

MONDAY AFT. FEB 24

Kepler: obs-1 move**

To set up observer account

- login as obs-0 (password more\$\$)
- Option B set up your days under, say, obs-1
- q to quit w/ changes
- 0 to exit.
- Login as you: obs-1, passwd more\$.
- use passwd to change password.

HP: Kepler

88" Summit

tycho - TO's computer

halley - Observer's UNIX / X computer

"~~the~~ trex - the data acquisition computer.
a primitive UNIX machine.

92-02-24 88-inch at summit

To accomplish at summit:

- 1) Load BVRI filters into slide (B closest to handle) BVRI order
- 2) Set up an account on halley
- 3) Learn how to operate CCD
- 4) " " " transfer files to halley for analysis
- 5) " " " ~~an~~ get image sizes on halley
also → how to check for near saturation.

Changes to halley + Kepler systems:

login is obs-4 on both.

.cshrc added line "source lyoung.alias"

lyoung.alias New file, contains the aliases:

mt mt f /dev/nrst1

tat tar trf /dev/nrst1

tarc tar cvf /dev/nrst1

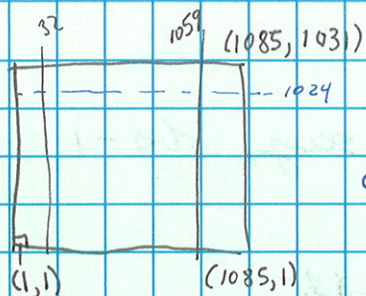
tax tar xvf /dev/nrst1

.rhosts

add kepler obs-4 (on halley)

make .rhost, with halley obs-4 (on Kepler)

SAO Image



ctr = 544, 512

Display + FWHM with IRAF

- ② Start SAO image
- ① move to iraf directory
- ② cl (enter iraf)
- ③ dataio (so it knows about rfits)
- ④ rfits fitsFileName 1 (it of fileName)
- ⑤ disp <irafFileName> 1 ← sends to SAOImage
- ⑥ imexamine
- ⑦ Then go to SAOImage window, type r for radial plot
(tells FWHM in a window) with cursor positioned in SAO image over star

S → surface plotZ → small array display

command !e or !c command edit back through history
(like tshell)

- ⑧ writing sub files w/ fits $\&$ <image> [col1:coln row1:rown] fits filename

TREX:

→ astro nomen

THE EXPOSURE BUDGET

For UT Feb 25 (Monday night / Tues Am)

→ Go to B field straight away
Use Allen + Susan's fields to get Ctr of chip position
on TV ~~approx~~

Focus on B field (~30 min?)

5 60 sec exposures on B in B [Expose so that
13.1 is ~40,000 DN]

4:30 Midas ~~Fast time~~ First time

What accuracy do we want per exposure on B?
~4000 cts/sec (from #'s Dave got w/ photometer)

Track on B.

Midas - if winds stay up, might not want to point
to the west (telescope)

CRIT WHAT WE NEED tonight

B 5 singles
5 quads

300 s e-folding time of sky brightness at twilight

Meet @ 1:15

MORNING OF TUES FEB 25

- to get the weather: tip ukirt. login as weather (no password)
- Dome closed do to wind (max allowed 50, 40 mph ~~into~~ wind)
- or tip ~~ukirt~~ ether

* low 50's - gust of 60's

C modem

atdp 9696581

*local> c inttel

username WEATHER

u - update

~~T~~ - ~~chart~~ text output

s - screen

^Y to exit.

15-minute intervals reports:

windspeed, humidity & barometer pressure are highs.
off of the 15 min. interval are instantaneous

erase files from trex while exposing, otherwise it slows it down.

ftp trex

/img/big

ui.log - always stays.

"row-bleeding" (rows are up-down on the display)

uniform along rows { removed by median average of rows }

start up iraf ("ce") in iraf directory; then "cd" to a working directory

92-02-25

Dome flats - heavy source (Huggsten halogen + dust) white
45 volts (telescope at zenith)

B filter

Try 1.0 sec → not enough

go to 30 sec - " "

DARK SLIDE was in!

exp <<time(sec)>>

acq -n

Pull out Dark slide & try again at 1.0 sec

try 30.0 sec ~ 15K (~9K above bias)

" 100.0 sec

35K (incl. bias) → Good

row row# laser off

Try Alan Stockton's source (PLANT-GRO)
get ~ 1k in 1 sec.

Try 35.0 sec → 30.0 sec is good for B

← readout error →
on acg - 2

"reset"

Another 30.0 sec

Try 10.0 sec exp in V

" 1.0 sec

set 10.5K - 5K = 6.5K signal

→ " 5.0 sec

" 28K

" 6.0 sec

in R:

try 1.0

→ 1.8 sec → 1.6 sec best

I

try 0.8 sec

→ 0.5 sec good

tarring Tues AM

Daily backup

try #1 insert tape; mt stat

tar c .

tar file containing ./c00*.fts

try #2 mt stat

file no = 1 block no. = 0

cd

tar c 92Feb25

tar file containing 92Feb25/c00*.fts

check a file

mkdir kmpdir

cd kmpdir

tar x c007392.fz doesn't work

mt rew; mt fzf; mt stat → file no = 1 block no = 0

tar x c007392.fz makes kmpdir/92Feb25/c007392.fz

Prepare for complete tape

mt off

□ FIND OUT WHAT CAUSED THIS BEHAVIOR, and
MAKE 2 "COMPLETE COPY" tapes, and
tar -t them to the directory, and
remove the files in the directory