

Poster

Catalog & Atlas of the LV Galaxies

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We present a database of galaxies in the Local Volume (LV) (<https://www.sao.ru/lv/lvgdb/>) having individual distance estimates within 11 Mpc or corrected radial velocities $V_{LG} < 600 \text{ km s}^{-1}$. It collects data on the following galaxy observables: angular diameters, apparent magnitudes in far-UV, B, and Ks bands, $H\alpha$ and HI fluxes, morphological types, HI-line widths, radial velocities, and distance estimates. Also contains a consolidated set of optical images of all the galaxies from the SDSS and DSS surveys and $H\alpha$ images of galaxies that were observed with the 6-m BTA telescope. The latest version of the Updated Nearby Galaxy Catalog (UNGC) (Karachentsev et al. 2013) contains 869 objects, now in the database more 1200 objects. We present the some main dependencies describing the updated sample LV galaxies: Hubble flow, distribution galaxies according to their distance estimates and on the sky, relation between the absolute magnitude, Holmberg diameter, and rotation velocity et al.