

Precise “Astrometry” from Undersampled Data for the *Veloce* Spectrograph

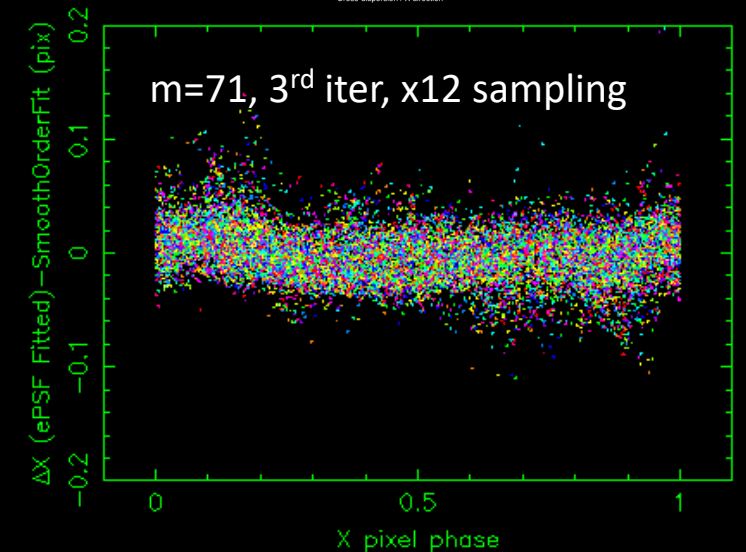
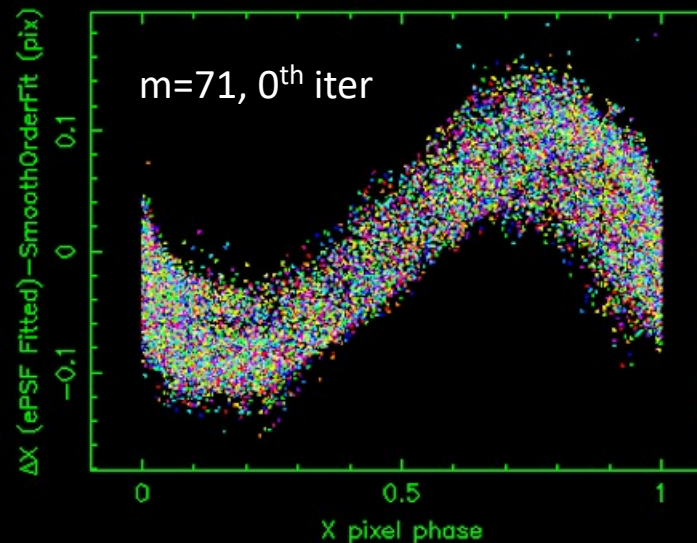
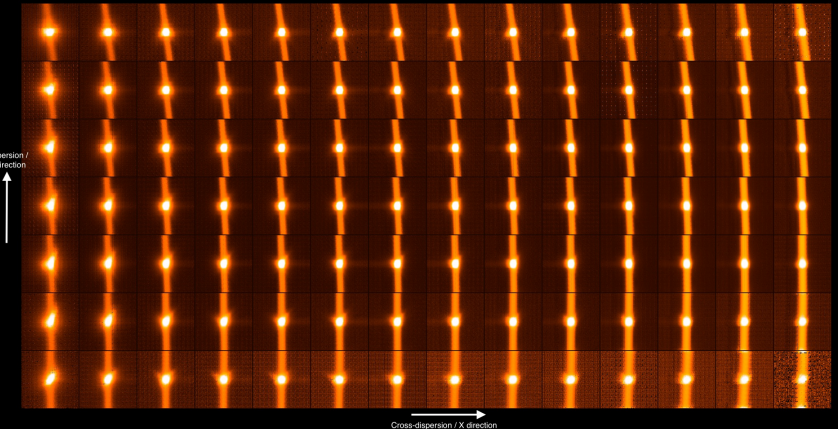
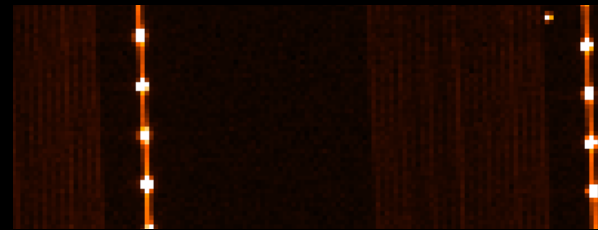
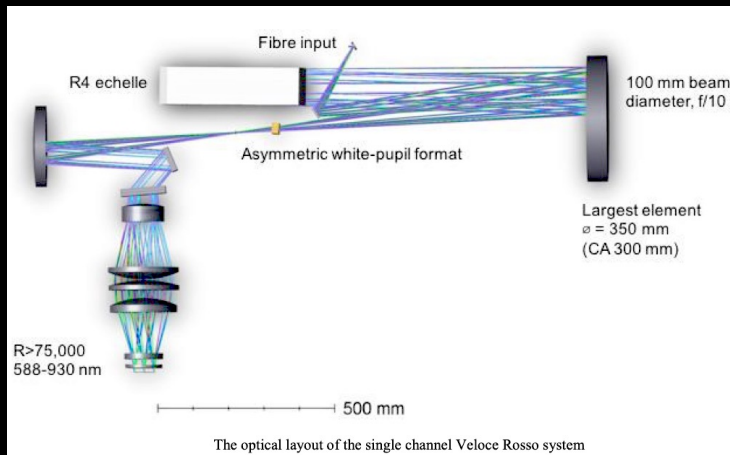
Chris Tinney (UNSW)



Building a compact, wide-wavelength coverage spectrograph for a 1.5” seeing site for under A\$5m requires some compromises

This leads to pixel-phase errors when we try to measure X,Y positions for the ‘lines’ of our LaserComb calibration source

“Effective PSF” (ePSF) techniques developed for HST by Jay Anderson, work a treat ...



We had to really compress the data format on our 4K detectors, leading to being under-sampled on the cross-dispersion direction.