



10825 - The Formation Epoch of Early-type Galaxies: Constraints from the Fundamental Plane at $z=1.3$

Cycle: 15, Proposal Category: GO

(Availability Mode: SUPPORTED)

INVESTIGATORS

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VISITS

<i>Visit</i>	<i>Targets</i>	<i>Configurations</i>	<i>Orbits Used</i>	<i>Last Orbit Planner Run</i>	<i>OP Current with Visit?</i>
01	ANY (1) GAL-084849+445157	ACS/WFC NIC2	1	01-Aug-2006 22:01:47.0	yes
02	ANY (2) GAL-084856+445128	ACS/WFC NIC2	1	01-Aug-2006 22:01:53.0	yes
03	ANY (3) GAL-084850+445202	ACS/WFC NIC2	1	01-Aug-2006 22:01:57.0	yes

Proposal 10825 - Overview

<i>Visit</i>	<i>Targets</i>	<i>Configurations</i>	<i>Orbits Used</i>	<i>Last Orbit Planner Run</i>	<i>OP Current with Visit?</i>
04	ANY (4) GAL-084843+445519	ACS/WFC NIC2	1	01-Aug-2006 22:02:01.0	yes
05	ANY (5) GAL-084911+445127	ACS/WFC NIC2	1	01-Aug-2006 22:02:05.0	yes
06	ANY (6) GAL-084849+445416	ACS/WFC NIC2	1	01-Aug-2006 22:02:09.0	yes
07	ANY (7) GAL-084859+445139	ACS/WFC NIC2	1	01-Aug-2006 22:02:13.0	yes
08	ANY (8) GAL-084905+445204	ACS/WFC NIC2	1	01-Aug-2006 22:02:16.0	yes
09	ANY (9) GAL-084900+445251	ACS/WFC NIC2	1	01-Aug-2006 22:02:20.0	yes
10	ANY (10) GAL-084910+445016	ACS/WFC NIC2	1	01-Aug-2006 22:02:24.0	yes
11	ANY (11) GAL-084855+445205	ACS/WFC NIC2	1	01-Aug-2006 22:02:28.0	yes
12	ANY (12) GAL-084911+445157	ACS/WFC NIC2	1	01-Aug-2006 22:02:32.0	yes

12 Total Orbits Used

ABSTRACT

Field and cluster surveys both show a ~50% decrease in the number of early-type galaxies at redshifts near 1. Galaxies that have either recently transformed into early-types or undergone star formation should have younger appearing stellar populations. The resulting change in the mass-to-light ratio can be detected by the offset in the fundamental plane with redshift. We will use the fundamental plane to test whether a significant

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fraction of early-type galaxies have evidence of recent star formation, using a sample of ~ 20 $z=1.3$ cluster and field early-type galaxies. This is 7 times larger than the sample previously used at this redshift. We already have the high signal-to-noise 12-20 hour long Keck spectra for these galaxies we need for velocity dispersions. To use the fundamental plane, we require sizes and surface brightnesses. We propose 12 orbits of NICMOS Camera 2 imaging to measure the sizes and surface brightness distributions of these objects in a rest-frame optical passband. These data will provide high quality surface brightness profiles out to ~ 2 half-light radii, at wavelengths comparable to previous fundamental plane studies. When combined with our spectra, the HST data will establish the mass-to-light ratio evolution for massive early-type galaxies from the fundamental plane. We will define the epoch of last star formation for these $z=1.3$ galaxies, directly testing the claims of strong evolution at $z=1$.

OBSERVING DESCRIPTION

The goal our observations are size and surface brightness measurements of galaxies at $z=1.1 - 1.3$ in the rest-frame optical. Our total sample has 23 $z>1$, 7 field and 16 cluster, galaxies, of which four already have NICMOS Camera 3 imaging. Four galaxies in our field sample lie at low enough redshifts, $z=1.1$, that we can use the ACS F850LP imaging to measure the structural parameters. We will target the remaining sixteen $z=1.3$ galaxies with the F160W filter. In addition to near-infrared imaging, the profiles of the objects should be well sampled. Therefore, we elect to use NICMOS with Camera 2 and the F160W filter. This combination delivers diffraction limited imaging at the most sensitive wavelengths for the NICMOS. The pixel scale, 0.075" per pixel will sample the half light radius with at least two pixels. van Dokkum & Stanford (2003) and Holden et al. (2004) both showed that reliable half-light radii and surface brightness values can be determined using NICMOS Camera 3 imaging. However, that was during a special Cycle 7N campaign where

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the telescope focused specifically for Camera 3. Currently, Camera 3 has much poorer resolution. Therefore, we select Camera 2 as it should provide sufficient resolution combined with good sampling.

Because of the high efficiency of NICMOS, we will require only 1 orbit to obtain sufficient signal-to-noise, ≥ 1 per pixel at two half-light radii for all our sample. We compute these signal-to-noise estimates by using the observed sizes and surface-brightnesses from the F850LP filter, roughly the rest-frame U, and extrapolating into F160W filter. The U band surface brightness could be an over-estimate for objects with recent star-formation, which will lower our signal-to-noise to ~ 1 per pixel, which is sufficient for our measurements.

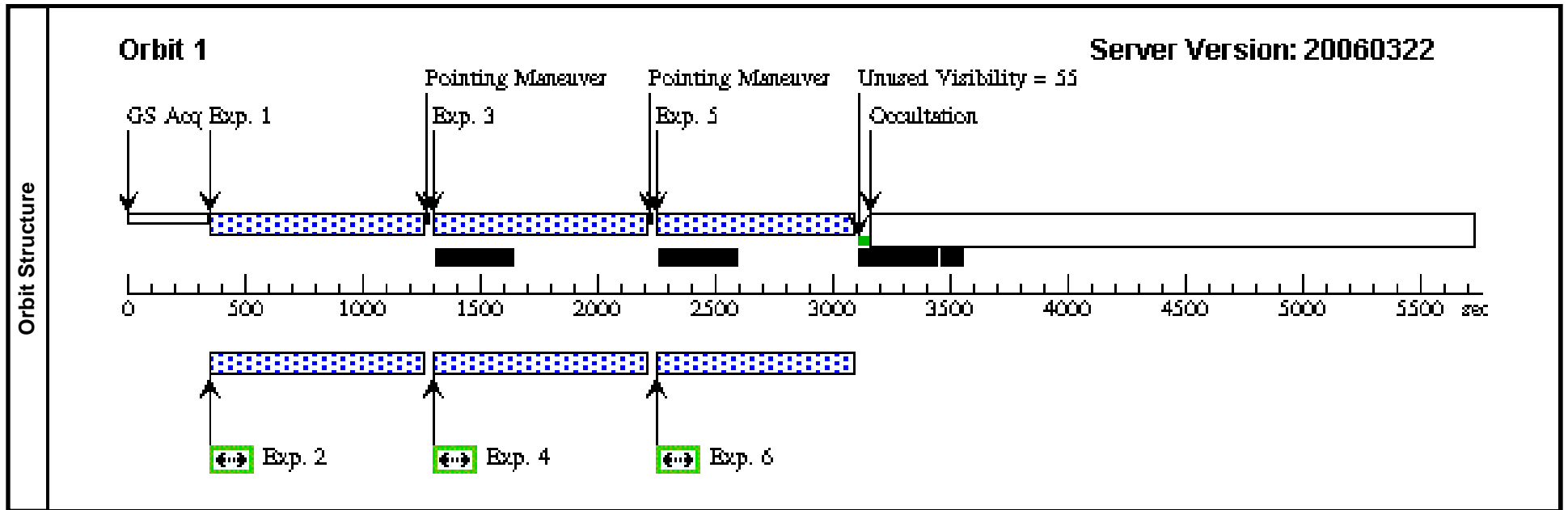
ADDITIONAL COMMENTS

We request that our data be observed in non-SAA impacted orbits. NICMOS has a known defect after SAA passage where the noise is increased. This can be partially or completely corrected for Camera 3, but Camera 2 is particularly impacted (see Figure 26 and 27 of Appendix C of NICMOS ISR 2003-010: Removal of Cosmic Ray persistence from Science Data using Post-SAA Darks by Bergeron and Dickinson). As a given target will be only observed once, we cannot average over the occasional noisy orbit and our science program requires measuring low surface brightness emission.

