Dr. Leonardo Giani

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18 giugno 2024 ore 13:30
Aula Seminari – Dipartimento di Fisica

Cosmology from the point of view of an almost spherical cow

Abstract

Our understanding of the Universe is under siege. The standard cosmological model seems incapable of explaining the disagreement between observations of the early Universe and our cosmic environment, most notably the 5 sigma statistical tension on the value of the Hubble constant inferred through type Ia supernovae and the Cosmic microwave background measurements. In this talk, I will focus on the impact that the cosmic web, the complex distribution of structures emerged in the late Universe, might have on these cosmic tensions. In particular, I will describe how our home in the cosmos, the supercluster of galaxies Laniakea, could bias our measurements by distorting the spacetime geometry.

Online Attendance

https://unitn.zoom.us/j/6693295498
Meeting ID: 669 329 5498
Passcode: 451979