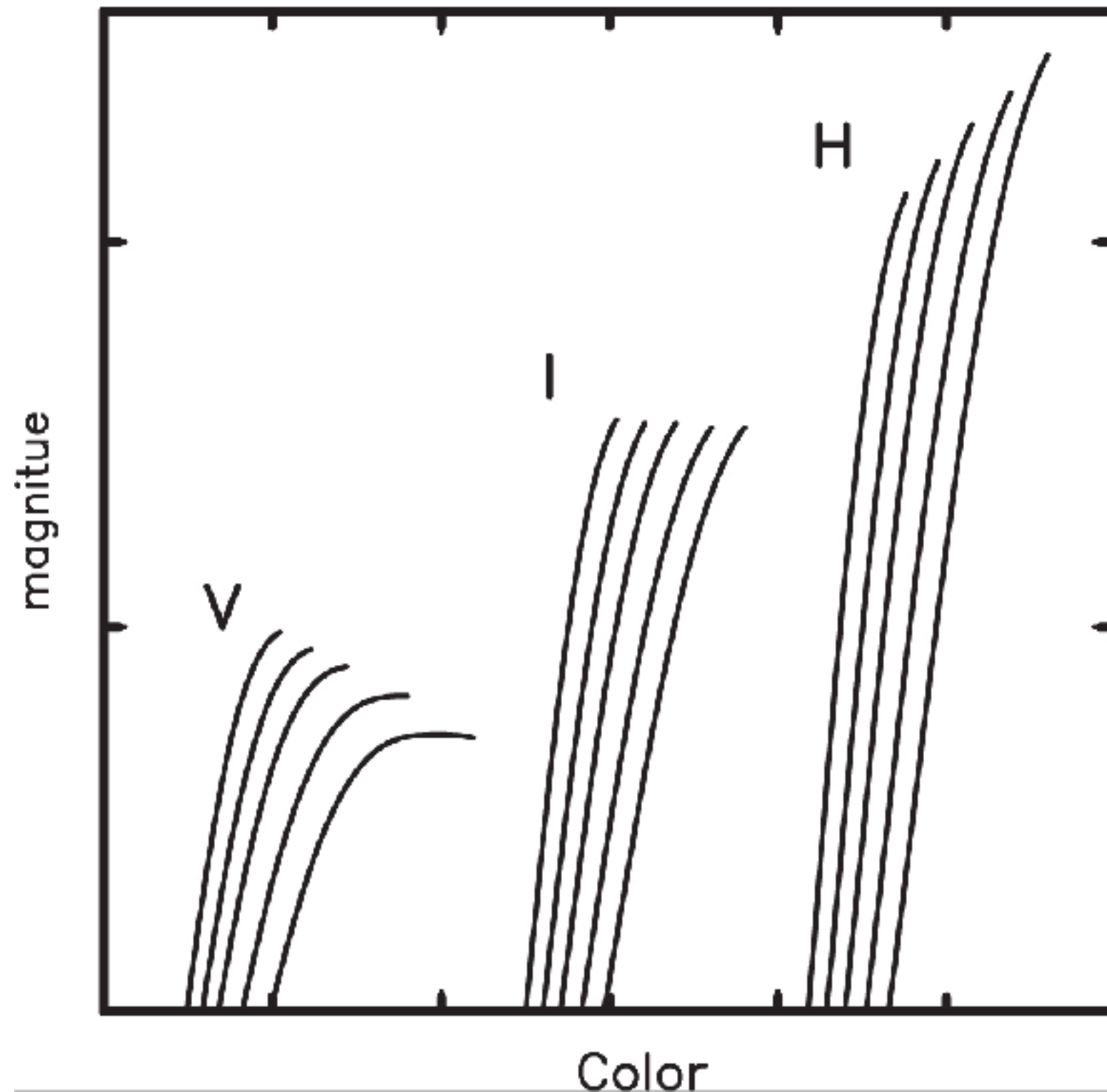


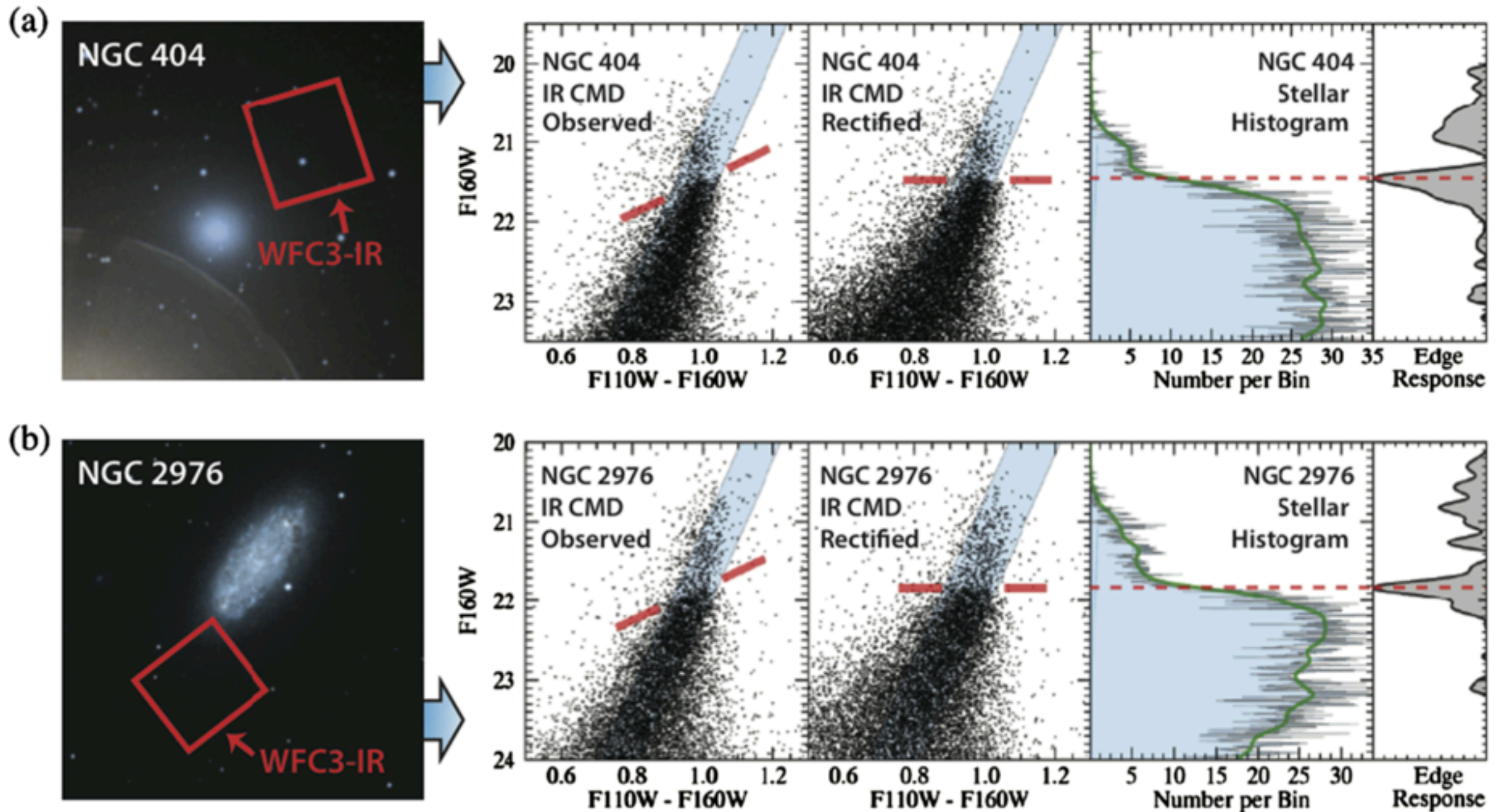
the stability of the IR-TRGB using the PHAT machinery

