

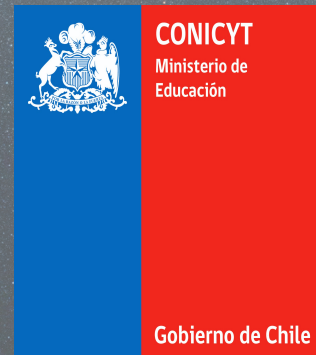
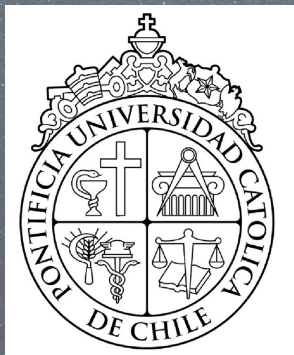
Interview U. of Cambridge, UK

Wyn Evans, Vasily Belokuvov

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

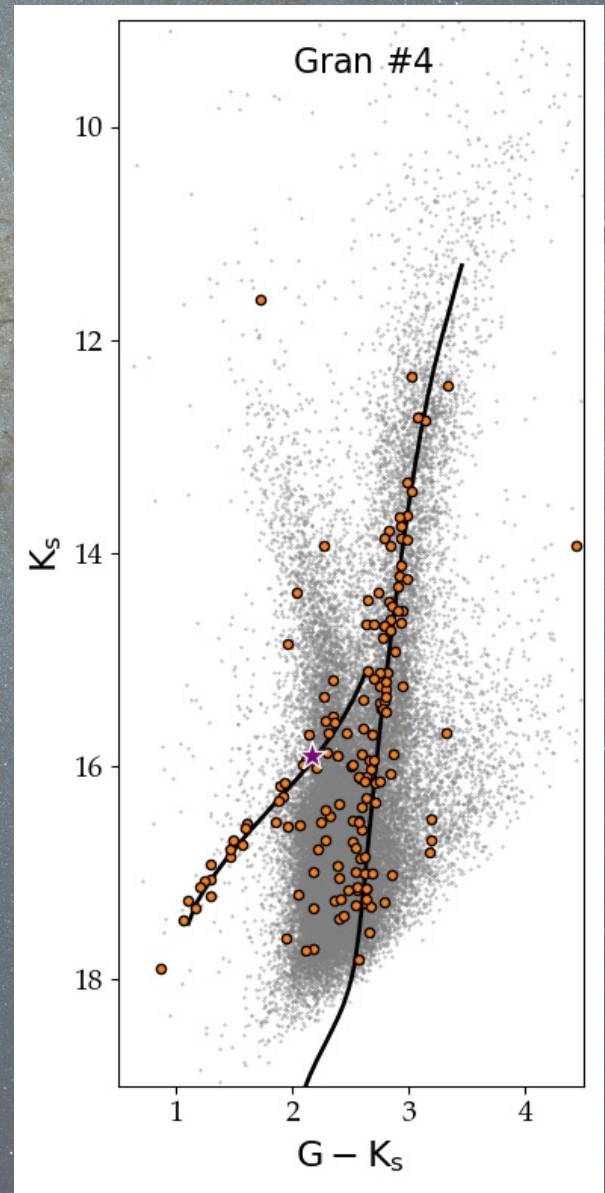
fegran@uc.cl

This presentation is available at
fegran.github.io/Interview_Cambridge.pdf



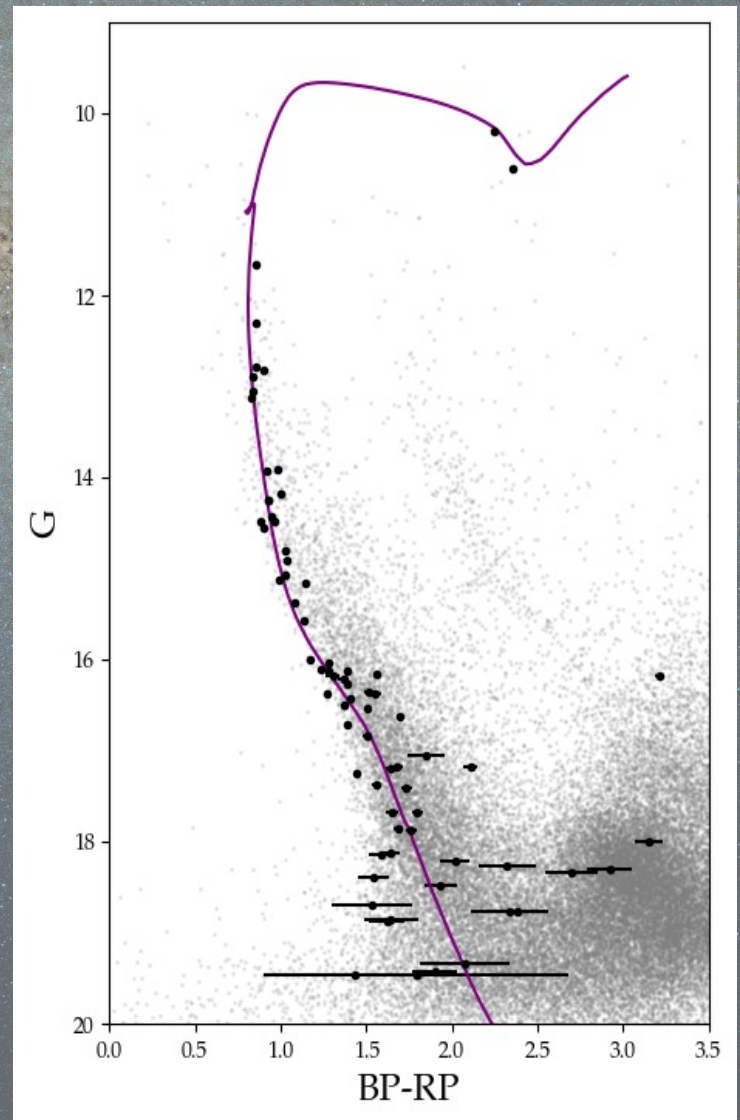
Current and past activities

- Surveys:
 - Gaia, VVV, APOGEE



