



11978 - Luminous and dark matter in disk galaxies from strong lensing and stellar kinematics

Cycle: 16, Proposal Category: GO
(Availability Mode: SUPPORTED)

INVESTIGATORS

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VISITS

<i>Visit</i>	<i>Targets used in Visit</i>	<i>Configurations used in Visit</i>	<i>Orbits Used</i>	<i>Last Orbit Planner Run</i>	<i>OP Current with Visit?</i>
01	(1) SDSSJ1556+3429	WFPC2	4	03-Apr-2009 21:16:31.0	yes
02	(2) SDSSJ1228+3743	WFPC2	4	03-Apr-2009 21:16:39.0	yes
03	(3) SDSSJ1703+2451	WFPC2	4	03-Apr-2009 21:16:50.0	yes
04	(4) SDSSJ1300+3704	WFPC2	4	03-Apr-2009 21:16:57.0	yes

Proposal 11978 (STScI Edit Number: 5, Created: Friday, April 3, 2009 8:19:07 PM EST) - Overview

<i>Visit</i>	<i>Targets used in Visit</i>	<i>Configurations used in Visit</i>	<i>Orbits Used</i>	<i>Last Orbit Planner Run</i>	<i>OP Current with Visit?</i>
05	(5) SDSSJ1203+2535	WFPC2	4	03-Apr-2009 21:17:03.0	yes
06	(6) SDSSJ1521+5805	WFPC2	4	03-Apr-2009 21:17:10.0	yes
07	(7) SDSSJ0915+4211	WFPC2	2	03-Apr-2009 21:17:14.0	yes
Z7	(7) SDSSJ0915+4211	WFPC2	2	03-Apr-2009 21:17:18.0	yes
08	(8) SDSSJ1117+4704	WFPC2	4	03-Apr-2009 21:17:26.0	yes
09	(9) SDSSJ0820+4847	WFPC2	4	03-Apr-2009 21:17:33.0	yes
10	(10) SDSSJ1331+3628	WFPC2	4	03-Apr-2009 21:17:39.0	yes
11	(11) SDSSJ1410+0205	WFPC2	4	03-Apr-2009 21:17:45.0	yes
12	(12) SDSSJ1629+4708	WFPC2	4	03-Apr-2009 21:17:55.0	yes
13	(13) SDSSJ1321-0115	WFPC2	4	03-Apr-2009 21:18:01.0	yes
14	(14) SDSSJ2210-0934	WFPC2	4	03-Apr-2009 21:18:07.0	yes
15	(15) SDSS1135+3720	WFPC2	4	03-Apr-2009 21:18:13.0	yes
16	(16) SDSSJ1056+0005	WFPC2	4	03-Apr-2009 21:18:22.0	yes
17	(17) SDSSJ1015+1750	WFPC2	4	03-Apr-2009 21:18:28.0	yes
18	(18) SDSSJ1613+3216	WFPC2	4	03-Apr-2009 21:18:33.0	yes
19	(19) SDSSJ1037+3517	WFPC2	4	03-Apr-2009 21:18:39.0	yes
20	(20) SDSSJ1258-0259	WFPC2	4	03-Apr-2009 21:18:48.0	yes
21	(21) SDSSJ0841+3824	WFPC2	2	03-Apr-2009 21:18:52.0	yes
22	(22) SDSSJ1029+0420	WFPC2	2	03-Apr-2009 21:18:54.0	yes
23	(23) SDSSJ1032+5322	WFPC2	2	03-Apr-2009 21:18:56.0	yes
24	(24) SDSSJ1103+5322	WFPC2	2	03-Apr-2009 21:18:58.0	yes
25	(25) SDSSJ2141-0001	WFPC2	3	03-Apr-2009 21:19:01.0	yes

<i>Visit</i>	<i>Targets used in Visit</i>	<i>Configurations used in Visit</i>	<i>Orbits Used</i>	<i>Last Orbit Planner Run</i>	<i>OP Current with Visit?</i>
55	(27) SDSSJ1203+2535-COPY	WFPC2	1	03-Apr-2009 21:19:03.0	yes
67	(26) SDSSJ1015+1750-COPY	WFPC2	1	03-Apr-2009 21:19:04.0	yes

93 Total Orbits Used

ABSTRACT

The formation of realistic disk galaxies within the LCDM paradigm is still an unsolved problem. Theory is only now beginning to make predictions for how dark matter halos respond to galaxy formation and for the properties of disk galaxies. Measuring the density profiles of dark matter halos on galaxy scales is therefore a strong test for the standard paradigm of galaxy formation, offering great potential for discovery. However, from an observational point of view, the degeneracy between the stellar and dark matter contributions to galaxy rotation curves remains a major road block. Strong gravitational lensing, when coupled to spatially-resolved kinematics and stellar population models, can solve this long-standing problem. Unfortunately, this joint methodology could not be exploited so far due to the paucity of known edge-on spiral lenses. Exploiting the full SDSS-DR7 archive we have identified a new sample of exactly these systems. We propose multi-color HST imaging to confirm and measure a sample of twenty spiral lenses, covering a range of bulge to disk ratios. By combining dynamical lensing and stellar population information for this unique sample we will deliver the first statistical constraints on halos and disk properties, and a new stringent test of disk galaxy formation theories.

OBSERVING DESCRIPTION

The goal of our observations is to obtain high signal-to-noise spatially-resolved photometry through three filters, spanning the largest possible wavelength range to correct for dust extinction, identify multiple images by their equal colors, and determine the stellar mass-to-light ratio of the bulge and disk component. Precise removal of the lens galaxy contamination, including its differential extinction, is key to the success of the study of spiral lens galaxies. The following strategy with WFPC2 will allow us to meet our goals:

Sample Selection: The sample has been selected on the basis of lens galaxy morphology, from the lens candidates spectroscopically identified from the SDSS-DR7 database.

We first applied a lens-candidate spectroscopic selection procedure to the recent and final Data Release 7 of the Sloan Digital Sky Survey (SDSS). The procedure is an improved version of that described in Bolton et al. (2004, 2008) and looks for spectra that contain two sets of lines at two different redshift, indicating a foreground and background object in the same 3 arcsecond-diameter solid angle covered by the SDSS-fiber. Out of almost a million spectra, our spectroscopic search algorithm found over 200 new high-probability lens candidates. Second, these lens candidates' SDSS images have been visually inspected to identify the spiral galaxies sufficiently inclined for rotation curve measurements. Third, we computed the strong lensing probability according to the following procedure. Based on our previous experience, the confirmation rate is a well-known and monotonically increasing function of Einstein Radius (effectively, proportional to the fraction of the solid angle of the fiber that is contained within the critical lines, plus seeing and other observational effects). The Einstein Radius is simply determined by the velocity dispersion of the lens and ratios of angular diameter distances. Since velocity dispersions are not always available/reliable, especially for the more disk-dominated systems with emission lines, we used total luminosity as proxy for stellar velocity dispersion, after calibrating the correlation on the rest of the sample. We expect this to be a conservative estimate as edge-on systems are more effective lenses due to the higher projected mass density (Maller et al. 1997). Fourth, to optimize use of telescope time, we excluded all targets with too low a lensing probability, leaving a final sample of optimal objects. We downselected a sample of 20 according to observability, with an average projected confirmation rate of 52% (visits 1-20).

In addition, to be able to extend this investigation to the whole sample, we also propose to complete three-band imaging for five known SLACS spiral lenses, for an additional 11 orbits. (visits 21-25)

Choice of Filters: We choose F450W-F606W-F814W because they are broad-band (thus maximizing the S/N in the images) while covering a long wavelength baseline. In previous cycles we have obtained images in these three filters with ACS and/or WFPC2, and have found this choice to be very effective: it will allow us to extend our homogeneous dataset.

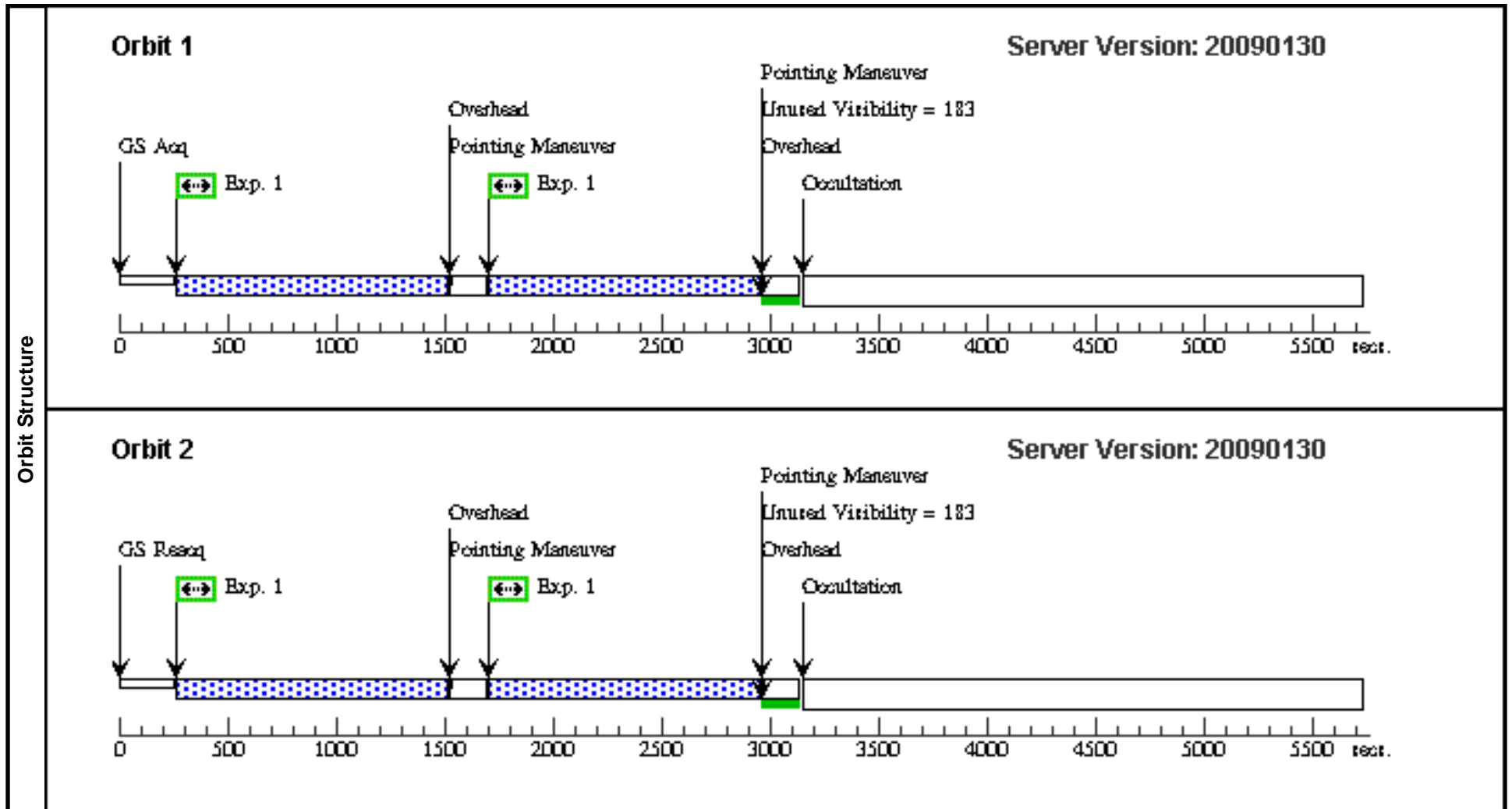
Exposure Times and Dithering Strategy: Based on our previous experience with WFPC2 in cycles 15 and 16, one orbit each in the F606W and F814W bands is sufficient to achieve $S/N \sim 5$ per pixel at the location of the Einstein Ring, necessary for good lensing modeling; this includes the extra noise caused by removal of foreground structure and differential extinction. The signal-to-noise ratio is also sufficient to determine structural parameters of bulges and disks to a level that is dominated by systematic errors, rather than photon-counting. Assuming a typical spectral energy distribution for a spiral galaxy, two orbits per target are needed in the F450W due to the lower throughput of the system at these wavelengths. We

