Jan 25 UT 2022 Night notes.

Overview:

Observer: Olga Kuhn (LBTO);
Lead: Mark Whittle (UVa)
Other Partner Observers: Charlotte Wood (ND)
Telescope Operator: Josh Williams (LBTO)

Clear night; seeing good; moon rises near midnight local time.
Emphasize OSU targets since they are behind ~18 hours.
Object distribution not ideal – sparse early (galaxy overhead!).
Start with MODS ASASSN until the PEPSI targets are available.
Then switch to PEPSI and aim to complete OSU-BH-Binaries, and do as many OSU-LowAbundZ as possible.

Objects completed (all times UT):

MODS
g191b2b Standard.
OSU: ASASSN J0623 (~40 min; set PA to 112 for parallactic angle for mid-exposure)
OSU: ASASSN 19dj (~2.5 hr)

PEPSI
OSU: BH-Binary J0757
OSU: BH-Binary J0933
OSU: LowAbund J1021+29
OSU: LowAbund J1048+17
OSU: LowAbund J1057+15
OSU: LowAbund USNO 1200.
OSU: LowAbund UCAC 473
OSU: LowAbund J1125+0145
OSU: LowAbund J1127-0133
OSU: LowAbund J1137+0158
OSU: LowAbund J1145+003
OSU: LowAbund J1150+0207
OSU: LowAbund J1217-0154
OSU: LowAbund J1351+400
OSU: LowAbund J1409+4512
OSU: LowAbund J1419+3634
OSU: LowAbund J1420+3935
OSU: LowAbund J1509+3935
OSU: LowAbund J1513+3558
OSU: LowAbund J1514+3300
OSU: LowAbund J1408+2706
OSU: LowAbund J1422+1643

Observing Log:

00:50 Sunset

01:12 Collimating. Problems on right side.
01:40 still trying to collimate. Panic on DX side. Reset.
01:53 finally collimating. Seeing about 1.0

01:57 Acquire MODS standard g191b2b
02:10 start g191b2b.5 arcsec slit.
02:25 done

02:25 slew to ASASSN-J062307 (change PA to 112); changed .acq to shorter exposure since star is expected to be bright.
02:32 acquire is good – field matches rotated finder; Clear skies;
02:41 start. Seeing 0.8 (SX) 0.96 (DX)
03:07 finish

03:07 acquire ASASSN 19di (old 2019-TDE in galaxy center).
03:25 start science. 6 x 1200 seconds. Seeing ~ 0.85. Weak [OIII] and Ha+[NII] across galaxy.
05:39 end science. Seeing 0.6.

Change to PEPSI
05:39 slew to zenith
05:52 Operator's computer froze, unclear why.

Start OSU BH Binaries.

06:09 started collimation.
06:12 slew to BH-Binary J0757+43.
06:15 started exposure; seeing 0.5 arcsec!

06:36 slew BH binary: J0933+34.
06:38 start exposure (20 min). Conditions excellent. Seeing 0.6 arcsec.

Start on OSU-LowAbundZ
Almost all have S/N ~ 180 red and ~85-90 blue. Considered adequate (target ~100; conditions excellent).

06:59 slew to 2MJ1021+29
07:02 start exposure (15 min): 2MJ1048+1751

07:19 start J1048+175 (S/N 82 on blue; 200 on red).

07:35 2MJ1057+1559

07:40 seeing on guiders is ~0.6 arcsec.

08:02 USNO 1200.

08:23 J1151+1732

08:42 UCAC 473-04

08:58 pointing check

09:03 J1125+0145

09:22 J1127-0133

09:40 J1137+0158

09:58 J1145+003

10:17 J1150+0207

10:39 J1217-0154

10:59 J1351+400

11:17 J1409+4512

11:36 J1419+3634

11:56 J1420+3935

12:17 J1509+3935 Seeing beginning to increase (~1.3); as predicted by Alta.

12:28 J1513+3558

12:46 J1514+3300

13:07 J1408+2706

13:20 J1422+1643 (brighter, so only 10-minute exposure). Data fine despite twilight.

13:22 12-degree twilight. Finish.