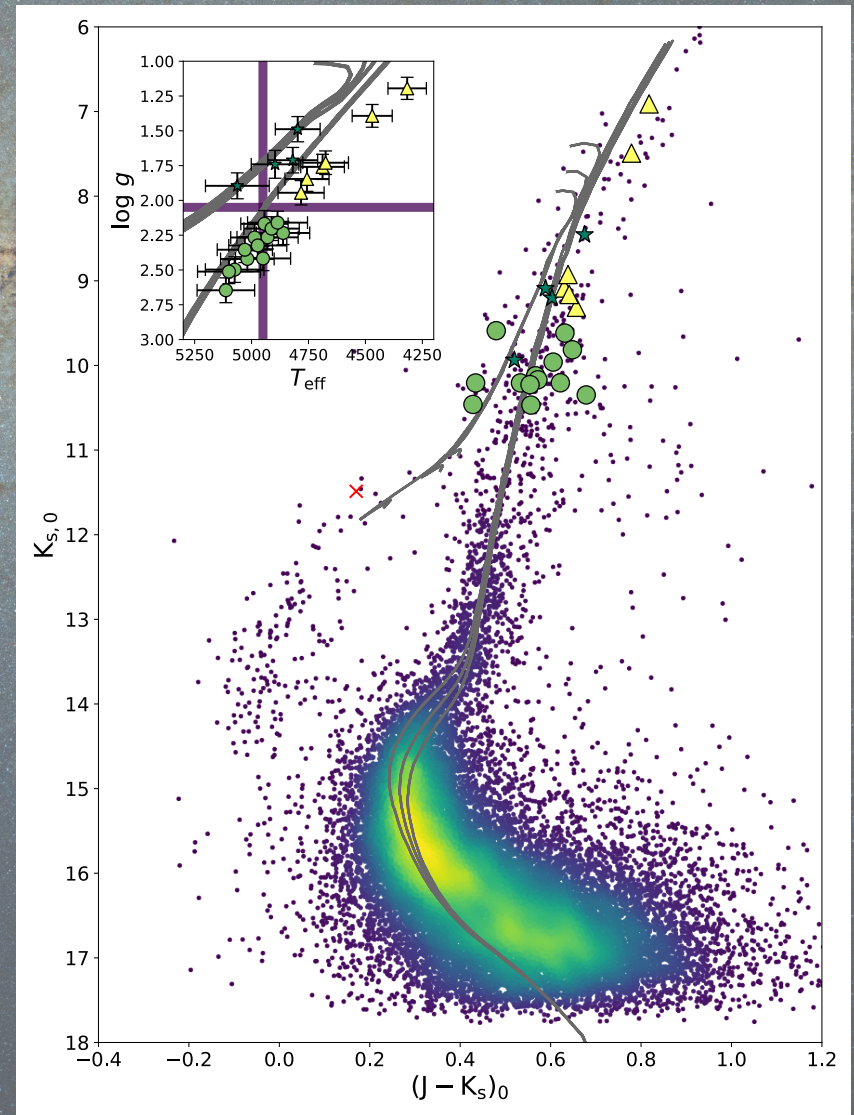
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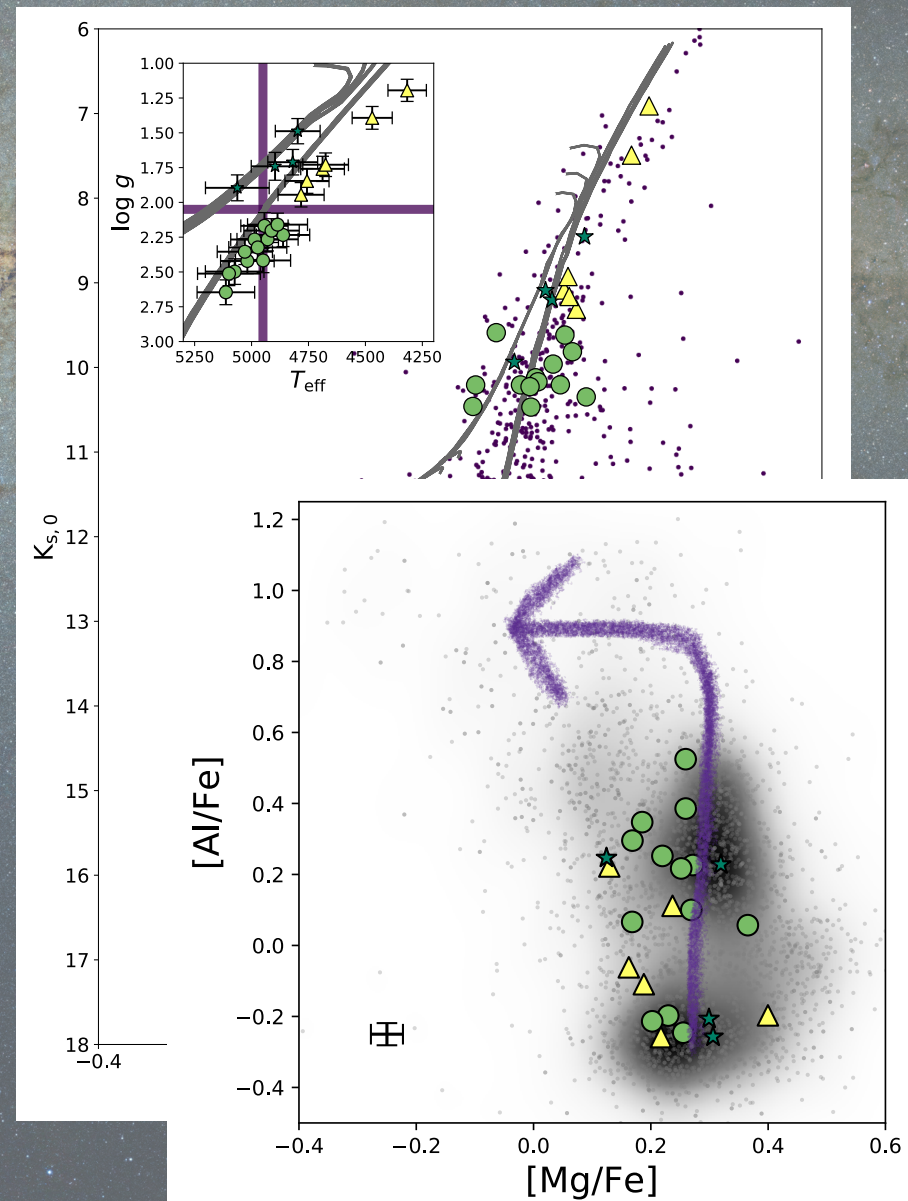
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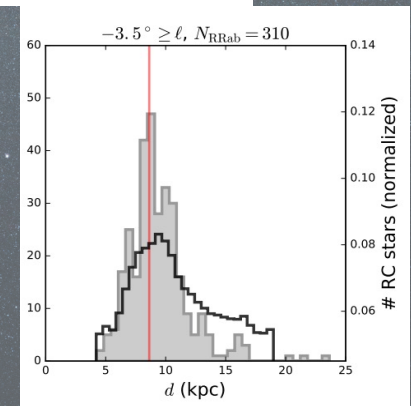
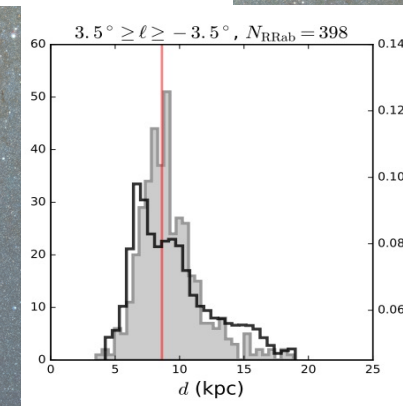
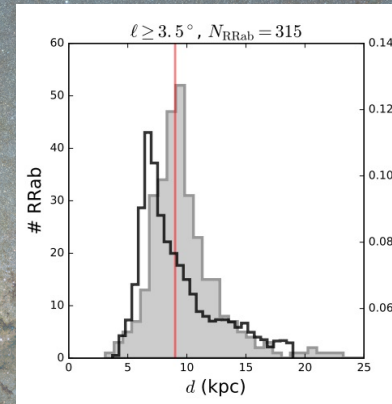
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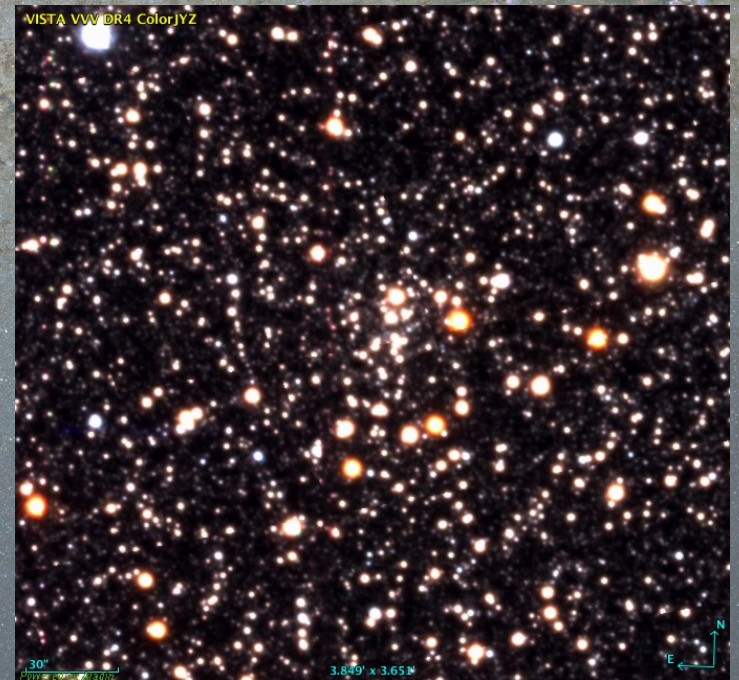
Current and past activities

