

[GC14] Photometric properties of Globular Cluster System in Giant Elliptical Galaxy NGC 4636

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We present a photometric study of globular clusters (GCs) in NGC 4636, a giant elliptical galaxy in Virgo cluster. The photometric properties of globular clusters in inner region of NGC 4636 were obtained from HST/WFPC2 images and those in outer region from deep wide-field Washington CCD images taken with KPNO 4-m Telescope. The globular cluster system of NGC 4636 shows a clear bimodal color distribution: blue peak at $(C-T_1) \sim 1.3$ and red peak at $(C-T_1) \sim 1.7$. Luminosity function, specific frequency, spatial distribution, and color distribution were investigated for both blue GCs and red GCs, as well as for all GCs. With those photometric properties in hand, the formation of NGC 4636 globular cluster system is discussed.