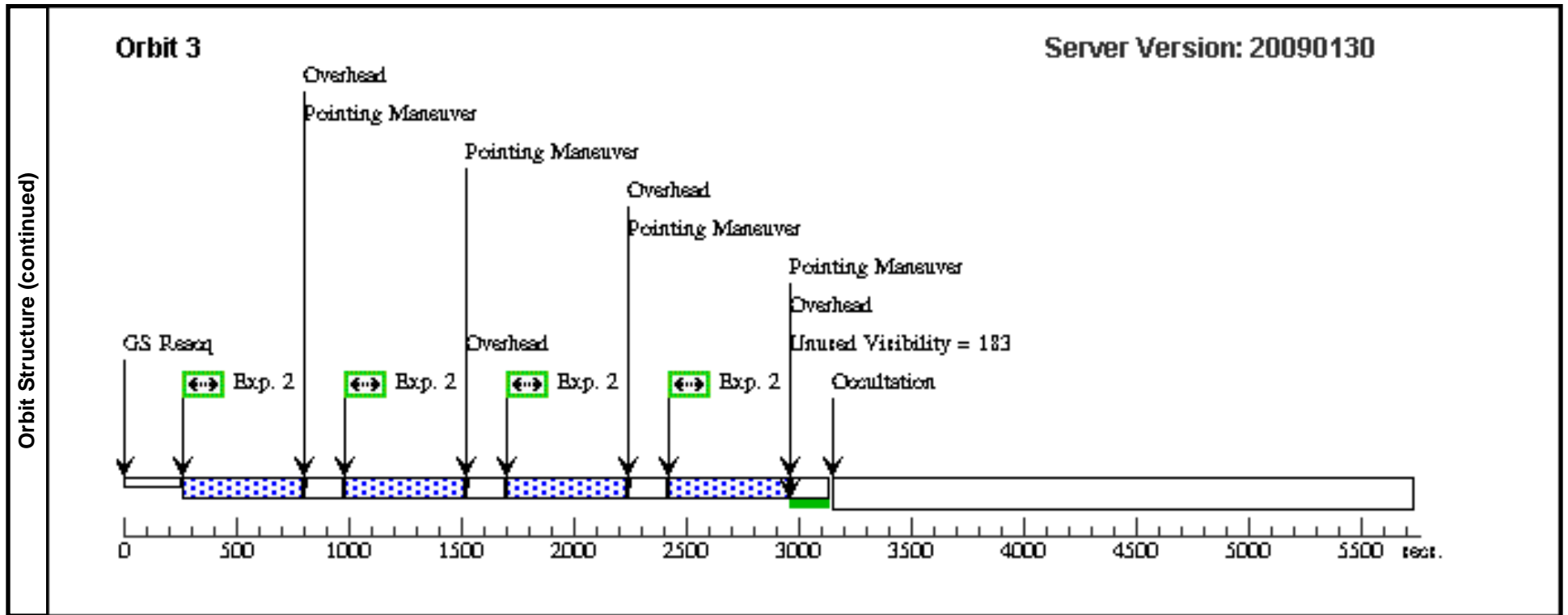
note that F450W is extremely useful for identifying lensed features, as it is the filter where the contrast between the lens and the source is typically most favorable. As in previous cycles we will use 4-point dither strategy to improve sampling of the PSF and ensure cosmic ray/bad pixel removal.

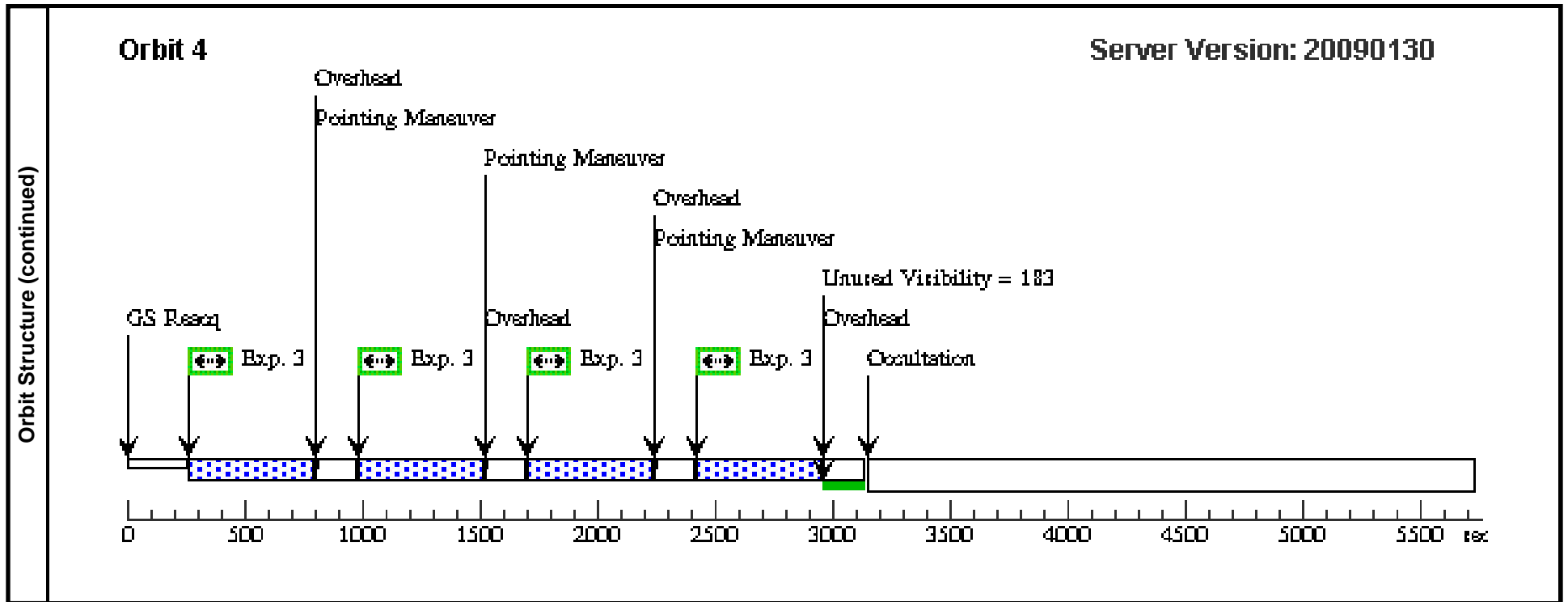
Proposal 11978 - Visit 01 - Luminous and dark matter in disk galaxies from strong lensing and stellar kinematics

Sat Apr 04 01:19:08 GMT 2009

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	(1)	SDSSJ1556+3429	RA: 15 56 13.7300 (239.0572083d) Dec: +34 46 29.90 (34.77497d) Equinox: J2000		V=17	Reference Frame: SDSS					
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]		Orbit
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								[==>400.0 Secs (Pattern 4)]			
3		(1) SDSSJ1556+3429	WFPC2, IMAGE, WF3	F814W	CR-SPLIT=NO		Pattern 3-3 (1)	400 Secs			
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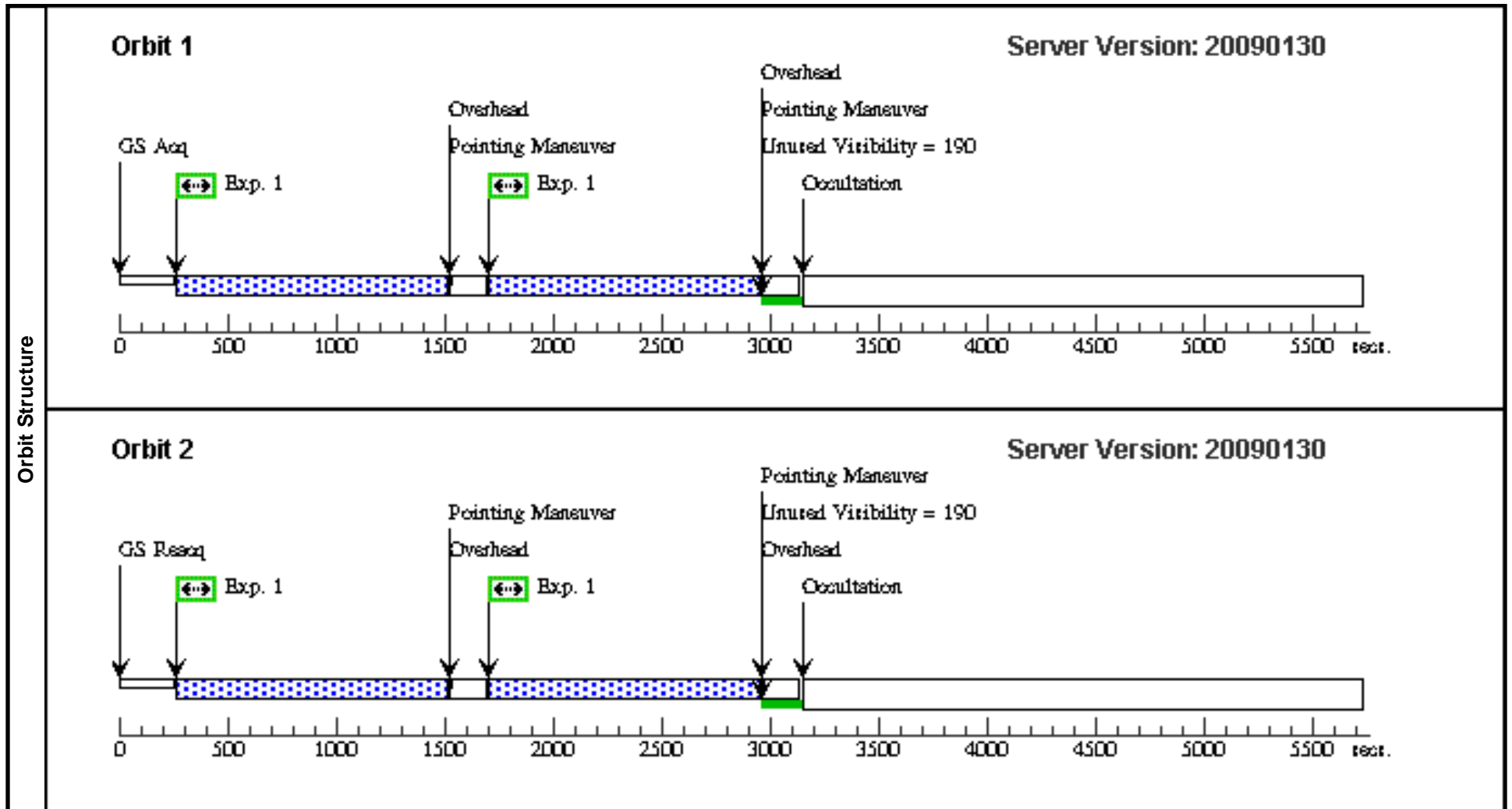