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



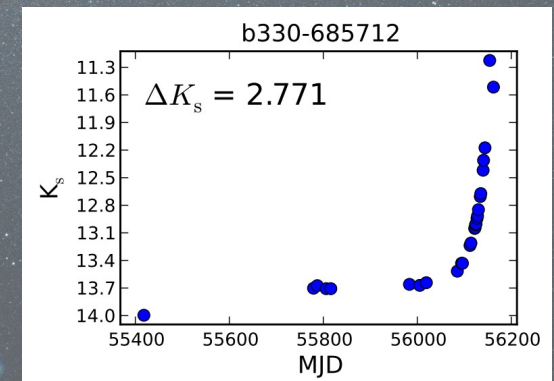
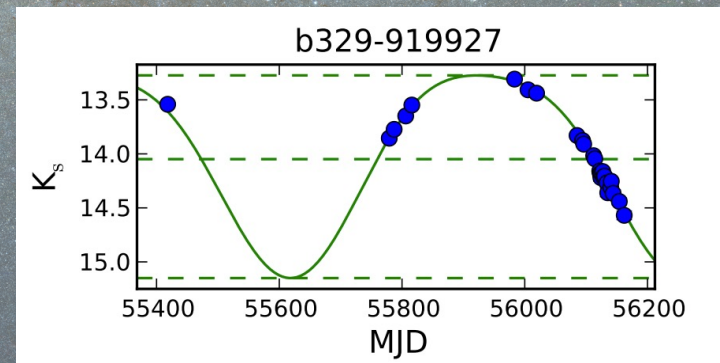
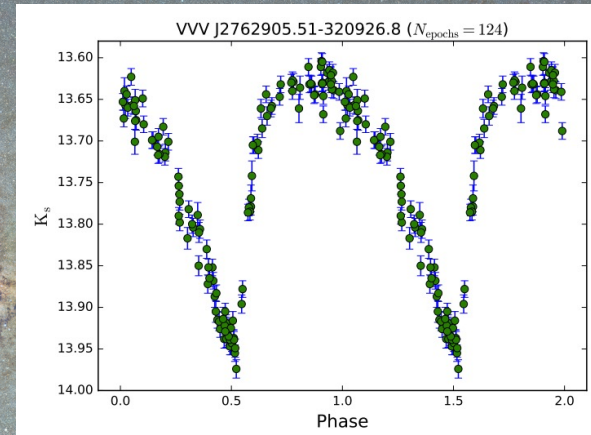
Current and past activities

