

# LBT Observing Log for 2024 05 18 UT

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Telescope Operator: Steve Allanson

[PEPSI Log](#)

## Plan:

iLocator for the first half of the night.

Then UM\_TCrB program

HR 5501,

HD 134807

TCrB

Then, not much time for an instrument change, so finish high-priority OSU\_BHB

J18335

J21072

J20281

J20205

J22014

J19095

Medium OSU\_BHB

J20303

J17551

J17063

## Summary:

iLocator for the first half of the night.

Then UM\_TCrB program: HR 5501, HD 134807, TCrB

Then, not much time for an instrument change, so finish high-priority OSU\_BHB: J18335, J21072, J20281, J20205, J22014, J19095

Finally, medium priority OSU\_BHB: J20303, J17551, J17063 (J17063 is a binary, the companion may contaminate the target).

DIMM and Guider seeing plots for the night are at the end of the log.

## Issues:

## Weather:

Clear, good seeing. Typically 1". Low winds.

## Overview (times are given in UT):

02:17 **Sunset**. Starting with iLocator work. [AO Log](#).

03:12 **12 degree twilight**.

03:47 **18 degree twilight**.

06:43 Taking over from iLocator+SHARK-Vis. Reconfiguring to PEPSI bino. Our first target will be HR 5501.

06:56 Preset to UM\_HR 5501 (sensitivity calibrator for UM\_TCrB)

06:58 Starting science.

07:00 DIMM reports 1". Inserting ND2 filter to guiders.

07:25 Preset to UM\_HD 134807 (M-giant template for UM\_TCrB)

07:30 Starting science.

07:57 Preset to the vicinity of TCrB. It has been requested that we perform a pointing correction nearby the source.

08:03 Preset to UM\_TCrB.

08:04 Starting science.

08:28 0.8" from the DIMM.

09:05 1" from the DIMM.

09:09 Preset to OSU\_BHB\_J18335.

09:11 Pointing check required.

09:15 Return to target.

09:16 Starting science.

09:28 Preset to OSU\_BHB\_J21072.

09:32 Starting science.

09:45 Preset to OSU\_BHB\_J20281.

09:48 Starting science. DIMM reports 1".

09:53 Preset to OSU\_BHB\_J20205.

09:55 There are several stars in the field. Performing a pointing check nearby to be sure we get the correct science target.

09:57 Returning to the science target.

09:59 Starting science.

10:00 Odd jump on SX, star was not returning to the correct position on the fiber. Sending the preset again.

10:06 Starting science. There is a reflection or nearby star that is confusing guiding on SX. It seems stable now.

10:17 Preset to OSU\_BHB\_J22014.

10:20 Starting science.

10:23 Preset to OSU\_BHB\_J19095.

10:25 No GS found on DX, pointing check.

10:27 Returning to science target.

10:28 Starting science.

10:36 Preset to OSU\_BHB\_J20303.

10:39 Crowded field, pointing check required.

10:41 Returning to science target.

10:42 Starting science.

10:45 **18 degree twilight.**

10:55 Preset to OSU\_BHB\_J17551.

11:00 Starting science.

11:16 Preset to OSU\_BHB\_J17063.

11:19 Pointing adjustment made on DX, target is bright and unambiguous. Target has faint visual binary.

11:20 **12 degree twilight.** Starting science.

11:23 End of observing. Taking PEPSI cals.

12:14 **Sunrise.**



