

# Testing dark energy through quasar cosmology

*mercoledì 20 dicembre 2023 11:30 (20)*

In the current era of precision cosmology, there is a growing interest in using new probes to explore the evolution of the universe and extend the mapping of its expansion to include currently uncovered redshift ranges. In this talk, I will introduce the possibility of using Quasars as cosmological probes, which have the potential to expand the Hubble diagram of Supernovae to  $z = 2.4 - 7.5$ , allowing us to distinguish between predictions of different cosmological models. Additionally, I will test several dark energy models using Quasar data and investigate their possible incompatibilities with measurements from Baryonic Acoustic Oscillations, Dark Energy Survey and Cosmic Microwave Background radiation.

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**Session Classification** : Astro Physics & Particle