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



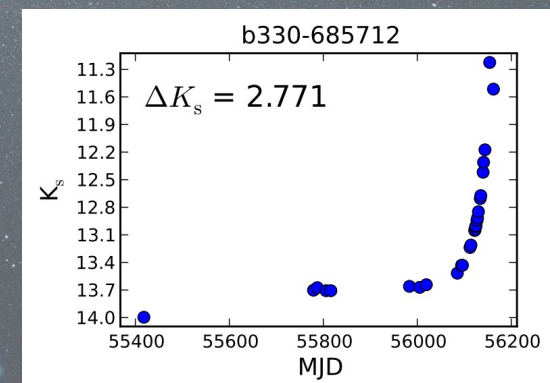
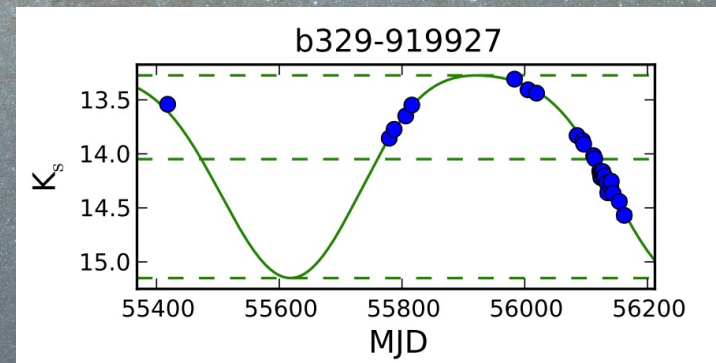
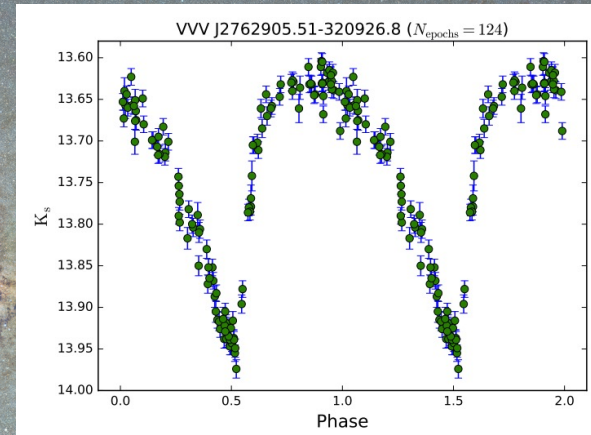
Current and past activities

- Surveys:
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- Galactic bulge:
 - Structure with RR Lyrae stars
 - Globular clusters
- Variable stars:
 - Automatic classification



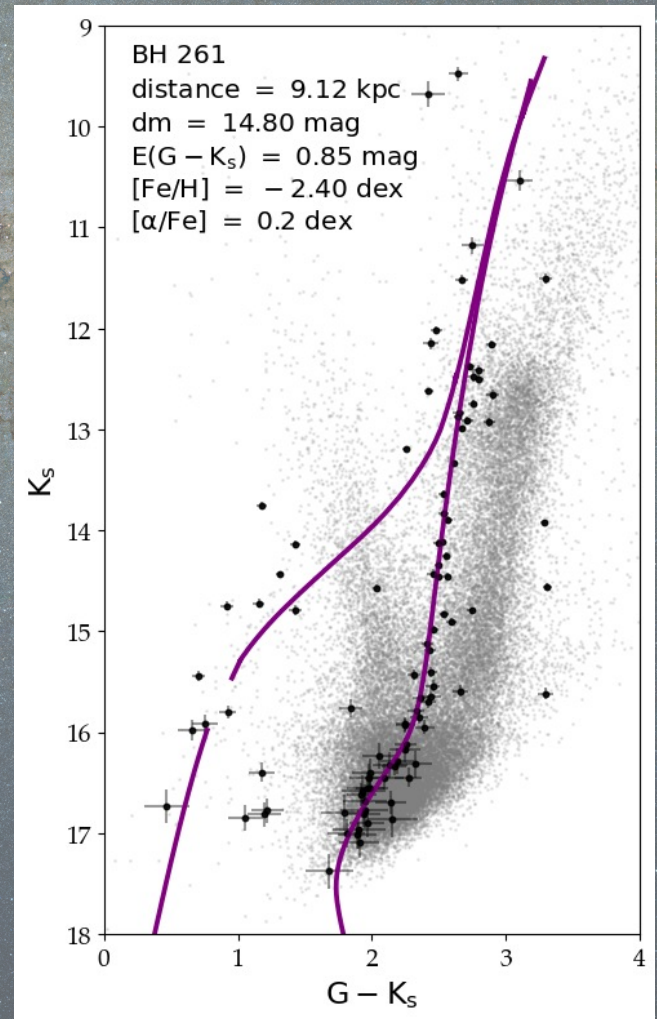
Current and past activities

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



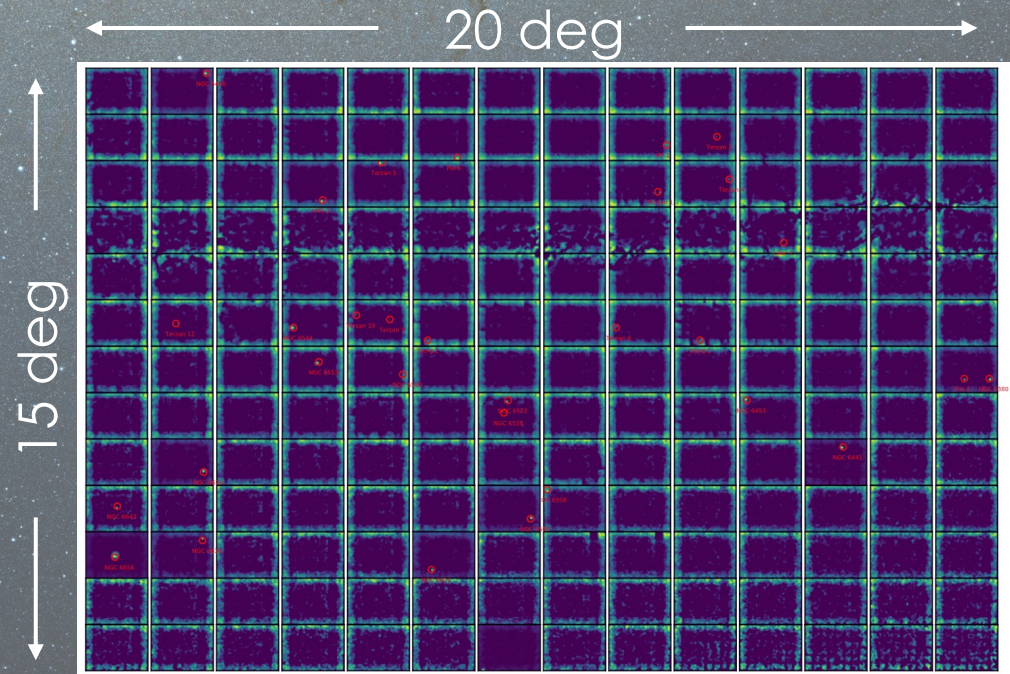
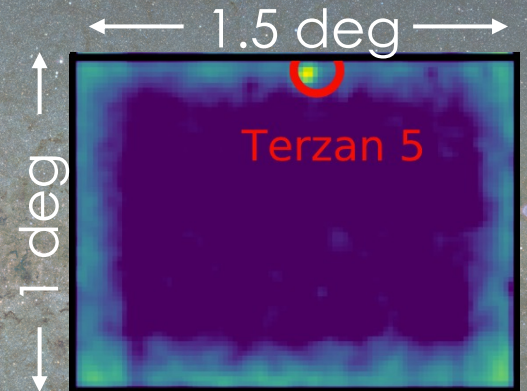
Open and proposed projects

