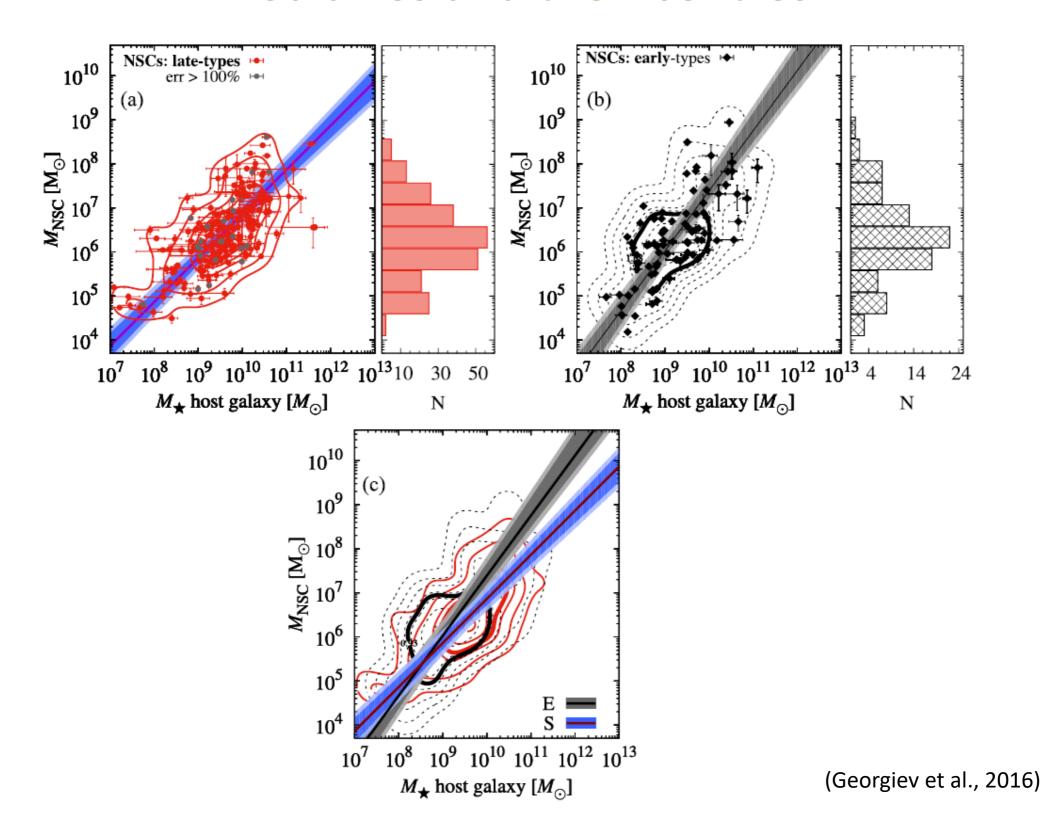
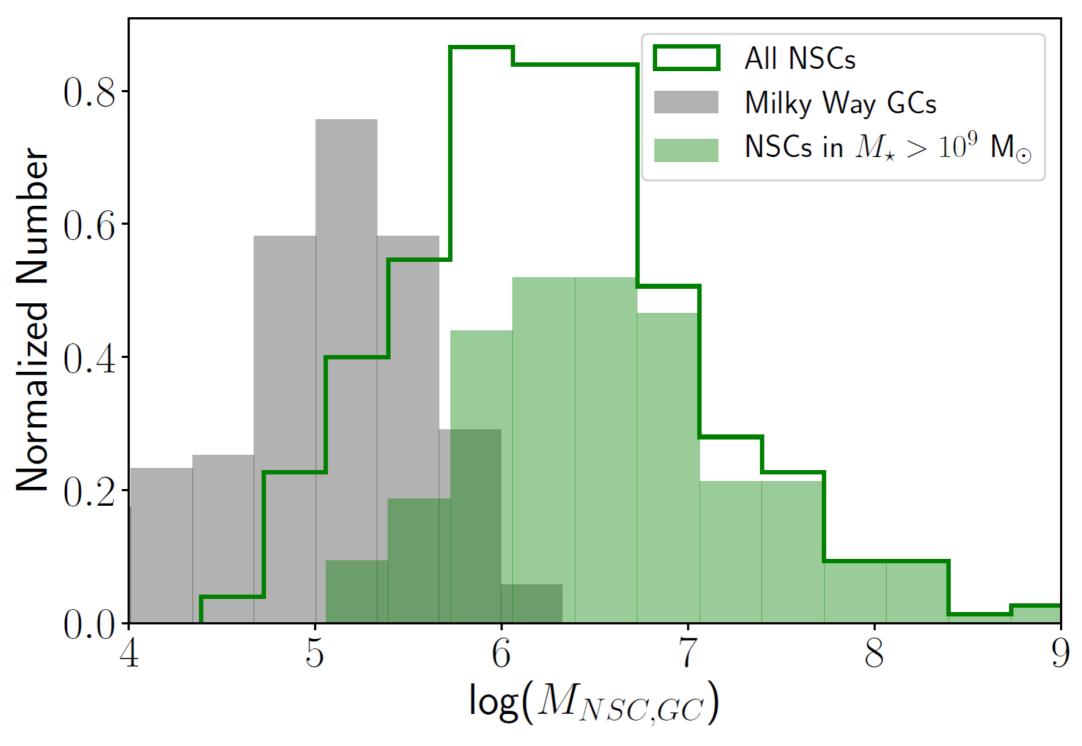


