

- If you intend to spend a long time on one target field, it is advisable to collimate the telescope using a star in the vicinity of your science target field.
- XEPHEM SKY VIEW WINDOW: Identify a collimation object (magnitude < 7). Type the RA-Dec into TomPack Viewer > Main Controls > Sky coordinates, and hit Slew & Track.
- *Check/optimize telescope focus with science instrument prior to collimation*
- *“Autocollimation” must be running throughout the collimation & focusing procedure!*
- Adjust focus with Secondary GUI, taking an exposure with the science camera, and **when using the 4k CCD Imager**, evaluate the distribution curve fit in IRAF xgterm
- Guidebox GUI: insert Center field pickoff mirror
- Use PHD2 to observe the object.
- If you need to center the star in the field, use the Manual Control or the Manual Shifts (TPView > Main Controls). DO NOT USE GUIDER STAGES TO CENTER OBJECT.
- Guidebox GUI: defocus to obtain “donut” (offset -30)
- **Secondary GUI**: adjust TipX, TipY to even out light distribution in “donut”, re-centering object with paddle
- Guidebox GUI: refocus (eliminate/adjust offset; it will be a value close to 0)
- Guidebox GUI: select U-mirror
- Check/optimize telescope focus with science instrument (after collimation)

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