LBT Observing Log for 2024 04 17

Observers: Justin Rupert
Partner Observer: Don Terndrup
Telescope Operator: Josh Williams

Plan:

If seeing is good, we'll observe with LUCI bino, otherwise PEPSI to observe BHBinaries and other programs. We plan to switch to LBC near time of moonset.

Summary:

Two objects from the UM_XMDs program.
Three galaxies in the OSU_Monitor program,

Issues:

IT #7487 - In an email this afternoon to the partners, Dave Thompson reports the G200 grating on LUCI2 is having increased trouble stabilizing at the desired wavelength setting. For those programs using G200, we will proceed with LUCI observations and do any scripts twice in case the LUCI2 side does not deliver useful spectra.

Weather:

Clear all night. Seeing moderate all night, poor towards the end.

Overview (times are given in UT):

00:40 LUCI Field stop alignment.

01:52 Opening.

02:11 Pointing check.

02:21 Collimation check.

02:34 Collimation complete. Seeing ~1" and it is clear. Going to wait a bit for the sky to darken and the first target to rise a little higher in the east.

UM_HIP65380 (UT 02:48-03:27)

Luci1: 3-9
Luci2: 6-26

02:48 Preset.

02:57 Re-aligning on LUCI2.

03:15 Alignment finished. Resending preset for target acquisition.

03:23 Starting science. Seeing is 0.8"-1.0" on guiders.

UM_WISEA J132723 (UT 03:27-05:51)

Luci1: 10-29
Luci2: 27-45

03:27 Preset.

03:38 Taking a second, longer confirmation image.

03:42 Starting science. Seeing is 0.8"-1.1" on guiders.

04:13 There is a difference of ~100 pixels between LUCI1 and 2 with G200 @ 1.17um in all of the spectra taken for this object (IT#7487). Observer has decided to repeat the script.

04:48 Starting second set of spectra. Seeing is 0.6"-1.0" on guiders.

UM_HS1353+4706 (UT 05:51-08:12)

Luci1: 30-48
Luci2: 46-64

05:51 Preset.

06:04 Starting science. Seeing is 1.0"-1.2" on guiders.

06:19 There is still a ~100 pixel difference between the two LUCI spectra. Same configuration.

07:08 Starting second set of spectra. Seeing is 0.8"-1.0" on guiders.

UM_HIP71172 (UT 08:12-08:24)

Luci1: 49-55
Luci2: 65-71

08:12 Preset.

08:19 Starting science. Seeing is 1.0"-1.3" on guiders.

08:23 Now the LUCI2 is ~500 pixels off. Taking another set.

08:24 **Reconfigure to LBCs.**

08:46 Running 2Bias_Bino_Checkout

OSU_NGC4826 (UT 08:51-09:48)

R: 091054-094248
B: 091059-094359
Moon is still up, but perhaps the data will be useful.

08:51 Preset. Immediate copointing limit error.

08:52 Resending preset.

08:57 dohybrid –bypasstms

09:04 Collimated.

09:09 Starting science. Seeing blew up to 2" on DIMM.

r091054/b091059 IQ ~ 7 pix on both

r091452/b091507 IQ ~ 6.7/5 pix

09:24 DIMM down to 1.5".

OSU_NGC5194 (UT 09:49-10:41)

R: 100046-103239
B: 100052-103409

09:49 Preset.

09:50 dofpia –bypasstms
09:54 Collimated.

10:00 Starting science. Seeing is 1.3" on DIMM.

r100046/b100052 IQ ~5 pixels on both.

OSU_NGC5474 (UT 10:42-11:28)

R: 105146-112005
B: 105151-112051

10:42 Preset

10:43 dofpia –bypasstms

10:47 Collimated

10:50 Starting science. Seeing is 1.5"-2.0" on DIMM.

r105146/b105151 IQ ~7 pixels on both.

12:20 Taking some LBC Sky Flats

LBT DIMM Seeing /tmp/dimm.20240417osurc29012.tmp

FWHM (arcsec)

relative magnitude (+2.0) wrt/catalog 1.850 − 0.030

dimm_floor (minimum raw seeing reading)

seeing_zenith (zenith corrected seeing *)

seeing (raw seeing measurement +)

Time (hours [UT]) for MJD   60417