Galaxies and their centres



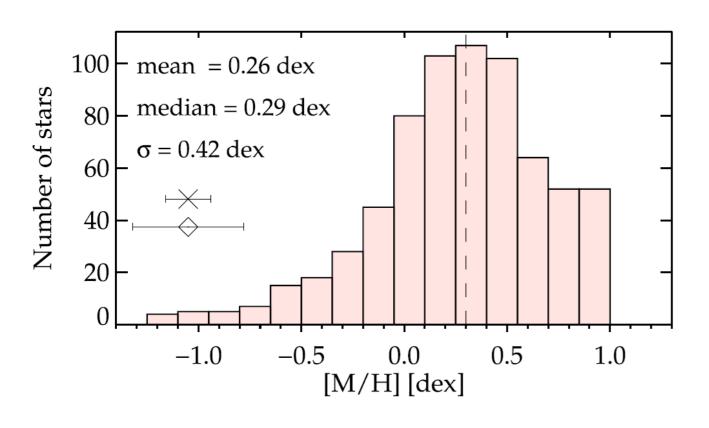
Galaxies and their centres



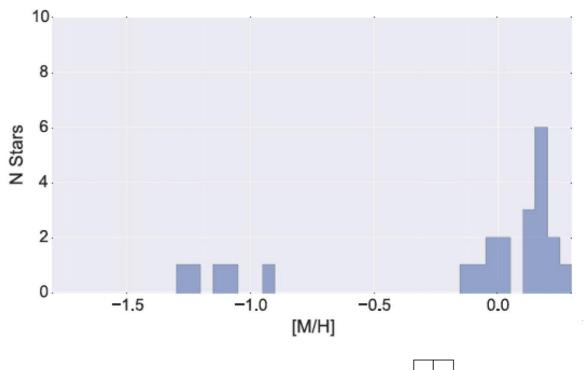
(review by Neumayer et al, 2020)

