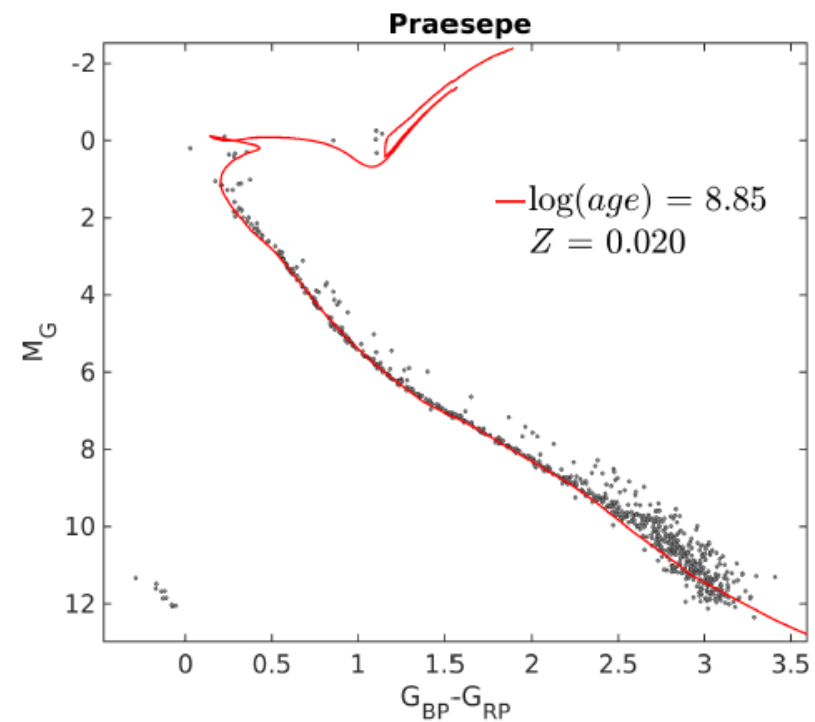
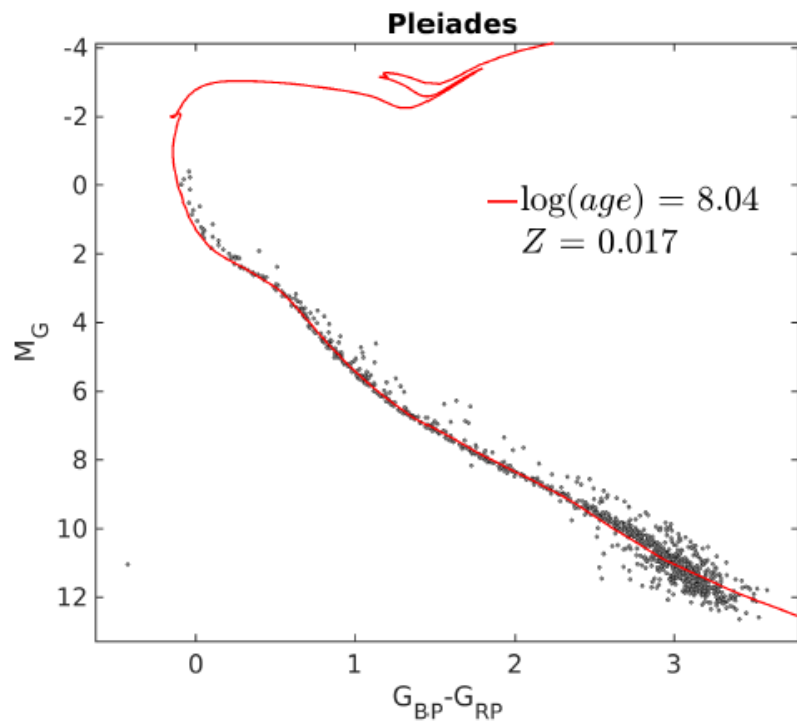
