## The evolution of high redshift massive galaxies in HUGS/CANDELS A. Fontana<sup>1</sup>

<sup>1</sup> INAF - Osservatorio di Roma

## Abstract

I will present the latest results on the evolution of high redshift massive galaxies from CANDELS and HUGS. The latter, in particular, is the deepest survey ever conducted in the K band over areas of cosmological interest. Resulting from an ESO Large Program that used more tan 200 hours of exposure time with the IR images Hawk-I at the VLT, it delivers images of suber quality (seeing;0.4") over two of the CANDELS field (UDS and GOODS-S/HUDF), reacing magnitude limits as faint as K=26.5-27. Merging this data set with the rest of the CANDELS dataset we have been able to investigate the evolution of massive galaxies at high redshift. In my talk I will focus in particular of two main results: - the evolution of the Galaxy Mass Function at  $z_i^2$ , and its consistency with the evolution of the star-formation rate as a function of redshift;

- the number density and redshift evolution of passively evolving galaxies at  $z_i^2$ ,