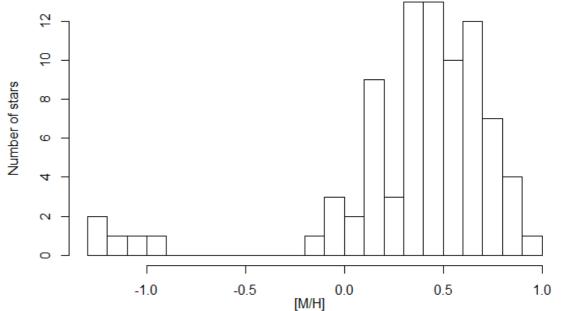
Nuclear stellar cluster metallicity

Feldmeier-Krause et al. 2017

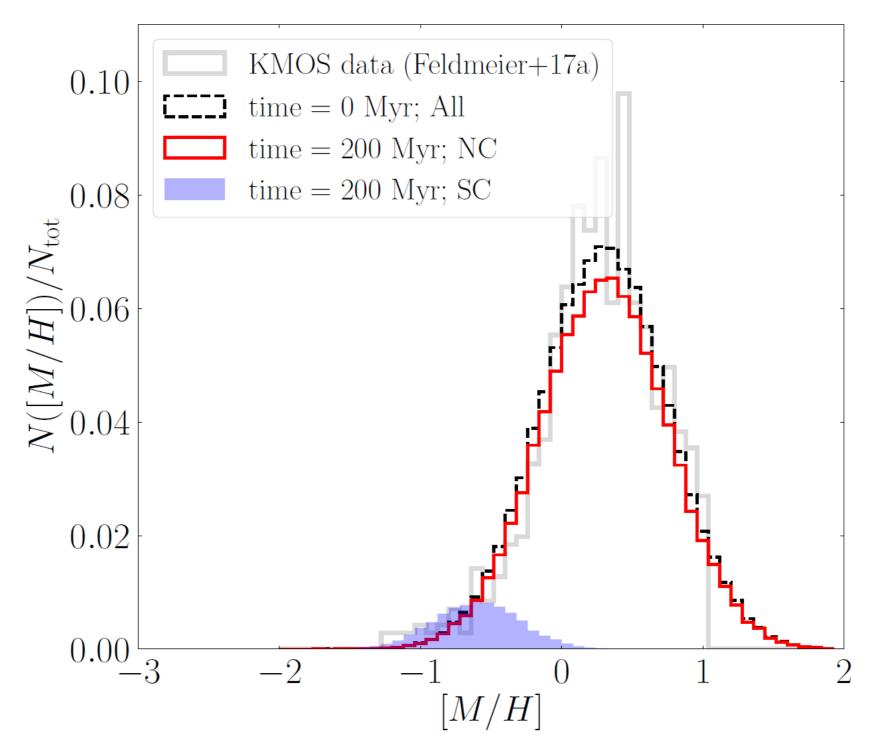


Do et al. 2015



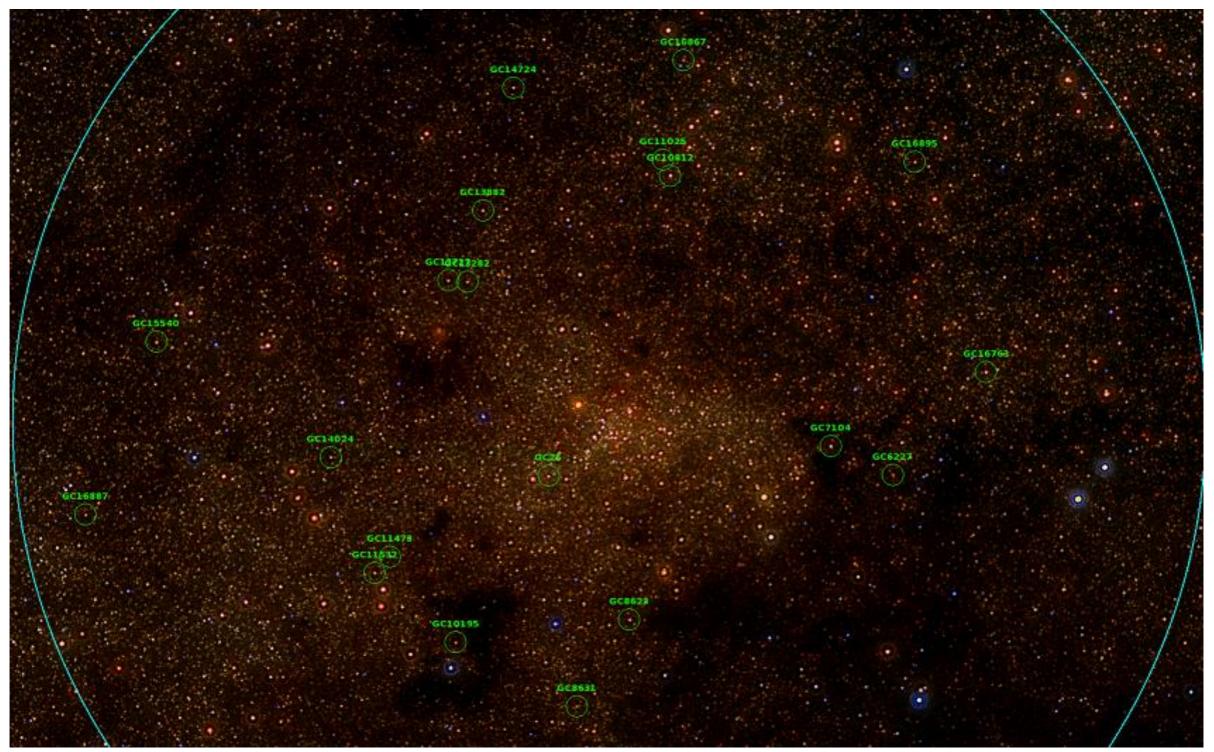


Simulating cluster infall



