DAY 5 **Day 03 may (123)** **Ewout/Bernard**		**Theme: check FIERA filter settings**		
Seq	**Local time**	**Activity**	**Comment**	
			Note that the Toelner stabilized power supply was replaced with a spare yesterday.	
Flat123 1	7:20	Twilight flats r'	First exposure is 2s test (template does this)	
Flat123 2-3	7:22	Twilight flats r'	Template keeps saying more than 60s predicted T exp is bad.	
Flat123 4-7	7:26	Twilight flats r'	First prediction > 60s. Looks like template is then messed up. Prediction too high, repeatedly. Then uses 60s, and the counts go up as expected.	
Flat123 8-13	7:34	Twilight flats g'	Finally, a good sequence	
Bias123 1-2	7:59	Readnoise		
Bias123 3-12	8:01	Bias		
	8:11	Quick check	Error during calibration lamp start	
Flat123 14	8:27	Quick check		
Flat123 15-16	8:31	Gain (z')	Aborted because we want higher maximum exposure time/level	
Flat123 17-20	8:35	Gain (z')	Also aborted: 4.5s saturates on several CCDs	

Flat123 21-40	8:40	Gain (z')	Maximum exptime 4.3s.	
	9:00	Dark 3x 1800s	Aborted because people entered dome and turned on lights	

	16:00	Meeting	– Bernard:
			  – Shimmed instrument is taped off to reduce light leaks. Check with domeflat with opaque filter.
			– Koen:
			  – Provide result of tilt determination to Lothar Noethe, who must also be given explicit time to work on correcting the leftover telescope tilt.
			  – Focus offsets for filters change over time. Automatic focussing with SH will prove helpful.
			  – There is a general focus offset due to bell-shape of focal plane. Offset of focus determined in center of mosaic by 1 unit.
			– Olaf:
			  – Could change videoboard to no filtering at all, which could be better
			– Andrea:
			  – Autoguiding
			  – Twilight flats
			– Edwin:
			  – Twilight flats: we need more flats
			  – 19:10u start of dusk twilight, 7:10u start of dawn twilight	

			– Take B,V flats in morning (they are coloured glass filters, rather than interference filters). – Person from software group: – disks of IWS can be upgraded, when there is time (takes 2hrs)	

NIGHT 5 **Night 03/04 may (123/124) Ewout/John/Koen/Edwin**		**Theme: one quadrant set to no filtering, more guiding tests, extensive set of photometric observations, deep observations of Abel 2029** **conditions: clear, good seeing**		
Seq	**Local time**	**Activity**	**Comment**	
Flat123 41-52	19:15	Sky flats in u	Testing automated template	
Flat123 53-58	19:40	Sky flats in r	Testing automated template	
Flat123 59	19:55	Sky flat in z	Testing automated template	
Obs123 56-58	20:15	Guiding testing		
Obs124 1-3	21:05	Pre-focus exposures in u 7 sec	Field Quality 1	
Focus124 1	21:15	Focus sequence in u 7 sec	Field Quality 1	
Obs124 4	21:20	Pre-focus exposure in u 7 sec	Field Quality 1	
Focus124 2	21:20	Focus sequence in u 7 sec	Field Quality 1	
Obs124 5	21:35	Pre-focus exposure in u 7 sec	Field Quality 1	
Focus124 3	21:35	Focus sequence in u 7 sec	Field Quality 1	
Obs124 6	21:40	Pre-focus exposure in u 7 sec	Field Quality 1	

Obs1243	22:15	Pre-focus exposure in u 7 sec	Field Quality 1 Unknown reason why index 3 was repeated	
Focus1241	22:15	Focus sequence in u 7 sec	Field Quality 1 Unknown reason why index 1 was repeated	
Obs1244-11	22:35	Guiding testing		
Std1241	00:50	ZP template of SA107 in ugri 80 sec	Be sure to set bright stars within a CCD to avoid unpredictable reflections	
Std1242	00:55	ZP template of SA107 in u 115 sec		
Std1243	01:00	ZP template of SA107 in g 60 sec		
Std1244	01:00	ZP template of SA107 in r 75 sec		
Std1245	01:05	ZP template of SA107 in i 115 sec		
Std1246	01:10	ZP template of SA107 in z 115 sec		
Obs12413-16	01:15	Stare templates of SA107 in g 60 sec	Checking crosstalk on FIERAs by offsetting 0 225 1575 225 arcsec (own made OB)	
Obs12417	01:35	Pre-focus exposure on polar field in r 7 sec		
Focus1242	01:35	Focus template on polar field in r 7 sec		
Std1247	01:40	Monit template on polar field in ugri 100 sec	Do key bands, both composite and monolithic	
Std1248	01:45	ZP template on polar field in u 115 sec		

Std124 9	01:50	ZP template on polar field in g 60 sec		
Std124 10	01:55	ZP template on polar field in r 75 sec		
Std124 11	02:00	ZP template on polar field in i 115		
Std124 12	02:00	ZP template on polar field in z 115		
Obs124 18	02:05	Slightly defocused stare at polar field	Testing if UT4 occults the polar field for VST	
Obs124 19	02:25	Pre-focus exposure in r 7 sec	Move to SA110	
		Focus sequence in r 7 sec	Aborted due to poor focus value selection	
Focus124 3	02:25	Focus sequence in r 7 sec		
Std124 13-18	02:30	ZP templates on SA110 in the same way as Std124 7-12		
Obs124 20	03:05	Pre-focus exposure in r 7 sec	Move to Abel2029	
Focus124 4	03:05	Focus sequence in r 7 sec		
Obs124 21-25	03:15	Jitter template in g 300 sec, n=5, step size 25/25	Dither template broken, using jitter template	
Obs124 26-30	03:45	Jitter template in g 300 sec, n=5, step size 25/25	Offset 85 arcsec N	
Obs124 31-35	04:20	Jitter template in g 300 sec, n=5, step size 25/25	Offset 400 arcsec N	

Std124 19-24	05:00	ZP templates on SA110 in the same way as Std124 7-12	Move to SA110. Some images out of focus.	
Obs124 36	05:20	Pre-focus exposure in r 7 sec		
Focus124 5	05:20	Focus sequence in r 7 sec		
Obs124 37	05:30	Stare template in r 15 sec	For use with astrometric solution of auto guide and image analysis CCDs	
	05:35	Ocmag acq template in r 15 sec	NOT IN ARCHIVE	
	05:35	Ocmia acq template in r 15 sec	NOT IN ARCHIVE	
Obs124 38-42	05:50	Jitter template in r 300 sec, n=5, step size 25/25	Move to NGC 6822	
Obs124 43-47	06:20	Jitter template in r 300 sec, n=5, step size 25/25	Offset 85 arcsec N and W	
Std124 25-29	05:00	ZP templates on polar in the same way as Std124 7-12	Move to polar field.	

OCAM 1B

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