Proposal 10825 - Visit 01 - The Formation Epoch of Early-type Galaxies: Constraints from the Fundamental Plane at z=1.3

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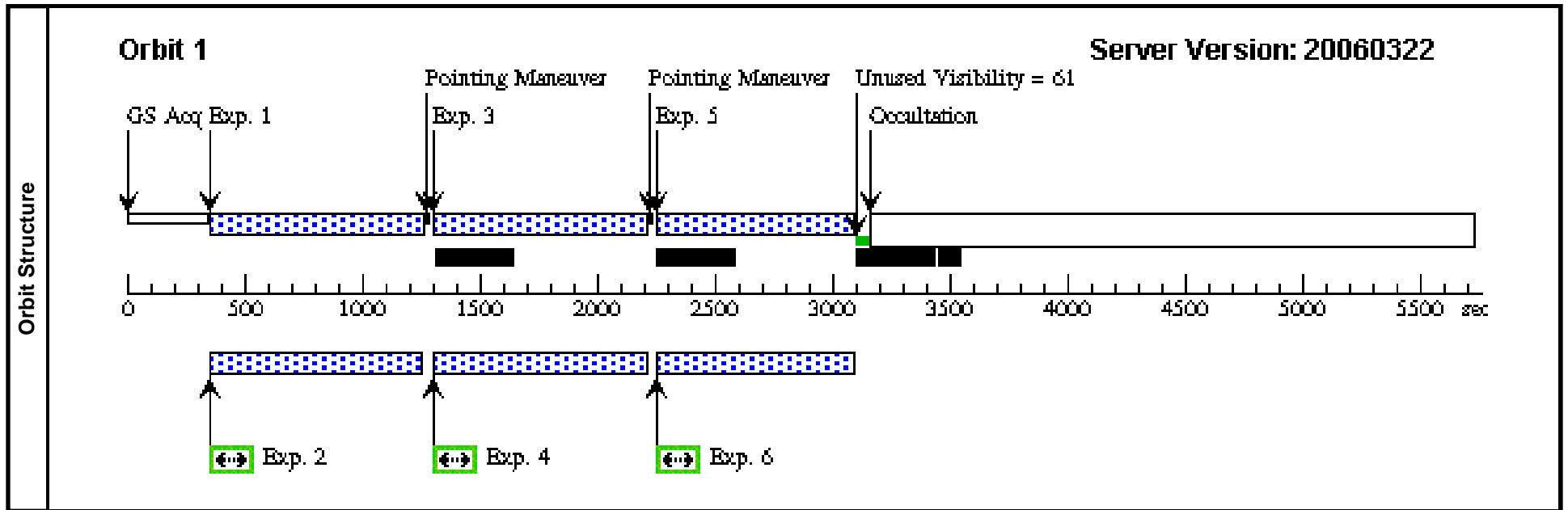
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#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous					
(1)	GAL-084849+445157	RA: 08 48 58.6100 (132.2442083d) Dec: +44 51 58.27 (44.86619d) Equinox: J2000		V=25.4+/-0.1 z=21.80	Reference Frame: ICRS					
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(1) GAL-084849+445157	NIC2, MULTIACCUM, NIC2-FIX	F160W	SAMP-SEQ=SPARS 64; NSAMP=16	POS TARG 3.839,4.297; GS ACQ SCENARI O BASE1TNS	Prime + Parallel Group 1-2	[==>]	[1]
	2	ANY		ACS/WFC, ACCUM, WFC-FIX	F814W	CR-SPLIT=NO; GAIN=2		Prime + Parallel Group 1-2	400.0 Secs [==>705.0 Secs]	[1]
	3		(1) GAL-084849+445157	NIC2, MULTIACCUM, NIC2-FIX	F160W	SAMP-SEQ=SPARS 64; NSAMP=16	POS TARG 4.294,-3.805	Prime + Parallel Group 3-4	[==>]	[1]
	4	ANY		ACS/WFC, ACCUM, WFC-FIX	F814W	CR-SPLIT=NO; GAIN=2		Prime + Parallel Group 3-4	400.0 Secs [==>785.0 Secs]	[1]
	5		(1) GAL-084849+445157	NIC2, MULTIACCUM, NIC2-FIX	F160W	SAMP-SEQ=SPARS 64; NSAMP=15	POS TARG -3.794,-4.334	Prime + Parallel Group 5-6	[==>]	[1]
6	ANY		ACS/WFC, ACCUM, WFC-FIX	F814W	CR-SPLIT=NO; GAIN=2		Prime + Parallel Group 5-6	400.0 Secs [==>721.0 Secs]	[1]	



Proposal 10825 - Visit 02 - The Formation Epoch of Early-type Galaxies: Constraints from the Fundamental Plane at z=1.3

