

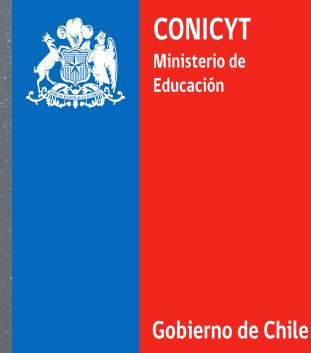
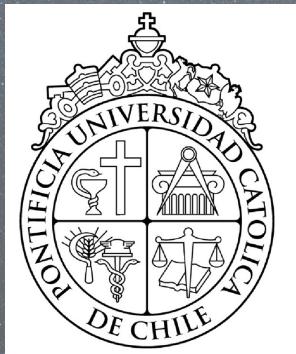
# Interview U. of Cambridge, UK

## Wyn Evans, Vasily Belokurov

**F. Gran**, M. Zoccali, I. Saviane, E. Valenti,  
A. Rojas-Arriagada, R. Contreras Ramos, J. Hartke,  
J. Carballo-Bello, C. Navarrete, M. Rejkuba & J. Olivares

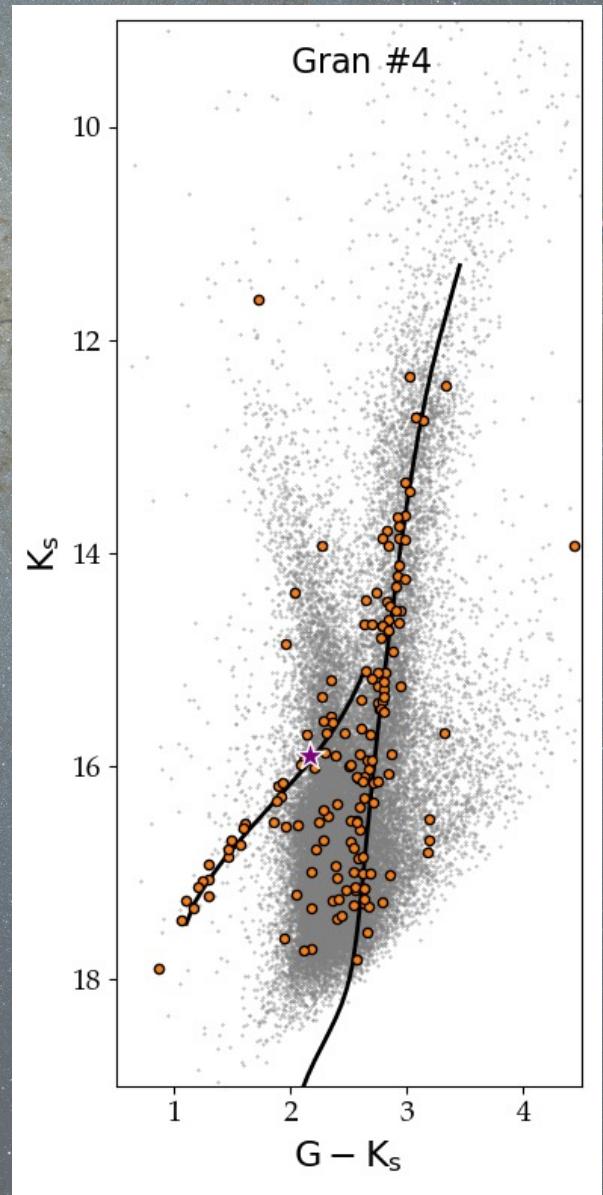
**fegran@uc.cl**

This presentation is available at  
**fegran.github.io/Interview\_Cambridge**



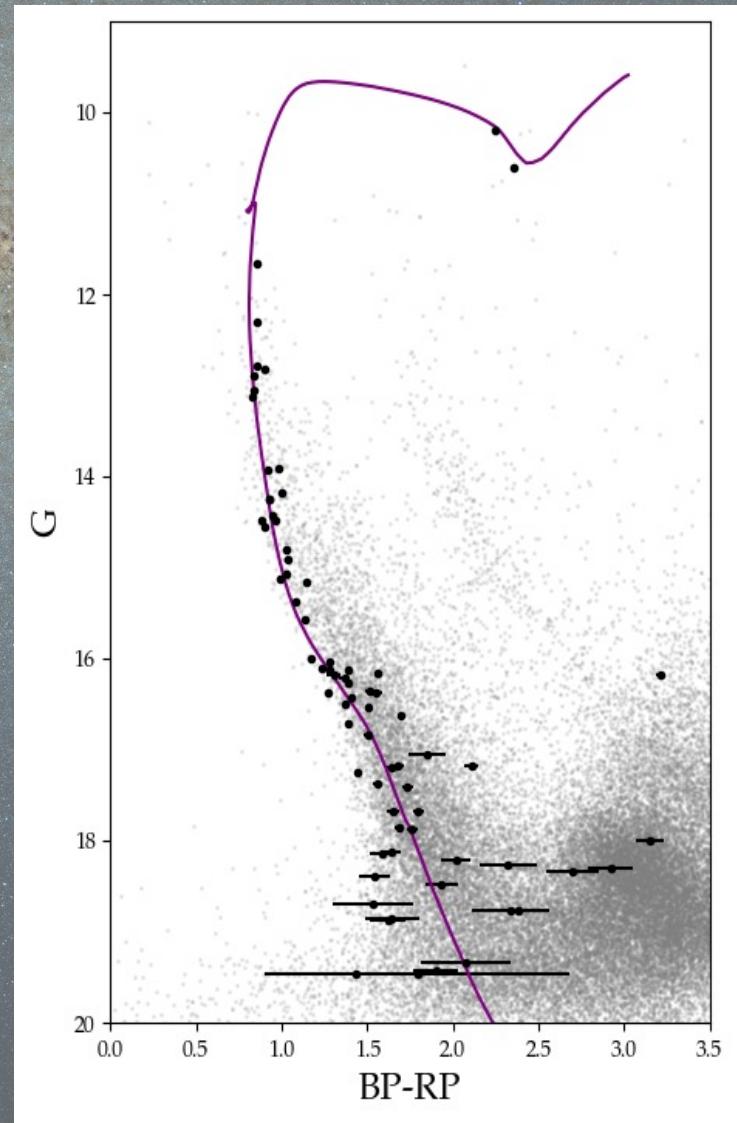
