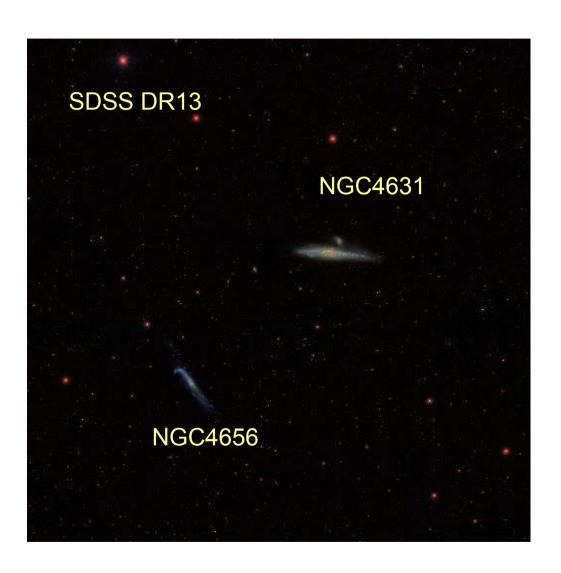
RESOLVED STELLAR STREAMS AROUND NGC 4631 FROM A arXiv:1704.03146 SUBARU/HYPER SUPRIME-CAM SURVEY

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Subaru/Hyper Suprime-Cam (HSC): 104 CCD 2048 × 4096, 0.17"/px **F.O.V. 1.5 deg** (190 kpc at the distance of N4631/56)

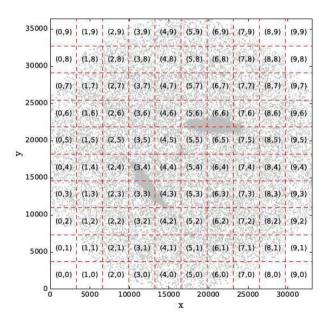
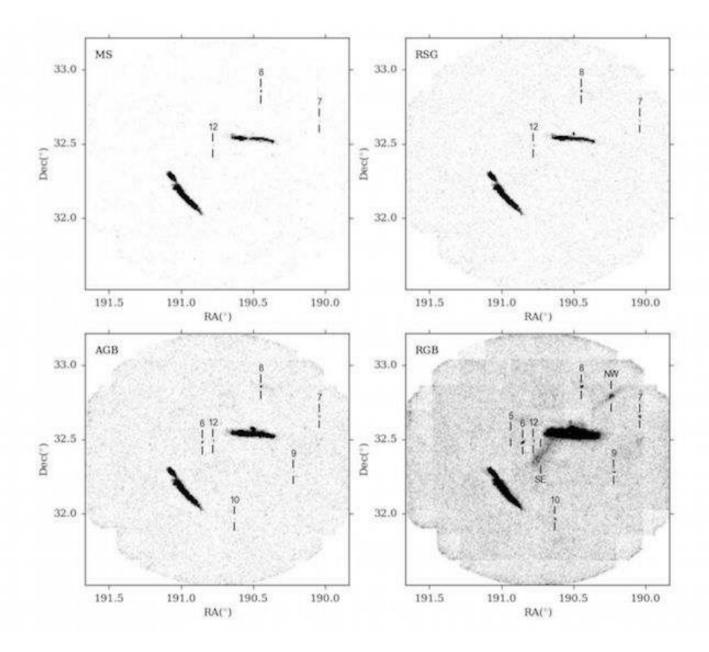
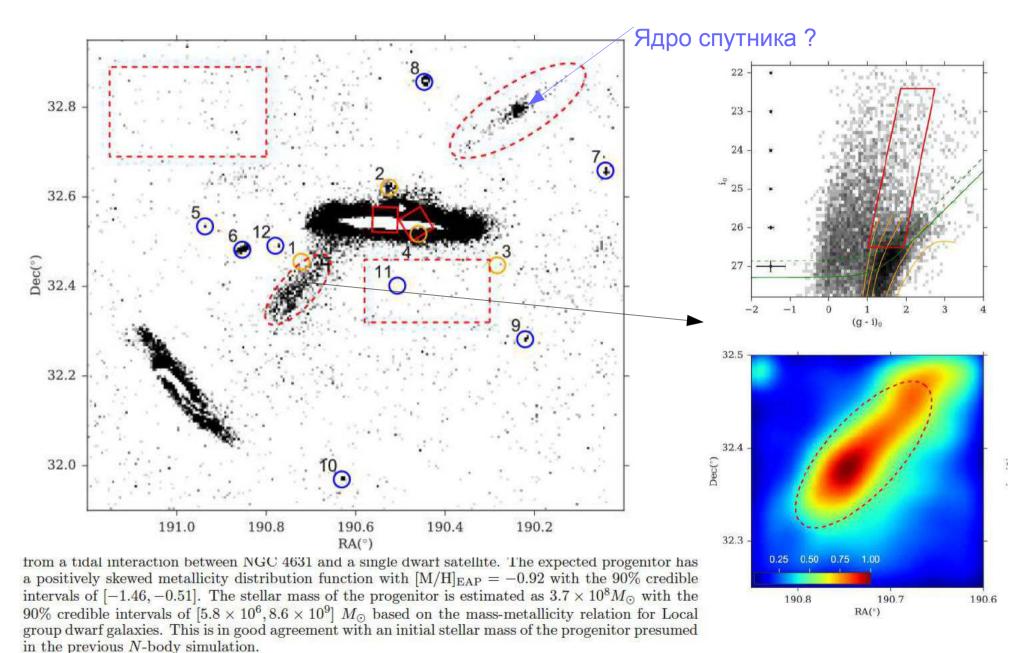


Figure 1. The HSC FoV map of subfields divided by 10×10 red-dashed grids for detection and psf-fitting photometry. Grey points indicate objects from our final photometric catalog selected under the restrictions of PyRAF/DAOPHOT parameters (merr < 0.5,









Расстояния до приливных структур по точке перегиба ветви красных гигантов Stream SE (7.10 Mpc, 90% - [6.22, 7.29] Mpc) Stream NW (7.91 Mpc, 90% - [6.44, 7.97] Mpc) - на переднем и заднем фоне, соответственно

Средняя пов. яркость (V): 31.0 и 32.1 mag/arcsec2 Слабее, чем у более массивных галактик:

Currently, there is observational evidence that stellar halos may become less common at lower stellar masses than Milky Way mass spiral galaxies (e.g., Tanaka et al. 2011; Streich et al. 2016) although there is a variation in the masses of stellar halos of spiral galaxies with stellar masses similar to that of the Milky Way (Merritt et al. 2016; Harmsen et al. 2016). NGC 4631 is interpreted as a large Magellanic-type galaxy for many years, and it is classified as a relatively late-type spiral galaxy in the Local Volume (de Vaucouleurs & de Vaucouleurs 1963). Therefore, we can infer that NGC 4631 is less massive galaxy than the Milky Way. Notwithstanding, NGC 4631