

Night 2022-10-06, Norm-Narsi-Matt, Denis-Julien-Pierre

E1W2W1S2S1E2 (351214)

- Afternoon. On STS, fringes 23584/21170/13418/10346/6139. Huge difference on DL3. After INIT fringes are at 23586/17964/13276/10356/6138
- Engineering activities for the first part of the night.
- HD219080
 - S2S1E2 with tunable beacon, All LABAO, All TELAO ON (except W2)
 - Control:
 - dark 1000f, data 6000f images with TT
 - dark 1000f, data 6000f pupils
 - Science:
 - Dark science
 - Without TT: control (6000f) & science (1000f)
 - With TT: control & science
- Tests of the new method of computing the glass. The glass of the reference cart try to be at the middle of the stroke, but its position is adjusted to optimize the thickness of all the glasses. The management of the VLDC is set by the beams and not by the scopes. But they need the information from the scopes as the air path is related to the delay line of the scope. Now this is fixed in the new code by Narsi.
- UT5h00: gam Cas, HD5394 for continuing the work on dispersion and fringes with mircx/spica
- With the current settings of LDC we have a dispersion on S1S2. To remove it we should go exactly as if we were on STS. This is very strange.
- HD23302 which is in South to check the dispersion situation.

End of night, study of the law of refraction of the VLDC.

Sur STS, VLDC B4 à 5.55 et VLDC B5 à

1. 6.75 (pas de dispersion) opd 10378
2. 6.8 10370
3. 7.0 10330
4. 7.510234
5. 8.0 10138
6. 8.5 10058 10026 (bf-hf)
7. 9.0 9970 9922 (bf hf)
8. 10.0 9786 9722 (bf hf)

Validated by Cyril in terms of opd as a function of glass thickness.

Actual measurement of the prism of VLDC: horizontal length=50.15mm, thickness at edge: 2.15 & 12.
So: $\tan(\alpha)=(12-2.15)/50.15$ and $x=\sin(\alpha)$, vertical motion for 1mm in the direction of the hypotenuse of the prism. $X=193\mu\text{m}$. $\alpha=11.112^\circ$.

For the LDC

- ssh -Y observe@ople, cd /usr/local/bin
- spica_ople and spica_opletab
- configure in spica_opletab
- open and send and start
- in server : setldc puis refldc puis refvldc
- Be careful the ref position for ldc and vldc are set after autoled on
- Tsockman rm spica_ople
- (openldc and openvldc to be sure to have the communication with the hardware)