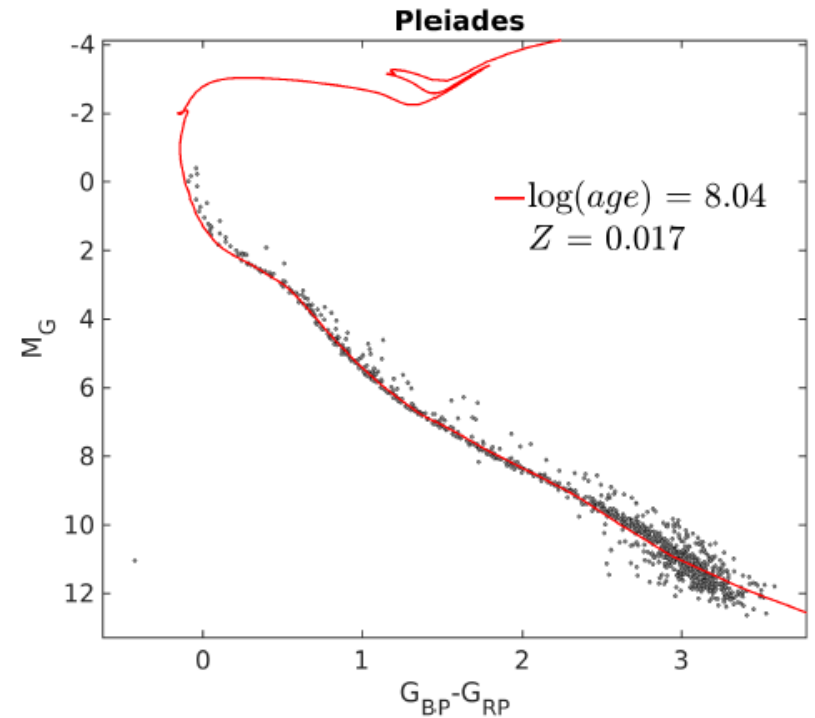
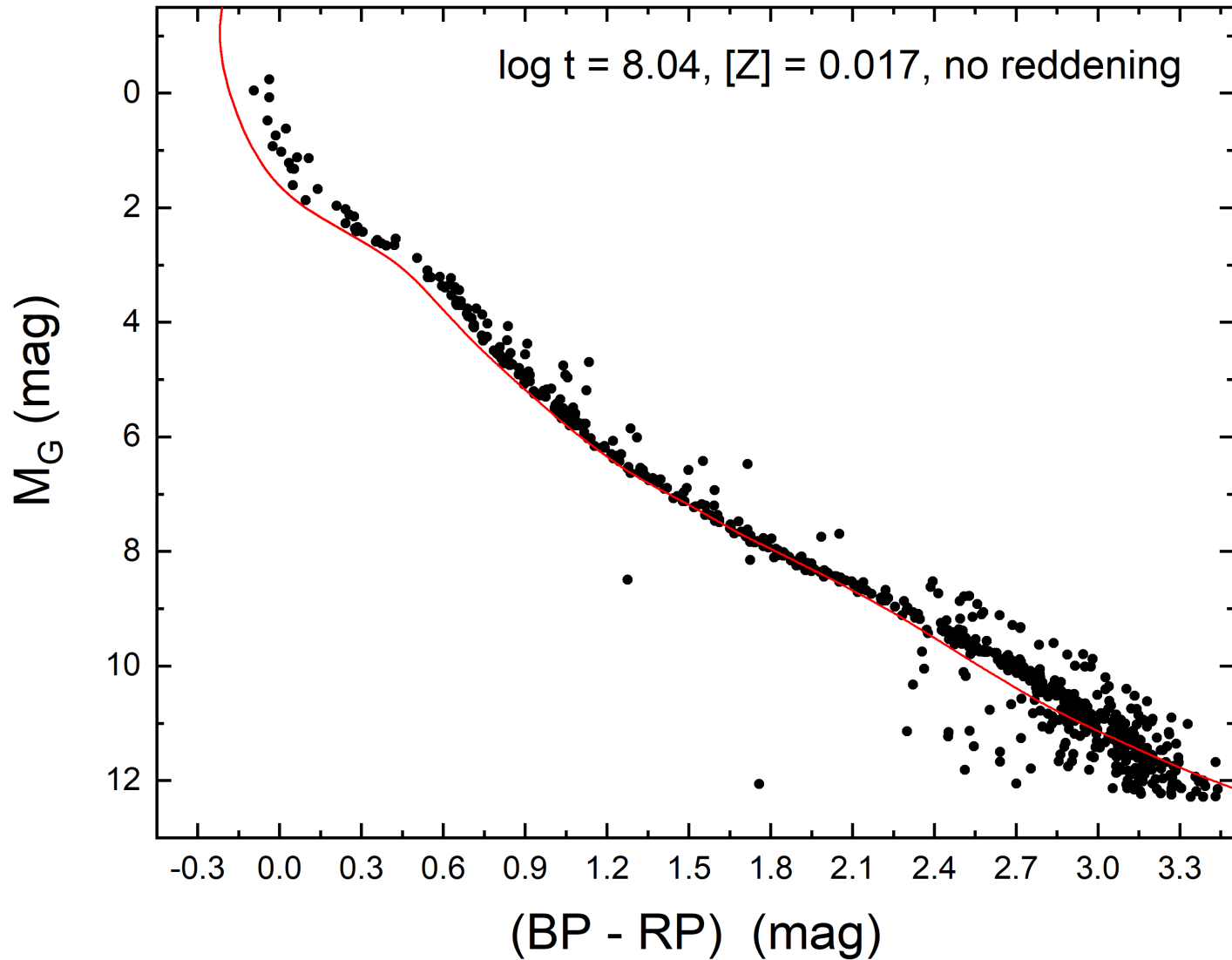