meredith durbin

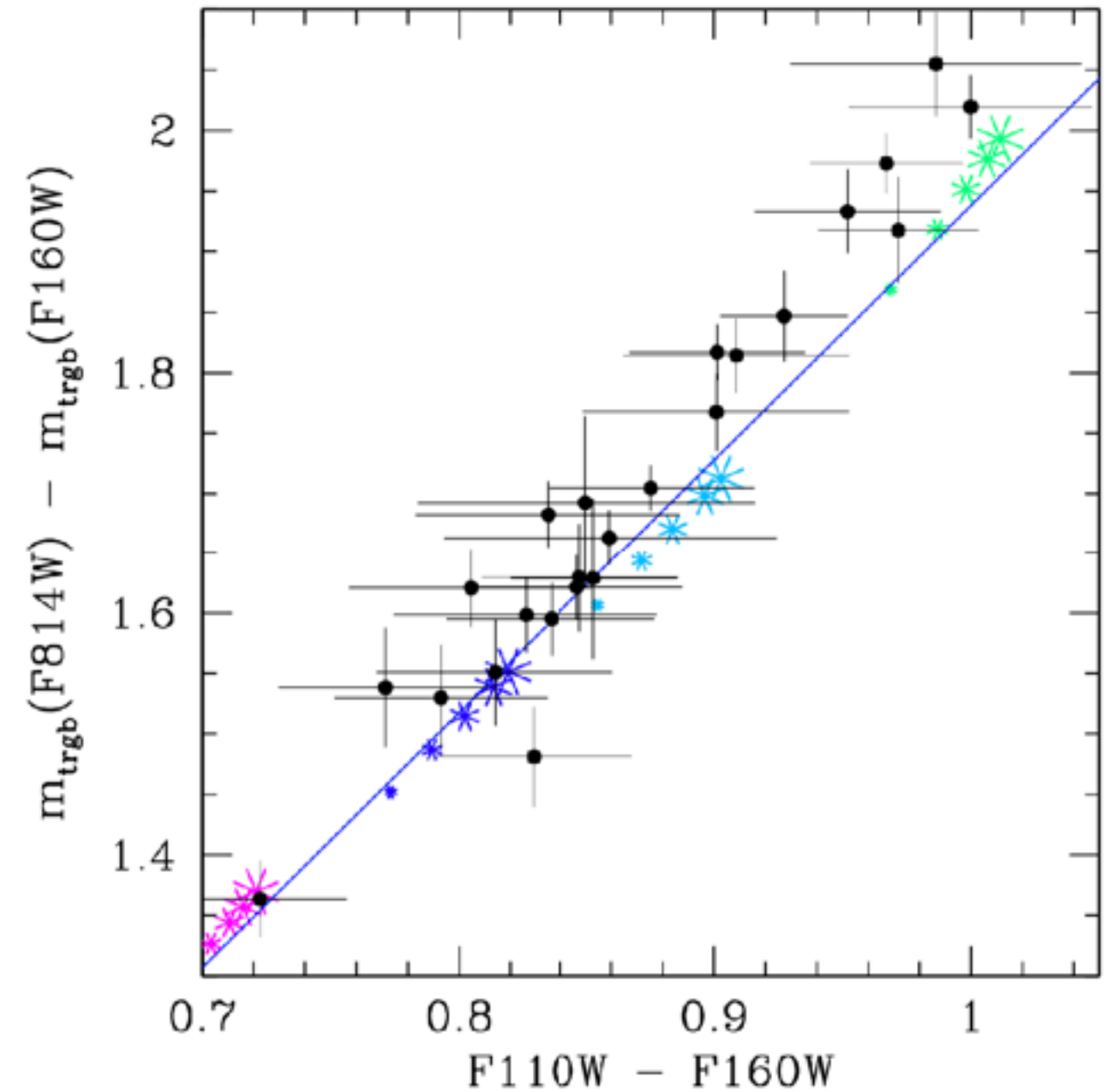
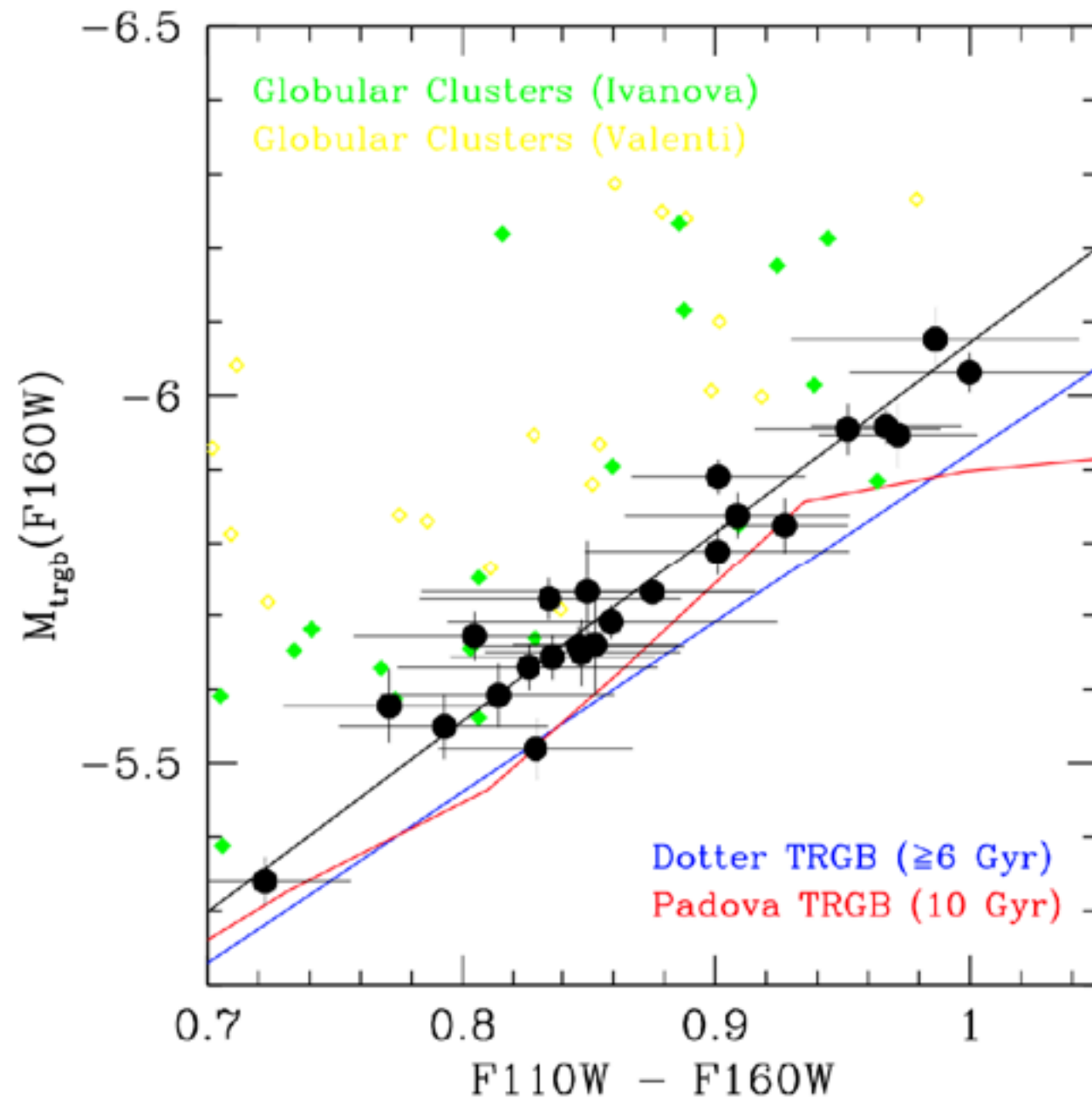
the multiwavelength TRGB



