

Globular Cluster BS90¹⁴ In this part of the experiment we are analyzing the properties of the globular cluster BS90¹⁴. Unfortunately the bad weather conditions during our measurement prevented us from collecting data by ourselves. Instead we are working with images taken by the Hubble Space Telescope (HST).

Zeropoint calibrationsec:zeropoint To calibrate the measured data to a standard scale, which is in this case the apparent magnitude scale, we are comparing the counts of several standard stars with reference values from SIMBAD, an astronomical data base. From these results we can determine the zeropoint p_0 using equation (1): $p_0 = m_{CATALOG} + 2.5 \log_{10}(counts)$