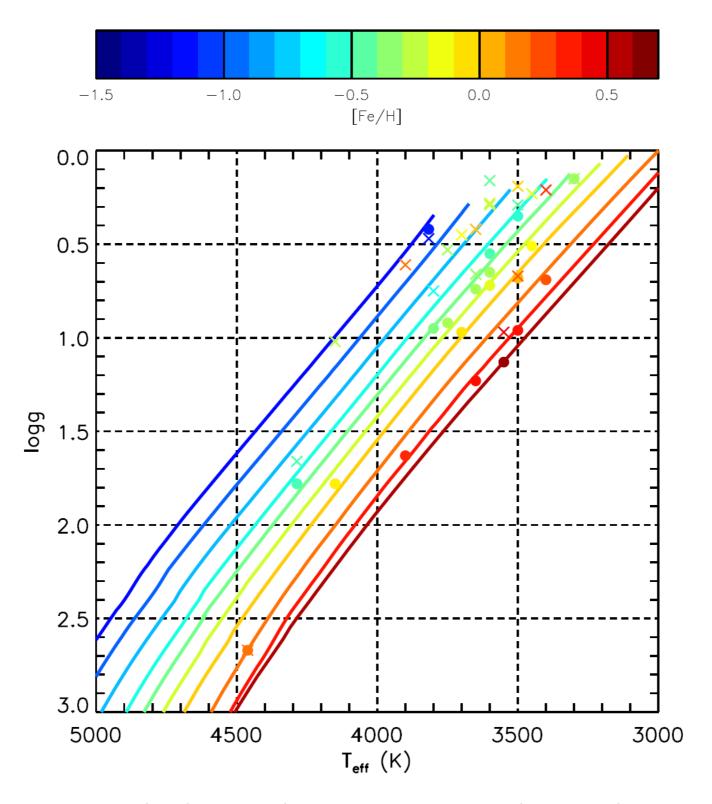
Arca Sedda et al. 2020

Targeted stars, with KECK/NISPEC



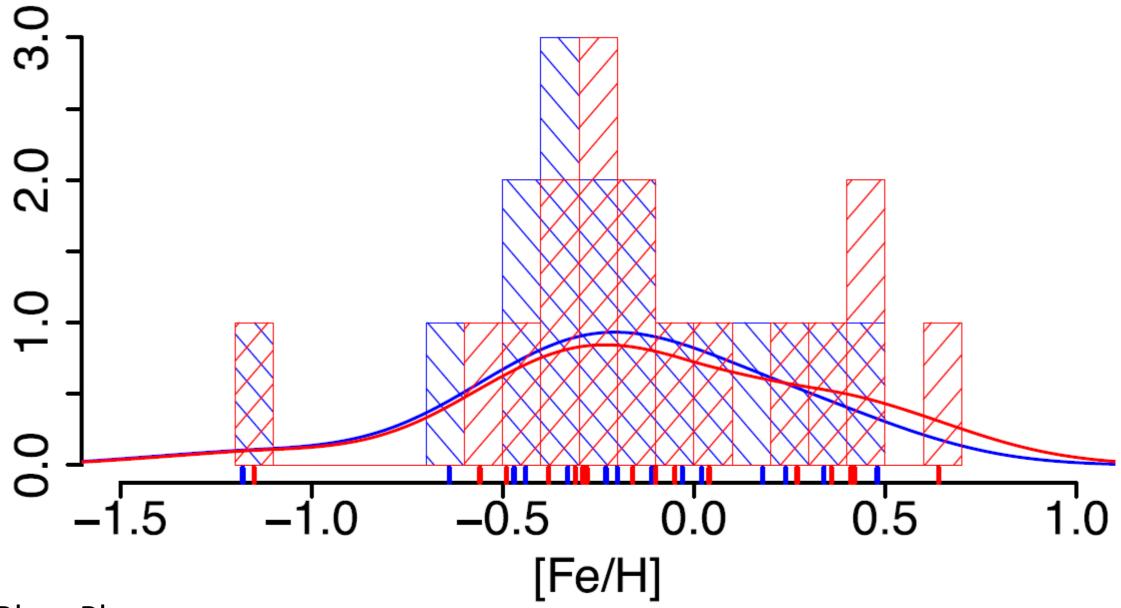
JHKs RGB image from the GALACTICNUCLEUS survey (Nogueras-Lara et al. 2018, 2019)

Isochrone method for logg



(Rich et al. 2017)