method: transformed photometry

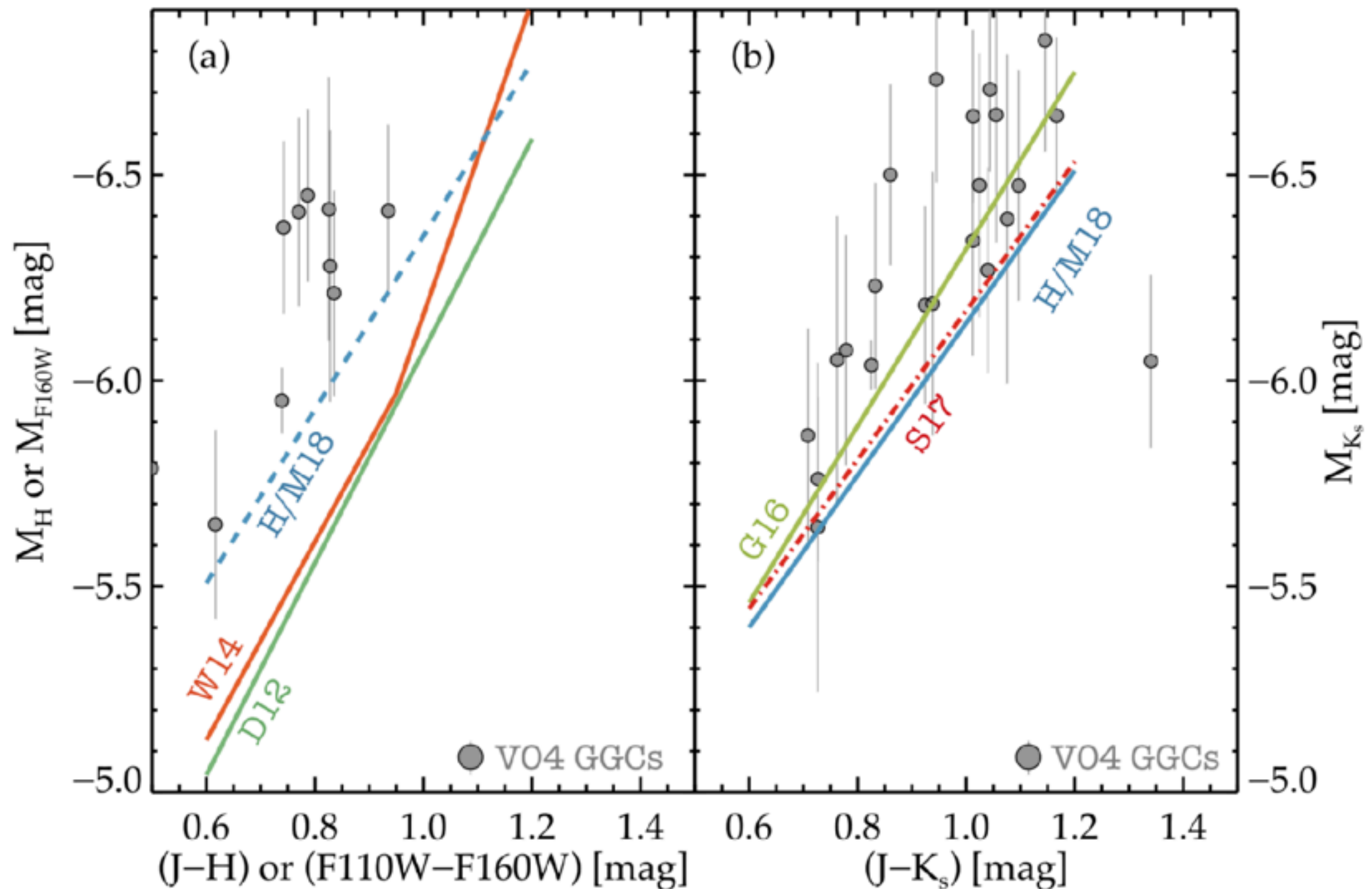


previous calibrations



dalcanton et al. 2012, ApJS, 198, 6

