

ABSTRACT

I will present first results from the scientific exploitation of UltraVISTA and SPLASH surveys across the 2 sq deg of the COSMOS field. These observations in near- and mid-IR have been merged in a state-of-the-art catalogue (COSMOS2015, Laigle et al. 2016) that includes a statistically significant sample of $z>3$ galaxies. I will show how COSMOS2015 can shed light on galaxy evolution in the first 2 Gyr after the Big Bang, e.g. with respect to star formation efficiency in the most massive haloes. In addition to these findings I will also discuss a few open issues that should hopefully be solved by the James Webb Space Telescope.