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



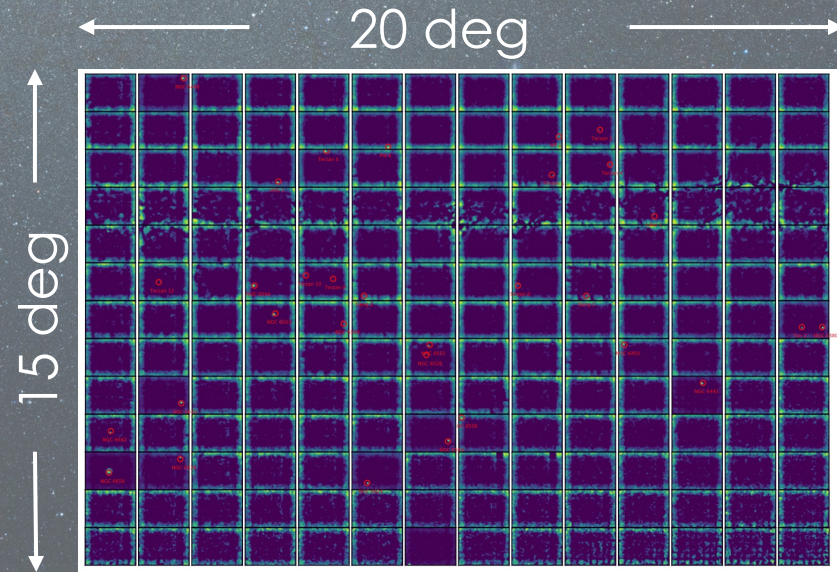
Open and proposed projects

- 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





Thank you!