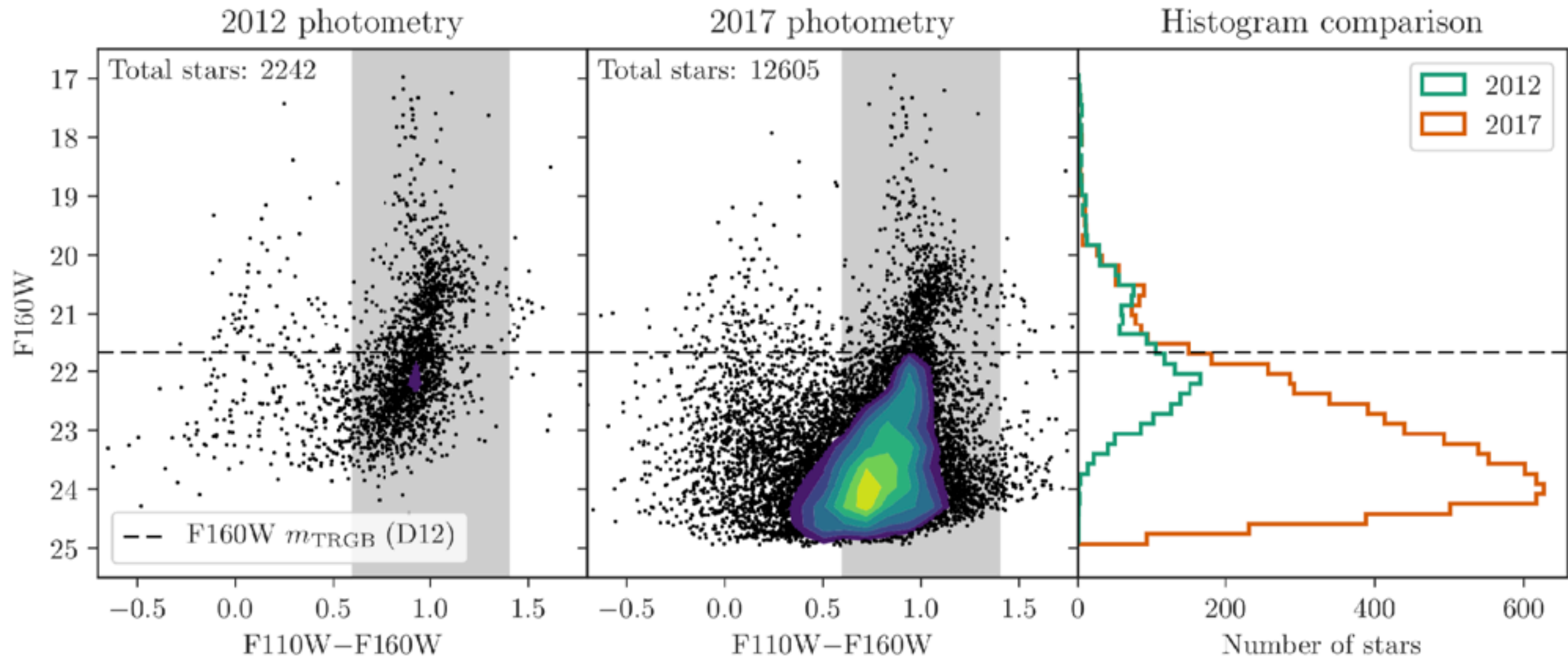
previous calibrations



re-reduction goals

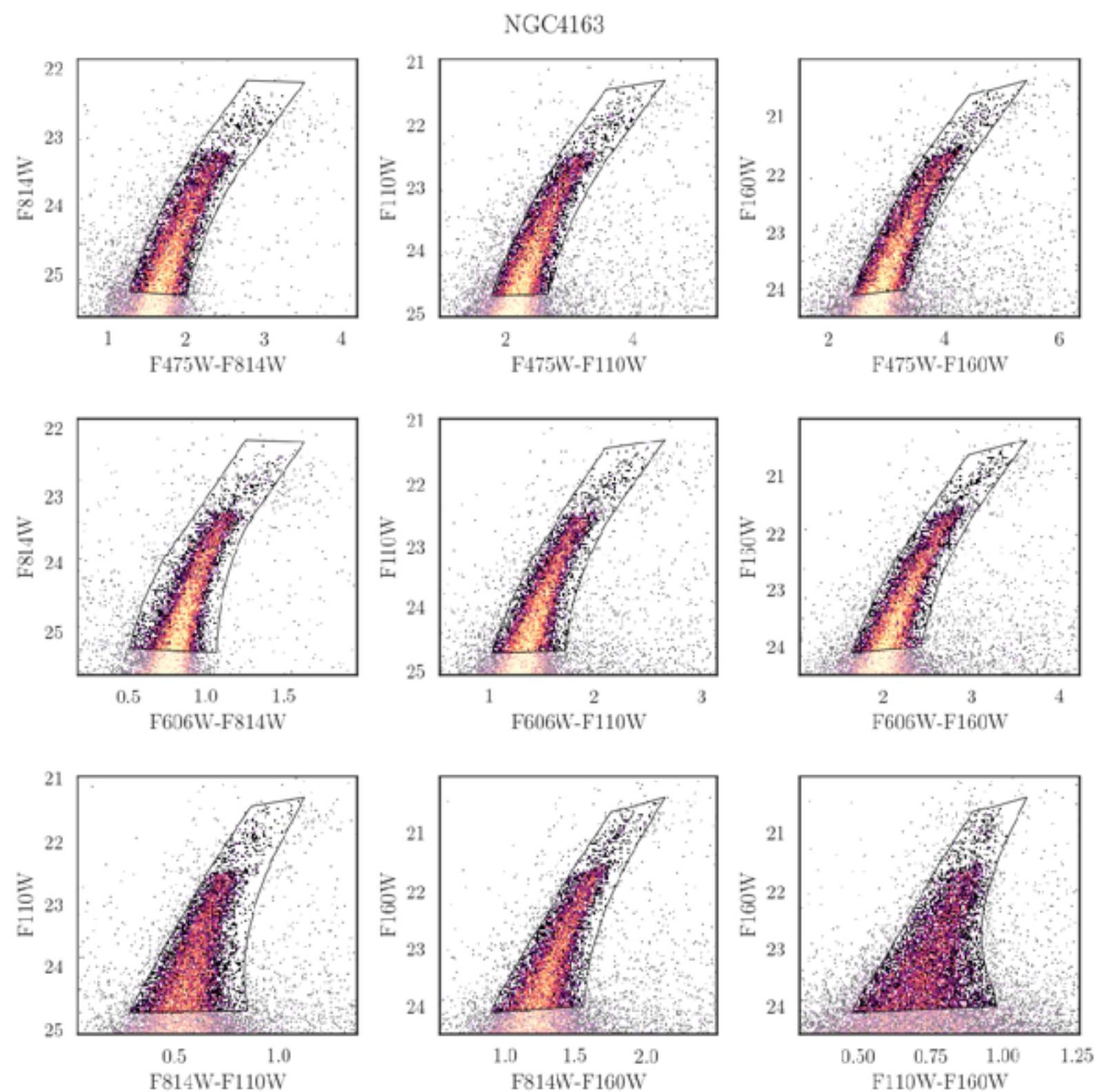
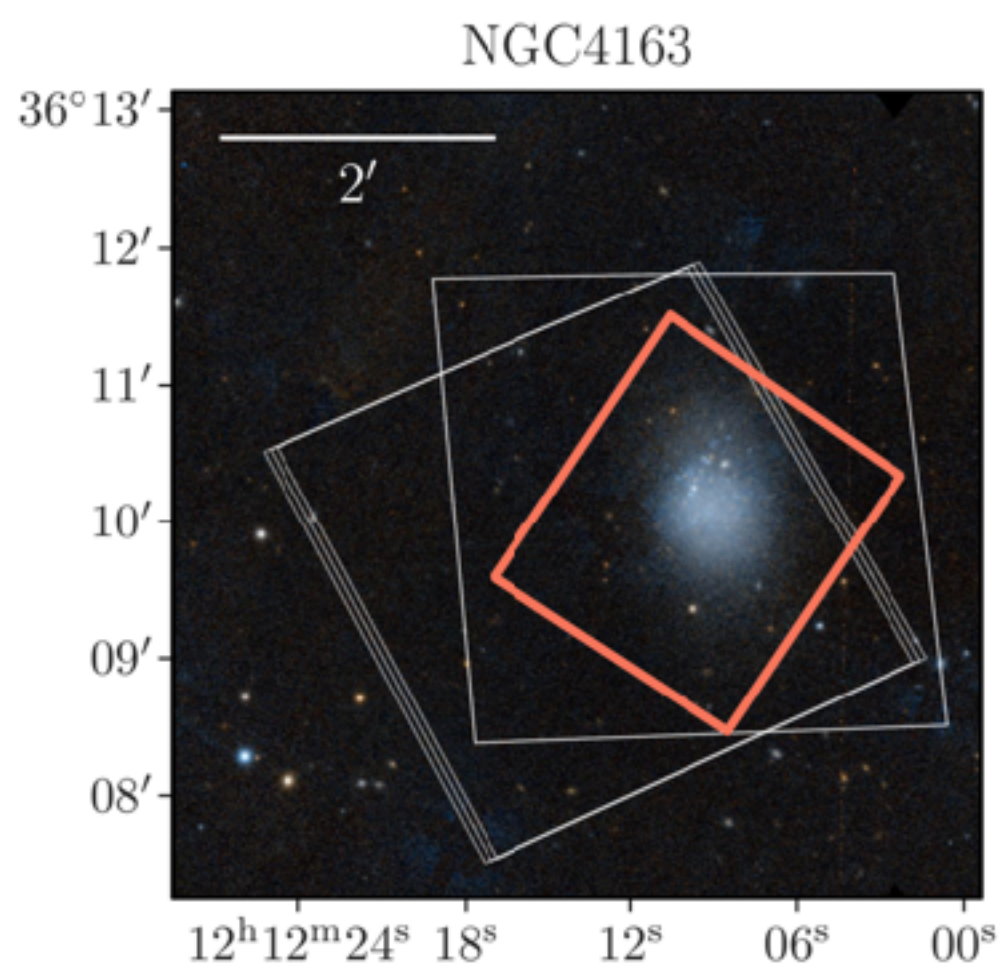
- use improved wfc3/ir calibration + photometry for more accurate tip magnitudes & colors
- correlate tip magnitude + color with SFH
- improve absolute calibration