# Current and past activities

- Surveys:
  - Gaia, VVV, APOGEE



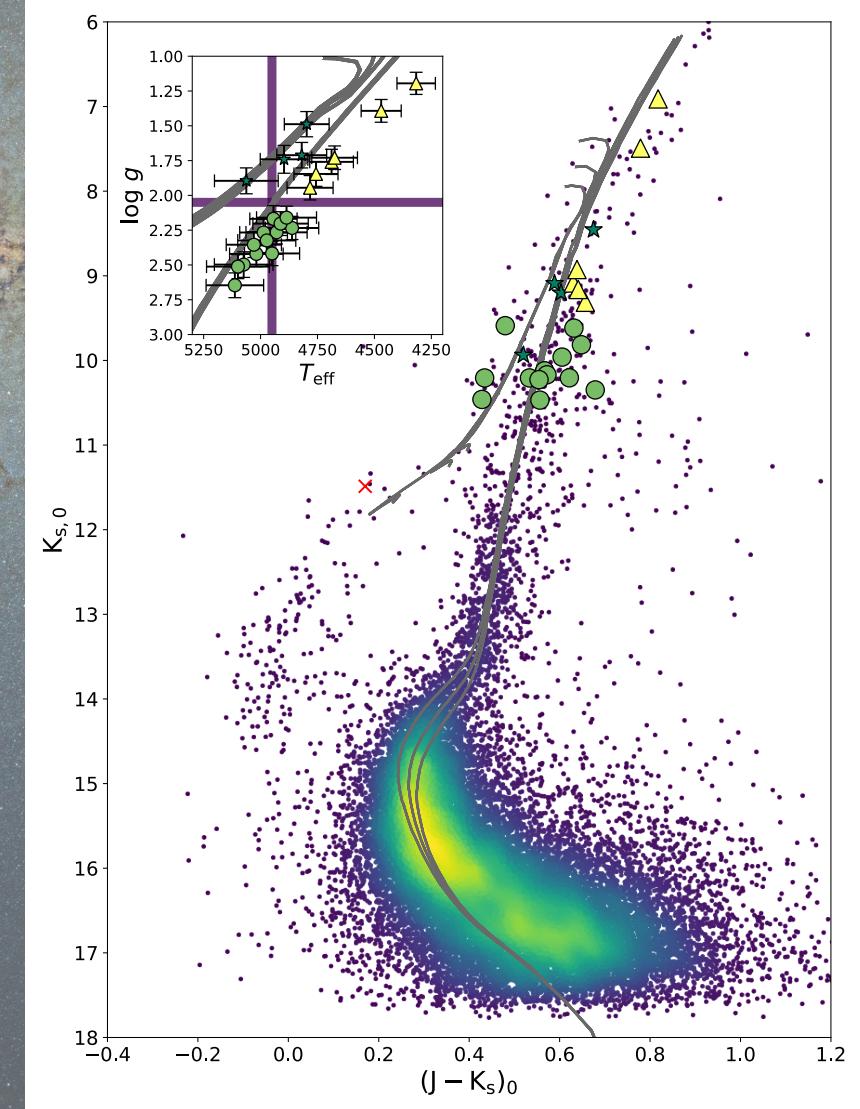
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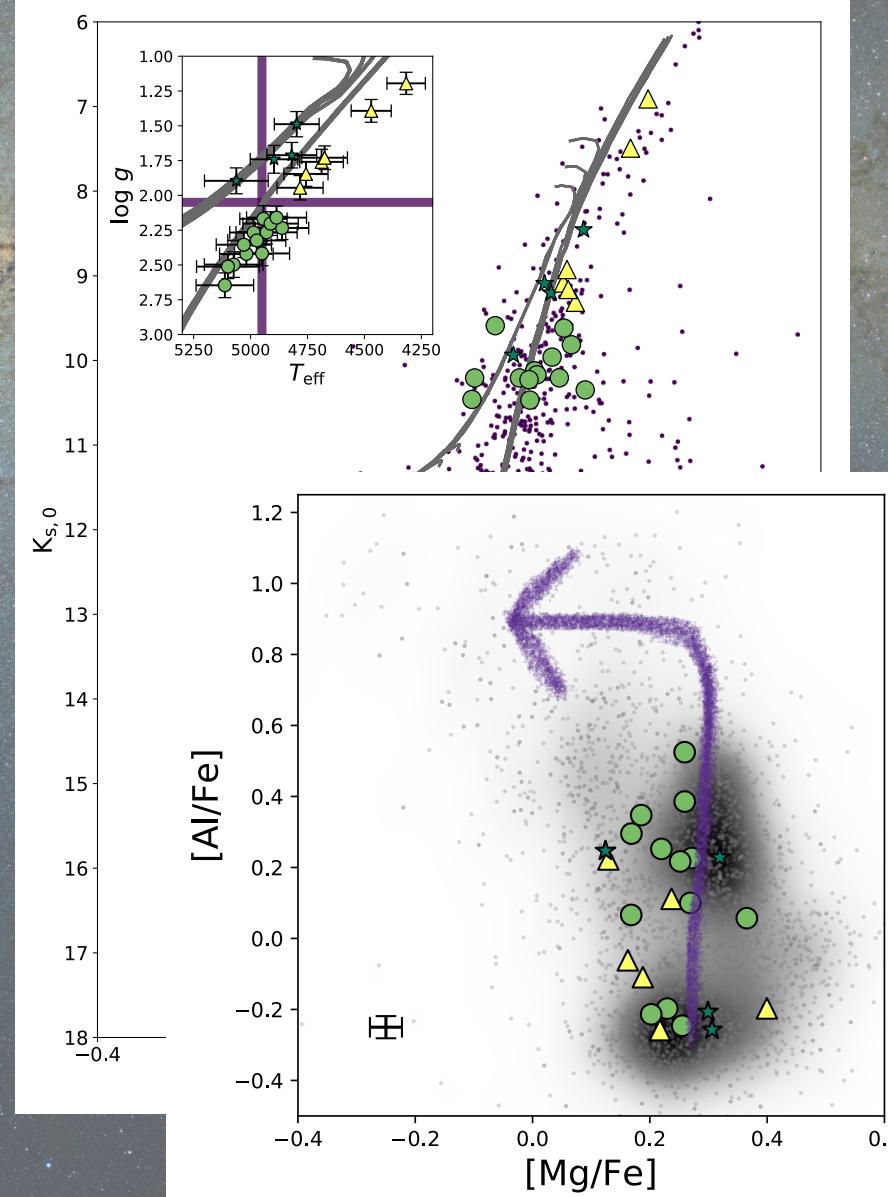
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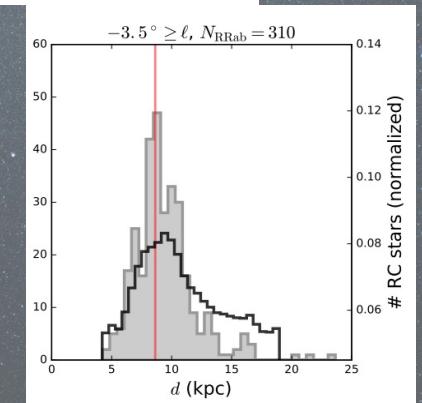
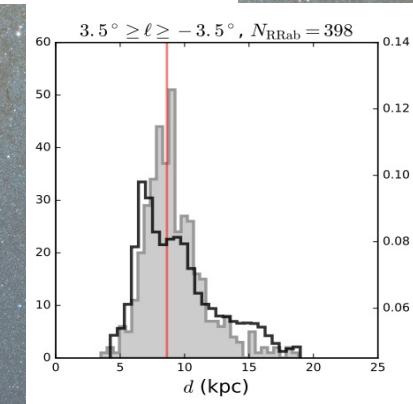
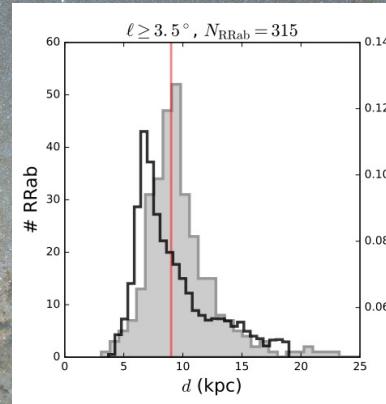
# Current and past activities