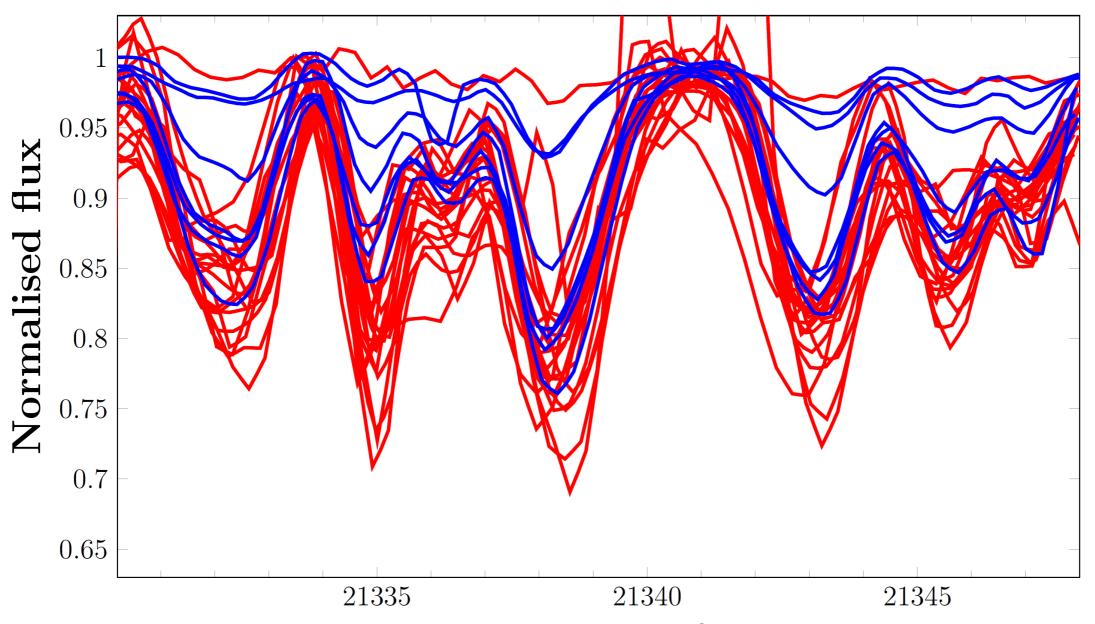
Galactic centre MDF



Blue: Photometry

Red: Isochrone method (Rich et al. 2017)

CN features challenging

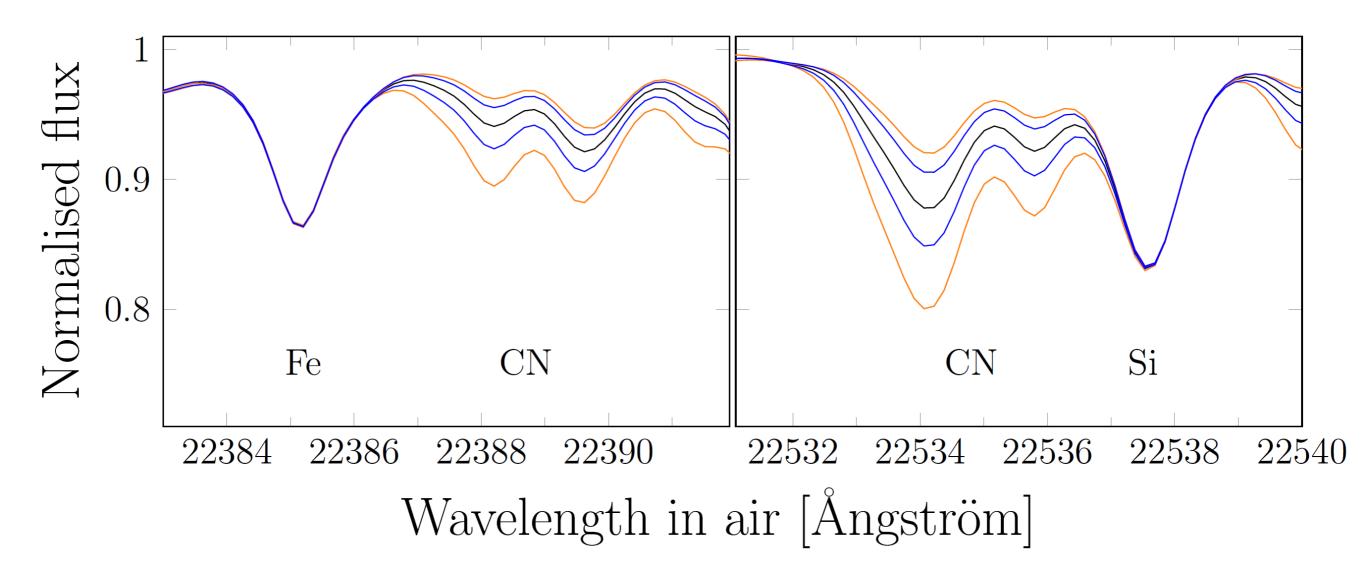


Wavelength in air [Ångström]

