

Galaxy morphology at $0.5 < z < 1.0$ with VIPERS

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Abstract

The ongoing VIMOS Public Extragalactic Redshift Survey (VIPERS) enable a detailed analysis of the distribution and physical properties of galaxies in the redshift range $0.5 < z < 1.2$. Based on the first 57,000 VIPERS spectroscopic measurements, photometry and structural parameters of galaxies obtained from the Sersic profile fitting to the CCD images coming from CFHTLS survey we analyse the morphological properties of galaxies. Using multi-band photometry and Sersic parameters galaxies were divided into the early-type, late-type and intermediate population. We analyze and compare each galaxy sample and discuss physical correlation between morphological parameters of galaxies and their colour and other properties like luminosities and stellar masses. In addition we study the redshift evolution of these relation.