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# Current and past activities

- Surveys:
  - Gaia, VVV, APOGEE
- Galactic bulge:
  - Structure with RR Lyrae stars



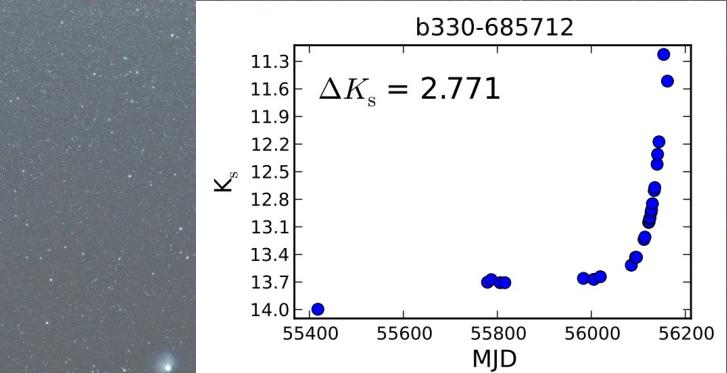
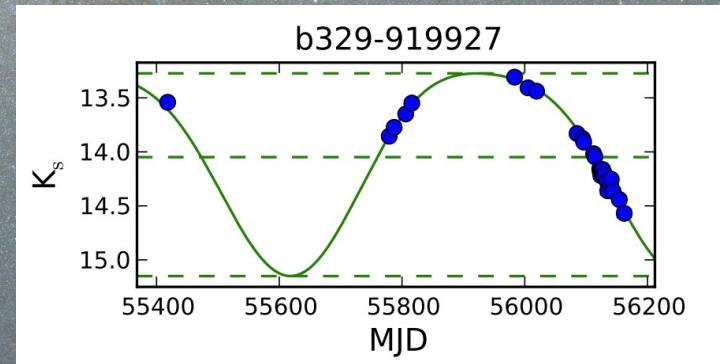
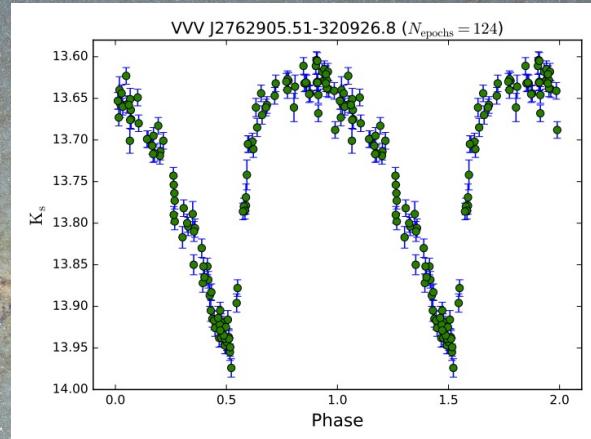
# Current and past activities

- Surveys:
  - Gaia, VVV, APOGEE
- Galactic bulge:
  - Structure with RR Lyrae stars
  - Globular clusters



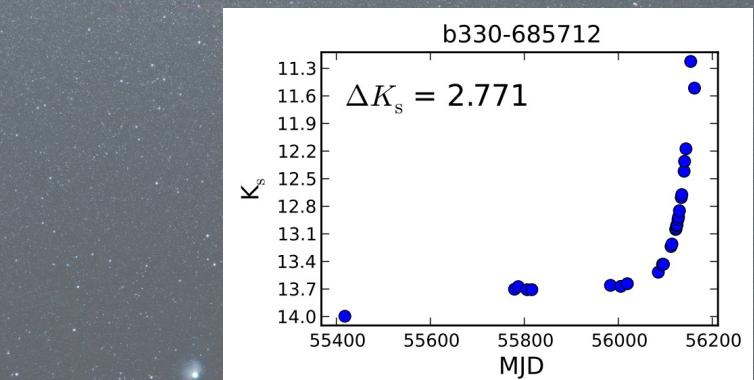
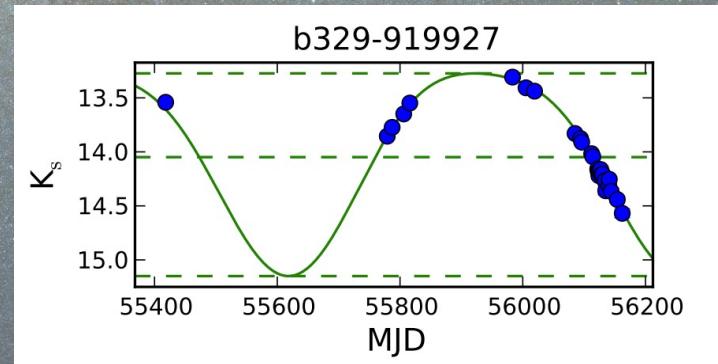
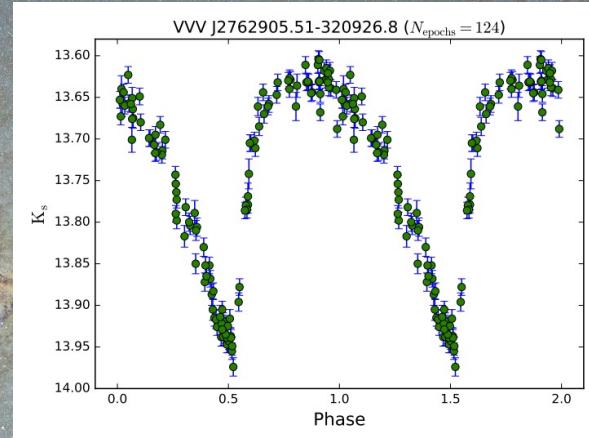
# Current and past activities