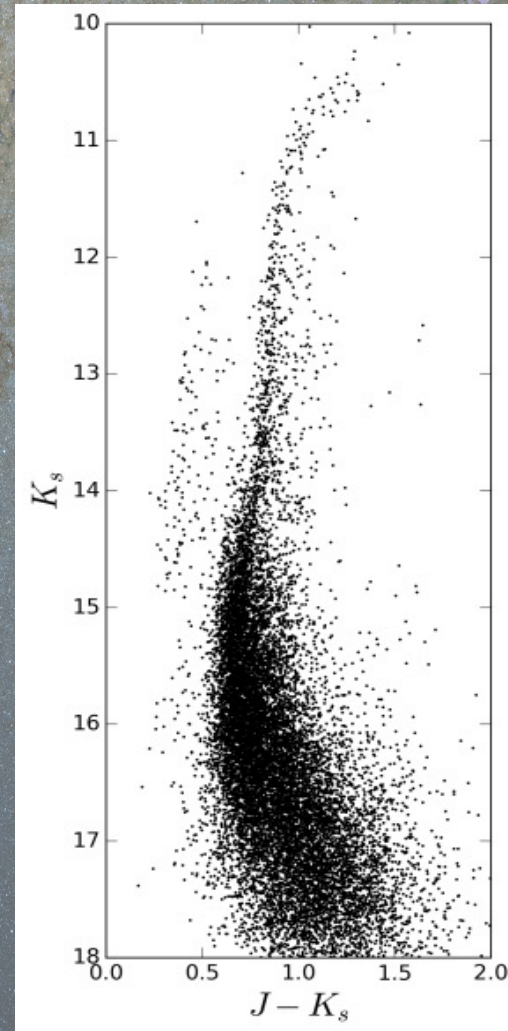
VVV proper motion catalogue



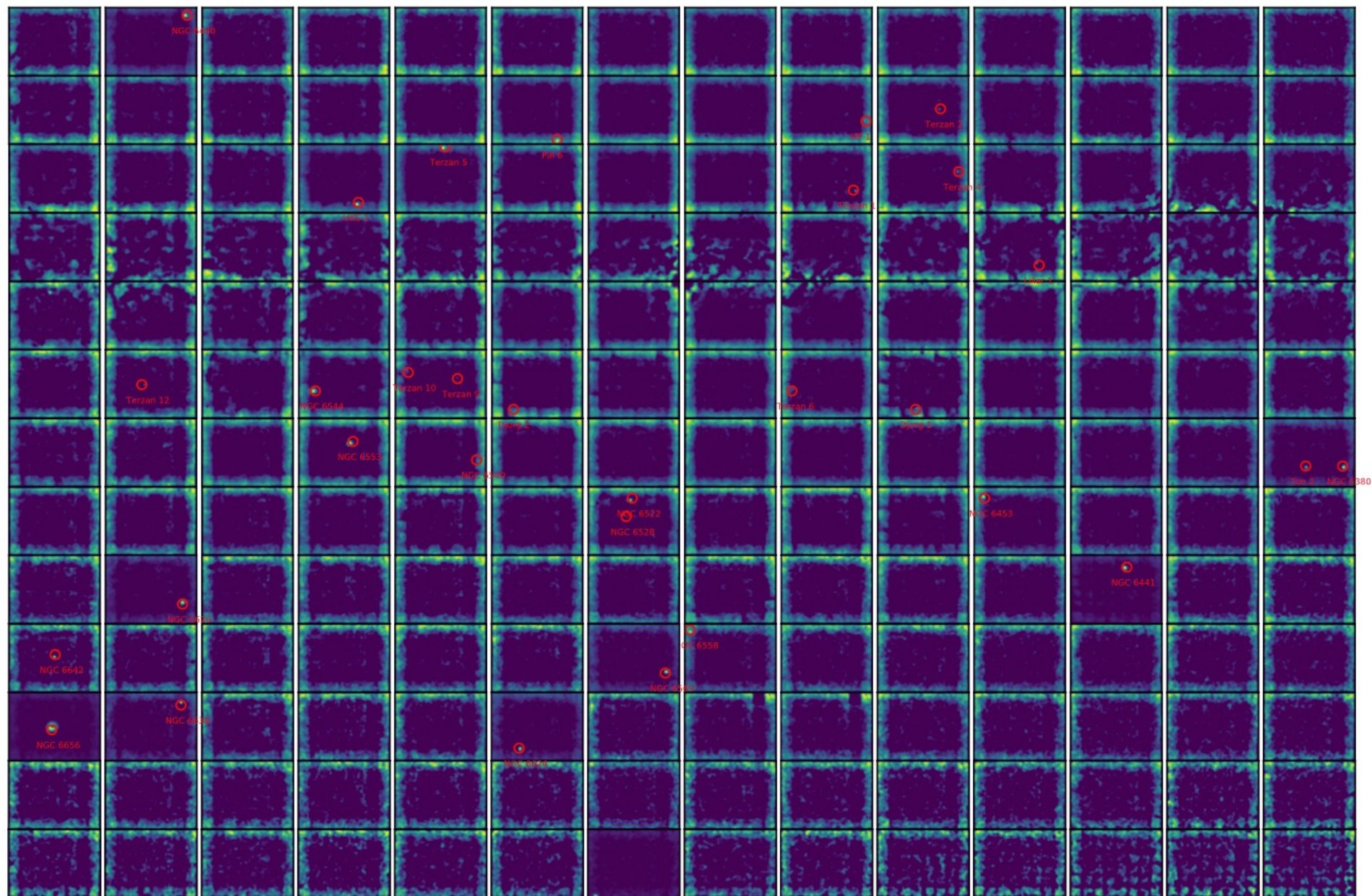
Near-IR survey
(ZYJHK_s)

~100+ K_s epochs

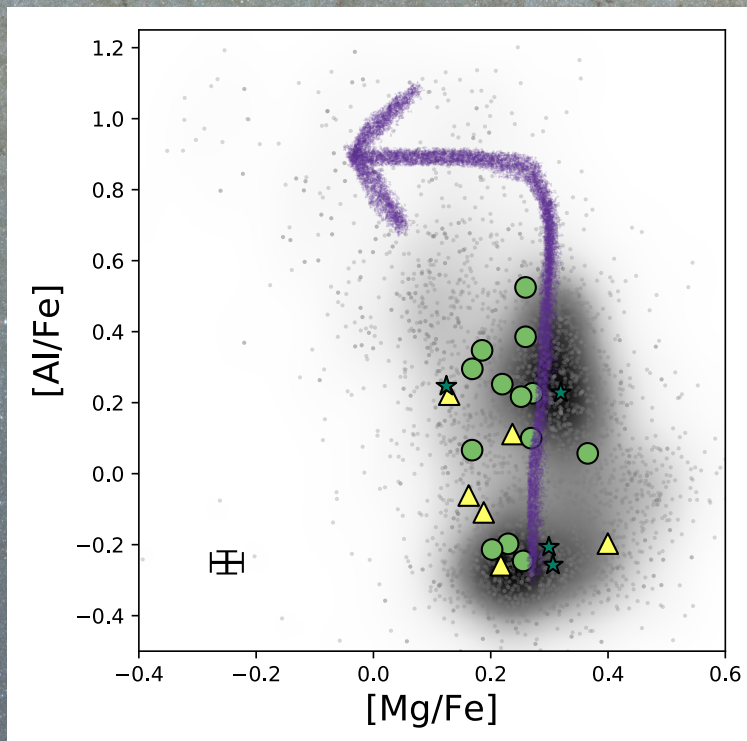
Relative proper
motions:
 $\mu_l \cos(b)$, μ_b



