

Night 2022-10-09, Nic-Jeremy-Cyprien, Denis- Pierre

E1W2W1S2S1E2 (351214)

- Check with STS at our arrival. VLDC set at their STS position. Fringes STS ok at the following offsets: 23586 18152 13298 10348 6122; A small change on DL3 to be checked later.
- Check on MIRCX and MYSTIC also by Jeremy.
- Start of the whole alignment of scopes by Nic
- UT3h10: we start to slew to HD177724. MIRCX not yet ready as the internal offsets on STS have been lost. After recovery, Jeremy start scanning for fringes. Many issues with OPLE and LDC.
- UT 4h30: fringes on HD177724, S1S2 Offset MIRCX 0.048. Fringes dispersed, DL5=10058. After correcting VLDC\_S1/B5 by 1.8mm fringes are OK and DL5=9722. So -620 $\mu$ m from the STS.
- Go to W2W1 with gam Cas. Fringes on MIRCX ok. We start to scan on SPICA but no luck. We go on STS and fringes have been shifted by 6mm (fringes at 24000). INIT DL3 and then fringes at the right position on STST 17958. Fringes MR and LR 21606. No additional correction necessary with the current precision. So +3650 $\mu$ m for B3W1 with respect to B2W2.
- UT5h50, start with W2S2. Different scans over the whole stroke of the delay lines but no fringes are found.... Check with STS at the end and everything is ok
- UT 7h00 we try now on W2E2. Nothing found again. Clouds are coming. New scan in LR but clouds come back
- UH8h45 we close the telescopes as the humidity is growing.
- Fiber explorer made on STS. It works very well.
  - B1: 152.3 21.3
  - B2: 194.9 19.4
  - B3: 233.6 22.3
  - B4: 271.5 20.4
  - B5: 311.7 19.8
  - B6: 350.4 21.7
  - Reference.dat updated on spica-control.
  - Kappa is ok in LR.
- UT9h00 we reopen. But nothing to do....
- UT 10h00 HD35468 on E1E2. The STS has been retested and again the position of the DL are wrong (real pos on B6 is not correct). So reinit and finally 23586/17953/13270/10352/6130 . Adjustment of the PDC6 to optimize the contrast on the STS fringes. PDC6 set at 78.615.
- Fringes found at -6.1 on MIRCX. Scan with 64 $\mu$ m starting at 9200 on DL6.
- Fringes SPICA at 10480 but faint and dispersion.... The good point is that there are exactly at the expected position STS+4400.... Optimisation of the dispersion now. VLDC6 changed from 10.98 to 6.5mm so necessary to remove glass on E2/B6 with respect to E1/B1, so 860 $\mu$ m of glass. Optimisation of PDC6 gives 78.86 as a better result.
- UT 12h00 spica-ft now