- Surveys:
  - Gaia, VVV, APOGEE
- Galactic bulge:
  - Structure with RR Lyrae stars
  - Globular clusters
- Variable stars:
  - Automatic classification



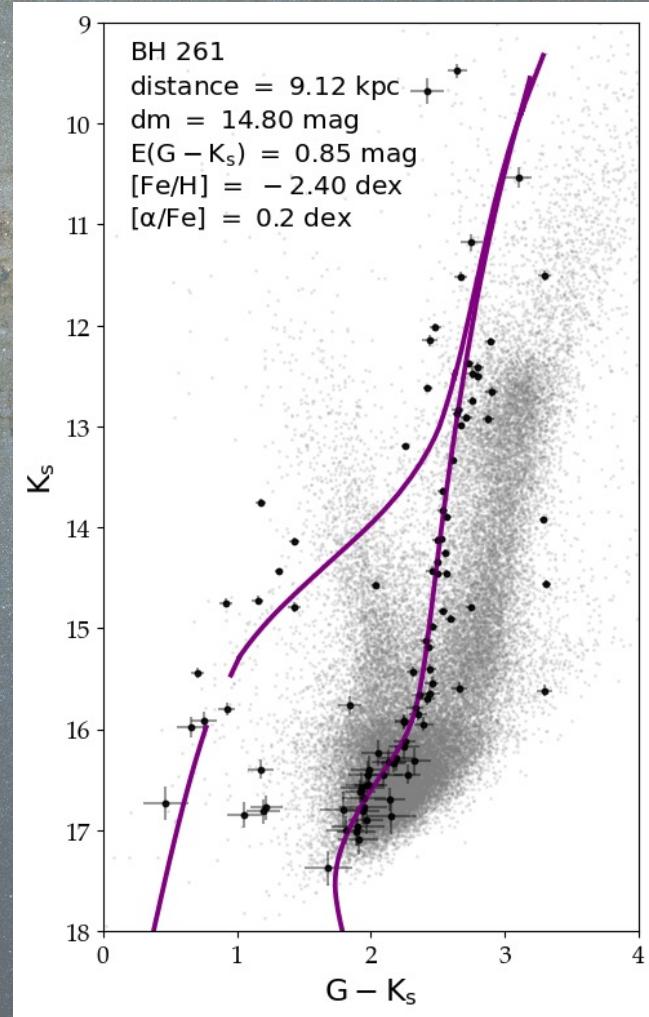
# Current and past activities

- Surveys:
  - Gaia, VVV, APOGEE
- Galactic bulge:
  - Structure with RR Lyrae stars
  - Globular clusters
- Variable stars:
  - Automatic classification
- **Proper motions as a key concept**



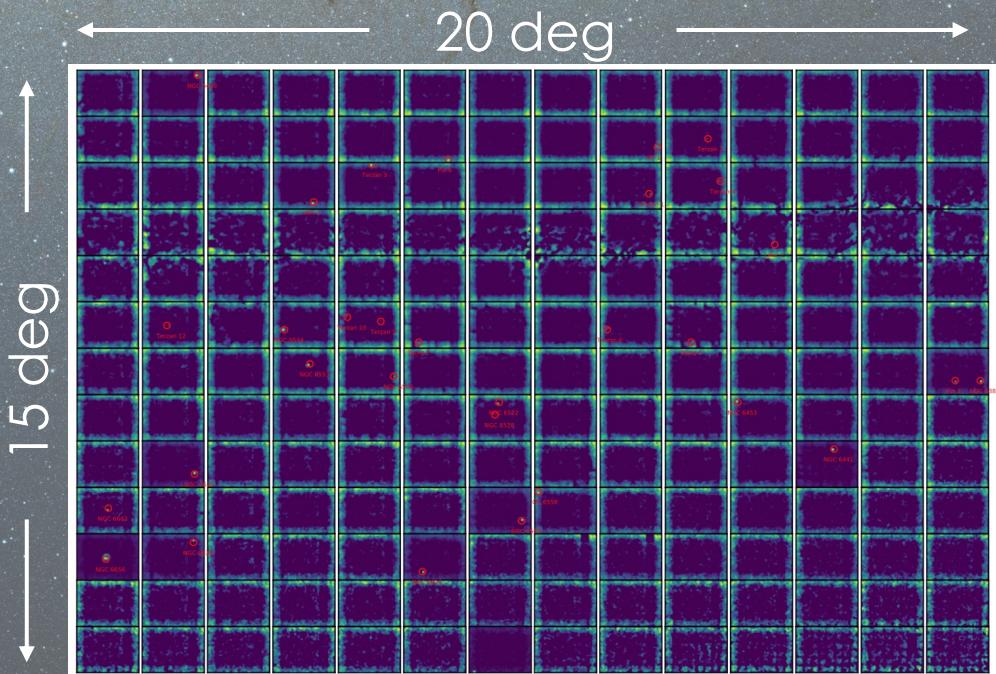
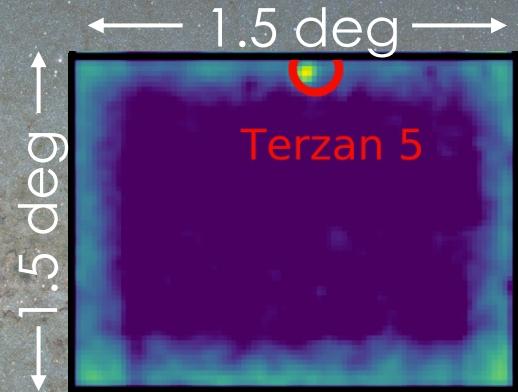
# Open and proposed projects

