

Observing log 2014-08-27 CHARA-VEGA
Observers: Philippe, Nicolas B., & Nic on site

Notes:

- **!!! B3 is the reference beam for this night !!!**
- For all observations, the peak 23 (E2W2) was really broad in spectral direction, twice as large as peak 12. Almost looks like doubled. DLs problem? Nic says everything is fine.

UTC03:10 – CHARA team reboots a machine using about 40% of the connection

UTC03:15 – Connection still slow

UTC03:25 – Startup finished. No problem to report.

Configuration 3T-E2E1W2: E2/Pop2; E1/Pop1; W2/PoP5

Program V01: HD189733 (R. Ligi)

UTC03:33 – CLIMB looking for fringes on Cal1 = HD190993, but maybe a bit faint ($H=5.5$). Peak 23 (E2W2) visible on VEGA.

UTC04:04 – Fringes locked on CLIMB 23 (at +940 micron). Looking on beam 1 and 2 ongoing.

UTC04:07 – B3 is the reference beam. Fringes found for B1 = -4246 micron, & B2 = +1600 micron.

UTC04:10 – **HD189733CAL1E2E1W2.2014.08.27.03.33** – Cal1 = HD190993. Start integration. 20 blocks.

UTC04:25 – Trying to lock the science target. Some difficulties on Nic's side.

UTC04:30 – **HD189733E2E1W2.2014.08.27.04.23** – Start integration, 20 blocks. Fringes are here, but faint ($V-H = +2.7$).

UTC04:40 – TT on E2 fails regularly to track (too faint). $r_0 = 5-10$ cm according to tiptiltgtk, worse on E2 & W2.

UTC04:58 – **HD189733CAL1E2E1W2.2014.08.27.04.51** – Cal1 = HD190993. Start integration. 20 blocks.

UTC05:05 – Go back to science, difficulties to acquire on E1. $r_0 \sim 4-6$ cm.

UTC05:25 – **HD189733E2E1W2.2014.08.27.05.22** – Start integration, 40 blocks. No more tracking issues.

UTC05:54 – **HD189733CAL1E2E1W2.2014.08.27.05.45** – Cal1 = HD190993. Start integration. 20 blocks.

UTC06:11 – **HD189733E2E1W2.2014.08.27.06.05** – Start integration, 35 blocks

UTC06:21 – No more delay on E1 from block 33 (included).

UTC06:30 – Change target, same program. Next star is a calibrator: common to both stars (HD189733 & HD 209458). Spectral calibration after next target.

Program V01: HD209458 (R. Ligi)

UTC06:45 – Fast seeing, problem to find fringes on Cal4 HD204414 with CLIMB. Nic realigns CLIMB.

UTC06:58 – Crash of control panel.

UTC06:58 – **HD209458CAL4E2E1W2.2014.08.27.06.58** – Cal4= HD204414. Start integration. 20 blocks.

UTC07:10 – Crash of control panel.

UTC07:16 – **HD209458E2E1W2.2014.08.27.07.11** – Start integration, 40 blocks.

First 2 blocks: shutters closed! Fast turbulence.

UTC07:36 – Spectral calibration: **D_R2720.2014.08.27.07.36** – ND2 on red camera.

Program V57: HD224014 (O. Chesneau)

UTC07:48 – New crash of control panel.

UTC07:55 – **HD224014CAL1E2E1W2.2014.08.27.07.49** – Cal1 = HD3360. Start integration. 20 blocks.

UTC08:10 – **HD224014E2E1W2.2014.08.27.08.14** – Start integration, 20 blocks. We don't see the coherent peaks on the science, but they were perfectly visible on the calibrator. Simon also saw them few days before.

On CLIMB, fringe 31 had a significantly lower contrast (but I don't know if the displays have the same scale)

UTC08:53 – **HD224014CAL1E2E1W2.2014.08.27.08.32** – Cal1 = HD3360. Start integration, 20 blocks.

UTC09:03 – Spectral calibration: **D_R2700.2014.08.27.09.03**. ND2 on red camera.

Program V60: HD13468 (N. Nardetto)

UTC09:20 – Nic realigns CLIMB pupils.

UTC09:30 – **HD13468CAL1E2E1W2.2014.08.27.09.10** – Cal1 = HD15633. 30 blocks.

UTC09:48 – **HD13468E2E1W2.2014.08.27.09.44** – 40 blocks. **B3 closed until block 13 (included).**

UTC10:03 – We only see peak 12 on the control display.

UTC10:11 – Nic restarts the shutter server.

UTC10:26 – **HD13468CAL1E2E1W2.2014.08.27.10.08** – Cal1 = HD15633. 30 blocks. B2/E2 with 2x times less flux than others.

UTC10:50 – **HD13468E2E1W2.2014.08.27.10.41** – 30 blocks. Weak fringe on 12 (E1E2), not visible on 13 (E1W2).

UTC11:06 – Spectral calibration: **D_R2700.2014.08.27.11.06** . ND2 on red camera.

UTC11:12 – Control panel crashed again.

Program V16: HD24712 (K. Perraut)

UTC11:15 – **HD24712CAL1E1E2W2.2014.08.27.11.13** – Cal1 = HD18883. 30 blocks.

UTC11:39 – **HD24712E1E2W2.2014.08.27.11.33**. 40 blocks.

UTC12:05 – **HD24712CAL1E1E2W2.2014.08.27.11.58** – Cal1 = HD18883. 30 blocks.

UTC12:20 – **HD24712E1E2W2.2014.08.27.12.20**. 30 blocks, instead of 40 for one last calibration point.

UTC12:X – **HD24712CAL1E1E2W2.2014.08.27.12.37** – Cal1 = HD18883. 30 blocks. DL out of delay, aborted.

UTC12:45 – Sun rising, end of the night...

UTC12:5 – Spectral calibration: **D_R2720.2014.08.27.12.53** - ND2 on red camera.