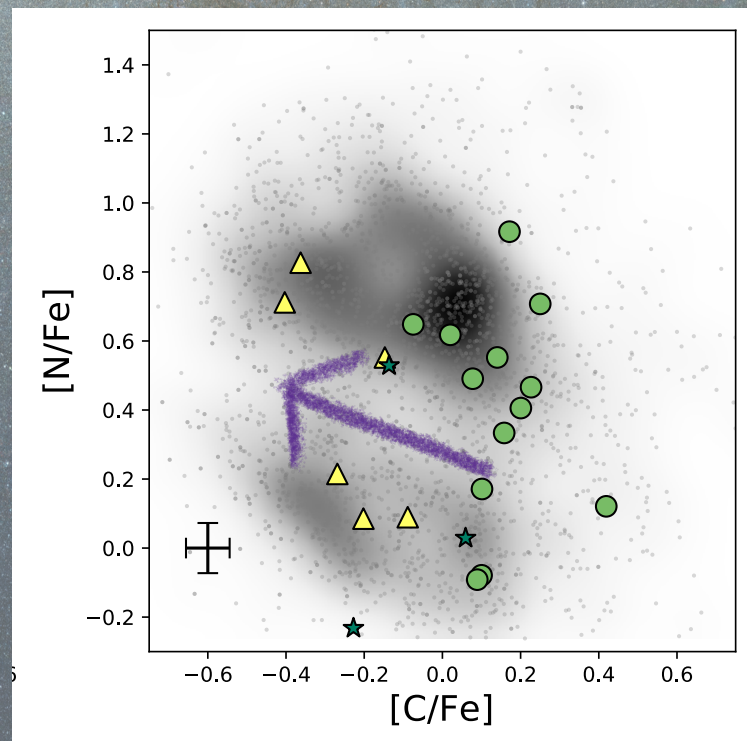
VVV proper motion catalog



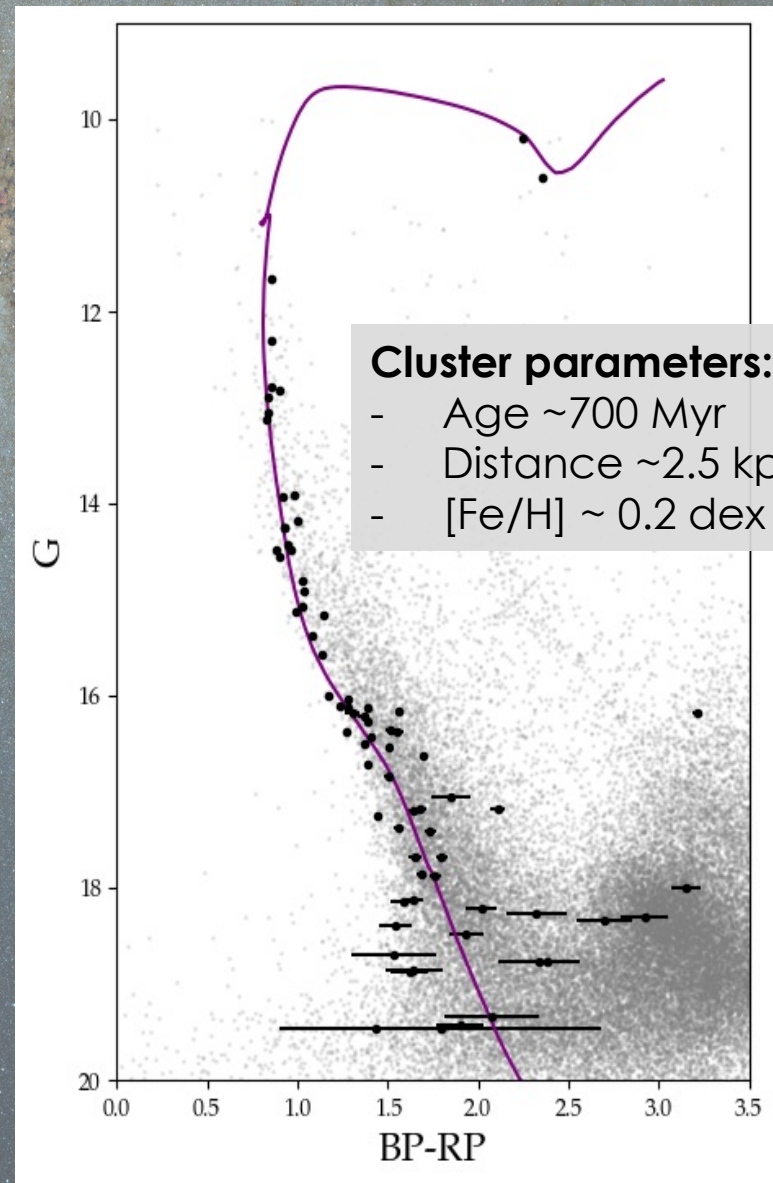
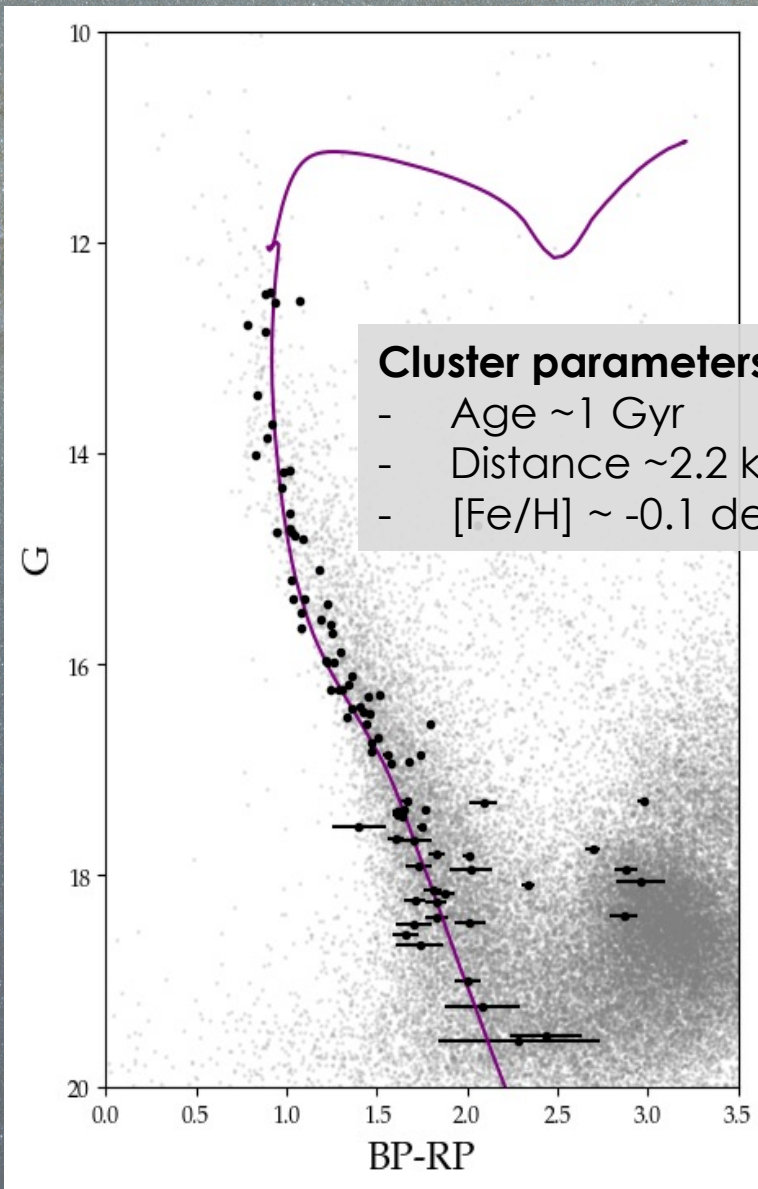
Known anticorrelations in NGC 6544