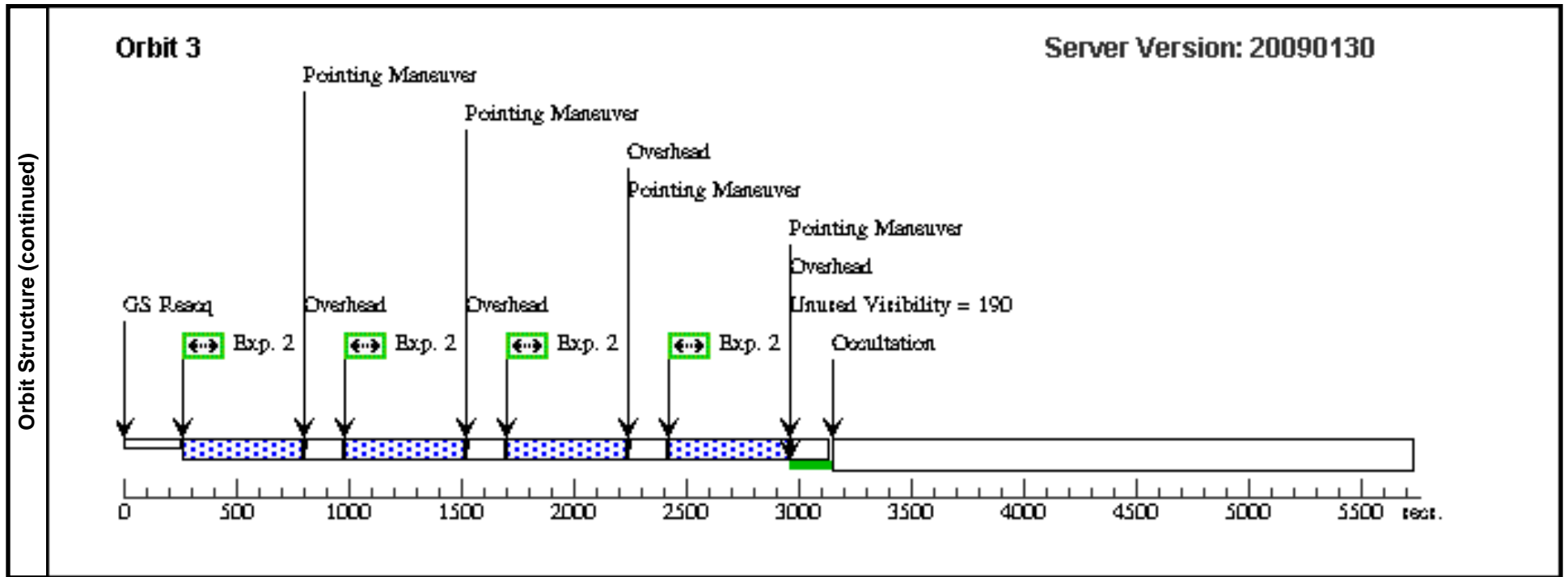


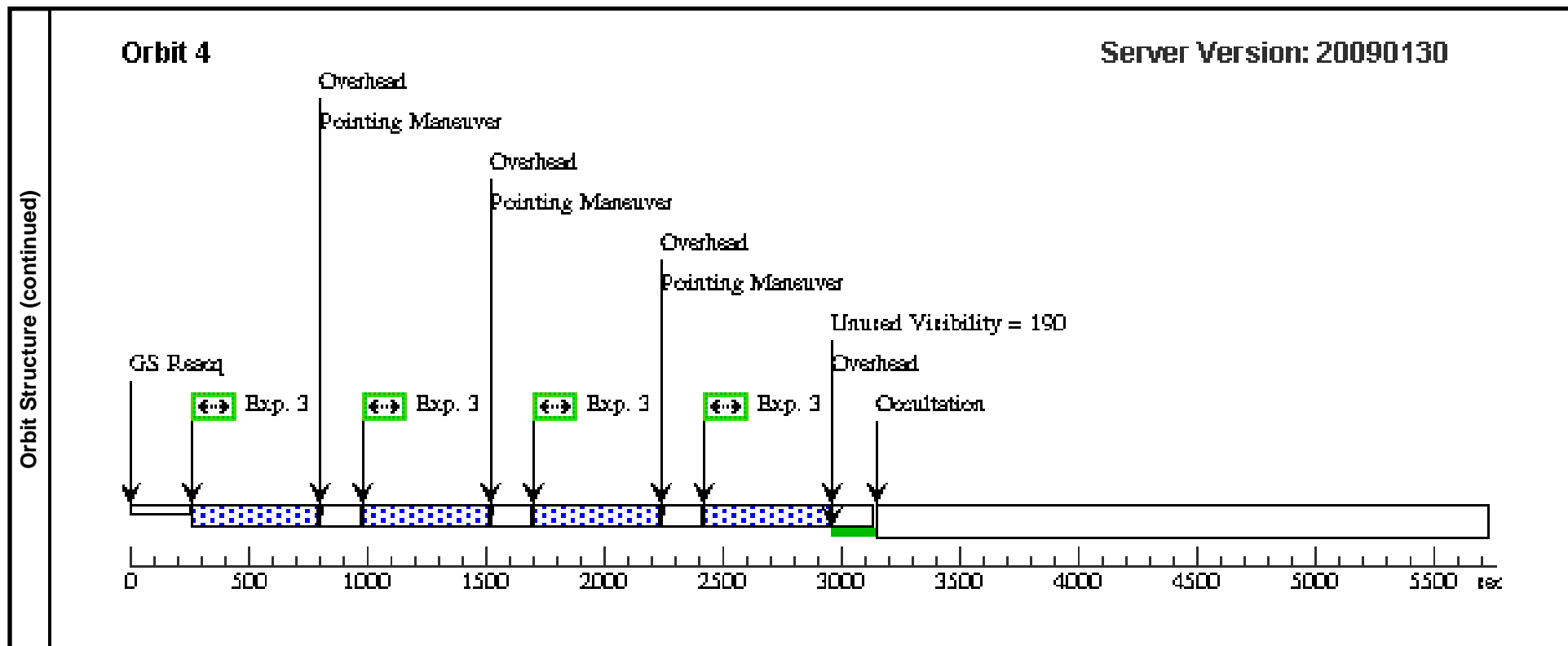
Proposal 11978 - Visit 02 - Luminous and dark matter in disk galaxies from strong lensing and stellar kinematics

Sat Apr 04 01:19:09 GMT 2009

Visit	Proposal 11978, Visit 02, scheduling Diagnostic Status: No Diagnostics Scientific Instruments: WFPC2 Special Requirements: (none)										
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Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous					
	(2)	SDSSJ1228+3743	RA: 12 28 59.6100 (187.2483750d) Dec: +37 43 48.40 (37.73011d) Equinox: J2000		V=17	Reference Frame: SDSS					
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	2		(2) 3	SDSSJ1228+374 WFPC2, IMAGE, WF3	F606W	CR-SPLIT=NO		Pattern 2-2 (1)	400 Secs		
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3		(2) 3	SDSSJ1228+374 WFPC2, IMAGE, WF3	F814W	CR-SPLIT=NO		Pattern 3-3 (1)	400 Secs			
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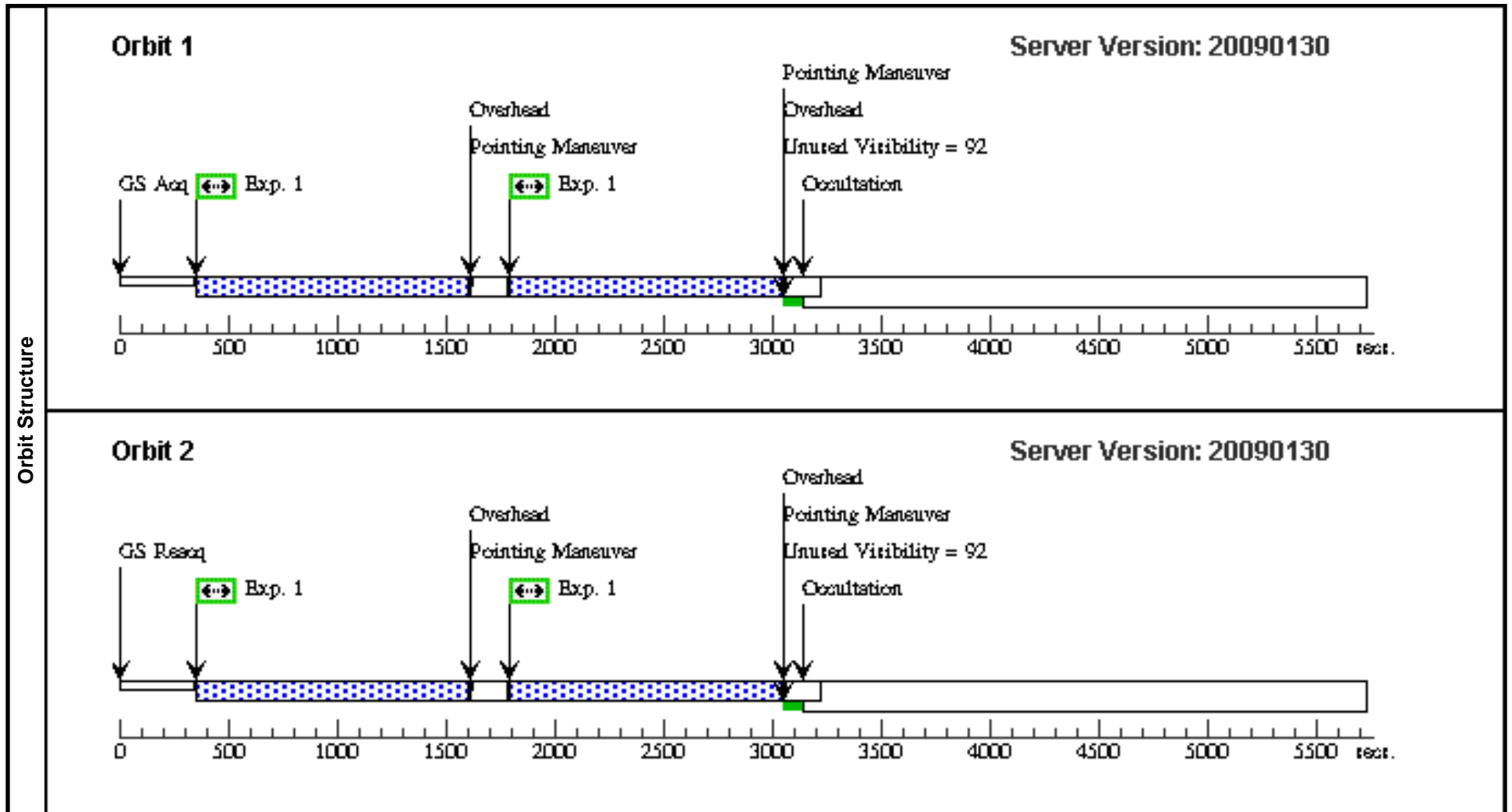