- Chemical characterisation of globular clusters:
  - MUSE observations
  - UVES proposal P109



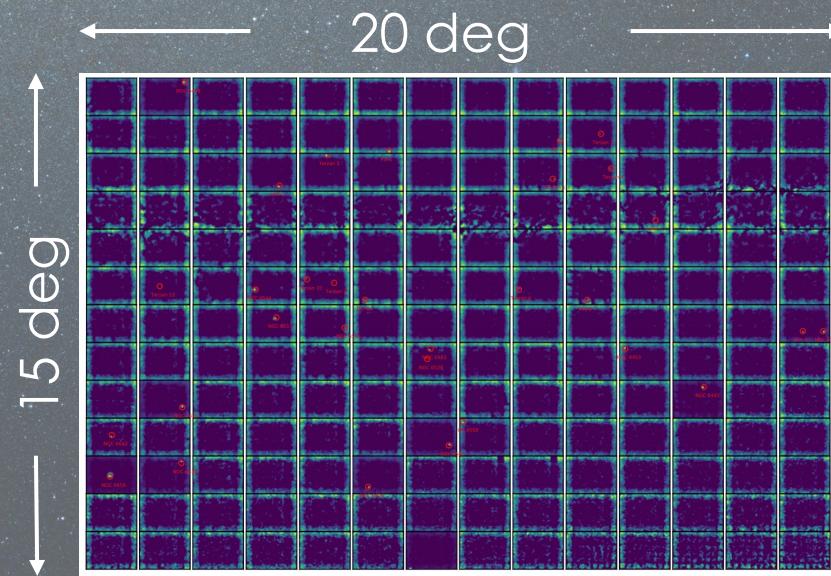
# Open and proposed projects

- Chemical characterisation of globular clusters:
  - MUSE observations
  - UVES proposal P109
- Gaia DR3 + VVV PSF photometry
- Terzan 5 and Liller 1



# Open and proposed projects

- Chemical characterisation of globular clusters:
  - MUSE observations
  - UVES proposal P109
- Gaia DR3 + VVV PSF photometry
- Terzan 5 and Liller 1
- Proper motions: Galactic bulge



The background of the image is a dark, textured field of stars and celestial dust, creating a sense of depth and space.

Thank you!

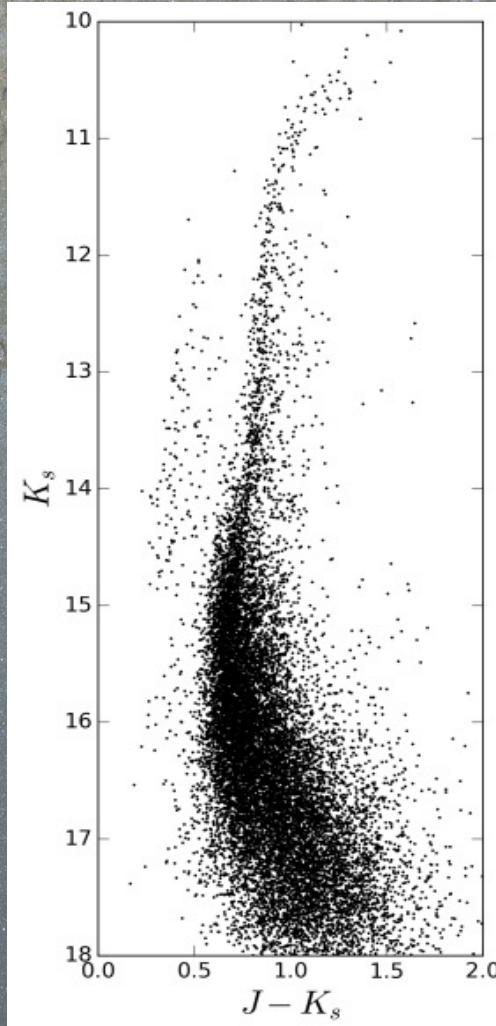
# VVV proper motion catalogue



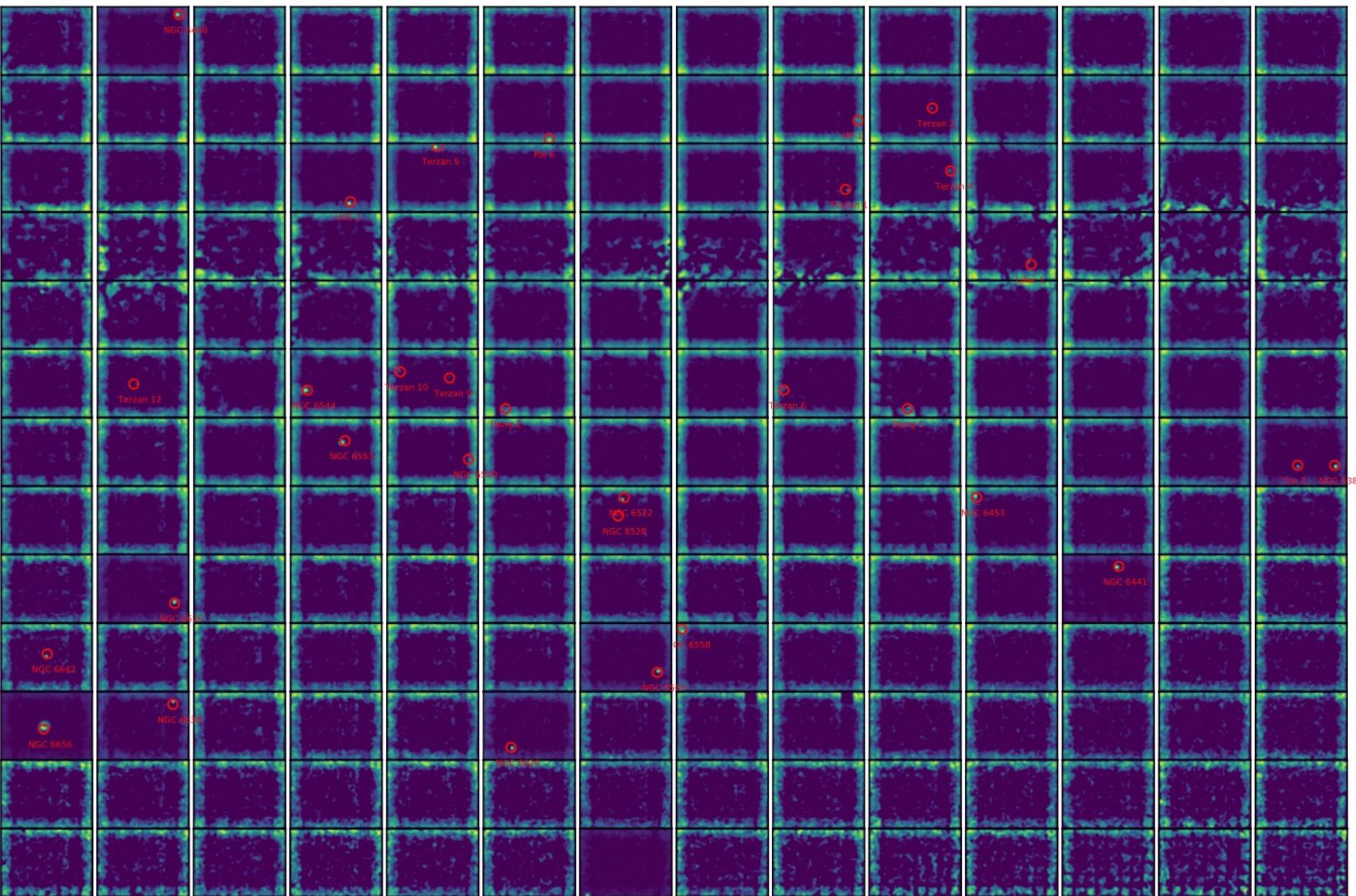
Near-IR survey  
(ZYJHK<sub>s</sub>)