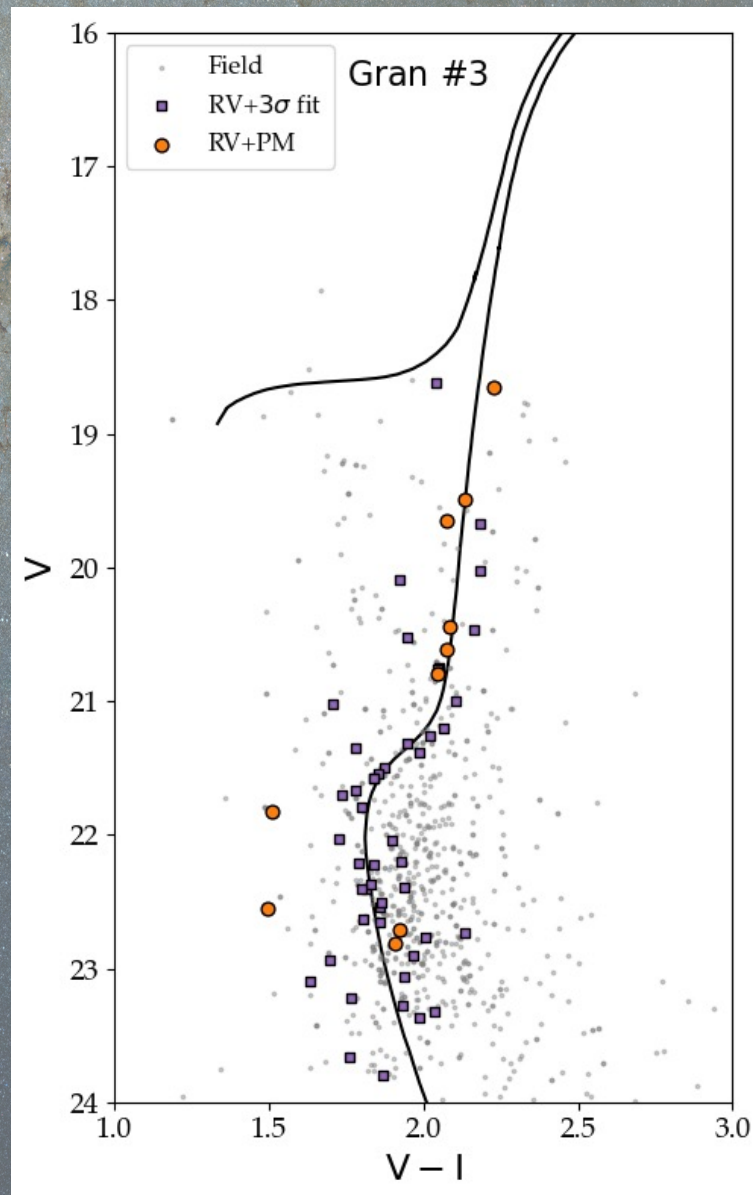
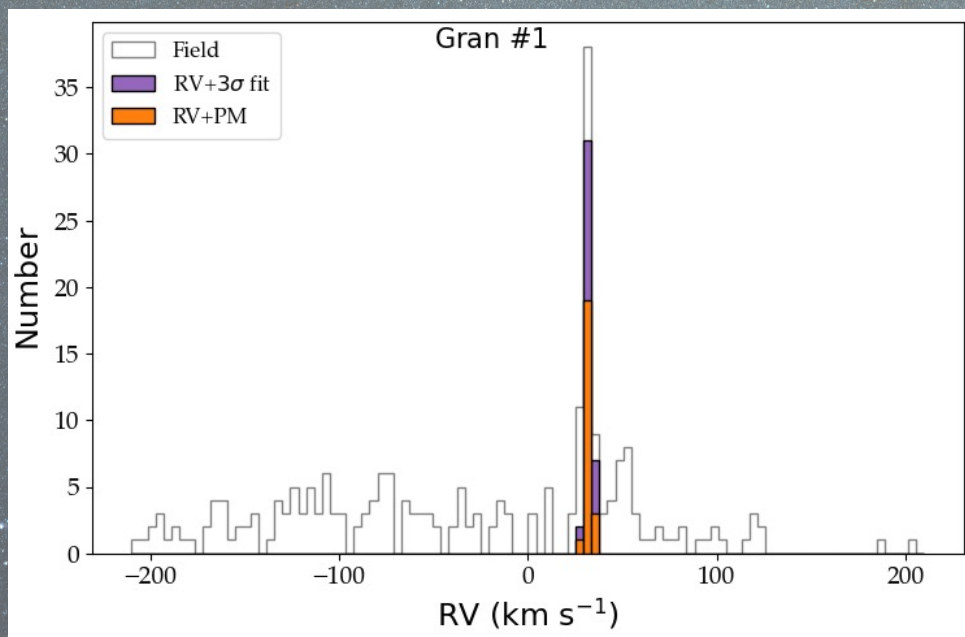
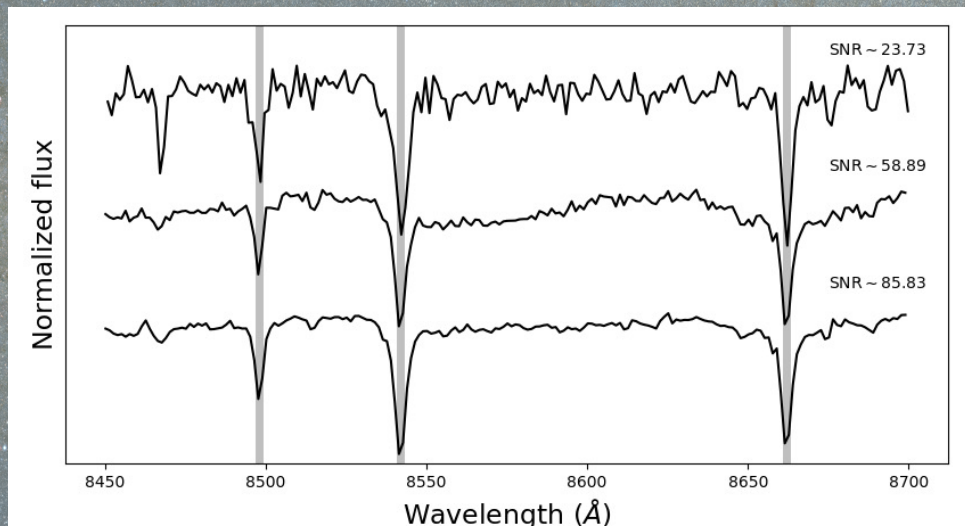
- Lower RGB (below the bump)
 - ▲ Upper RGB (above the bump)
 - ★ AGB
- Background: APOGEE clusters



Open clusters towards the Galactic bulge



MUSE observations: P103 & P105



MUSE CMD of Gran #1