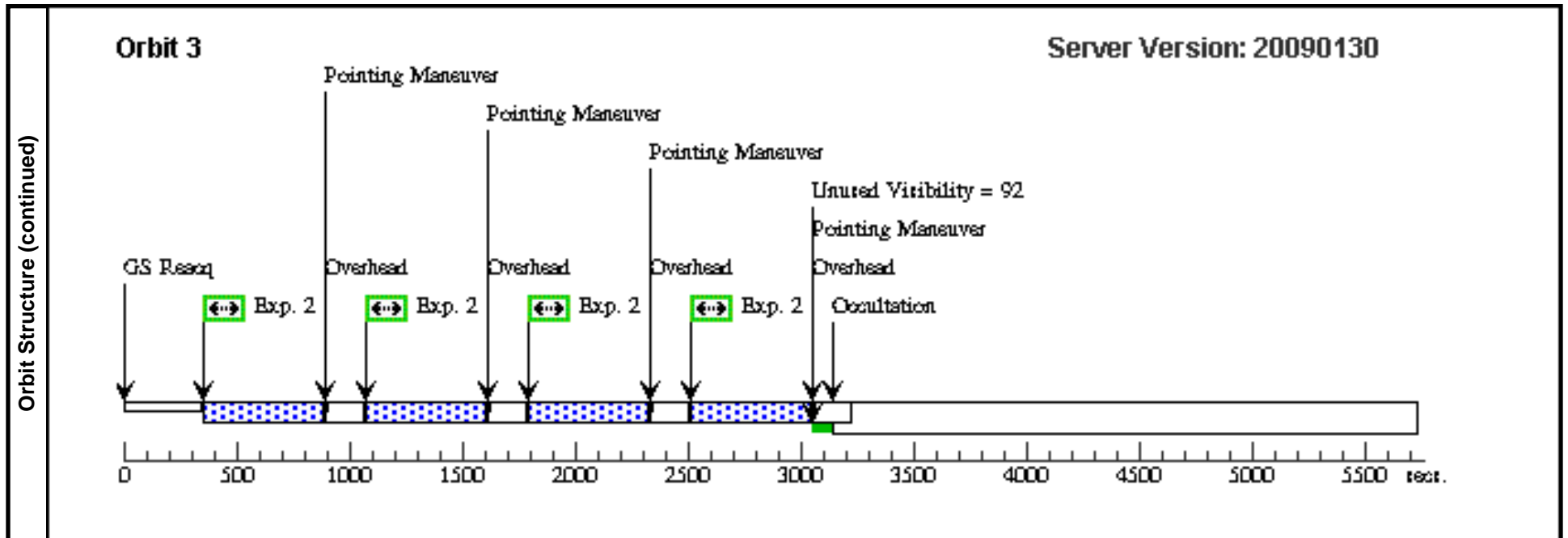


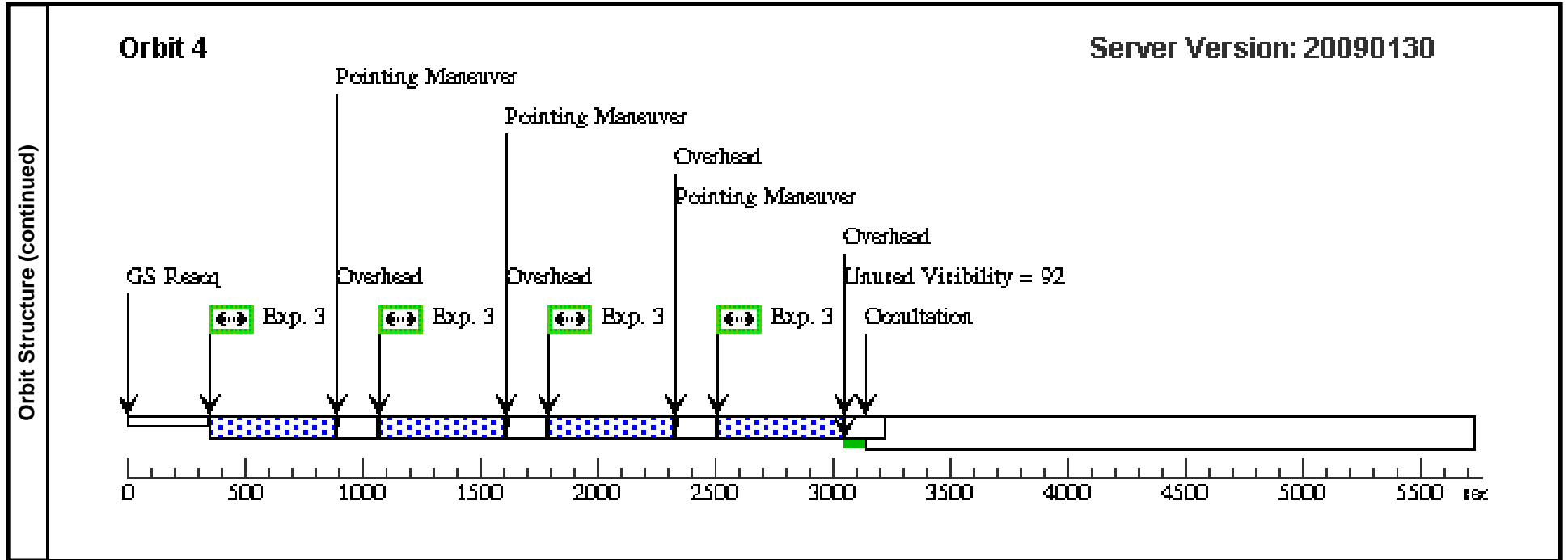
Proposal 11978 - Visit 03 - Luminous and dark matter in disk galaxies from strong lensing and stellar kinematics

Sat Apr 04 01:19:10 GMT 2009

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	(3)	SDSSJ1703+2451	RA: 17 03 41.4700 (255.9227917d) Dec: +24 51 39.90 (24.86108d) Equinox: J2000		V=17	Reference Frame: SDSS					
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]		Orbit
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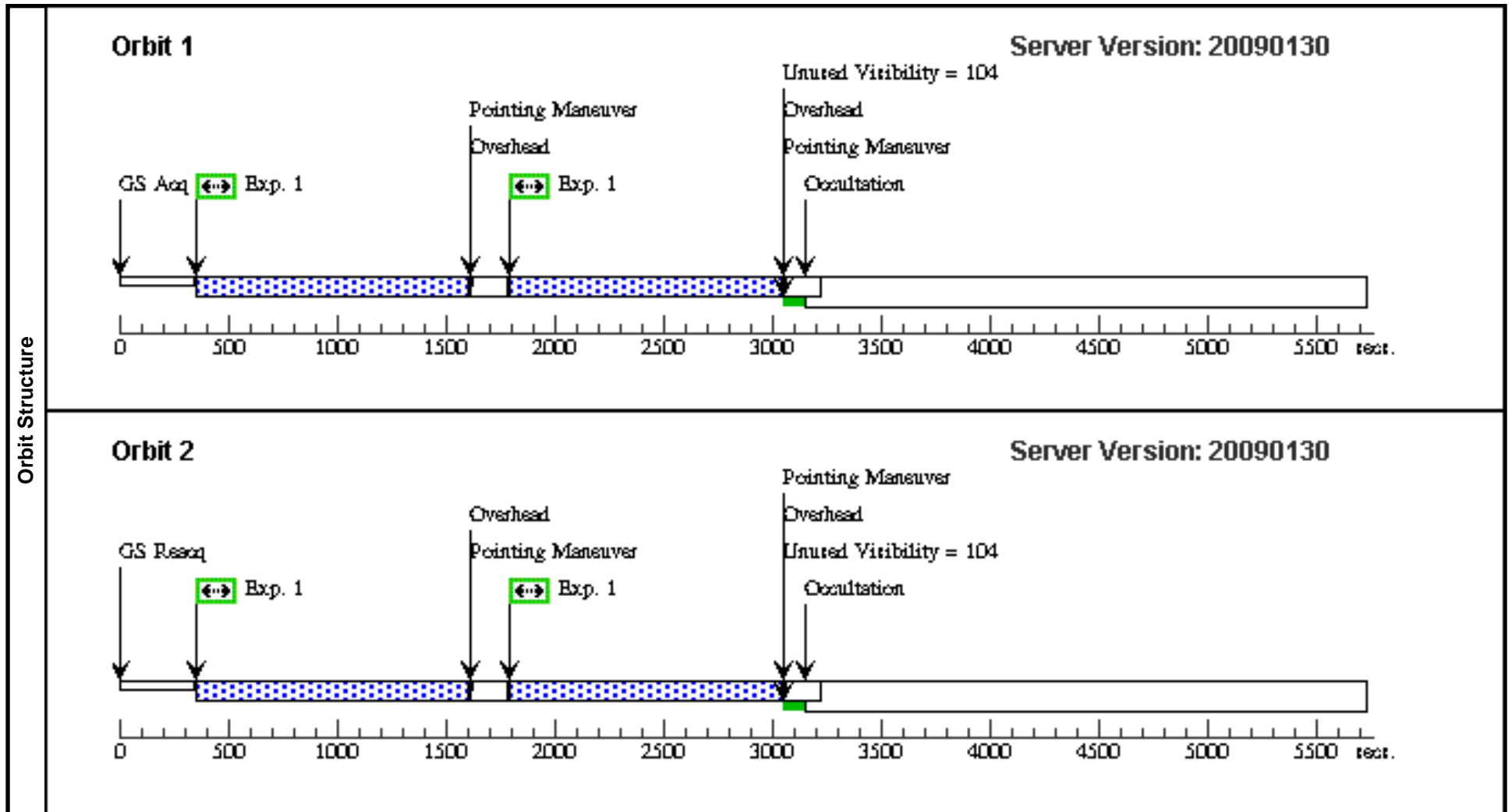


