

PISCES: Galaxy Properties as Functions of Environment and Time

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We are conducting a systematic study of cluster evolution based on panoramic multi-band imaging with Suprime-Cam and optical multi-slit spectroscopy with FOCAS on Subaru. This project is called PISCES standing for Panoramic Imaging and Spectroscopy of Cluster Evolution with Subaru. We carried out imaging observation of CL0016+16 ($z = 0.55$) and RXJ0152-13 ($z = 0.83$) under excellent conditions. Based on the data, we will present galaxy properties as functions of environment and time. We will mainly focus on evolution of large-scale structures, color-density relations, color-magnitude diagrams, and luminosity functions.

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