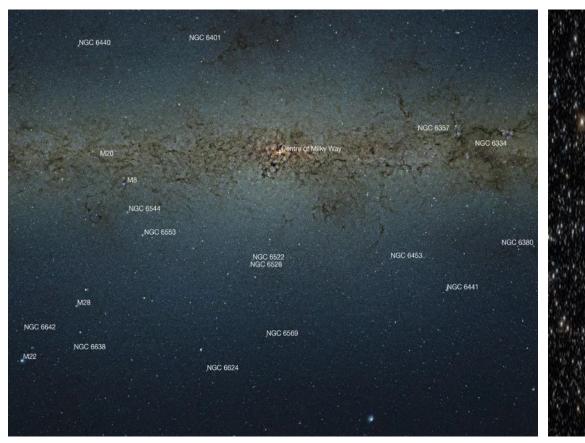
Star Cluster Analysis NGC 6453

Karthika Selvaraj
Aishwarya Saibewar
Fidan Aydamirova
Alfiler Jomaica

Overview

- 1. Globular Cluster
- 2. NGC 6453
- 3. Determining age, metallicity, distance, dust extinction, tidal radius of the cluster
- 4. Automated Tool: ASTECA

Star cluster NGC6453- Hubble Telescope

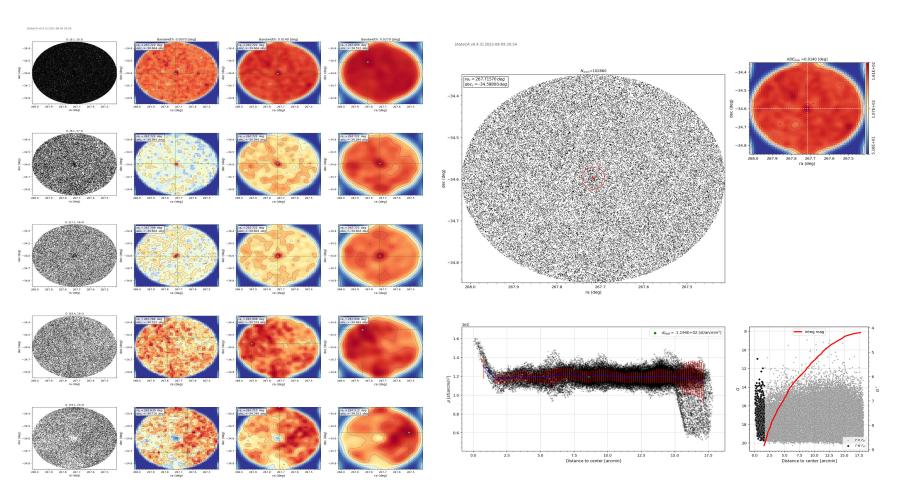




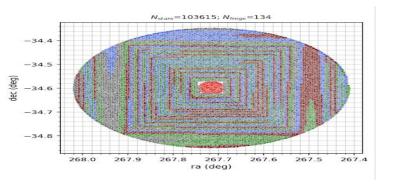
ASTECA

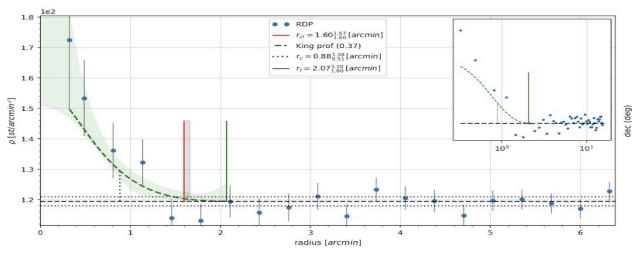
- Center Determination
- Radius Determination
- Radial Density Profile
- Field Density
- Cluster and field star region

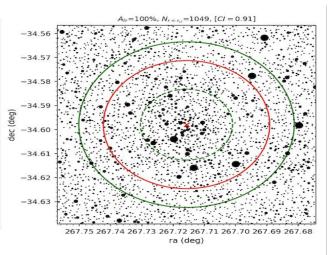
Center and Radius determination



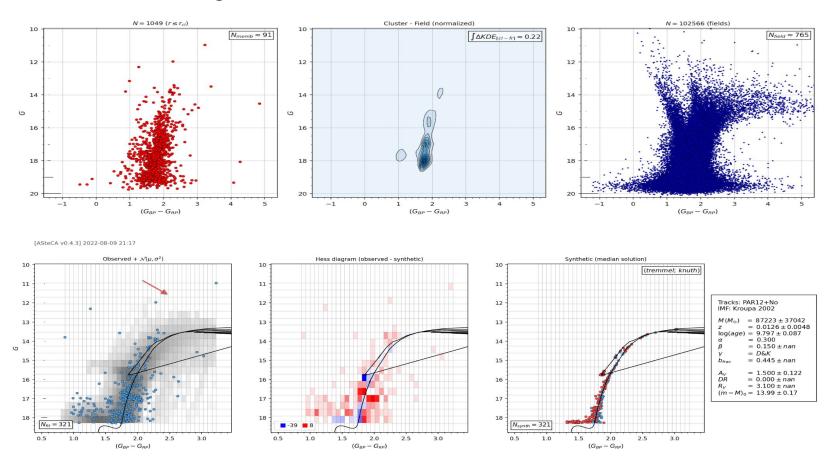
Radial Density Profile







Cluster and field star regions



FINDINGS:

- Metallicity = 0.0126 +/- 0.0048
- Age = 9.797 +/-0.087
- Dust Extinction = 1.500 +/- 0.122
- Distance = 13.99 ‡ 0.17