Near-Field Cosmology, a Theoretician Point of View

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Abstract: The quantitative mastery of cosmology and galaxy formation is targeted from two opposite directions: while observers use telescopes of ever growing size to look back in time theoreticians model cosmic structure formation and evolution from a period shortly after the big bang forward in time until today. But only recently it became possible for self-consistent cosmological simulations to make credible predictions for galaxies and their properties that can be directly compared to objects in the local Universe where observations are most complete and reliable.

In this talk I will introduce you into this exiting discipline referred to as "Near-Field Cosmology" that gauges cosmology on small scales. After a short primer on computational cosmology I am going to present some of my recent research highlights regarding the dynamics of satellite galaxies as derived from such simulations of cosmic structure formation.

Más información: http://www.ft.uam.es/docencia/seminarios.html