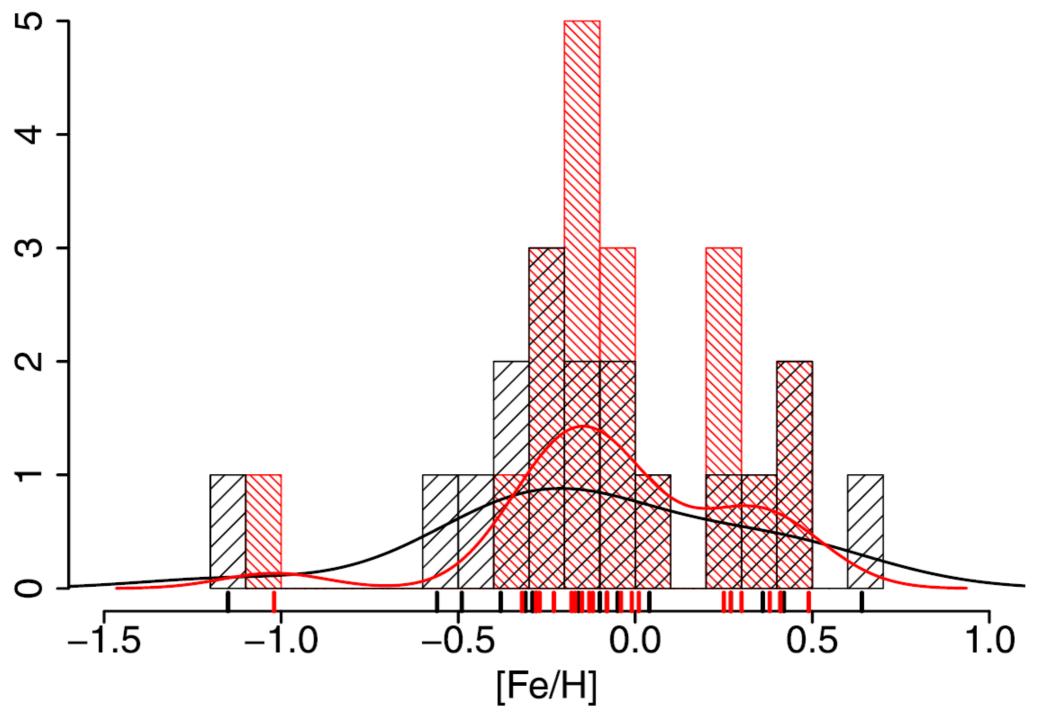
Red: NSC stars

Blue: Local disk stars

Line List rework

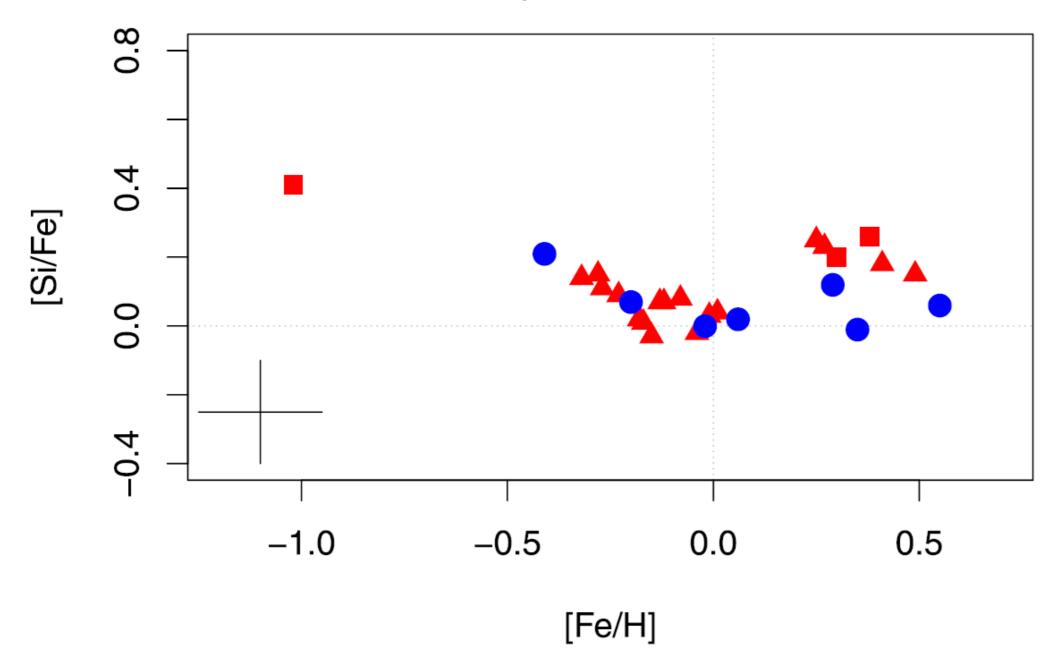


MDF revisited



Black from Rich et al. (2017), Red from Thorsbro et al. (2020)