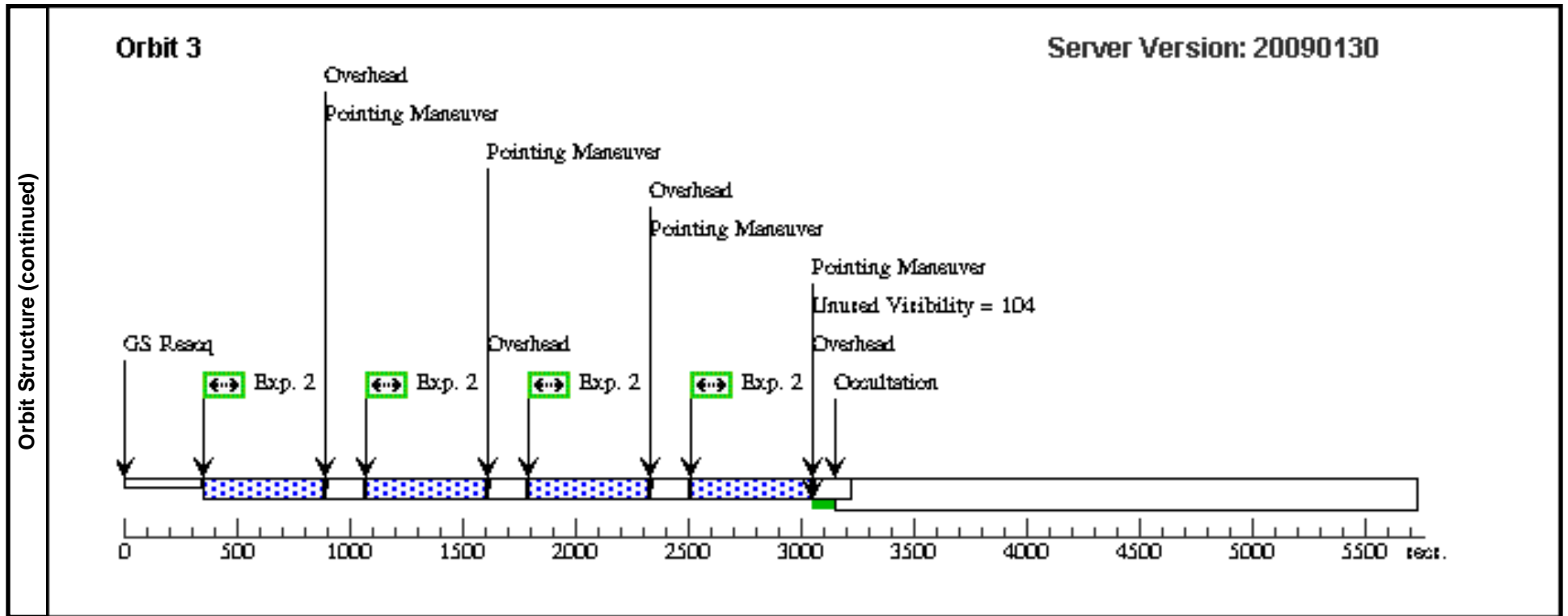


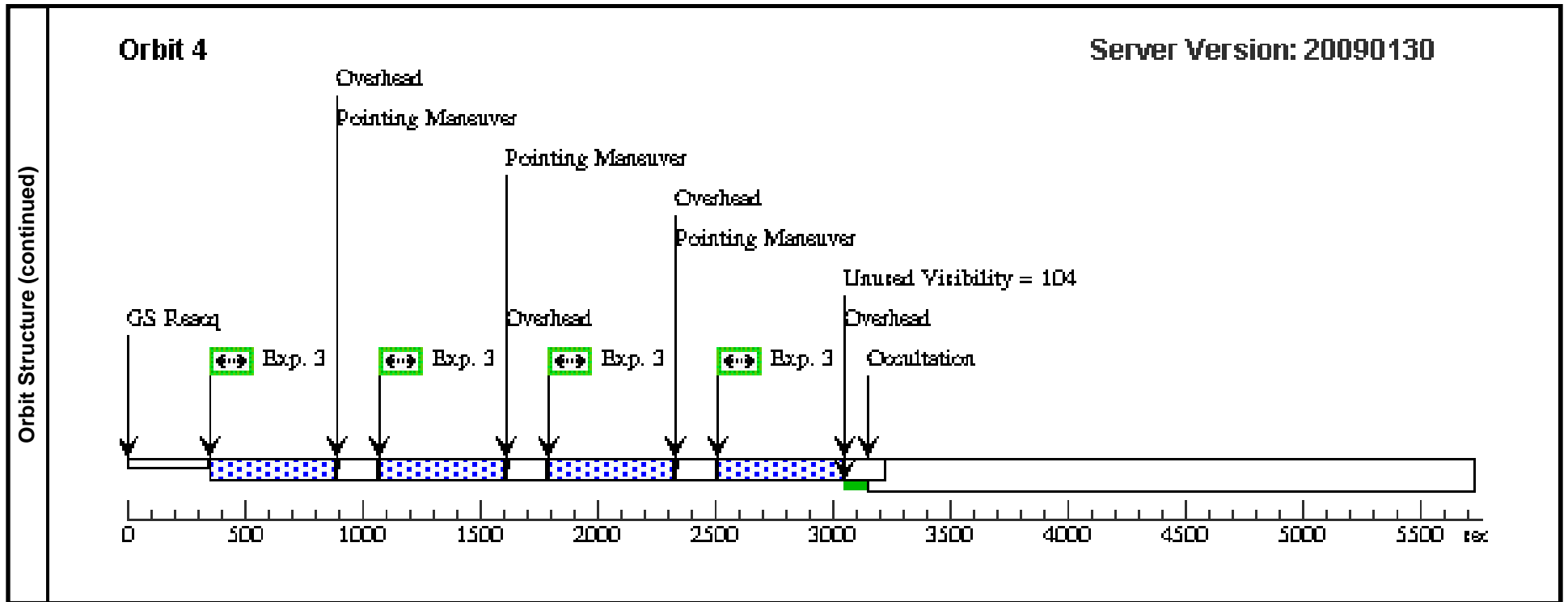
Proposal 11978 - Visit 04 - Luminous and dark matter in disk galaxies from strong lensing and stellar kinematics

Sat Apr 04 01:19:10 GMT 2009

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Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous					
	(4)	SDSSJ1300+3704	RA: 13 00 34.6800 (195.1445000d) Dec: +37 04 18.90 (37.07192d) Equinox: J2000		V=17	Reference Frame: SDSS					
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									[==>1100.0 Secs (Pattern 3)]		[2]
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	2		(4) SDSSJ1300+3704	WFPC2, IMAGE, WF3	F606W	CR-SPLIT=NO		Pattern 2-2 (1)	400 Secs		
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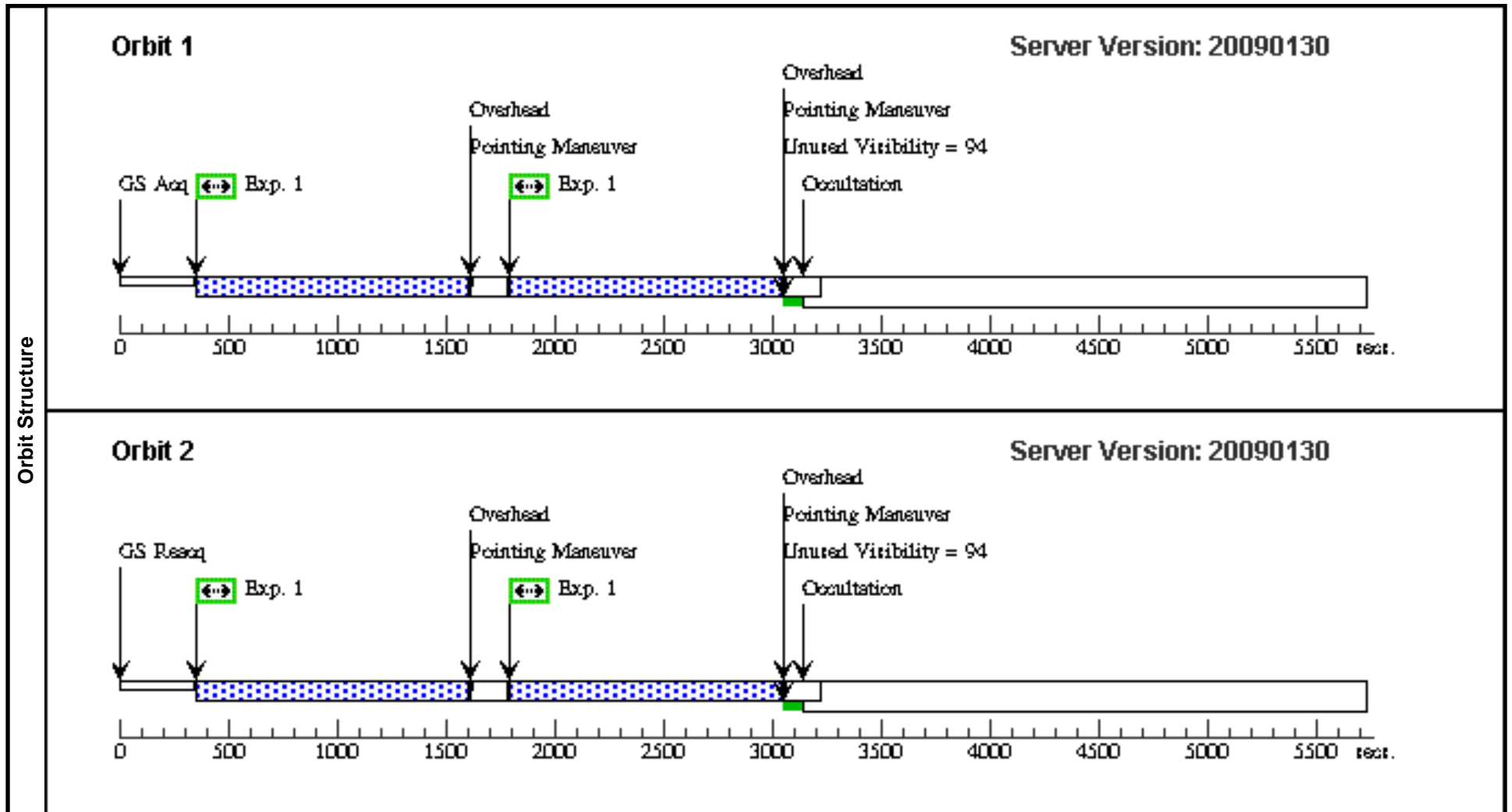


