The origin of S0 galaxies in the Virgo cluster: results from the VESTIGE survey

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Abstract

The VESTIGE survey is a deep, blind Halpha narrow band imaging survey carried out at the CFHT with MEGACAM. During the survey we discovered several lenticular galaxies characterised by peculiar ionised gas structures. Some of these are filamentary structures, others rotating discs located in the very inner regions (_˜< 1 kpc). We use the unique set of multifrequency data in our hand to study the physical and kinematical properties of these features, identify the dominant ionising source, and see their possible relation with star formation.We then discuss the possible origin of these peculiar objects in the framework of galaxy evolution in rich environments.

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