

Impact of the accretion of Sagittarius dwarf on the distribution of Milky Way's globular clusters

Naira Arakelyan (n.rubenovna@mail.ru)

Lebedev Physical Institute of the Russian Academy of Sciences, Russia

In this work, a search was carried out for globular clusters (GCs) belonging to the Sagittarius tidal stream using the method of nearest neighbors and the analysis of radial velocities relative to the Galactic Standard of Rest (VGSR), age-metallicity (Fe/H) and proper motions for GCs and for stars in the tidal stream. As a result, 2 lists were received: the main list consisting of 8 GCs (For 4 of 8 GCs there is a discrepancy in the proper motions, because of this they can be considered as candidates) and the list of candidates - 15 GCs. The anisotropy of the GCs distribution for GCs belonging to the tidal stream of Sagittarius and the anisotropy of the GCs distribution without GCs belonging to the stream was also measured. Measurements have shown that the stream affects the spatial distribution of GCs in the Galaxy.