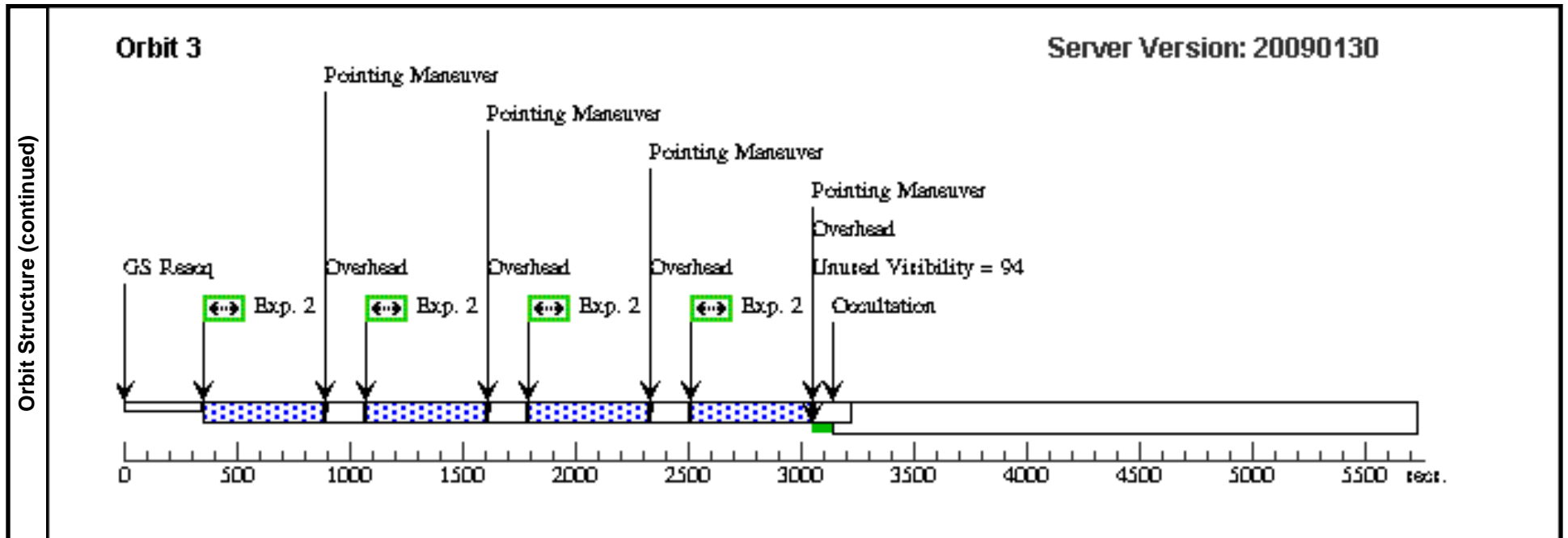


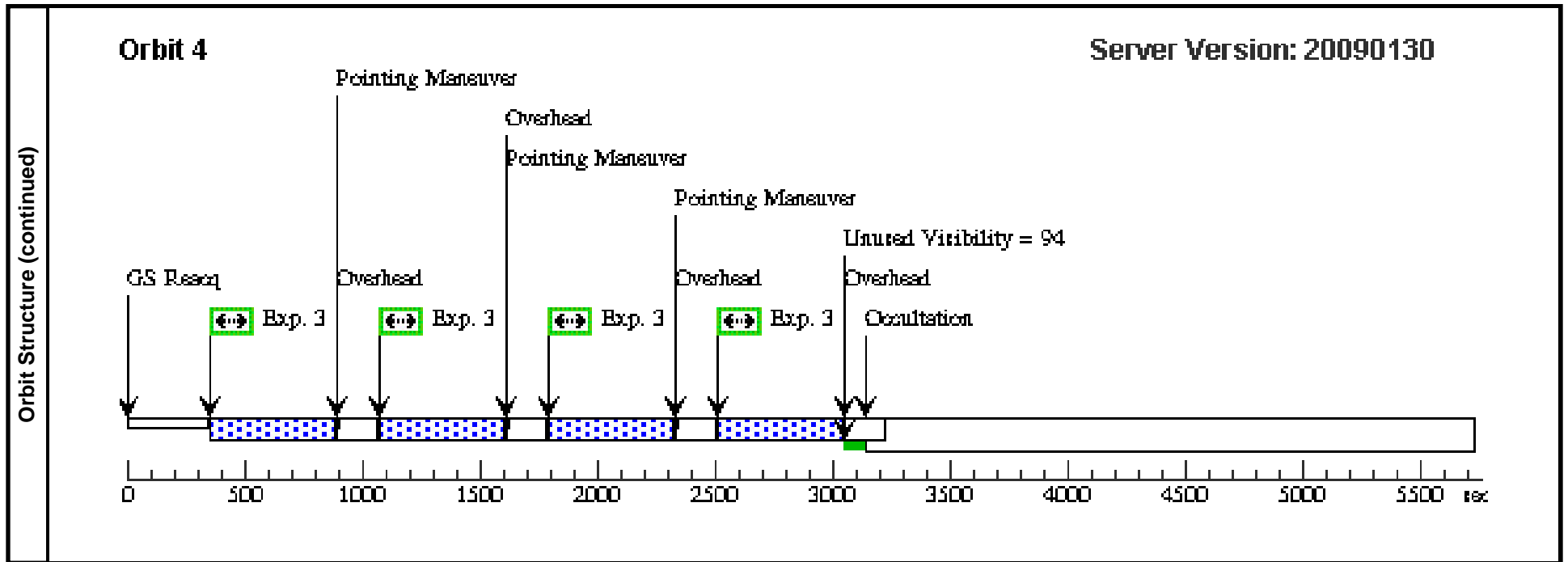
Proposal 11978 - Visit 05 - Luminous and dark matter in disk galaxies from strong lensing and stellar kinematics

Sat Apr 04 01:19:11 GMT 2009

Visit	Proposal 11978, Visit 05, failed Diagnostic Status: No Diagnostics Scientific Instruments: WFPC2 Special Requirements: (none)										
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Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]		Orbit
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	2		(5) SDSSJ1203+253 5	WFPC2, IMAGE, WF3	F606W	CR-SPLIT=NO		Pattern 2-2 (1)	400 Secs		
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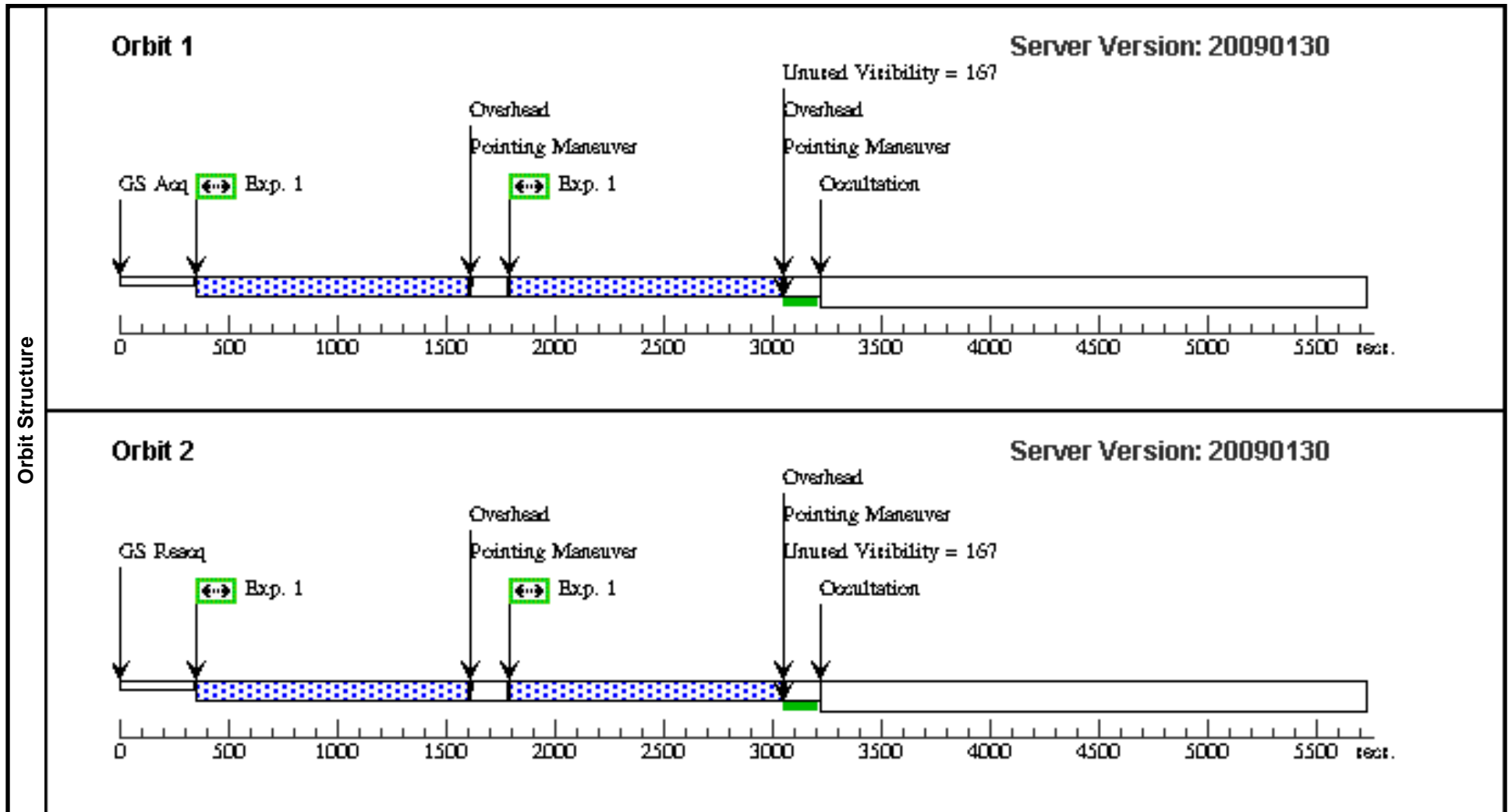