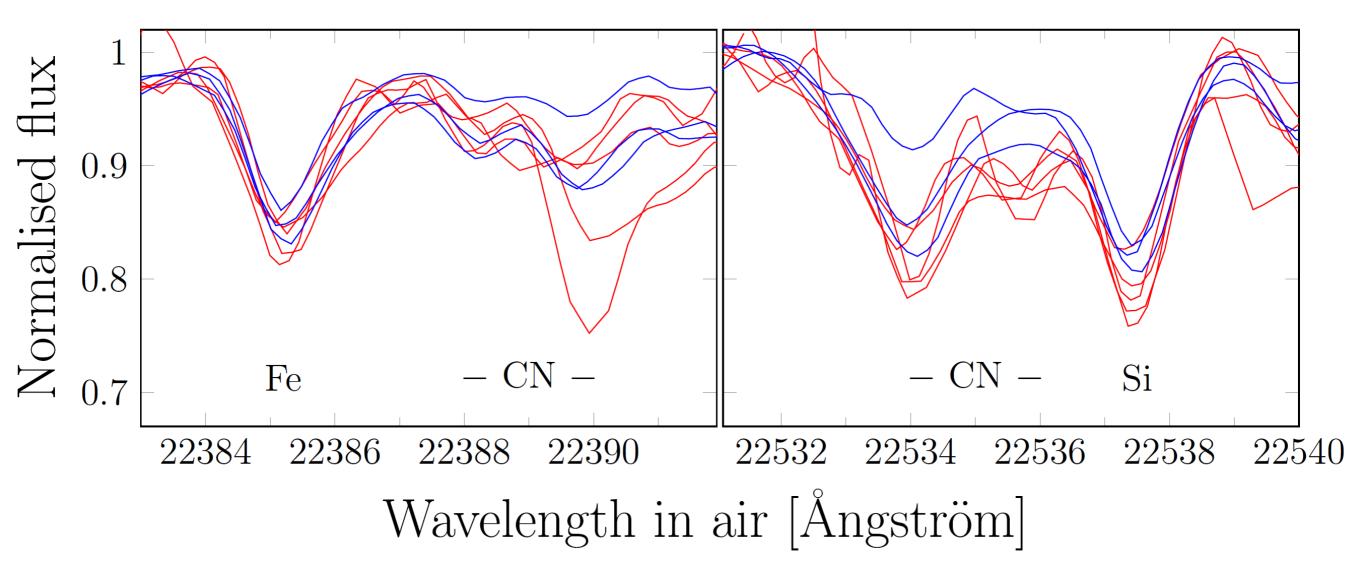
NSC Alpha abundances



Red: NSC stars (squares NSD)