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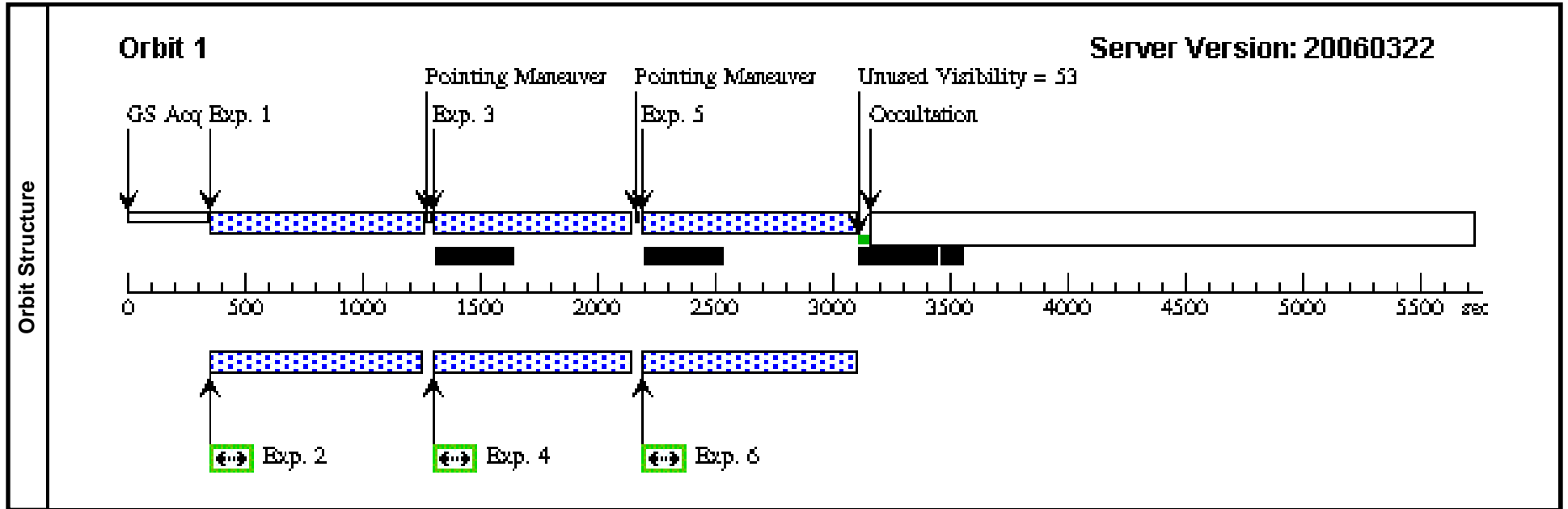
Visit	Proposal 10825, Visit 02									
	Diagnostic Status: No Diagnostics									
Scientific Instruments: ACS/WFC, NIC2										
Special Requirements: SCHED 70%; ORIENT 280.0D TO 300.0 D										
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
		(2)	GAL-084856+445128	RA: 08 48 56.2700 (132.2344583d) Dec: +44 51 27.69 (44.85769d) Equinox: J2000		V=26.7+/-0.4 z=22.28	Reference Frame: ICRS			
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(2) GAL-084856+445128	NIC2, MULTIACCUM, NIC2-FIX	F160W	SAMP-SEQ=SPARS 64; NSAMP=16	POS TARG 1.92,-2.149; GS ACQ SCENARI O BASE1TNS	Prime + Parallel Group 1-2	[==>]	[1]
	2		ANY	ACS/WFC, ACCUM, WFC	F814W	CR-SPLIT=NO; GAIN=2		Prime + Parallel Group 1-2	700.0 Secs [==>]	[1]
	3		(2) GAL-084856+445128	NIC2, MULTIACCUM, NIC2-FIX	F160W	SAMP-SEQ=SPARS 64; NSAMP=16	POS TARG -2.147,1.903	Prime + Parallel Group 3-4	[==>]	[1]
	4		ANY	ACS/WFC, ACCUM, WFC	F814W	CR-SPLIT=NO; GAIN=2		Prime + Parallel Group 3-4	700.0 Secs [==>785.0 Secs]	[1]
	5		(2) GAL-084856+445128	NIC2, MULTIACCUM, NIC2-FIX	F160W	SAMP-SEQ=SPARS 64; NSAMP=15	POS TARG -1.897,-2.167	Prime + Parallel Group 5-6	[==>]	[1]
	6		ANY	ACS/WFC, ACCUM, WFC	F814W	CR-SPLIT=NO; GAIN=2		Prime + Parallel Group 5-6	700.0 Secs [==>721.0 Secs]	[1]



Proposal 10825 - Visit 03 - The Formation Epoch of Early-type Galaxies: Constraints from the Fundamental Plane at z=1.3

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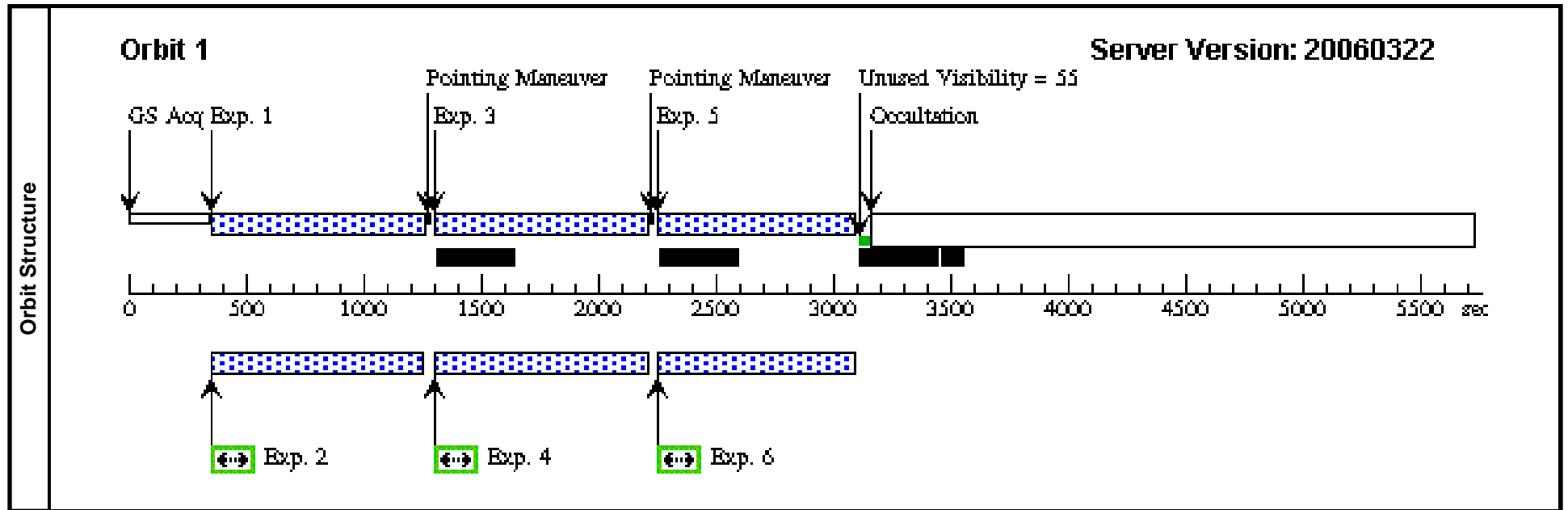
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Scientific Instruments: ACS/WFC, NIC2										
Special Requirements: SCHED 70%										
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		(3)	GAL-084850+445202	RA: 08 48 49.9900 (132.2082917d) Dec: +44 52 1.63 (44.86712d) Equinox: J2000		V=27.2+/-0.6 z=22.49	Reference Frame: ICRS			
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(3) GAL-084850+445202	NIC2, MULTIACCUM, NIC2-FIX	F160W	SAMP-SEQ=SPARS 64; NSAMP=16	POS TARG 3.839,4.297; GS ACQ SCENARI O BASE1TNS	Prime + Parallel Group 1-2	[==>]	[1]
	2		ANY	ACS/WFC, ACCUM, WFC	F814W	CR-SPLIT=NO; GAIN=2		Prime + Parallel Group 1-2	700.0 Secs [==>]	[1]
	3		(3) GAL-084850+445202	NIC2, MULTIACCUM, NIC2-FIX	F160W	SAMP-SEQ=SPARS 64; NSAMP=15	POS TARG -3.794,-4.334	Prime + Parallel Group 3-4	[==>]	[1]
	4		ANY	ACS/WFC, ACCUM, WFC	F814W	CR-SPLIT=NO; GAIN=2		Prime + Parallel Group 3-4	700.0 Secs [==>721.0 Secs]	[1]
	5		(3) GAL-084850+445202	NIC2, MULTIACCUM, NIC2-FIX	F160W	SAMP-SEQ=SPARS 64; NSAMP=16	POS TARG 4.294,-3.805	Prime + Parallel Group 5-6	[==>]	[1]
	6		ANY	ACS/WFC, ACCUM, WFC	F814W	CR-SPLIT=NO; GAIN=2		Prime + Parallel Group 5-6	700.0 Secs [==>785.0 Secs]	[1]