improved photometry



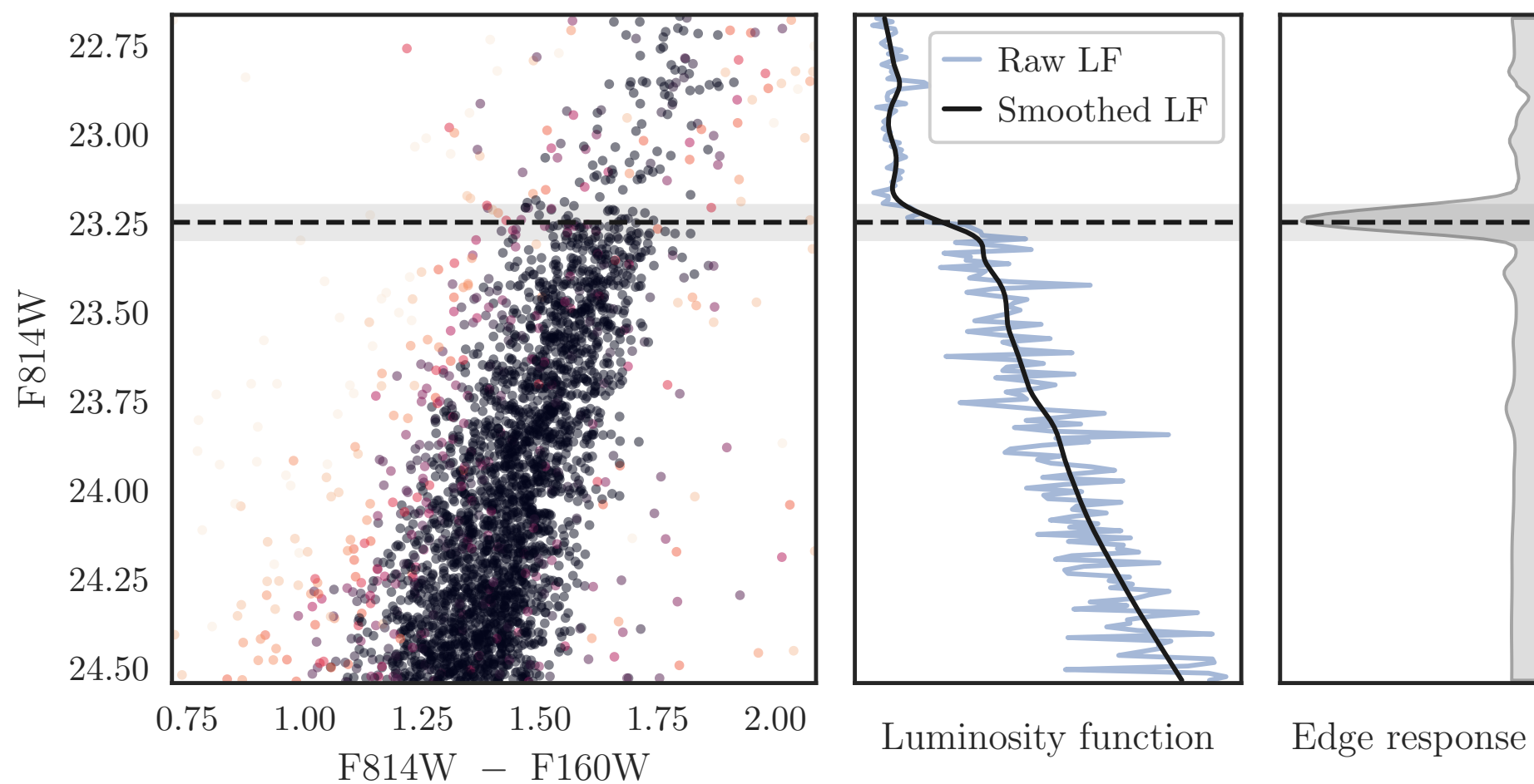
pipeline: williams et al. 2014, ApJS, 215, 9