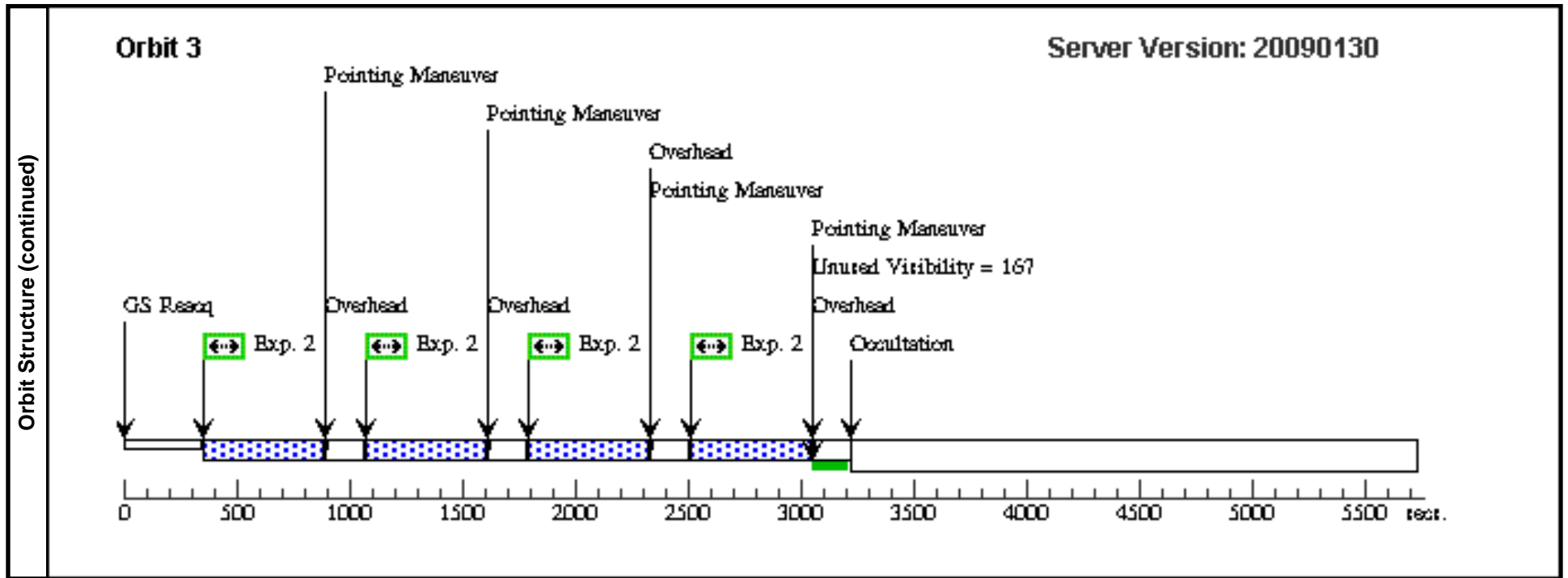


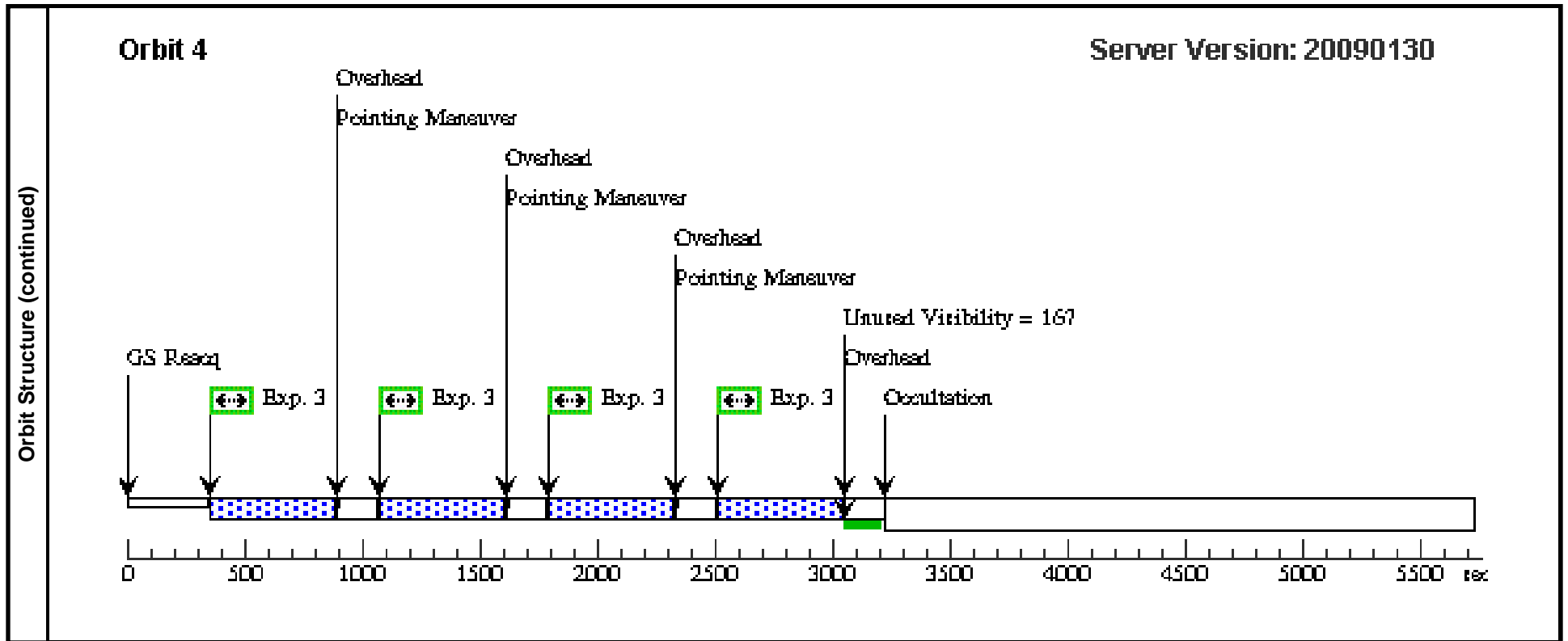
Proposal 11978 - Visit 06 - Luminous and dark matter in disk galaxies from strong lensing and stellar kinematics

Sat Apr 04 01:19:12 GMT 2009

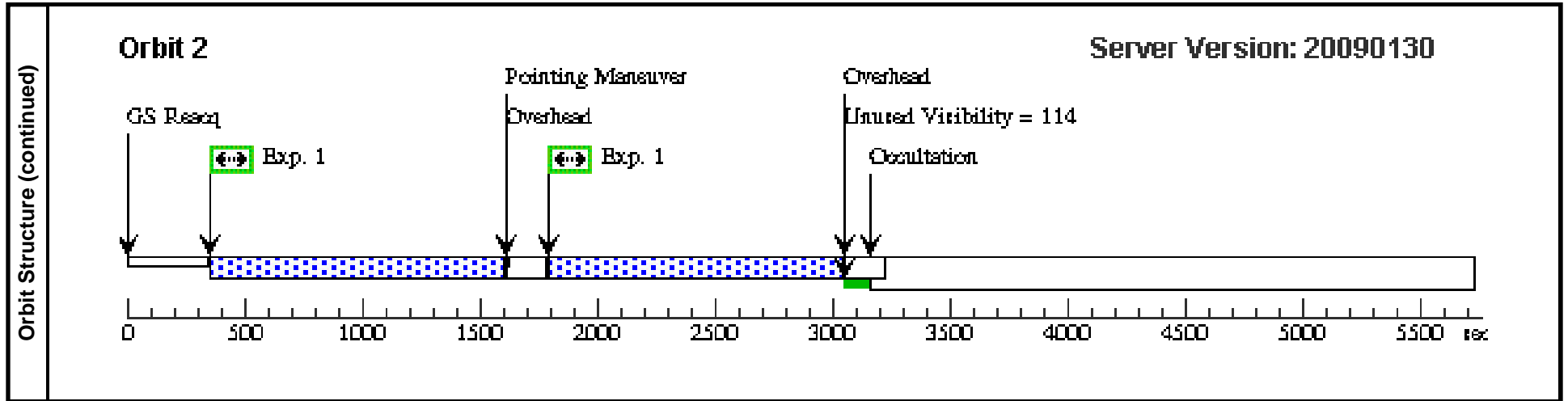
Visit	Proposal 11978, Visit 06, scheduling Diagnostic Status: No Diagnostics Scientific Instruments: WFPC2 Special Requirements: (none)									
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Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(6)	SDSSJ1521+5805	RA: 15 21 23.8700 (230.3494583d) Dec: +58 05 50.70 (58.09742d) Equinox: J2000		V=17	Reference Frame: SDSS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(6) SDSSJ1521+5805	WFPC2, IMAGE, WF3	F450W	CR-SPLIT=NO		Pattern 1-1 (1)	1000 Secs	
			5						[==>1100.0 Secs (Pattern 1)]	[1]
									[==>1100.0 Secs (Pattern 2)]	[2]
									[==>1100.0 Secs (Pattern 3)]	
									[==>1100.0 Secs (Pattern 4)]	
	2		(6) SDSSJ1521+5805	WFPC2, IMAGE, WF3	F606W	CR-SPLIT=NO		Pattern 2-2 (1)	400 Secs	
			5						[==>400.0 Secs (Pattern 1)]	[3]
									[==>400.0 Secs (Pattern 2)]	
									[==>400.0 Secs (Pattern 3)]	
								[==>400.0 Secs (Pattern 4)]		
3		(6) SDSSJ1521+5805	WFPC2, IMAGE, WF3	F814W	CR-SPLIT=NO		Pattern 3-3 (1)	400 Secs		
		5						[==>400.0 Secs (Pattern 1)]	[4]	
								[==>400.0 Secs (Pattern 2)]		
								[==>400.0 Secs (Pattern 3)]		
								[==>400.0 Secs (Pattern 4)]		







