

## **AST 475/875 Homework #8**

*Due T Nov 16<sup>th</sup>*

The SARA 0.9 meter has a CCD at the  $f/13.5$  Cassegrain focus, where resides a fictitious  $1024 \times 1024$  pixel CCD camera with 15 micron pixels and a gain of 2.3 electrons/ADU

- 1) What is the plate scale of the detector?
  
- 2) What is the field of view of the detector in arcminutes on a side?
  
- 3) You perform aperture photometry on a bright point source and measure 1500 ADU above background. What is the uncertainty of the source's magnitude?