From kmd@ing.iac.es Fri Nov 12 15:25:57 1999
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Subject: Re: INGRID PROGRAMME

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Test Information.

Filterwheel one.
Test 1. Filterwheel repeatability between filter moves and datum.
Datum Filterwheel.
Move to position 6.
Use alignment telescope locate and fix reference point.
Move between 4 filter locations. Return to reference point.
Datum Filterwheel repeat test maintaining same reference point.
Results
Repeatability of Filterwheel one in this short test is better than 50 microns. Using the alignment telescope I could see no discrepancy.

Same test was repeated for filterwheel two. Filterwheel two was noisy and when datuming was missing steps. Decided to leave and inspect when opened up.

Pupil Stop not tested.

Work required for next cooldown.
Inspect filterwheels and pupil stop mechanisms. Repair as necessary.
Filterwheel one backlash when warm to be translated to the other two wheels.
Install filters and pupil stops.
Install dummy filters and holders with index marking and central point.
Fit dummy disk with 0.5mm hole in.
Change software so filterwheel changes take the shortest route.
Datum. Insert new command that moves wheel fast until datum switch operates then invoke the datum routine.

Lens 1A
Test to thermally cycle and shock lens 1A in test alignment cryostat.
Fit lens 1A in lens barrel and seal inside test cryostat.
LN2 filling for 2 hours, kept cold for a further hour. Nitrogen can no longer boiling off (only natural boil off).
Cryostat dropped from 3cm.
Cryostat shaken.
Nitrogen poured out of can and a nitrogen purge put on.
Cryostat left over night to warm up.
Results.
No damage to lens is evident.

Next step.
Check vacuum of cryostat.
Set test cryo with lens 3&4.
Set up in optics lab.
Cool down and record.

Other work required.
Pupil stop lens aligned.

Fore optics need building.
Tube to bridge filterwheel to CCD box.

Paul Jolley to co-ordinate test cryo work. Fore optics and pupil imager.
Kevin Dee will co-ordinate INGRID internal work.

Kevin Dee