Proposal 10825 - Visit 04 - The Formation Epoch of Early-type Galaxies: Constraints from the Fundamental Plane at z=1.3

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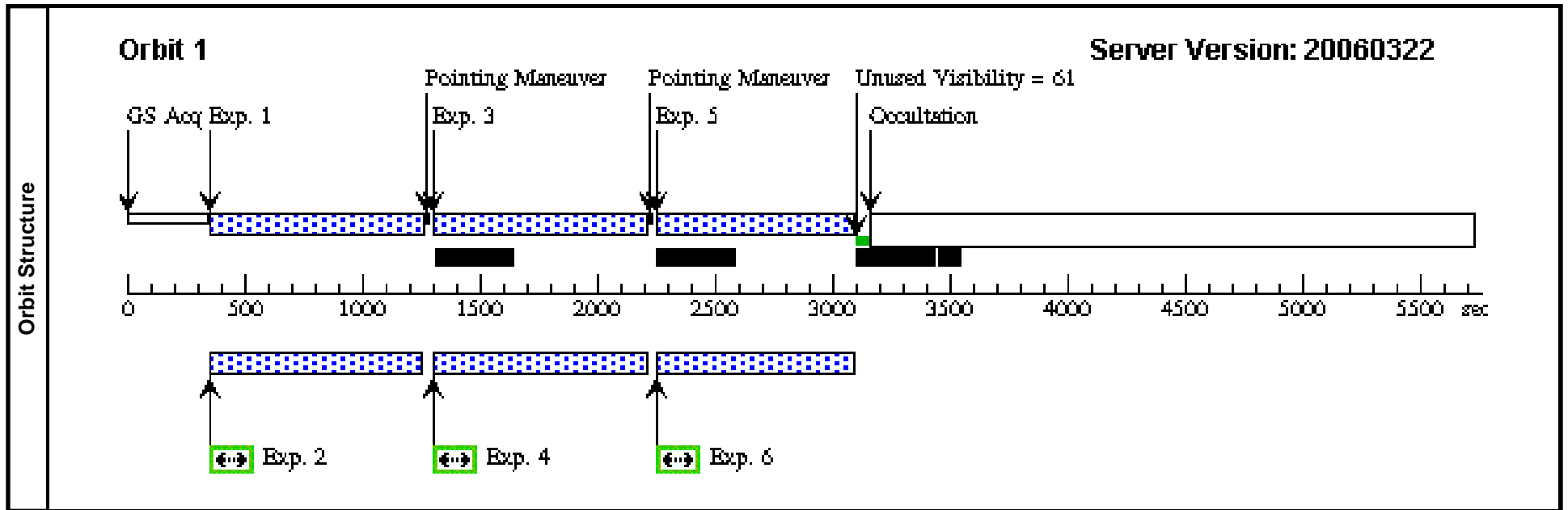
Visit		Proposal 10825, Visit 04 Diagnostic Status: No Diagnostics Scientific Instruments: ACS/WFC, NIC2 Special Requirements: SCHED 70%									
Fixed Targets		#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
Exposures		1	(4) GAL-084843+445519	RA: 08 48 42.9700 (132.1790417d) Dec: +44 55 18.01 (44.92167d) Equinox: J2000		V=27.0+/-0.6 z=22.33	Reference Frame: ICRS				
		#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
				(4) GAL-084843+445519	NIC2, MULTIACCUM, NIC2-FIX	F160W	SAMP-SEQ=SPARS 64; NSAMP=16	POS TARG 3.839,4.297; GS ACQ SCENARIO BASE1TNS	Prime + Parallel Group 1-2	[==>]	[1]
			2	ANY	ACS/WFC, ACCUM, WFC	F814W	CR-SPLIT=NO; GAIN=2		Prime + Parallel Group 1-2	700.0 Secs [==>]	[1]
			3	(4) GAL-084843+445519	NIC2, MULTIACCUM, NIC2-FIX	F160W	SAMP-SEQ=SPARS 64; NSAMP=16	POS TARG 4.294,-3.805	Prime + Parallel Group 3-4	[==>]	[1]
			4	ANY	ACS/WFC, ACCUM, WFC	F814W	CR-SPLIT=NO; GAIN=2		Prime + Parallel Group 3-4	700.0 Secs [==>785.0 Secs]	[1]
	5	(4) GAL-084843+445519	NIC2, MULTIACCUM, NIC2-FIX	F160W	SAMP-SEQ=SPARS 64; NSAMP=15	POS TARG -3.794,-4.334	Prime + Parallel Group 5-6	[==>]	[1]		
	6	ANY	ACS/WFC, ACCUM, WFC	F814W	CR-SPLIT=NO; GAIN=2		Prime + Parallel Group 5-6	700.0 Secs [==>721.0 Secs]	[1]		



Proposal 10825 - Visit 05 - The Formation Epoch of Early-type Galaxies: Constraints from the Fundamental Plane at z=1.3

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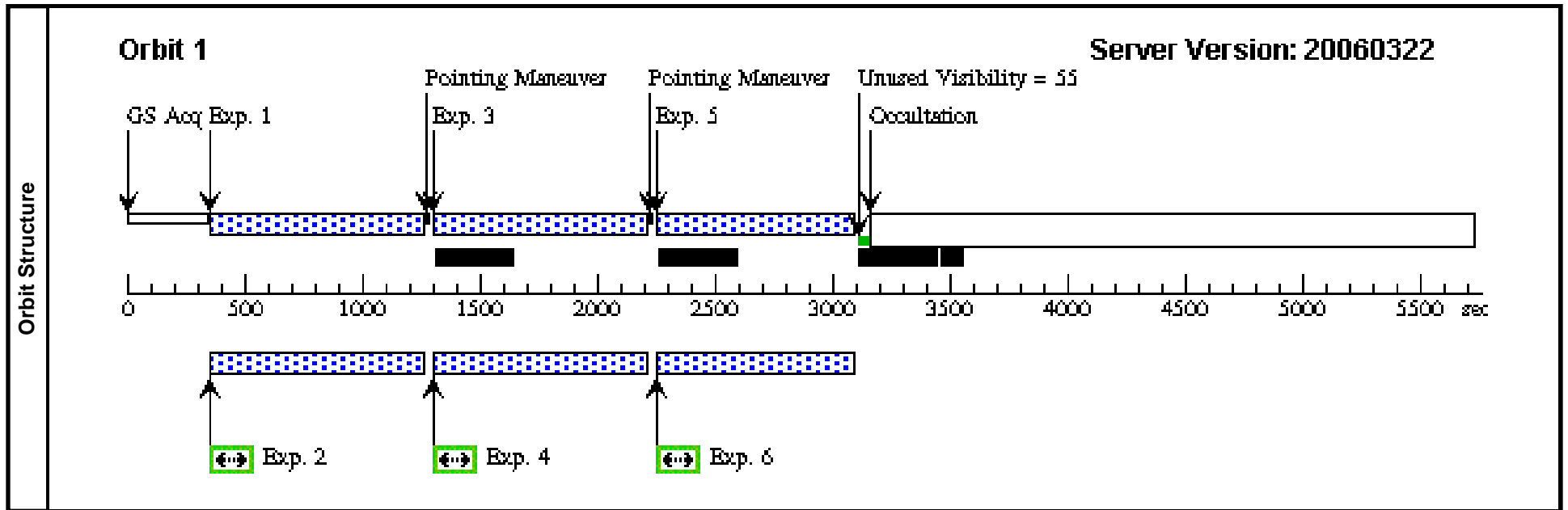
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Fixed Targets		#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
Exposures		1	(5) GAL-084911+445127	RA: 08 49 11.2600 (132.2969167d) Dec: +44 51 27.10 (44.85753d) Equinox: J2000		V=26.3+/-0.7 z=21.23	Reference Frame: ICRS				
		#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
		1		(5) GAL-084911+445127	NIC2, MULTIACCUM, NIC2-FIX	F160W	SAMP-SEQ=SPARS 64; NSAMP=16	POS TARG -1.92,2.1485; GS ACQ SCENARI O BASE1TNS	Prime + Parallel Group 1-2	[==>]	[1]
		2	ANY		ACS/WFC, ACCUM, WFC	F814W	CR-SPLIT=NO; GAIN=2		Prime + Parallel Group 1-2	700.0 Secs [==>]	[1]
		3		(5) GAL-084911+445127	NIC2, MULTIACCUM, NIC2-FIX	F160W	SAMP-SEQ=SPARS 64; NSAMP=16	POS TARG 2.147,-1.903	Prime + Parallel Group 3-4	[==>]	[1]
		4	ANY		ACS/WFC, ACCUM, WFC	F814W	CR-SPLIT=NO; GAIN=2		Prime + Parallel Group 3-4	700.0 Secs [==>785.0 Secs]	[1]
5		(5) GAL-084911+445127	NIC2, MULTIACCUM, NIC2-FIX	F160W	SAMP-SEQ=SPARS 64; NSAMP=15	POS TARG -1.897,-2.167	Prime + Parallel Group 5-6	[==>]	[1]		
6	ANY		ACS/WFC, ACCUM, WFC	F814W	CR-SPLIT=NO; GAIN=2		Prime + Parallel Group 5-6	700.0 Secs [==>721.0 Secs]	[1]		



