in the ICM and in the local environment of clusters using cosmological simulations.

Astrophysics Field

Cosmology

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