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An investigation of galaxies at extreme redshifts with deep JWST observations

JWST is transforming our understanding of the high-redshift universe and of the epoch of cosmic dawn. In this talk, I will focus on the results from the GLASS-JWST survey and from its follow-up spectroscopic Cycle2 campaign. The GLASS-JWST NIRCam observations led to the discovery of a puzzling high number density of bright galaxies 300-500 Myr after the Big Bang and to the presence of an overdensity at z~10 in the field. I will discuss the implications of these findings for our understanding of early galaxy evolution, and, in particular, I will present the results from the ongoing deep NIRSpec spectroscopic follow-up which confirms the redshift of a bright, high-ionizing object at z=12.3 and a high number of bright z~10 galaxies.

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Galassie e Cosmologia

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