RGB selection

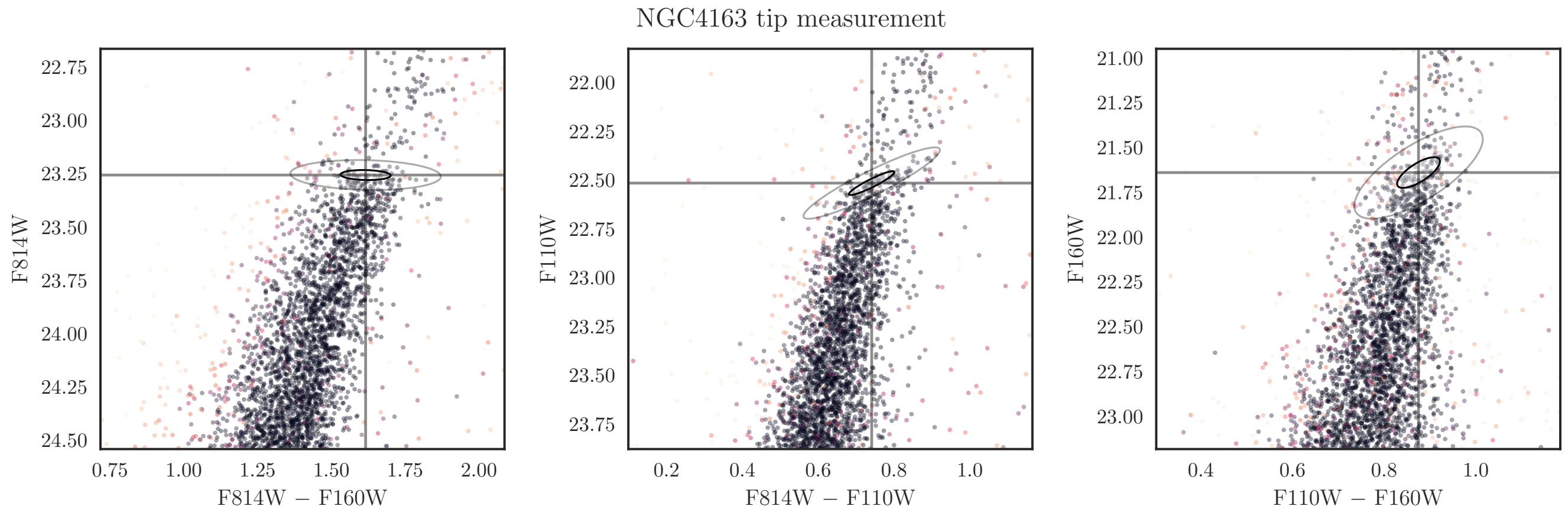


tip star selection

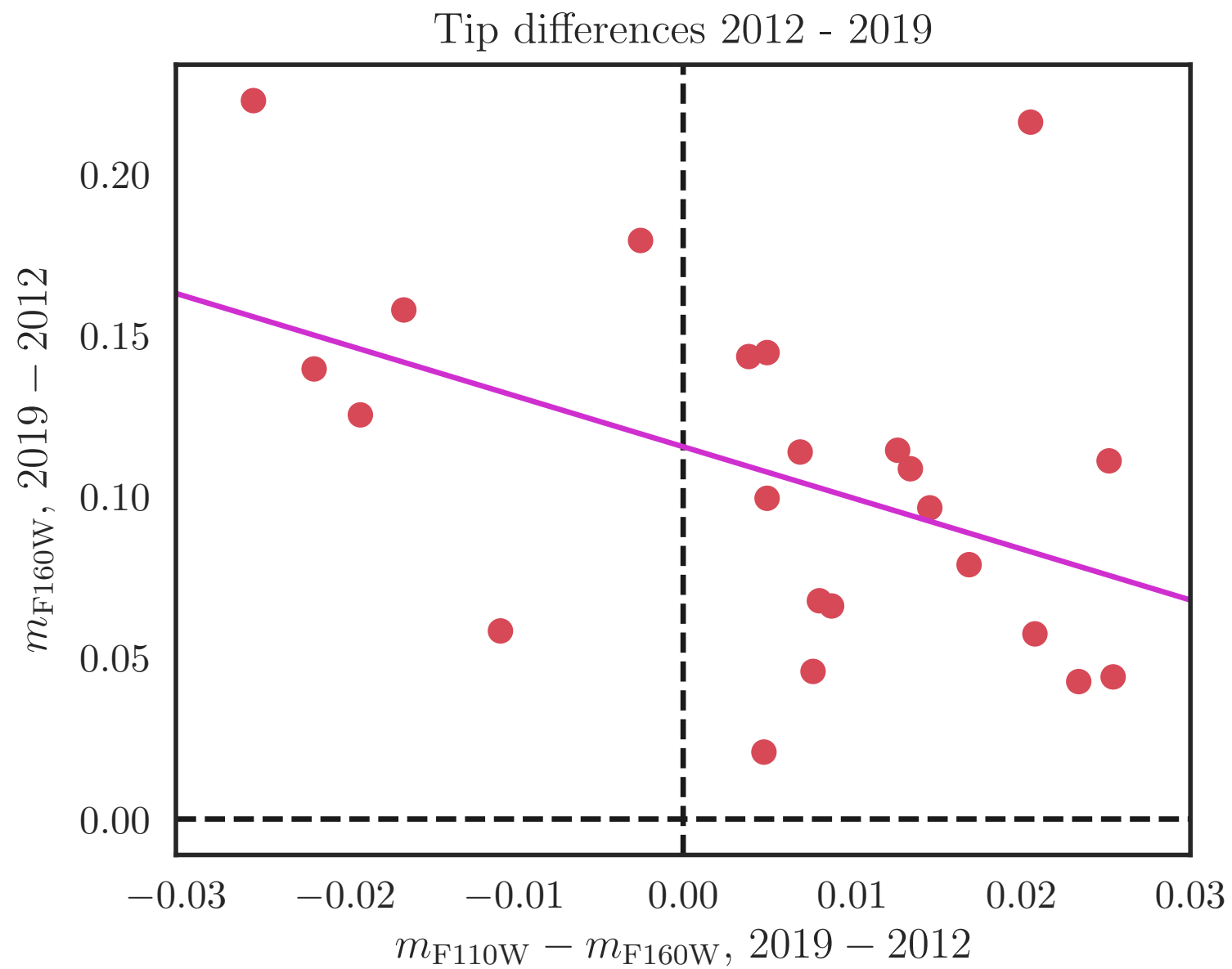
NGC4163 F814W edge detection



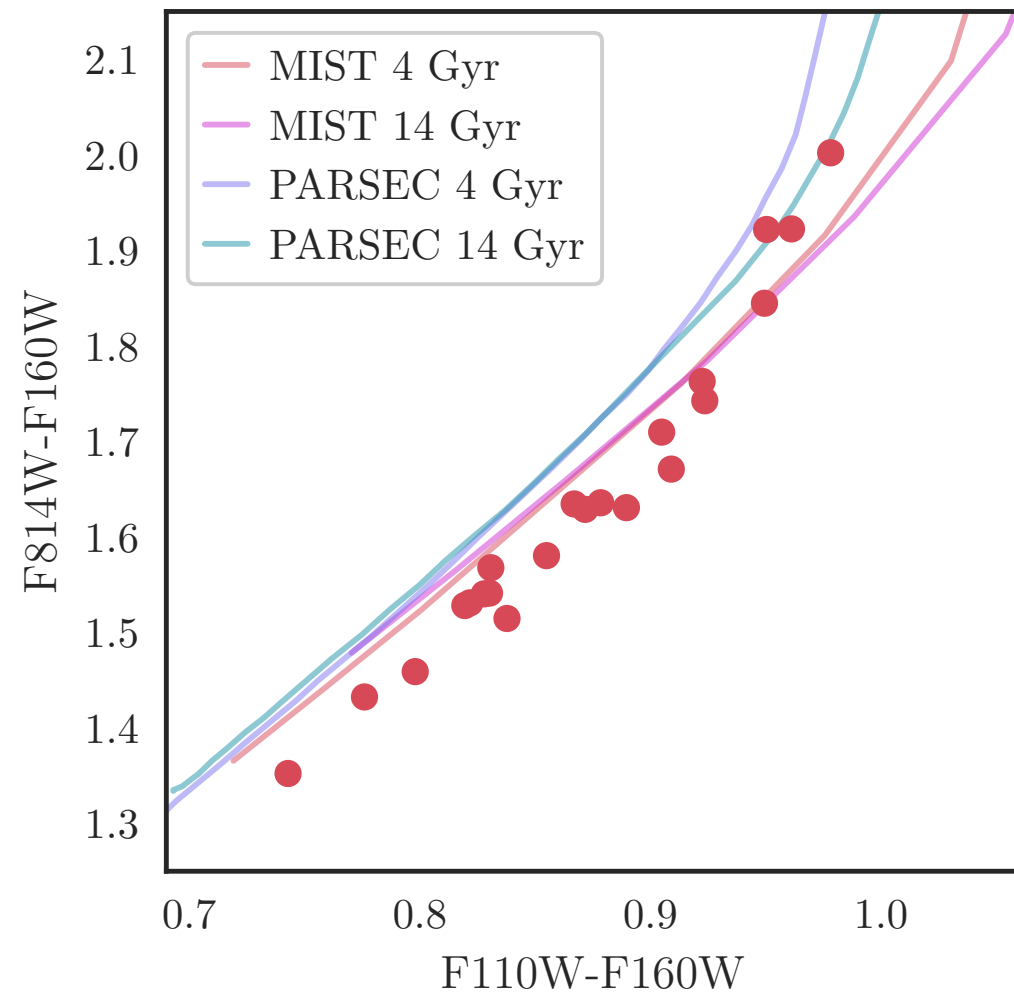