Proposal 10825 - Visit 06 - The Formation Epoch of Early-type Galaxies: Constraints from the Fundamental Plane at z=1.3

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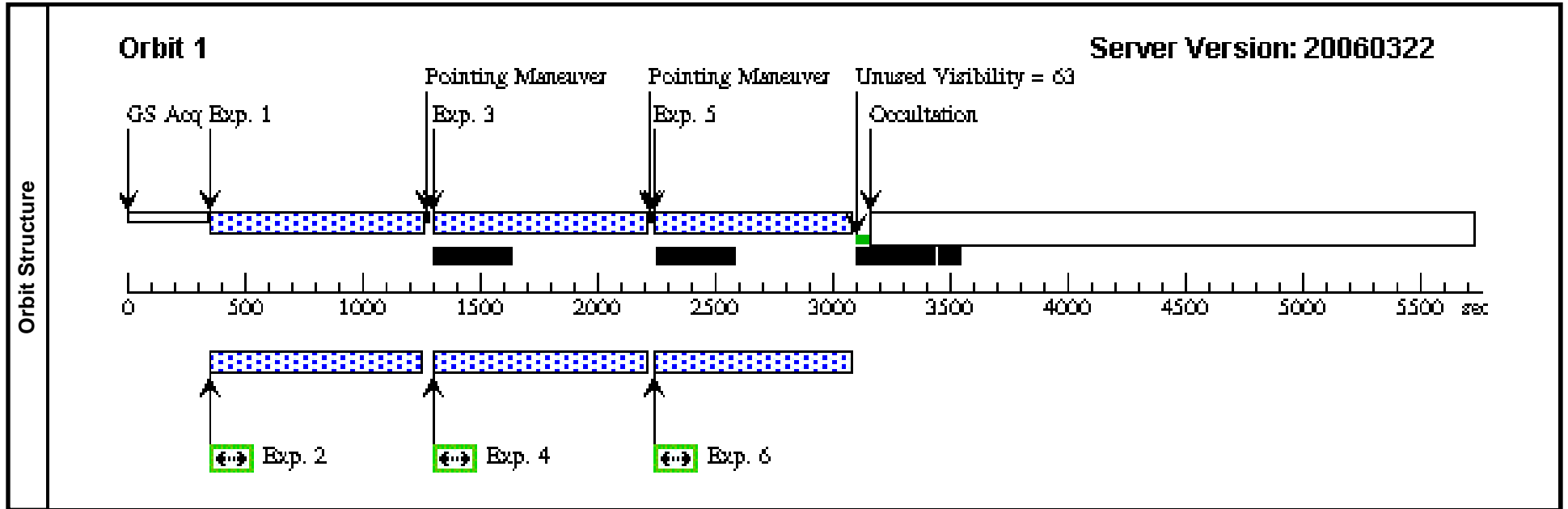
Visit	Proposal 10825, Visit 06									
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Special Requirements: SCHED 70%										
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
		(6)	GAL-084849+445416	RA: 08 48 49.2730 (132.2053042d) Dec: +44 54 15.85 (44.90440d) Equinox: J2000		V=26.6+/-0.3 z=22.06	Reference Frame: ICRS			
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(6) GAL-084849+44 5416	NIC2, MULTIACCUM, NIC2-FIX	F160W	SAMP-SEQ=SPARS 64; NSAMP=16	POS TARG 3.839,4. 297; GS ACQ SCENARI O BASE1TNS	Prime + Parallel Gro up 1-2	[==>]	[1]
	2		ANY	ACS/WFC, ACCUM, WFC	F814W	CR-SPLIT=NO; GAIN=2		Prime + Parallel Gro up 1-2	700.0 Secs [==>705.0 Secs]	[1]
	3		(6) GAL-084849+44 5416	NIC2, MULTIACCUM, NIC2-FIX	F160W	SAMP-SEQ=SPARS 64; NSAMP=16	POS TARG 4.294,-3 .805	Prime + Parallel Gro up 3-4	[==>]	[1]
	4		ANY	ACS/WFC, ACCUM, WFC	F814W	CR-SPLIT=NO; GAIN=2		Prime + Parallel Gro up 3-4	700.0 Secs [==>785.0 Secs]	[1]
	5		(6) GAL-084849+44 5416	NIC2, MULTIACCUM, NIC2-FIX	F160W	SAMP-SEQ=SPARS 64; NSAMP=15	POS TARG -3.794,- 4.334	Prime + Parallel Gro up 5-6	[==>]	[1]
	6		ANY	ACS/WFC, ACCUM, WFC	F814W	CR-SPLIT=NO; GAIN=2		Prime + Parallel Gro up 5-6	700.0 Secs [==>721.0 Secs]	[1]



Proposal 10825 - Visit 07 - The Formation Epoch of Early-type Galaxies: Constraints from the Fundamental Plane at z=1.3

