

Zero order focus test 4-11-2011

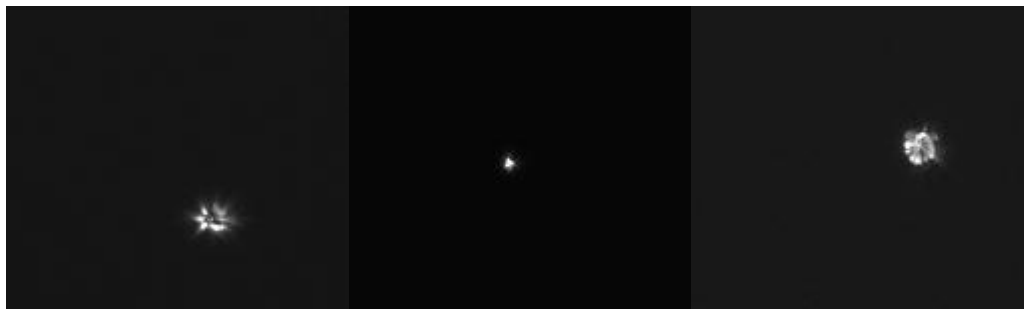
R Leadbeater

Three Hills Observatory

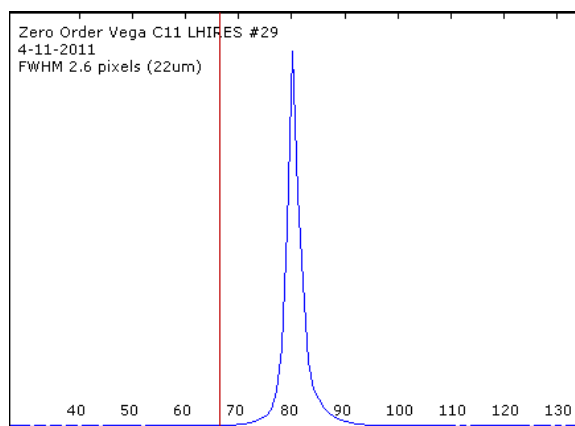
C11 f10 LHIRES III #29 2400 l/mm grating 35um slit

Zero order of internal neon acquired and checked for sharpness of slit image (No adjustment of doublet focus needed relative to neon lines near 6000A)

Slit removed and star (Vega) image acquired (0.01sec exposure). Images taken while adjusting telescope for best focus and inside and outside focus. (No obvious sign of astigmatism/coma/miscollimation)



Star PSF checked at best focus and best seeing (2.6 pixels 22um FWHM)



Slit (35um) replaced and Vega spectrum imaged (H gamma, 5sec exposure) without adjusting focus of telescope or doublet



Spectrum height 4 pixels FWHM (33um)