~100+ K<sub>s</sub> epochs

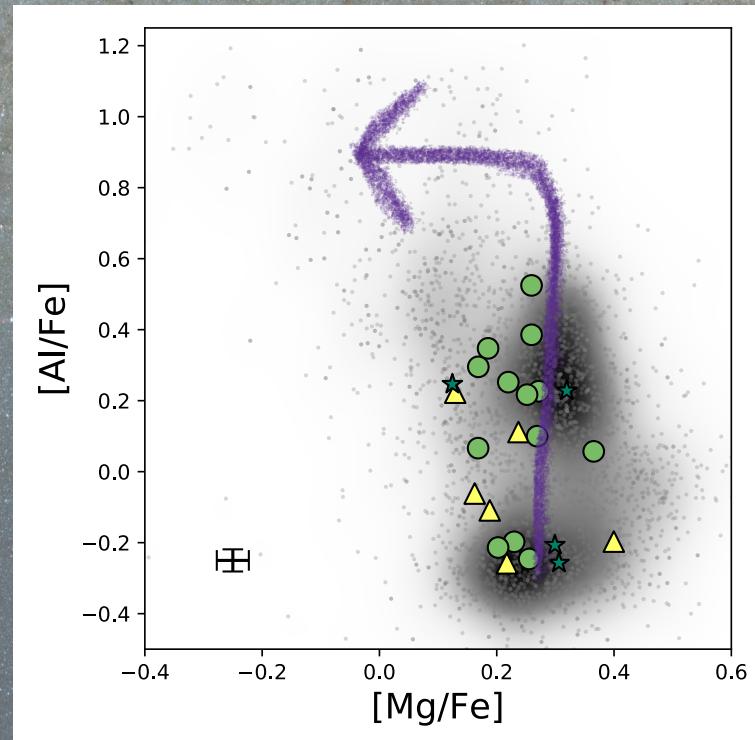
Relative proper  
motions:  
 $\mu_l \cos(b)$ ,  $\mu_b$



