

Photometric Properties of Nearby Clusters of Galaxies

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We present a progress report of the photometric study of 18 nearby ($z < 0.18$) rich Abell clusters of galaxies. We have obtained BVR CCD images of these clusters of galaxies using the 1.8m telescope with 2K CCD camera at Bohyunsan Optical Astronomy Observatory (BOAO). Color-magnitude diagrams of most of the clusters show well-defined color-magnitude relation (CMR) of early-type galaxies. Variations of spatial distribution and luminosity function (LF) depending on the morphological types of galaxies are also investigated.