

Night 24/10/2014
Observers: Roxanne & Narges & Nic
(CHARA)

UT 2:07 humidity is around 20%

CONFIGURATION: E2 E1 +PoP3 PoP1

UT 2:23 Cophasing on HD 214734 Cal of HD 213306 , very few photons on E1 on both detectors. R0 is around 10cm.
UT: 2:59 No fringes on CLIMB. Switch to HD 213306 brighter target to look for fringes.
UT: 3:08 Still difficulties to find the fringes on CLIMB.
UT 3:20 Nic found that there is a problem with E2 metrology.
UT 3:31 He found the fringes on CLIMB finally.

V52 del cep HD 213306 (N. Nardetto) for 750nm

*****HD 214734 Cal1 of HD213306*****

HD213306CAL1E2E1.2014.10.24.02.06:

UT 3:36 the number of photons are 340 more than before.
Fringes on CLIMB very stable and nice. The peak on VEGA is very bright.
R0 is around 10cm. We put 10 blocks instead of 20.

HD213306E2E1.2014.10.24.03.43:

Fringes on VEGA very fast. Nice and stable fringes on CLIMB.
We put 10 blocks instead of 20. fringes at -880.

*****HD 214734 Cal1 of HD213306*****

HD213306CAL1E2E1.2014.10.24.03.52:

Bright fringes on VEGA. Fringes at - 939 on CLIMB.

Spectral calibration:

Red neutral density: 2
Red neutral density: 0.3

D_R2750.2014.10.24.04.02

V52 del cep HD 213306 (N. Nardetto) for 700nm

HD 214734 Cal1 of HD213306

HD213306CAL1E2E1.2014.10.24.04.08:

Very nice fringes on VEGA. 10 blocks instead of 20

HD213306E2E1.2014.10.24.04.16:

Fringes on VEGA very fast. Nice and stable fringes on CLIMB.

10 blocks instead of 20. fringes at -942.

HD 214734 Cal1 of HD213306

HD213306CAL1E2E1.2014.10.24.04.24:

Fringes on VEGA. Fringes at -1000 on CLIMB.

10 blocks instead of 20.

Spectral calibration:

Red neutral density: 2

Red neutral density: 0.3

D_R2700.2014.10.24.04.33

V52 del cep HD 213306 (N. Nardetto) for 670nm

HD 214734 Cal1 of HD213306

HD213306CAL1E2E1.2014.10.24.04.38:

Very nice fringes on VEGA. 10 blocks instead of 20

HD213306E2E1.2014.10.24.04.46:

Fringes on VEGA very fast. Nice and stable fringes on CLIMB.

10 blocks instead of 20. fringes at -994.

HD 214734 Cal1 of HD213306

HD213306CAL1E2E1.2014.10.24.04.54:

Fringes on VEGA. fringes at -1044.

10 blocks instead of 20.

Spectral calibration:

The file D_R2700.2014.10.24.05.04 is aborted

Red neutral density: 0.3 with this density we have lots of photons.
Red neutral density: 0.3

D_R2670.2014.10.24.05.07

V52 del cep HD 213306 (N. Nardetto) for 620nm

*****HD 214734 Cal1 of HD213306*****

HD213306CAL1E2E1.2014.10.24.05.14:

Very nice fringes on VEGA. 10 blocks instead of 20

HD213306E2E1.2014.10.24.05.22:

Fringes on VEGA very fast. Nice and stable fringes on CLIMB.
10 blocks instead of 20.

*****HD 214734 Cal1 of HD213306*****

HD213306CAL1E2E1.2014.10.24.05.30:

Fringes on VEGA. fringes at -1067.
10 blocks instead of 20.

Spectral calibration:

Red neutral density: 0.3
Red neutral density: 0.3

D_R2620.2014.10.24.05.40

CONFIGURATION: S1 S2 +PoP3 PoP4

Alignment on HD 214734
R0 is around 8cm.

V52 del cep HD 213306 (N. Nardetto) for 750nm

*****HD 214734 Cal1 of HD213306******

HD213306CAL1E2E1.2014.10.24.06.04:

Fringes on CLIMB very stable and nice. The peak on VEGA is very bright. fringes at -6100um. R0 is around 8cm. We put 10 blocks instead of 20.

UT: 06:51 Some problem on the server espgtk BC1. Reopen the server.

HD213306E2E1.2014.10.24.07.00:

Fringes on VEGA very fast. Nice and stable fringes on CLIMB.

We put 10 blocks instead of 20. fringes at -5508.

*****HD 214734 Cal1 of HD213306******

HD213306CAL1E2E1.2014.10.24.07.08:

Bright fringes on VEGA. fringes at -5738.

