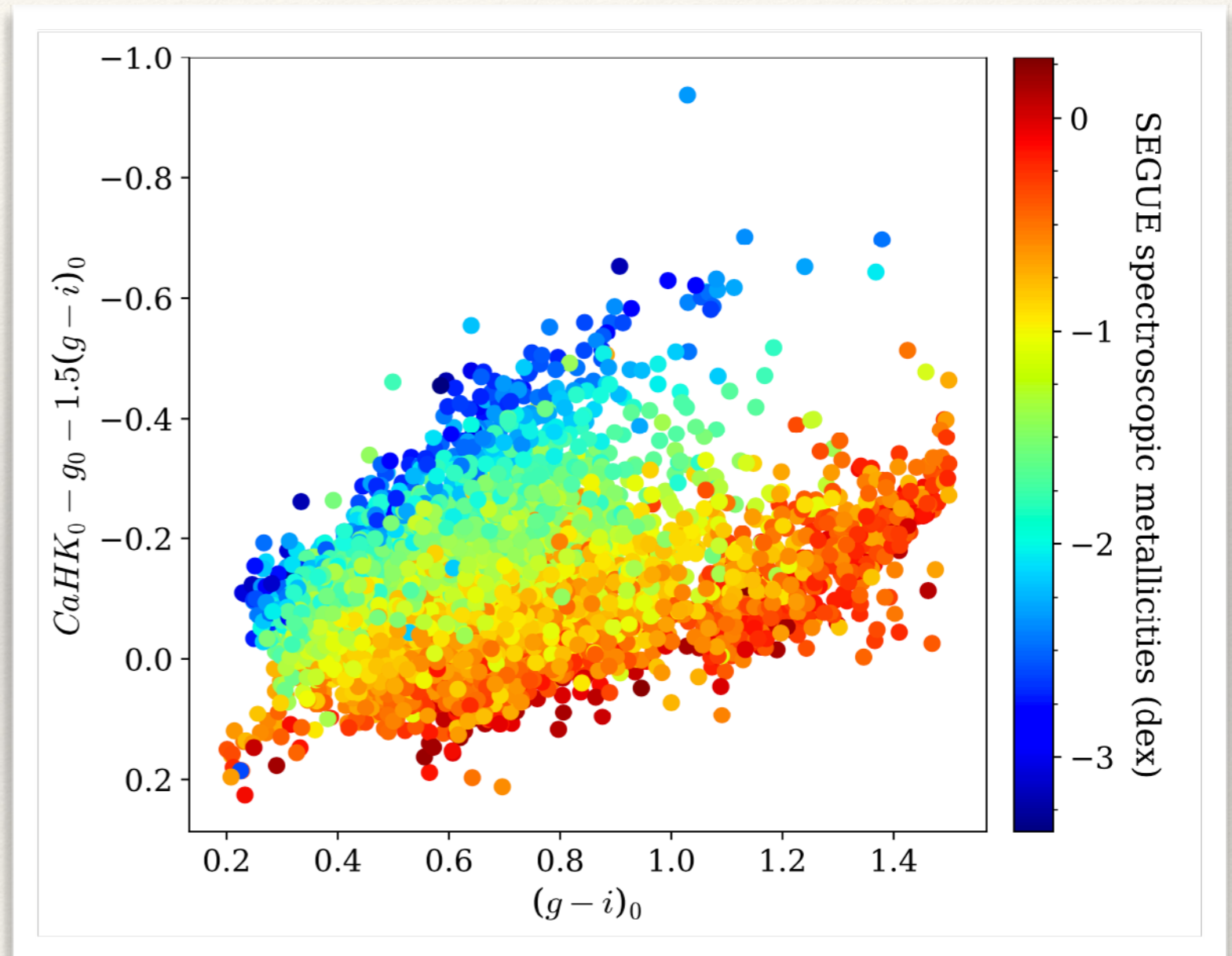


Characterising the nature of the faintest Milky Way satellites with the Pristine survey