Blue: Local disk stars

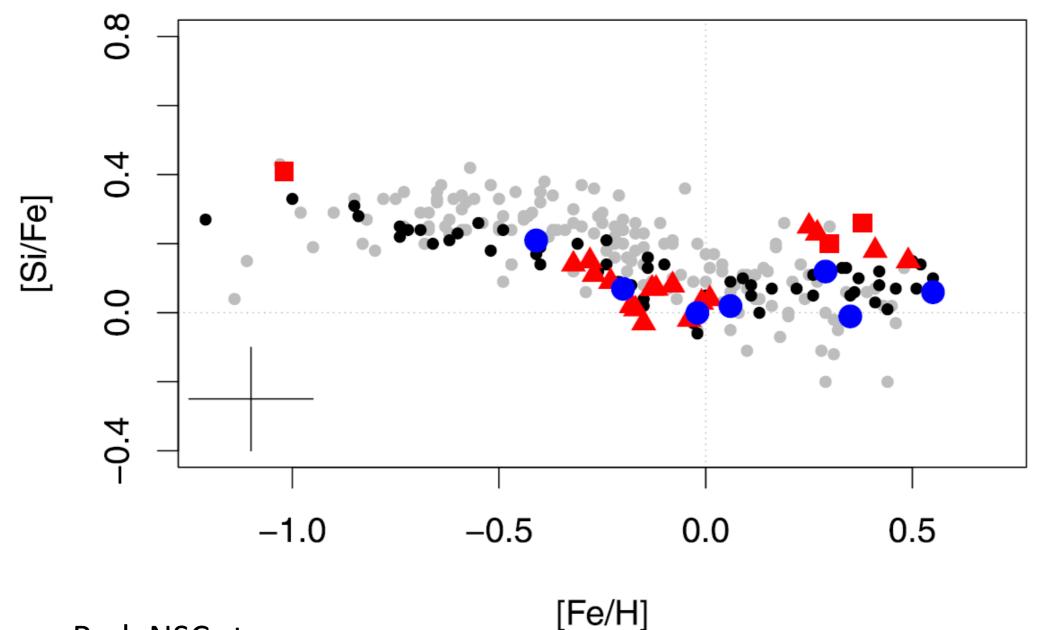
Observed lines



Red: NSC/NSD stars

Blue: Local disk stars

NSC Alpha abundances



Red: NSC stars

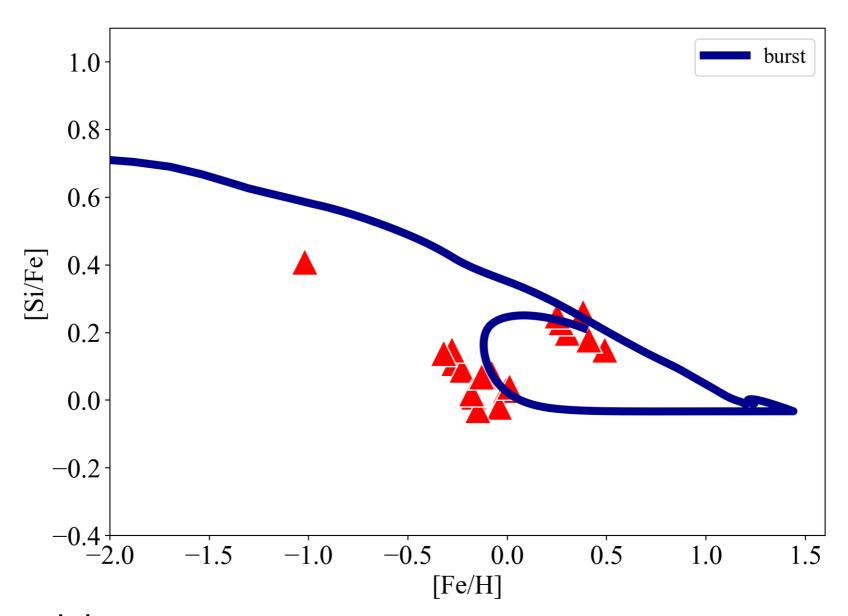
Blue: Local disk stars

Grey: Johnson bulge giants

Black: Bensby microlensed bulge dwarves

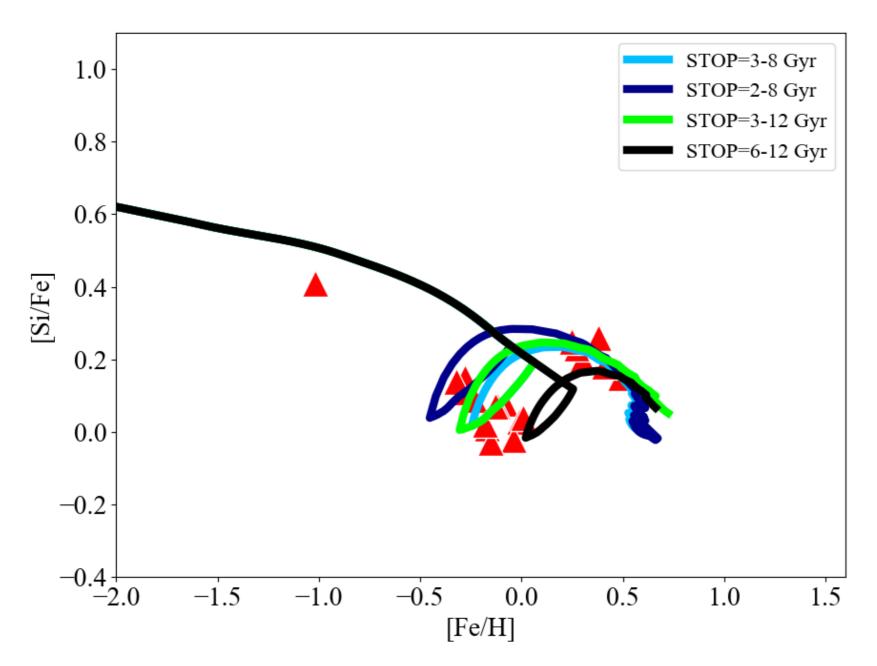
(Thorsbro et al., 2020) (Johnson et al., 2014) (Bensby et al., 2013)

Silicon GC chemical evolution



Model parameters: 2nd infall approx. 2 Gyr ago as per Pfhul et al. 2011 Primordial gas

Silicon GC chemical evolution



Stop in star formation

Thank you!