Spectral calibration:

Red neutral density: 2

Red neutral density: 0.3

D_R2750.2014.10.24.07.17

V52 del cep HD 213306 (N. Nardetto) for 700nm

*****HD 214734 Cal1 of HD213306******

HD213306CAL1E2E1.2014.10.24.07.22:

Fringes on CLIMB very stable and nice. The peak on VEGA is very bright.

R0 is around 8cm. We put 10 blocks instead of 20.

HD213306E2E1.2014.10.24.07.30:

fringes on VEGA. fringes on CLIMB.

Recording.

We put 10 blocks instead of 20. fringes at -5400.

*****HD 214734 Cal1 of HD213306******

HD213306CAL1E2E1.2014.10.24.07.38:

Bright fringes on VEGA. fringes at -5638.

Spectral calibration:

Red neutral density: 1.5

Red neutral density: 0.3

D_R2700.2014.10.24.07.47

V52 del cep HD 213306 (N. Nardetto) for 670nm

*****HD 214734 Cal1 of HD213306*****

HD213306CAL1E2E1.2014.10.24.07.53:

UT 7:57 recording. Fringes on CLIMB. The bright peak on VEGA.
R0 is around 7cm. We put 20 blocks.

HD213306E2E1.2014.10.24.08.06:

fringes on VEGA. fringes on CLIMB.

Recording. We put 20 blocks. fringes at -5264.

UT:8:12 S2 was looking the trees so unbalanced fluxes on block around 10. the finder is blocked. On the block 18 we lost S2. So calibration would be unreliable. Seeing is changing strange way but almost 6cm. S2 won't stay locked and Nic couldn't find fringes. So switch to another program.

Spectral calibration:

Red neutral density: 1.0

Red neutral density: 0.3

D_R2670.2014.10.24.08.27

CONFIGURATION: S1 S2 +PoP4 PoP3

We could not align pupils because the ISC was crashed, we reopen it but still we could not see pupils.

V00 zetaTau HD 37202 (No idea for whom (A. Meiland!!))

*****HD 36819 Cal1 of HD37202*****

HD37202CAL1S1S2.2014.10.24.08.35:

UT 7:57 recording. fringes at -6229. The bright peak on VEGA.
R0 is around 7cm. We put 10 blocks instead of 20 blocks.

HD37202S1S2.2014.10.24.09.02:

fringes at -6158. Very nice fringes. Lots of photons. We put 20 blocks instead of 30.

*****HD 36819 Cal1 of HD37202*****

HD37202CAL1S1S2.2014.10.24.09.11:

UT 7:57 recording. fringes at -6229. The bright peak on VEGA.
R0 is around 7cm. We put 10 blocks instead of 20 blocks.

D_R2656.2014.10.24.09.26

CONFIGURATION: E2 S2 W2 +PoP1 PoP5 PoP5

We use check star HD 35468 for alignment.

UT 10:00 There is a problem for the beam configuration. Nic is fixing it. R0 is almost 10cm.

This check star has very low visibility value, we don't have the third fringes 23. Switch to another check star HD 36861, which has upper visibility value. R0 is roughly 9cm. We were not in the good POP, so Nic had to correct it. So he changed E2-pop3 (changing to 1)/ S2-pop3(changing to 5)/W2-pop5

Off_sets:
S2: 5971
W2: -2462

CLIMB_B1=-0.59
CLIMB_B2=- 0.5

V43 Seismic HD 43587 (O. Creevey)

*****HD 46487 Call of HD 43587*****

HD 43587CAL1E2S2W2.2014.10.24.11.14:

The fringes on CLIMB are not so stable. R0 is dropping to 5cm. There are two peaks on VEGA but a bit faint.

HD 43587E2S2W2.2014.10.24.11.47:

fringes at 5795/-2566 on CLIMB. The peaks 23 and 12 were in the same position. We moved them in the right position. The two peaks are faint.

UT: 11:56 Recording. The fringe 23 is clear but 12 is really faint.

*****HD 46487 Call of HD 43587*****

HD 43587CAL1E2S2W2.2014.10.24.12.22:

R0 is dropping to 4cm.

UT 12:31 The peak 23 is very bright. But at the moment no peak 12.

fringes at 4891/-3072. We don't see the third peak.

UT 12:51 we see the faint third peak as well.

HD 43587E2S2W2.2014.10.24.12.55:

fringes at 4832/-3200. The fringes have moved. So we moved them in the right position.

We see just peak 23. We put 40 blocks instead of 60. The peak 12 was close to egret.

*****HD 46487 Cal1 of HD 43587*****

HD 43587CAL1E2S2W2.2014.10.24.13.30:

R0 is around 6cm.

Peak 23 is bright. Peak 12 is not seen. Fringes on CLIMB are pretty stable.

The end... time to sleep :p