

Distances Of Globular Clusters Based on Hipparcos Parallaxes of Nearby Subdwarfs

Somaya Mohamed Saad and Sang-Gak Lee
Astronomy Program, SEES, Seoul National University

In the present study we have determined the distance modulus for seven Globular Clusters M2, M3, M10, M12, NGC 2808, NGC 6752, and NGC 6229. Distances for the seven globular clusters are derived using an enlarged sample of local subdwarfs, whose accurate parallaxes are taken from the Hipparcos catalog. The derived distance moduli are 15.60 ± 0.05 for M2, 15.09 ± 0.15 for M3, 14.40 ± 0.05 for M10, $14.57 + 0.14$ for M12, 15.49 ± 0.07 for NGC 2808, 13.37 ± 0.03 for NGC 6752 and 17.27 ± 0.11 for NGC 6229. We have compared the results with other existing determinations.