# VVV proper motion catalog

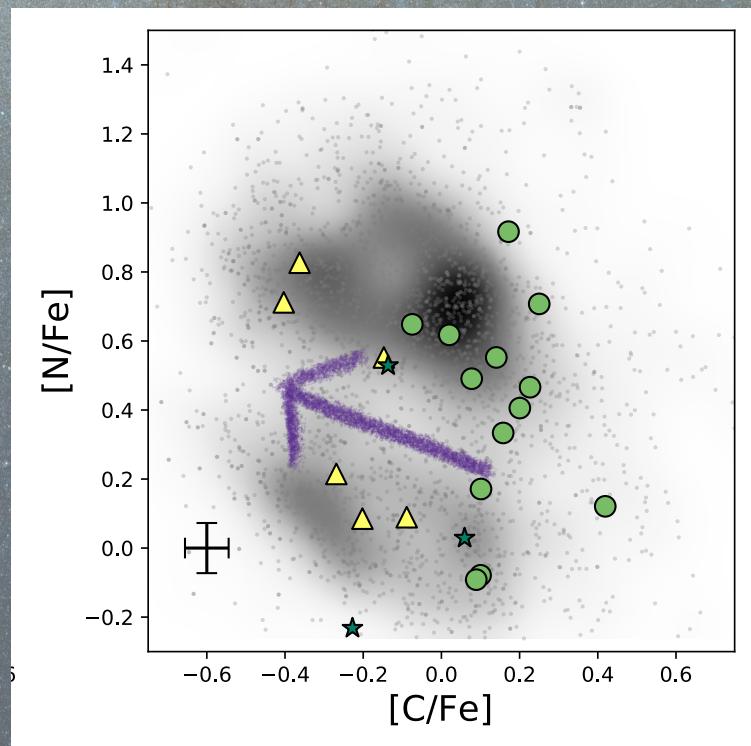


# Known anticorrelations in NGC 6544

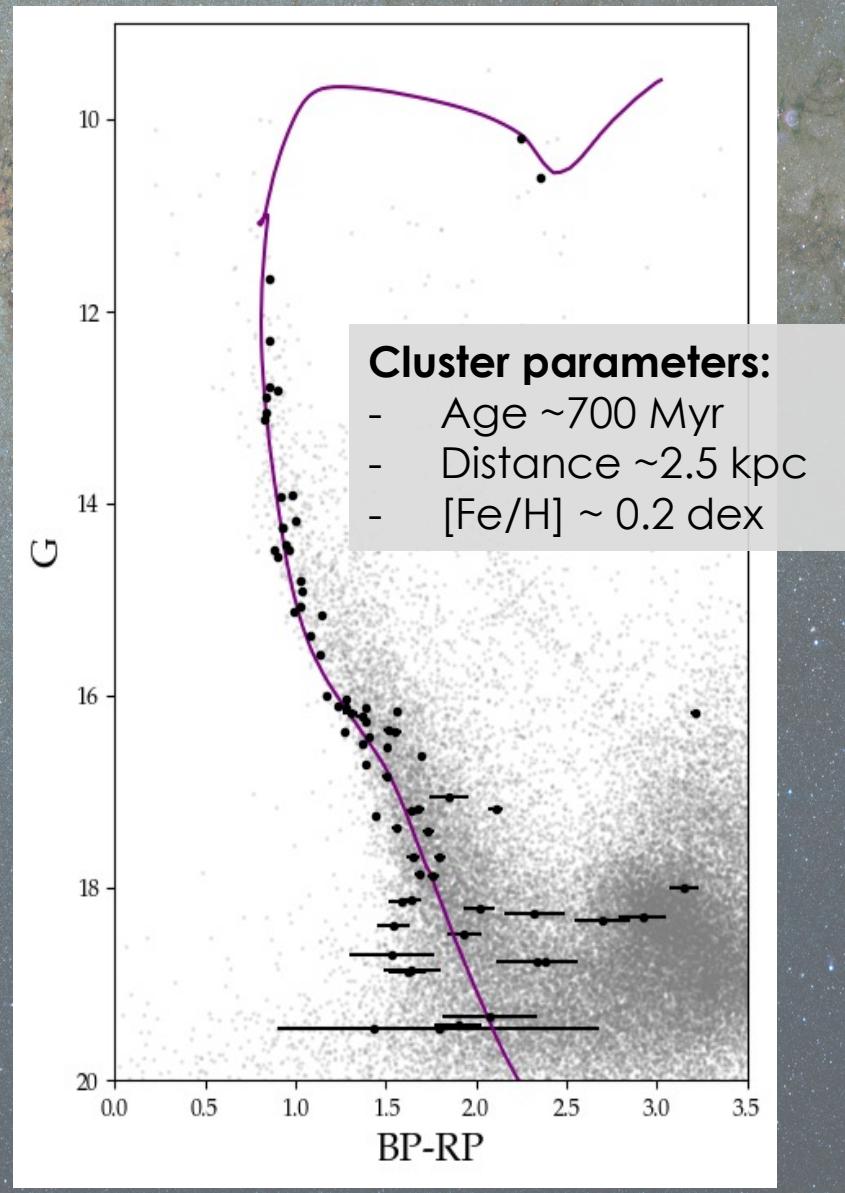
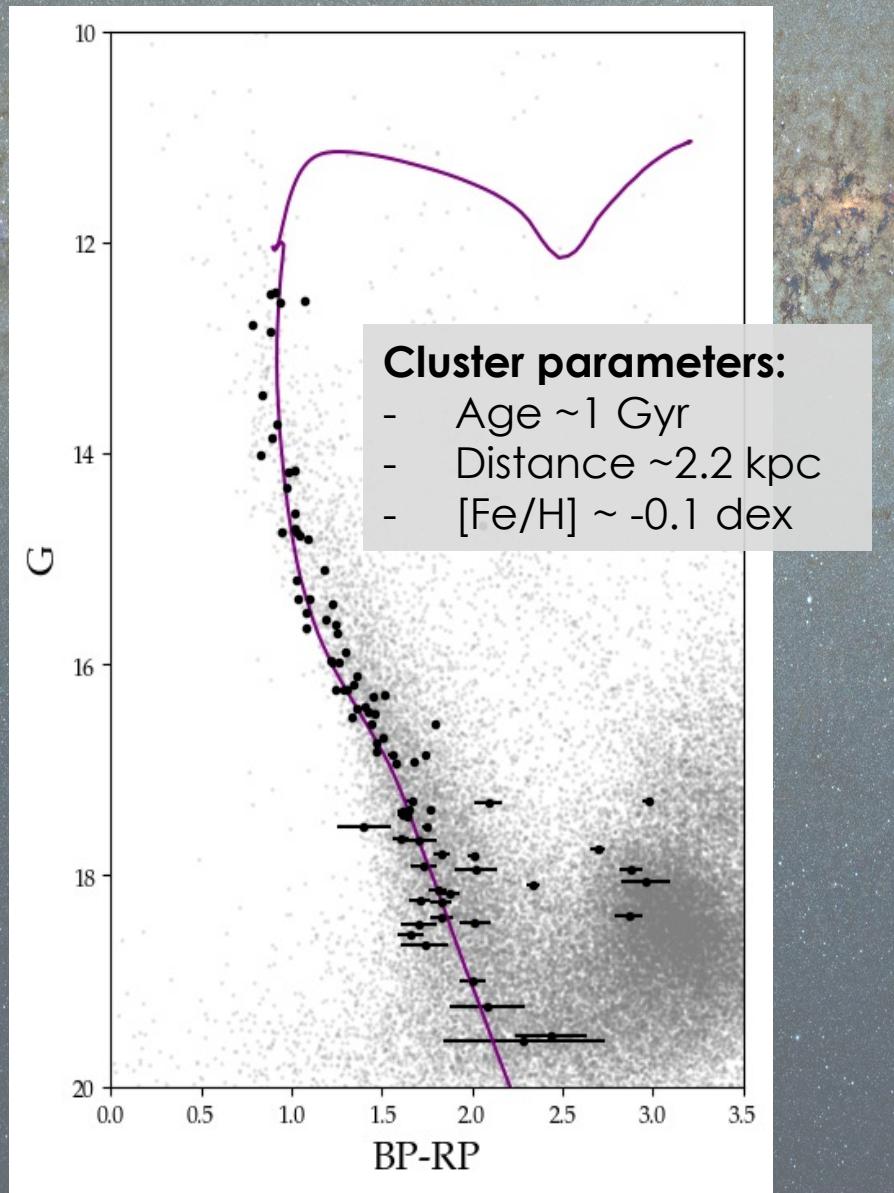