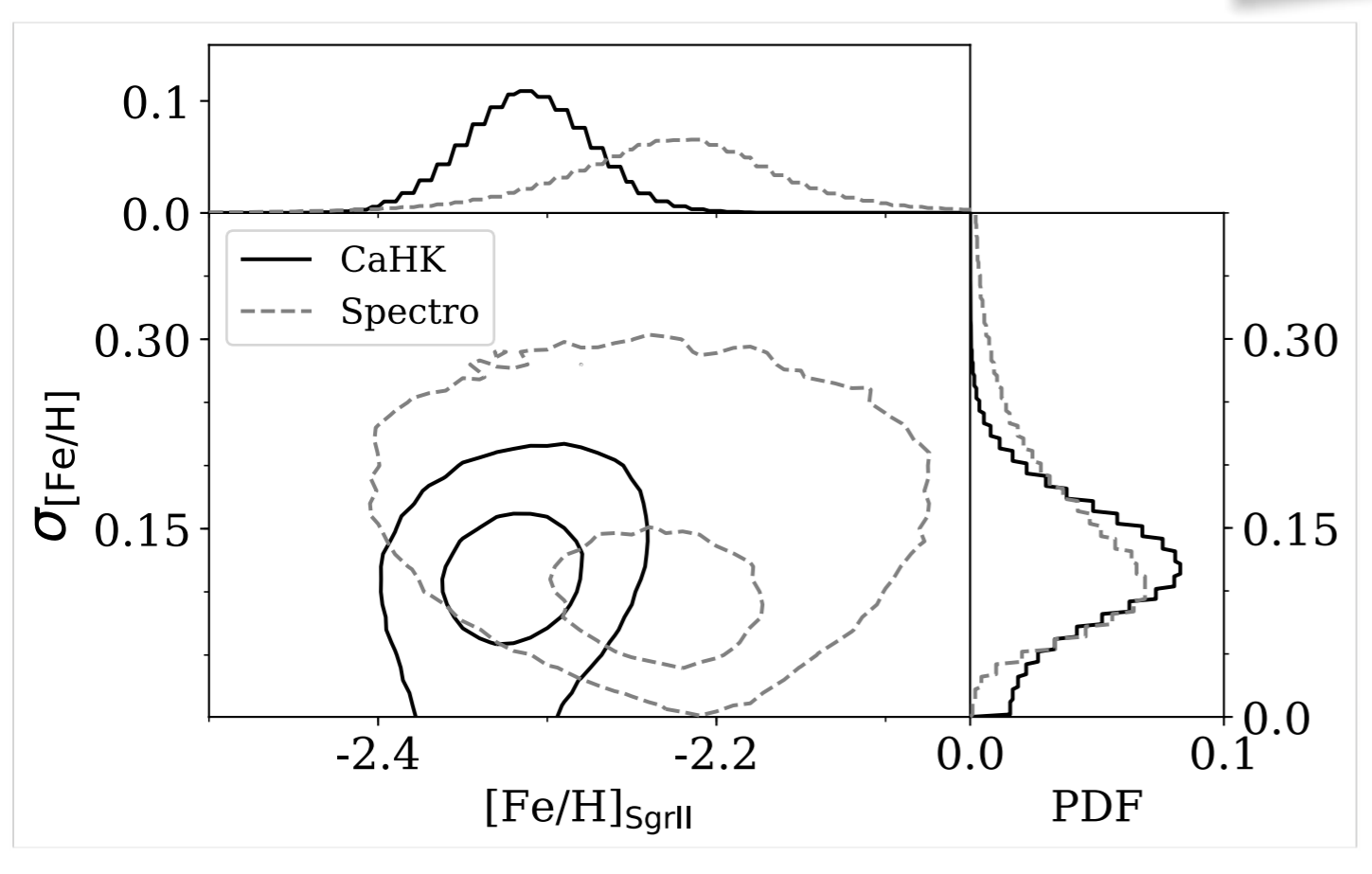
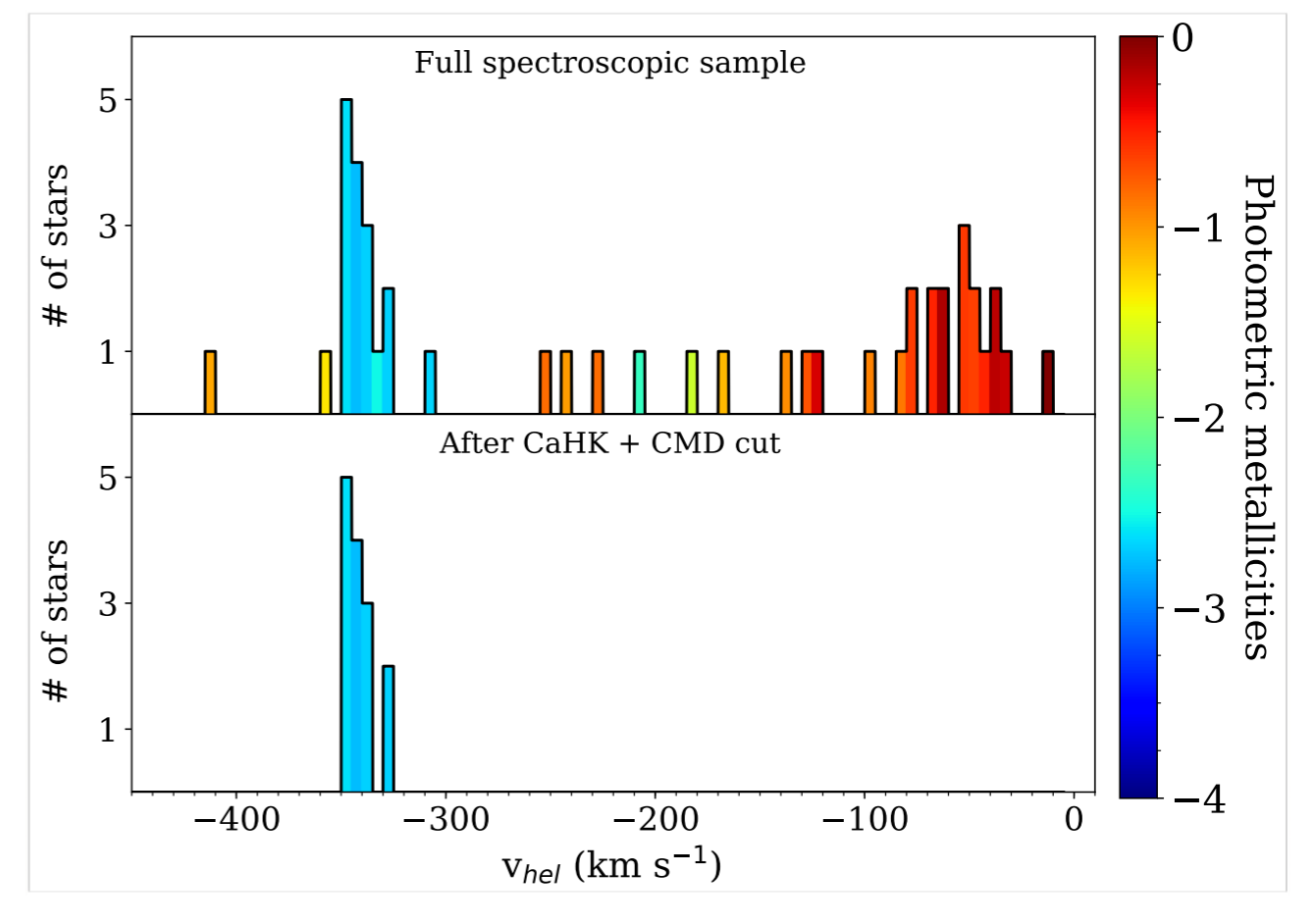
Nicolas Longeard, Nicolas Martin, Else Starckenburg and Pristine collaborators

In this colour-colour diagram, stars are distributed according to their metallicity. The Pristine survey can therefore assign a photometric metallicity to any star with broadband photometry (here the g and i of SDSS) and the narrow-band, metallicity-sensitive CaHK magnitude



Starckenburg et al., 2017

Clean a spectroscopic sample by identifying the metal-poor stars typical of faint MW satellites (here for Dra II, $M_v \sim -0.8$ mag)



Infer the systemic metallicity and the metallicity dispersion of these satellites by photometry only (here for Sgr II, $M_v \sim -5.2$ mag)