Night 2022-10-07, Norm-Jeremy, Denis-Julien-Pierre

E1W2W1S2S1E2 (351214)

For the LDC

- ssh -Y observe@ople, cd /usr/local/bin
- spica_ople and spica_opletab
- configure in spica_opletab
- stop and send and start
- in server : setldc puis refldc puis refvldc
- Be careful the ref position for ldc and vldc are set after autoldc on
- Autoldc on
- Tsockman rm spica_ople
- (openldc and openvldc to be sure to have the communication with the hardware)
- STOP, SEND, START
- Autoldc offwhen changing the star and on rapidly before fringe search

- UT2h00: start with Deneb S1S2. Fringes locked on MIRCX, LDC and VLDC active. Fringes are dispersed. DL5=9738 after correction of dispersion. VLDC5 (S1) from 15.00 to 16.8 for correcting the dispersion. +2.1m sur S2. No evolution of the fringes on SPICA after 15mn
- UT3h30: gam Cas S1S2 again. DL5=10090 but dispersion. VLDC(S2S1) 13.77/12.7- corDL4=-406 S2-S1=12m. Fringes corrected. DL5=9690. VLDC 13.77/14.8
- UT4h20 gam Cas W1W2. Fringes with DL3=17500 and corchro DL3=-482. Fringes with no dispersion! 12.84/15.67. Fringes with SPICA are stable. Now corchro = -520 (10mn after the first indication) and fringes are well centered on SPICA. Great!
- UT 5h15 gam Cas S1S2. Fringes 10090 with LDC as in the model. Dispersion as before. 12.9 to 15 on VLDC5. Fringes without dispersion at 9698
- UT5h30 alpha Peg S1S2. Dispersion as before, fringes at the same position DL5 10082 with corchro 513. On DL4. VLDC45 10.928/15.000. Fringes without dispersion at 16.7 and DL5=9746.
- UT6h00 alpha Peg W1W2. Fringes DL3 17484, corChro -1346 Fringes almost without dispersion. It would be good to have the possibility of adding some offsets in the VLDC on top of the automatic law. This will help in finely tuning the correction of dispersion. Maybe a small drift in position but very small (less than 10µm in 30mn). UT6h30 DL3 17484, corchro -1593
- UT6h40 gam Cas again on W1W2 fringes at DL3=17372 and corchro -1297. Hard to say the situation of chromatism but the presence of fringes at the expected position is very encouraging. We tried for a long time to check the fringes but without success. It turns out that the VLDC were out of stroke, so we lost the opd and we lost the fringes. And we were also out of stroke on the LDC…. At the end 17468 and -1664.
- UT8h10 E2W2 now on gam Cas again….no chances despite quite good fringes on MIRCX and good settings of the LDCs
- UT9h50 we continue to E1E2. No chance either in MR or LR.
- UT10h40: We try to set everything like in July, which means without the VLDC but just the LDC and by scanning. No successs
- UTH11h00: HD35468, S1S2 first just to check DL5 12018 and corchro 703 on DL4. Dispersion and then compensation with +1.5mm on VLDC5 and offset 11730.

- Then E1E2 but no chances.
- UT12h00 we go on STS. Many issues on DL. After a reinit everything ok except DL6. Julien goes in the lab for forcing the INIT. After the INIT DL6 is not correctly in place. A second init is ok. After a hard blocking two INIT are necessary. Fringes STS ok at the end.
- UT13h New try with E1E2 but no chances tonight