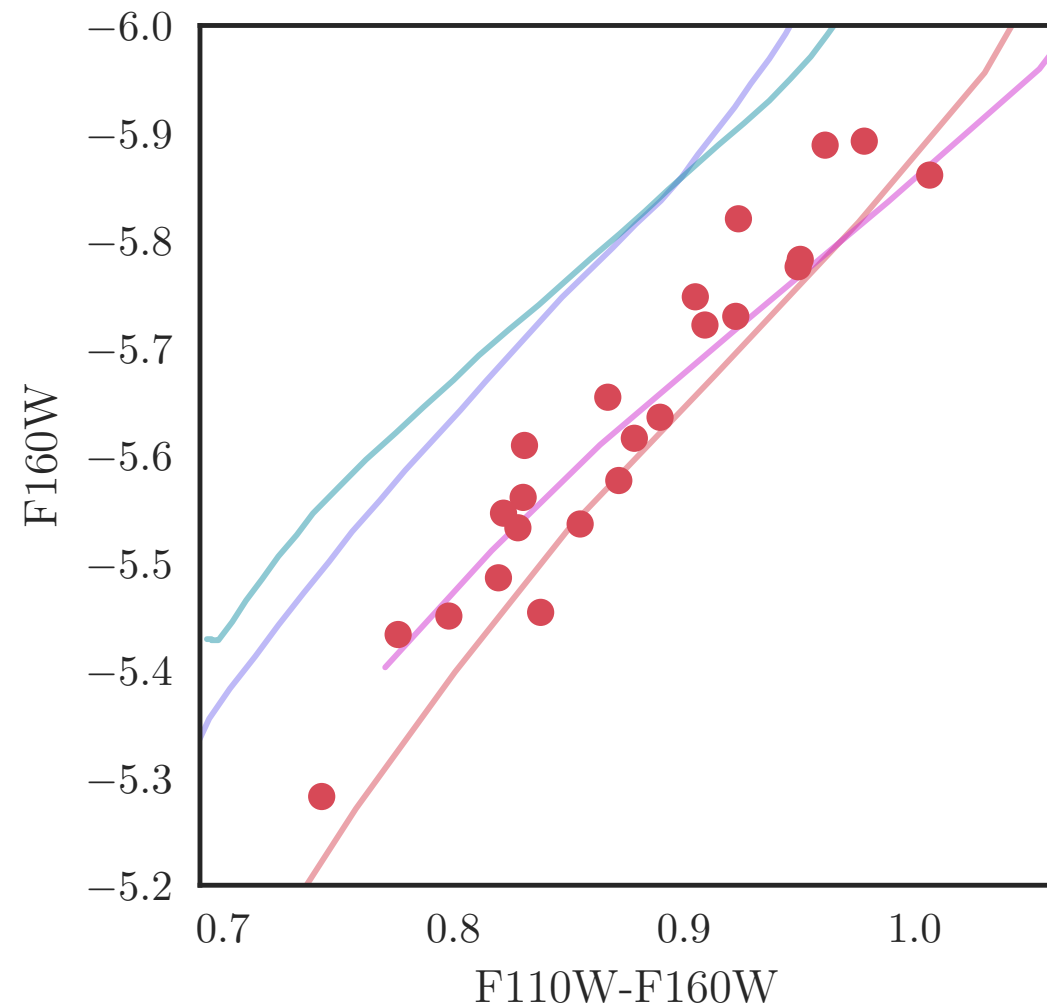
tip fitting



2012 vs 2019



color-mag & color-color relations



future work

- absolute calibration with Local Group
- improve model fidelity