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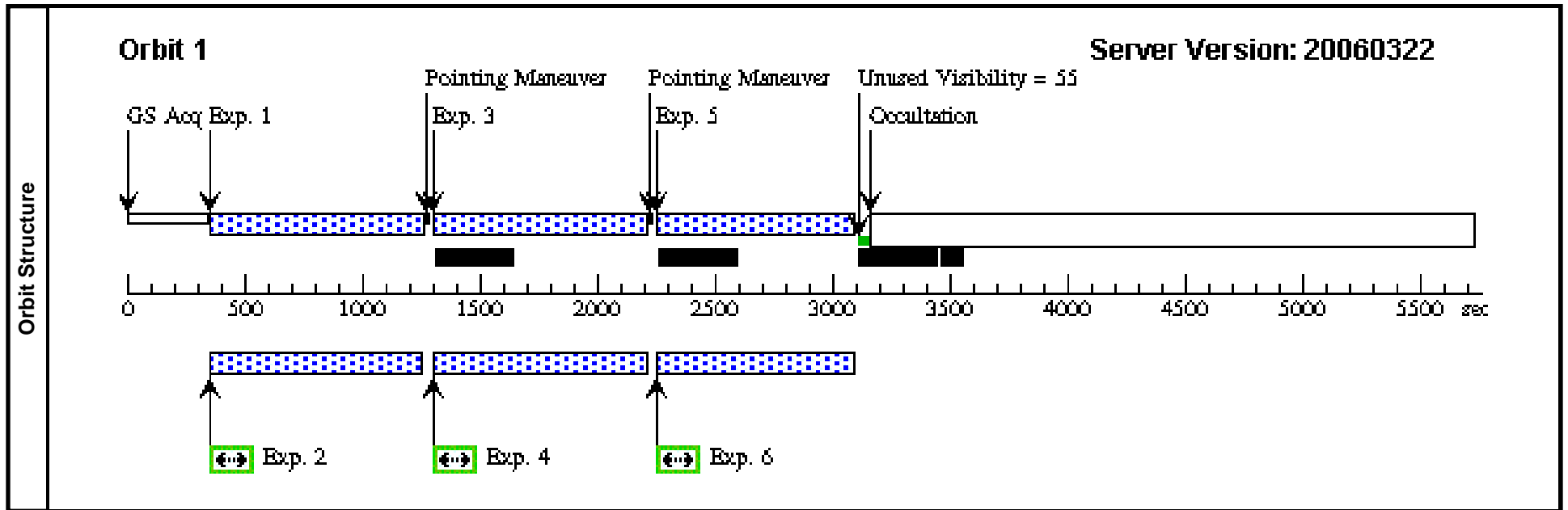
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Exposures		#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
		1		(7) GAL-084859+445139	NIC2, MULTIACCUM, NIC2-FIX	F160W	SAMP-SEQ=SPARS 64; NSAMP=16	POS TARG 1.92,2.149; GS ACQ SCENARIO BASE1TNS	Prime + Parallel Group 1-2	[==>]	[1]
		2	ANY		ACS/WFC, ACCUM, WFC	F814W	CR-SPLIT=NO; GAIN=2		Prime + Parallel Group 1-2	700.0 Secs [==>]	[1]
		3		(7) GAL-084859+445139	NIC2, MULTIACCUM, NIC2-FIX	F160W	SAMP-SEQ=SPARS 64; NSAMP=16	POS TARG 2.147,-1.903	Prime + Parallel Group 3-4	[==>]	[1]
		4	ANY		ACS/WFC, ACCUM, WFC	F814W	CR-SPLIT=NO; GAIN=2		Prime + Parallel Group 3-4	700.0 Secs [==>785.0 Secs]	[1]
		5		(7) GAL-084859+445139	NIC2, MULTIACCUM, NIC2-FIX	F160W	SAMP-SEQ=SPARS 64; NSAMP=15	POS TARG -1.897,-2.167	Prime + Parallel Group 5-6	[==>]	[1]
		6	ANY		ACS/WFC, ACCUM, WFC	F814W	CR-SPLIT=NO; GAIN=2		Prime + Parallel Group 5-6	700.0 Secs [==>721.0 Secs]	[1]



Proposal 10825 - Visit 08 - The Formation Epoch of Early-type Galaxies: Constraints from the Fundamental Plane at z=1.3

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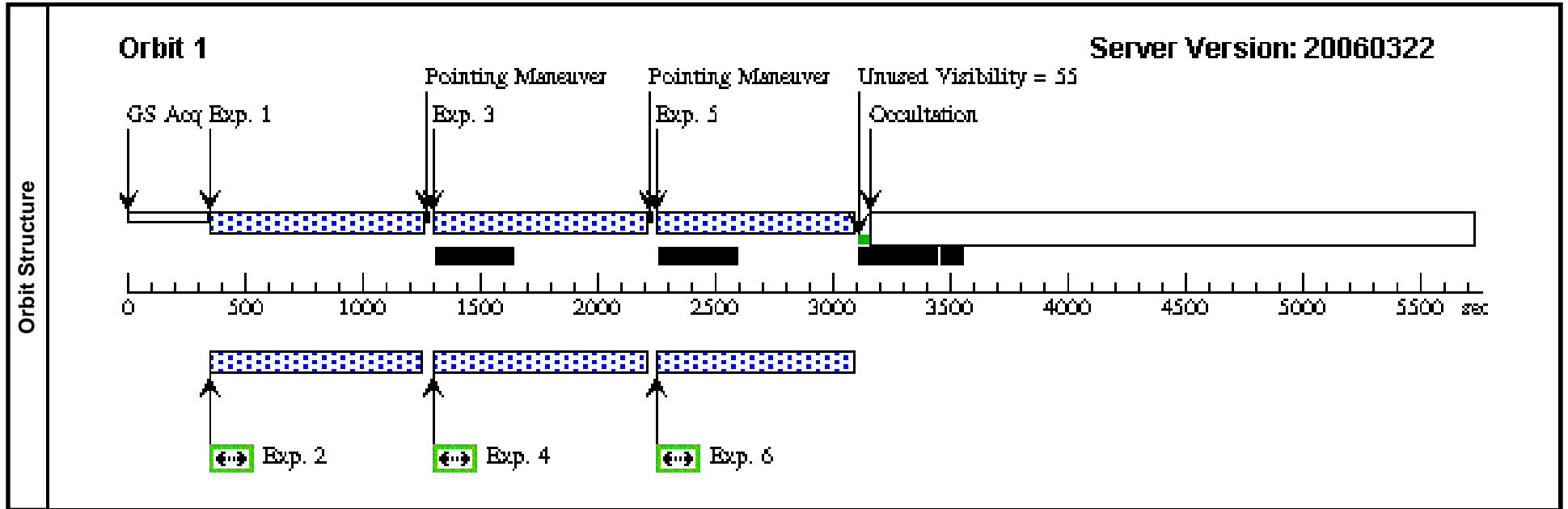
Visit	Proposal 10825, Visit 08 Diagnostic Status: No Diagnostics Scientific Instruments: ACS/WFC, NIC2 Special Requirements: SCHED 70%									
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous			
	(8)	GAL-084905+445204	RA: 08 49 5.3300 (132.2722083d) Dec: +44 52 3.76 (44.86771d) Equinox: J2000		V=26.0+/-0.2 z=22.40	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(8) GAL-084905+44 5204	NIC2, MULTIACCUM, NIC2-FIX	F160W	SAMP-SEQ=SPARS 64; NSAMP=16	POS TARG 3.839,4.297; GS ACQ SCENARI O BASE1TNS	Prime + Parallel Group 1-2	[==>]	[1]
	2		ANY	ACS/WFC, ACCUM, WFC	F814W	CR-SPLIT=NO; GAIN=2		Prime + Parallel Group 1-2	700.0 Secs [==>]	[1]
	3		(8) GAL-084905+44 5204	NIC2, MULTIACCUM, NIC2-FIX	F160W	SAMP-SEQ=SPARS 64; NSAMP=16	POS TARG 4.294,-3.805	Prime + Parallel Group 3-4	[==>]	[1]
	4		ANY	ACS/WFC, ACCUM, WFC	F814W	CR-SPLIT=NO; GAIN=2		Prime + Parallel Group 3-4	700.0 Secs [==>785.0 Secs]	[1]
	5		(8) GAL-084905+44 5204	NIC2, MULTIACCUM, NIC2-FIX	F160W	SAMP-SEQ=SPARS 64; NSAMP=15	POS TARG -3.794,-4.334	Prime + Parallel Group 5-6	[==>]	[1]
	6		ANY	ACS/WFC, ACCUM, WFC	F814W	CR-SPLIT=NO; GAIN=2		Prime + Parallel Group 5-6	700.0 Secs [==>721.0 Secs]	[1]