Color-Magnitude Diagram

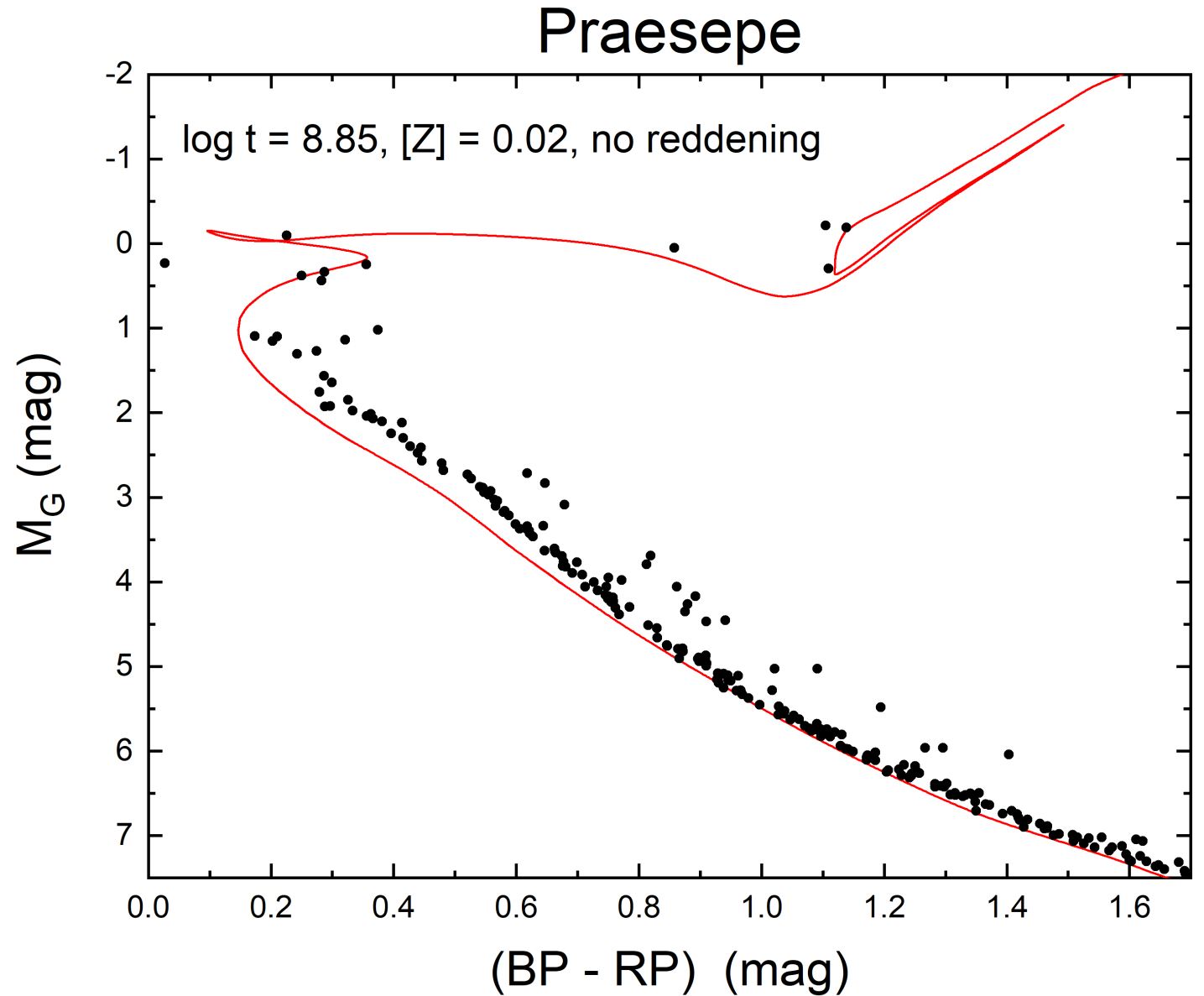
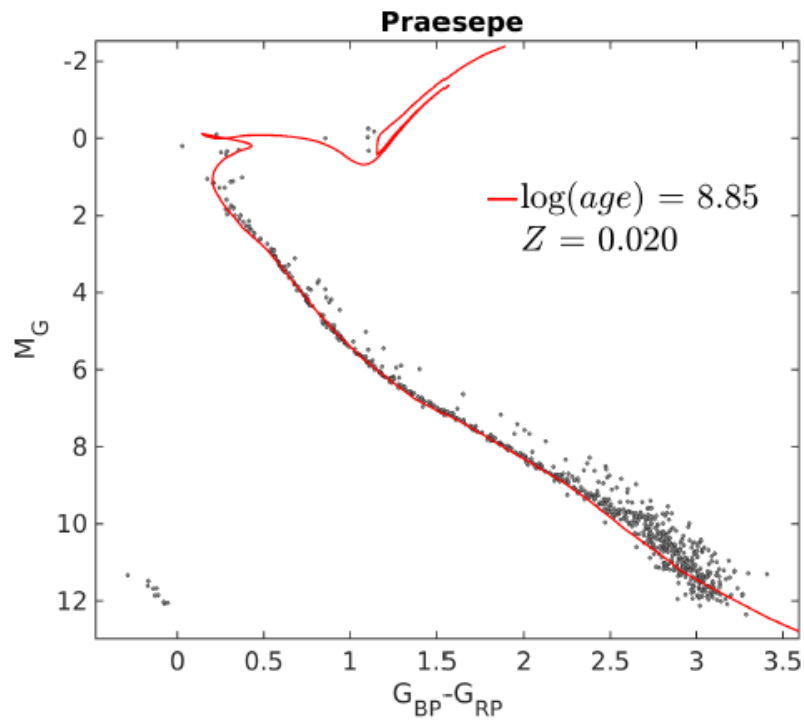


Color-Magnitude Diagram

Pleiades



Color-Magnitude Diagram



What we will do

- **Field stars**

- Take the HRDs, use different grids and estimate the mass, radius and age for all individual stars
- Sort stars according to metallicity => same task
- Calculate differences and search for correlations and offsets

- **Open clusters**

- Johnson, Gaia and 2MASS photometry: get cluster parameters
- Calculate differences and search for correlations and offsets

- **Globular clusters**

- Johnson photometry: get cluster parameters
- Calculate differences and search for correlations and offsets

Samples for comparison

- **Field stars**

- Stroemgren $uvby\beta$ photometry: intrinsically reddening and metallicity calibration
- Geneva 7-colour photometry: reddening used from Stroemgren $uvby\beta$ photometry plus nearby stars without reddening, also metallicity calibration available

