Multi-Color Surface Photometry of the Blue Compact Dwarf Galaxy HARO 6 in Virgo Cluster

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We present optical and near-IR multicolor photometry, for the blue compact dwarf galaxy HARO 6 in Virgo Cluster. Our *UBVRI* and *JK* surface photometry confirms that the radial luminosity distribution is well described by an exponential disk in all wavelength domain, except the central 6″ region. A scale lenth, 1α = 2″.6 (0.13 kpc with Hubble constant = 75 km/sec), and a central bringtness in *B*, $B(0)=21.44$ mag/sq. arcsec is drived. We also obtained a Hα narrow band image to investigate ionized regions and found a strong emission region of 20″ in size at the center. HARO 6 appears to have a low-surface-brightness elliptical envelope, which is extended to the radius of 20″. With the mean intrinsic ellipticity of dwarf galaxies, $\langle q \rangle = 0.35$, the measured ellipticity indicates an inclination of 36° for this galaxy.

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