

Observing Project #3: Report on the Observations (due 25 October)

Based on your observations the other night, information you find in the manuals, and whatever you can find on line, answer the following and tell me how you determined your answer...

1. What is the field of view (arcmin x arcmin) of the SBIG/SGS tracking CCD at the Cass Focus on the 0.4 m f/10 telescope at CofC? How does this compare to the field of view of the Alta U6 imaging CCD on the same telescope?
2. What is the image scale (in arcsec/pixel) for the tracking CCD?
3. What is the size of the tracking CCD, in pixels? How large are the individual pixels (in μm)? What is the physical size of the CCD chip (cm x cm)?
4. When viewing the tracking camera on Lestrade with CCDOps, which direction is North? Which is East?
5. When viewing the tracking camera, which direction is the slit oriented?
6. Does the "top" of the slit in the tracking camera correspond to the "top" or to the "bottom" of the slit in the "Imaging" camera?
7. What is the size of the "Imaging" CCD in pixels? What is the binning factor (X by Y)? How large are the pixels? What is the physical size of the CCD chip (in cm x cm)?
8. What is image scale (arcsec/pixel) in the spatial dimension on the imaging CCD.
9. For your observations, what was the FWHM of the star image, in arcseconds, measured either on the tracking camera or along the slit? Comment on the quality of the seeing and telescope focus.