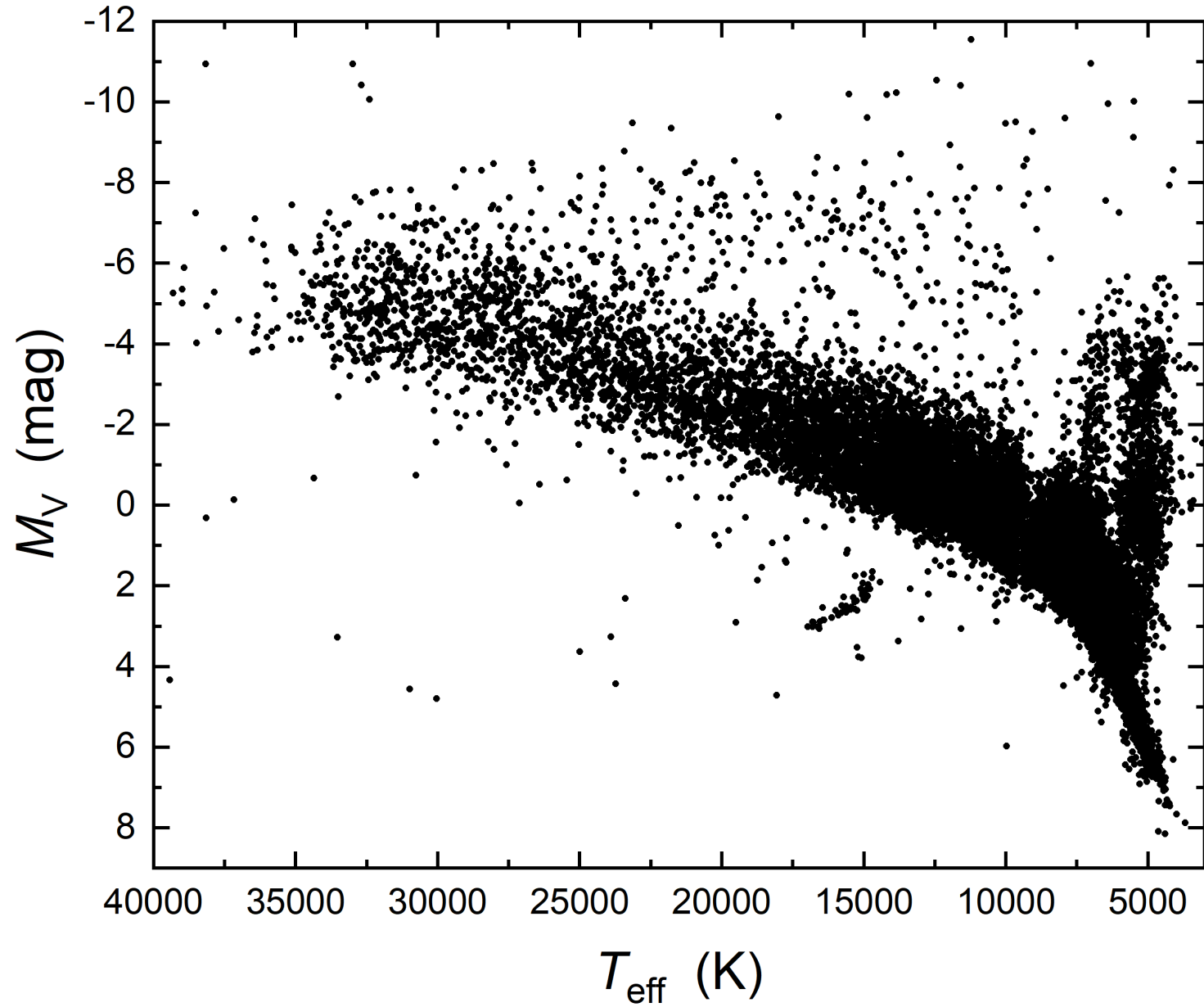
- **Open clusters**

- Johnson, Gaia and 2MASS photometry, cleaned data sets

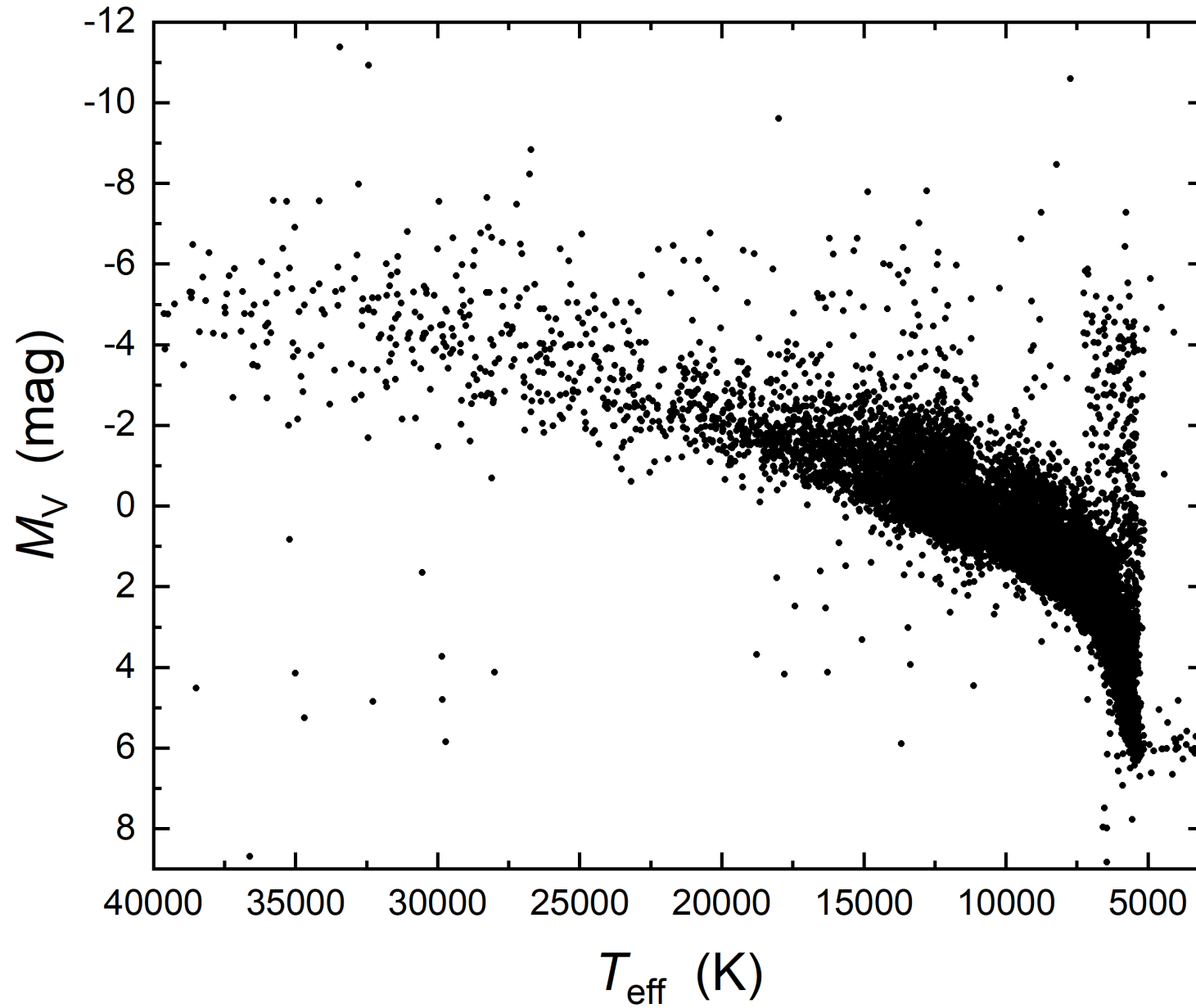
- **Globular clusters**

- Johnson photometry [**homework**]

Sample - $uvby\beta$ photometry



Sample - Geneva photometry



2MASS photometry

Gaia photometry