Proposal 10825 - Visit 09 - The Formation Epoch of Early-type Galaxies: Constraints from the Fundamental Plane at z=1.3

Wed Aug 02 02:02:37 GMT 2006

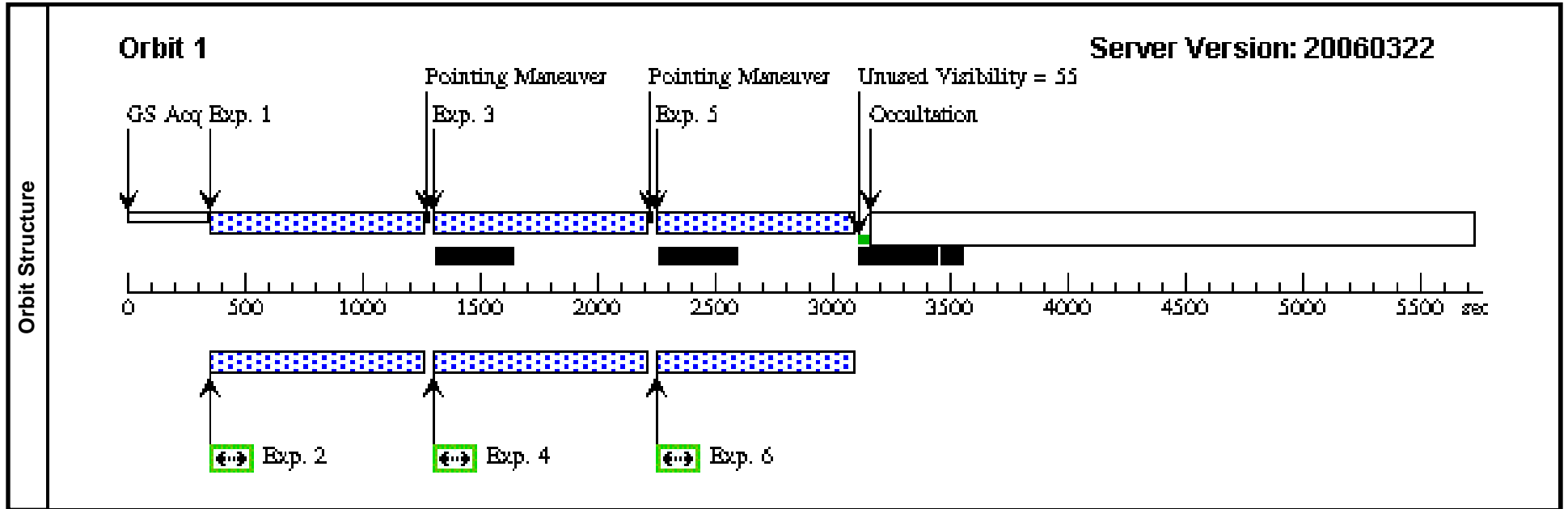
Visit	Proposal 10825, Visit 09									
	Diagnostic Status: No Diagnostics									
Scientific Instruments: ACS/WFC, NIC2										
Special Requirements: SCHED 70%										
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
		(9)	GAL-084900+445251	RA: 08 48 59.7050 (132.2487708d) Dec: +44 52 51.24 (44.88090d) Equinox: J2000		V=25.7+/-0.1 z=22.19	Reference Frame: ICRS			
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(9) GAL-084900+445251	NIC2, MULTIACCUM, NIC2-FIX	F160W	SAMP-SEQ=SPARS 64; NSAMP=16	POS TARG 3.839,4.297; GS ACQ SCENARI O BASE1TNS	Prime + Parallel Group 1-2	[==>]	[1]
	2	ANY		ACS/WFC, ACCUM, WFC	F814W	CR-SPLIT=NO; GAIN=2		Prime + Parallel Group 1-2	700.0 Secs [==>]	[1]
	3		(9) GAL-084900+445251	NIC2, MULTIACCUM, NIC2-FIX	F160W	SAMP-SEQ=SPARS 64; NSAMP=16	POS TARG 4.294,-3.805	Prime + Parallel Group 3-4	[==>]	[1]
	4	ANY		ACS/WFC, ACCUM, WFC	F814W	CR-SPLIT=NO; GAIN=2		Prime + Parallel Group 3-4	700.0 Secs [==>785.0 Secs]	[1]
	5		(9) GAL-084900+445251	NIC2, MULTIACCUM, NIC2-FIX	F160W	SAMP-SEQ=SPARS 64; NSAMP=15	POS TARG -3.794,-4.334	Prime + Parallel Group 5-6	[==>]	[1]
	6	ANY		ACS/WFC, ACCUM, WFC	F814W	CR-SPLIT=NO; GAIN=2		Prime + Parallel Group 5-6	700.0 Secs [==>721.0 Secs]	[1]



Proposal 10825 - Visit 10 - The Formation Epoch of Early-type Galaxies: Constraints from the Fundamental Plane at z=1.3