- Lower RGB (below the bump)
- ▲ Upper RGB (above the bump)
- ★ AGB

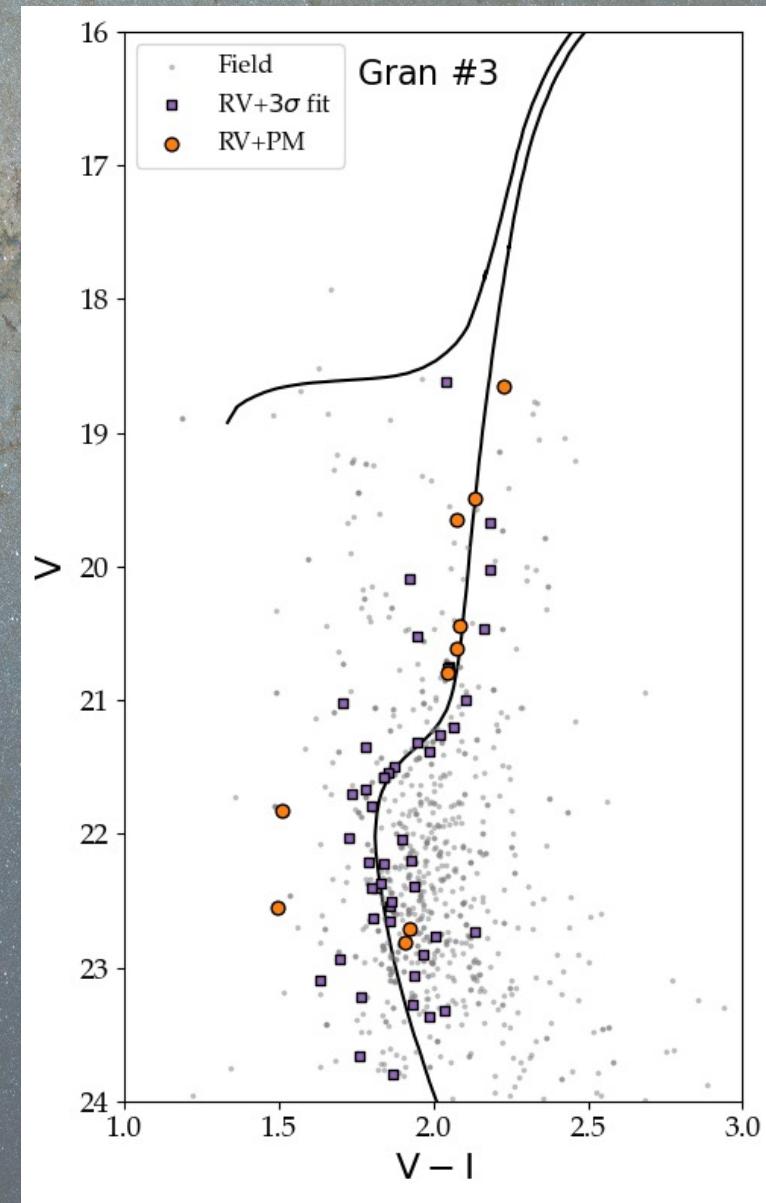
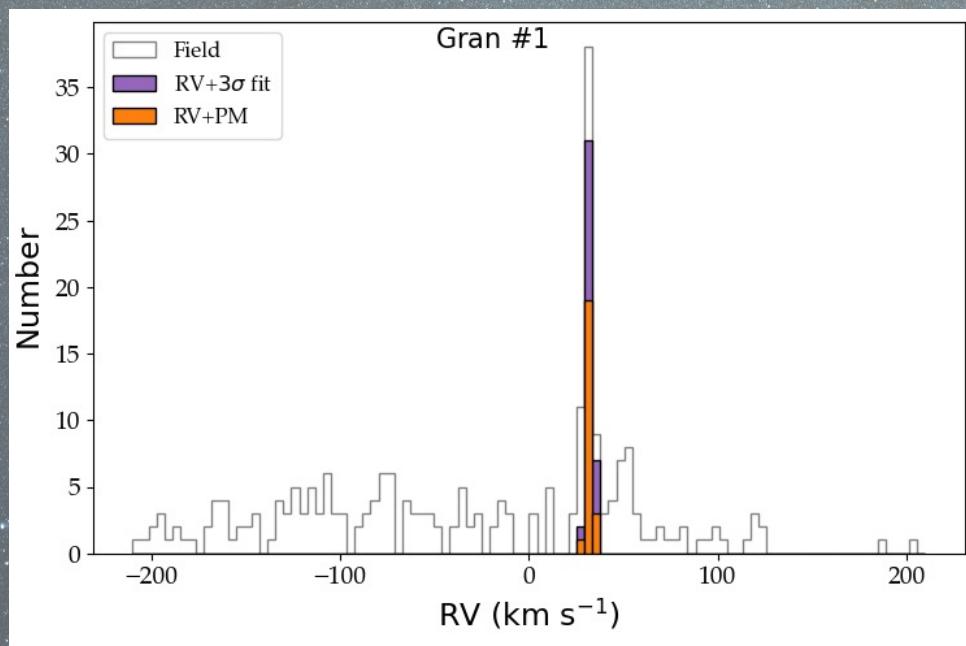
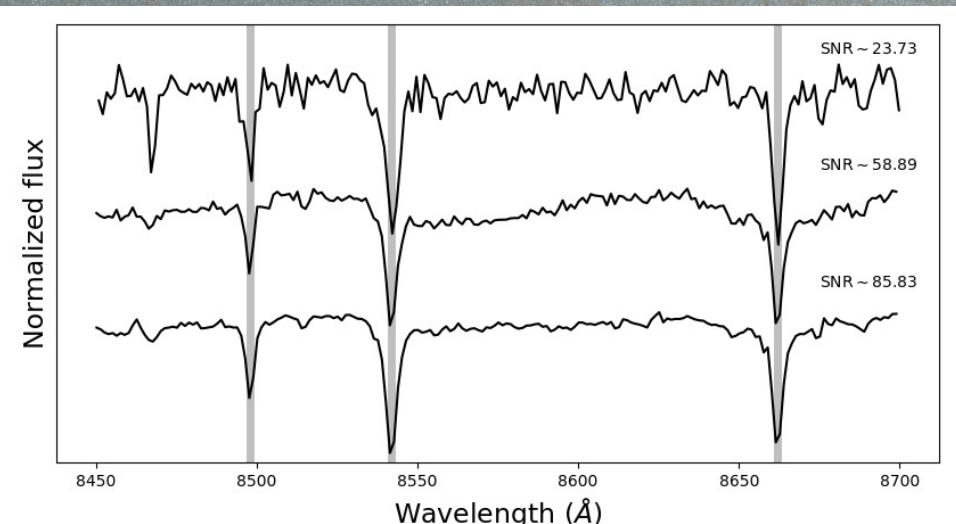
Background: APOGEE clusters



# Open clusters towards the Galactic bulge



# MUSE observations: P103 & P105



# MUSE CMD of Gran #1