Wed Aug 02 02:02:38 GMT 2006

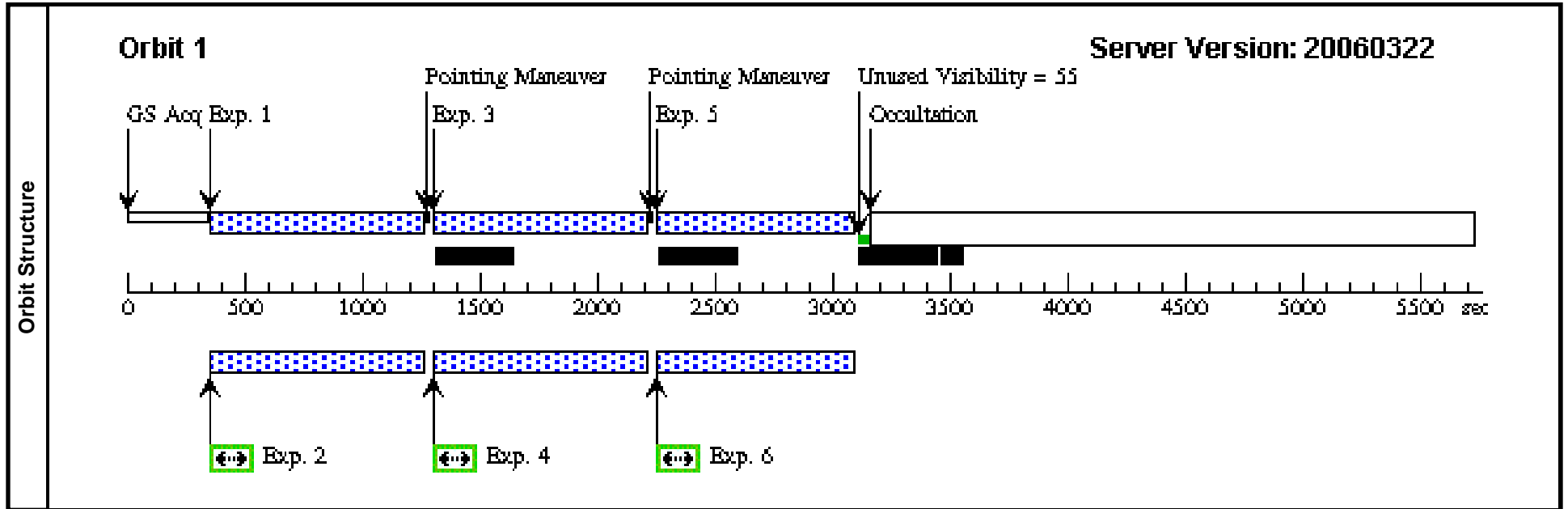
Visit		Proposal 10825, Visit 10 Diagnostic Status: No Diagnostics Scientific Instruments: ACS/WFC, NIC2 Special Requirements: SCHED 70%									
Fixed Targets		#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
Exposures		1	(10) GAL-084910+445016	RA: 08 49 9.6200 (132.2900833d) Dec: +44 50 15.95 (44.83776d) Equinox: J2000		V=26.9+/-0.3 z=22.08	Reference Frame: ICRS				
		#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
		1		(10) GAL-084910+445016	NIC2, MULTIACCUM, NIC2-FIX	F160W	SAMP-SEQ=SPARS 64; NSAMP=16	POS TARG 3.839,4.297; GS ACQ SCENARIO BASE1TNS	Prime + Parallel Group 1-2	[==>]	[1]
		2	ANY		ACS/WFC, ACCUM, WFC	F814W	CR-SPLIT=NO; GAIN=2		Prime + Parallel Group 1-2	700.0 Secs [==>705.0 Secs]	[1]
		3		(10) GAL-084910+445016	NIC2, MULTIACCUM, NIC2-FIX	F160W	SAMP-SEQ=SPARS 64; NSAMP=16	POS TARG 4.294,-3.805	Prime + Parallel Group 3-4	[==>]	[1]
		4	ANY		ACS/WFC, ACCUM, WFC	F814W	CR-SPLIT=NO; GAIN=2		Prime + Parallel Group 3-4	700.0 Secs [==>785.0 Secs]	[1]
5		(10) GAL-084910+445016	NIC2, MULTIACCUM, NIC2-FIX	F160W	SAMP-SEQ=SPARS 64; NSAMP=15	POS TARG -3.794,-4.334	Prime + Parallel Group 5-6	[==>]	[1]		
6	ANY		ACS/WFC, ACCUM, WFC	F814W	CR-SPLIT=NO; GAIN=2		Prime + Parallel Group 5-6	700.0 Secs [==>721.0 Secs]	[1]		



Proposal 10825 - Visit 11 - The Formation Epoch of Early-type Galaxies: Constraints from the Fundamental Plane at z=1.3

Wed Aug 02 02:02:38 GMT 2006

Visit	Proposal 10825, Visit 11									
	Diagnostic Status: No Diagnostics									
Scientific Instruments: ACS/WFC, NIC2										
Special Requirements: SCHED 70%										
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
		(11)	GAL-084855+445205	RA: 08 48 55.1600 (132.2298333d) Dec: +44 52 5.05 (44.86807d) Equinox: J2000		V=25.2+/-0.2 z=23.63	Reference Frame: ICRS			
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(11) GAL-084855+445205	NIC2, MULTIACCUM, NIC2-FIX	F160W	SAMP-SEQ=SPARS 64; NSAMP=16	POS TARG 3.839,4.297; GS ACQ SCENARI O BASE1TNS	Prime + Parallel Group 1-2	[==>]	[1]
	2	ANY		ACS/WFC, ACCUM, WFC	F814W	CR-SPLIT=NO; GAIN=2		Prime + Parallel Group 1-2	700.0 Secs [==>705.0 Secs]	[1]
	3		(11) GAL-084855+445205	NIC2, MULTIACCUM, NIC2-FIX	F160W	SAMP-SEQ=SPARS 64; NSAMP=16	POS TARG 4.294,-3.805	Prime + Parallel Group 3-4	[==>]	[1]
	4	ANY		ACS/WFC, ACCUM, WFC	F814W	CR-SPLIT=NO; GAIN=2		Prime + Parallel Group 3-4	700.0 Secs [==>785.0 Secs]	[1]
	5		(11) GAL-084855+445205	NIC2, MULTIACCUM, NIC2-FIX	F160W	SAMP-SEQ=SPARS 64; NSAMP=15	POS TARG -3.794,-4.334	Prime + Parallel Group 5-6	[==>]	[1]
	6	ANY		ACS/WFC, ACCUM, WFC	F814W	CR-SPLIT=NO; GAIN=2		Prime + Parallel Group 5-6	700.0 Secs [==>721.0 Secs]	[1]



Proposal 10825 - Visit 12 - The Formation Epoch of Early-type Galaxies: Constraints from the Fundamental Plane at z=1.3

Wed Aug 02 02:02:39 GMT 2006

Visit	Proposal 10825, Visit 12 Diagnostic Status: No Diagnostics Scientific Instruments: ACS/WFC, NIC2 Special Requirements: SCHED 70%									
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous			
	(12)	GAL-084911+445157	RA: 08 49 11.2300 (132.2967917d) Dec: +44 51 56.79 (44.86578d) Equinox: J2000		V=28.0 z=23.78	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(12) GAL-084911+445157	NIC2, MULTIACCUM, NIC2-FIX	F160W	SAMP-SEQ=SPARS 64; NSAMP=16	POS TARG -3.794,-4.334; GS ACQ SCENARI O BASE1TNS	Prime + Parallel Group 1-2	[==>]	[1]
	2		ANY	ACS/WFC, ACCUM, WFC	F814W	CR-SPLIT=NO; GAIN=2		Prime + Parallel Group 1-2	700.0 Secs [==>]	[1]
	3		(12) GAL-084911+445157	NIC2, MULTIACCUM, NIC2-FIX	F160W	SAMP-SEQ=SPARS 64; NSAMP=16	POS TARG 4.294,-3.805	Prime + Parallel Group 3-4	[==>]	[1]
	4		ANY	ACS/WFC, ACCUM, WFC	F814W	CR-SPLIT=NO; GAIN=2		Prime + Parallel Group 3-4	700.0 Secs [==>785.0 Secs]	[1]
	5		(12) GAL-084911+445157	NIC2, MULTIACCUM, NIC2-FIX	F160W	SAMP-SEQ=SPARS 64; NSAMP=15	POS TARG 3.839,4.297	Prime + Parallel Group 5-6	[==>]	[1]
	6		ANY	ACS/WFC, ACCUM, WFC	F814W	CR-SPLIT=NO; GAIN=2		Prime + Parallel Group 5-6	700.0 Secs [==>721.0 Secs]	[1]