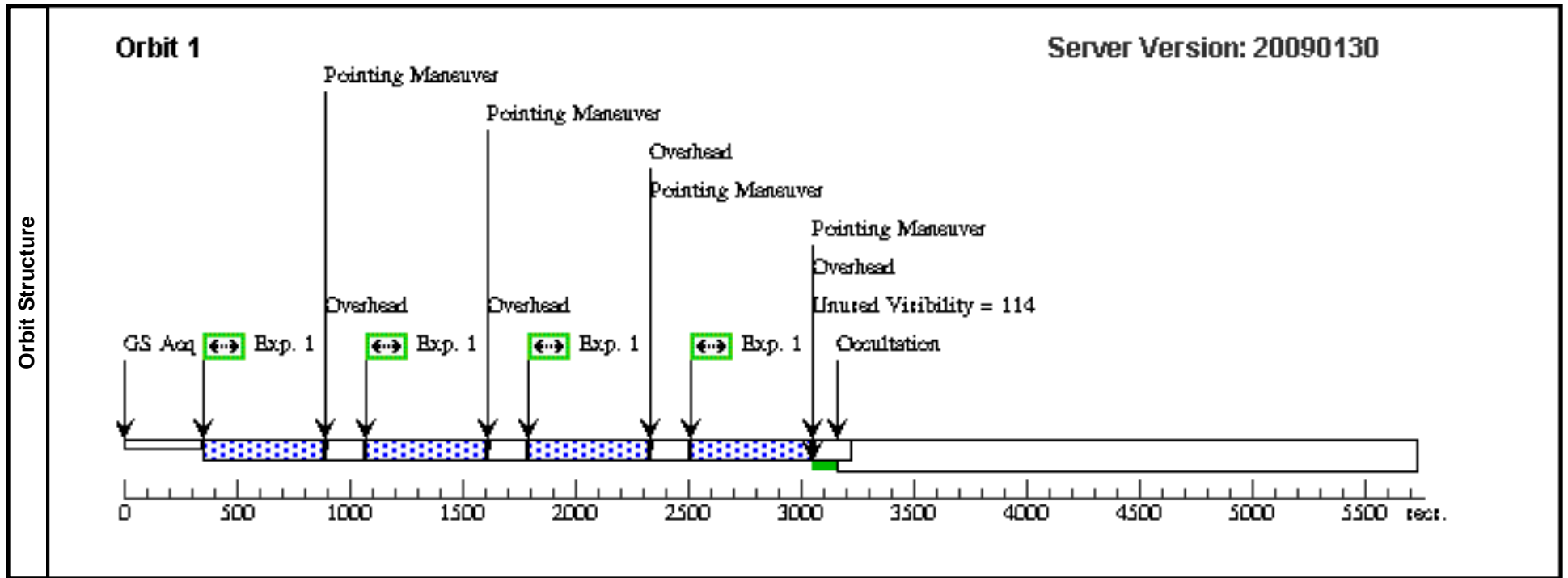
Visit	Proposal 11978, Visit 07, implementation Diagnostic Status: No Diagnostics Scientific Instruments: WFPC2 Special Requirements: (none)										
	Patterns	#	Primary Pattern				Secondary Pattern				Exposures
(1)		Pattern Type=WFPC2-BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.559017 Line Spacing=0.559017	Coordinate Frame=POS-TARG Pattern Orientation=26.56505 Angle Between Sides=143.130102 Center Pattern=false					(1)			
Fixed Targets	#	Name	Target Coordinates		Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(7)	SDSSJ0915+4211	RA: 09 15 16.2700 (138.8177917d) Dec: +42 11 52.80 (42.19800d) Equinox: J2000			V=17	Reference Frame: SDSS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]		Orbit
	1		(7) SDSSJ0915+4211	WFPC2, IMAGE, WF3	F450W	CR-SPLIT=NO		Pattern 1-1 (1)	1000 Secs		
			1						[=>1100.0 Secs (Pattern 1)]		[1]
									[=>1100.0 Secs (Pattern 2)]		[2]
Orbit Structure	Orbit 1 Server Version: 20090130										
	<p>Unused Visibility = 114</p> <p>GS Acq → Exp. 1 → Pointing Maneuver Overhead → Exp. 1 → Pointing Maneuver Overhead → Occultation</p> <p>Timeline: 0, 500, 1000, 1500, 2000, 2500, 3000, 3500, 4000, 4500, 5000, 5500 sec.</p>										

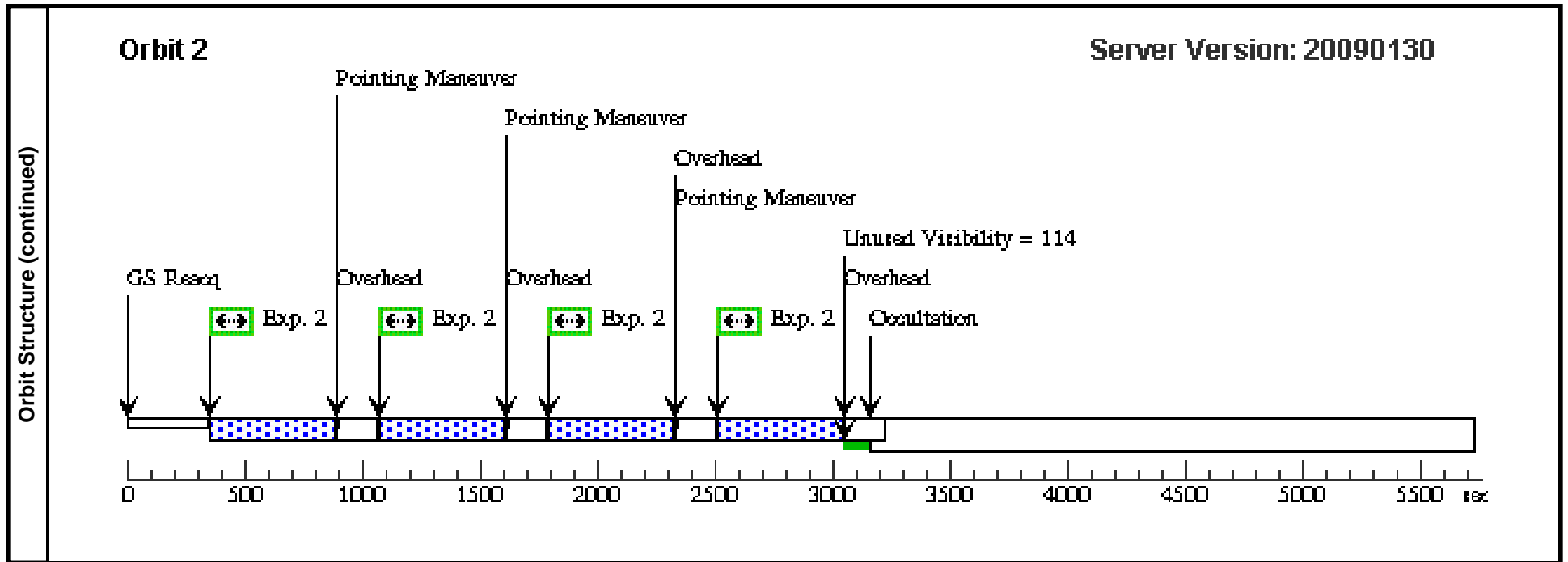


Proposal 11978 - Visit Z7 - Luminous and dark matter in disk galaxies from strong lensing and stellar kinematics

Sat Apr 04 01:19:13 GMT 2009

Visit	Proposal 11978, Visit Z7 Diagnostic Status: No Diagnostics Scientific Instruments: WFPC2 Special Requirements: (none)										
	Patterns	#	Primary Pattern			Secondary Pattern			Exposures		
		(1)	Pattern Type=WFPC2-BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.559017 Line Spacing=0.559017	Coordinate Frame=POS-TARG Pattern Orientation=26.56505 Angle Between Sides=143.130102 Center Pattern=false					(1), (2)		
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous					
	(7)	SDSSJ0915+4211	RA: 09 15 16.2700 (138.8177917d) Dec: +42 11 52.80 (42.19800d) Equinox: J2000		V=17	Reference Frame: SDSS					
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]		Orbit
	1		(7) SDSSJ0915+4211 1	WFPC2, IMAGE, WF3	F606W	CR-SPLIT=NO		Pattern 1-1 (1)	400 Secs [=>400.0 Secs (Pattern 1)] [=>400.0 Secs (Pattern 2)] [=>400.0 Secs (Pattern 3)] [=>400.0 Secs (Pattern 4)]	[1]	
2		(7) SDSSJ0915+4211 1	WFPC2, IMAGE, WF3	F814W	CR-SPLIT=NO		Pattern 2-2 (1)	400 Secs [=>400.0 Secs (Pattern 1)] [=>400.0 Secs (Pattern 2)] [=>400.0 Secs (Pattern 3)] [=>400.0 Secs (Pattern 4)]	[2]		

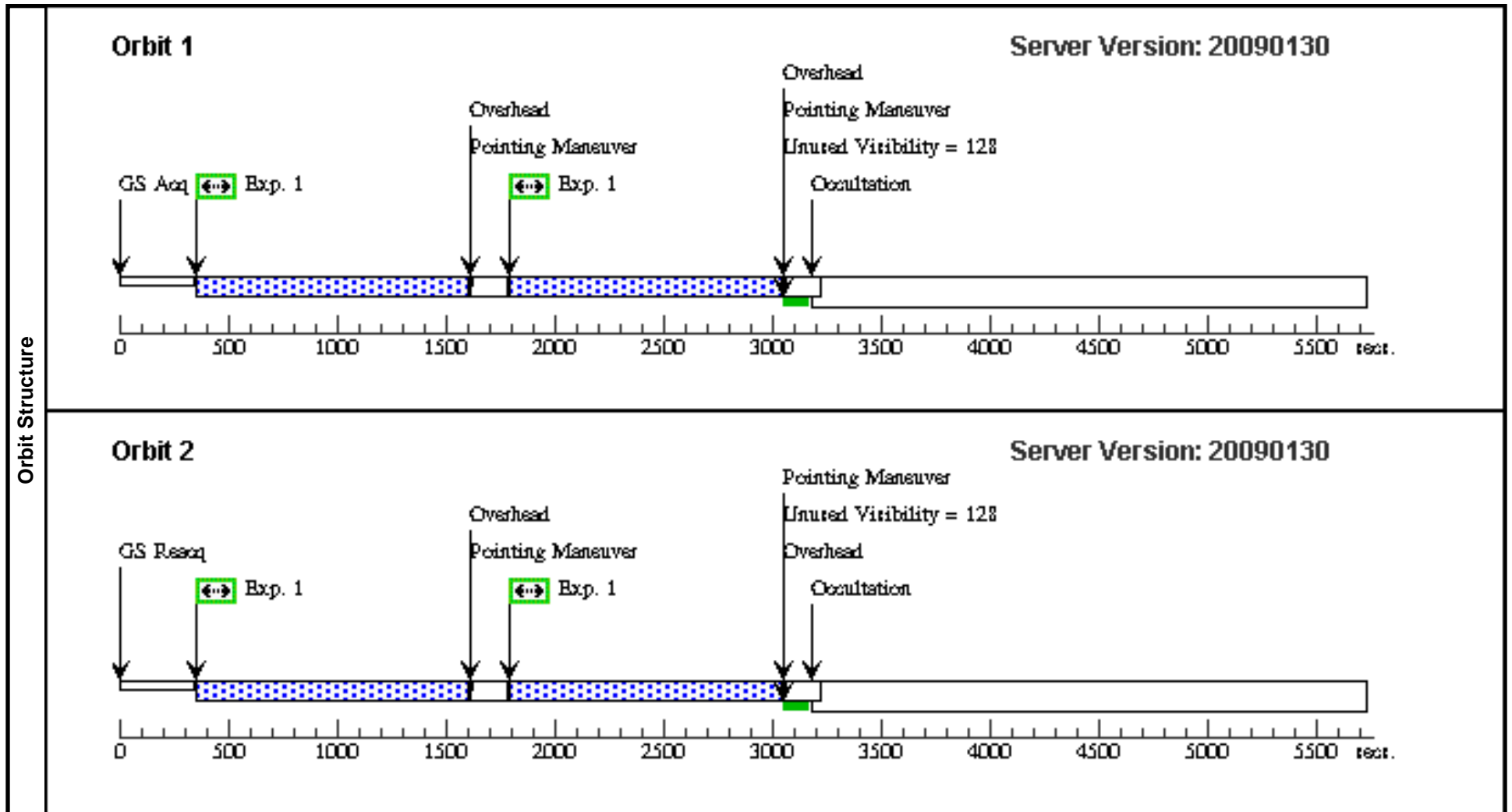


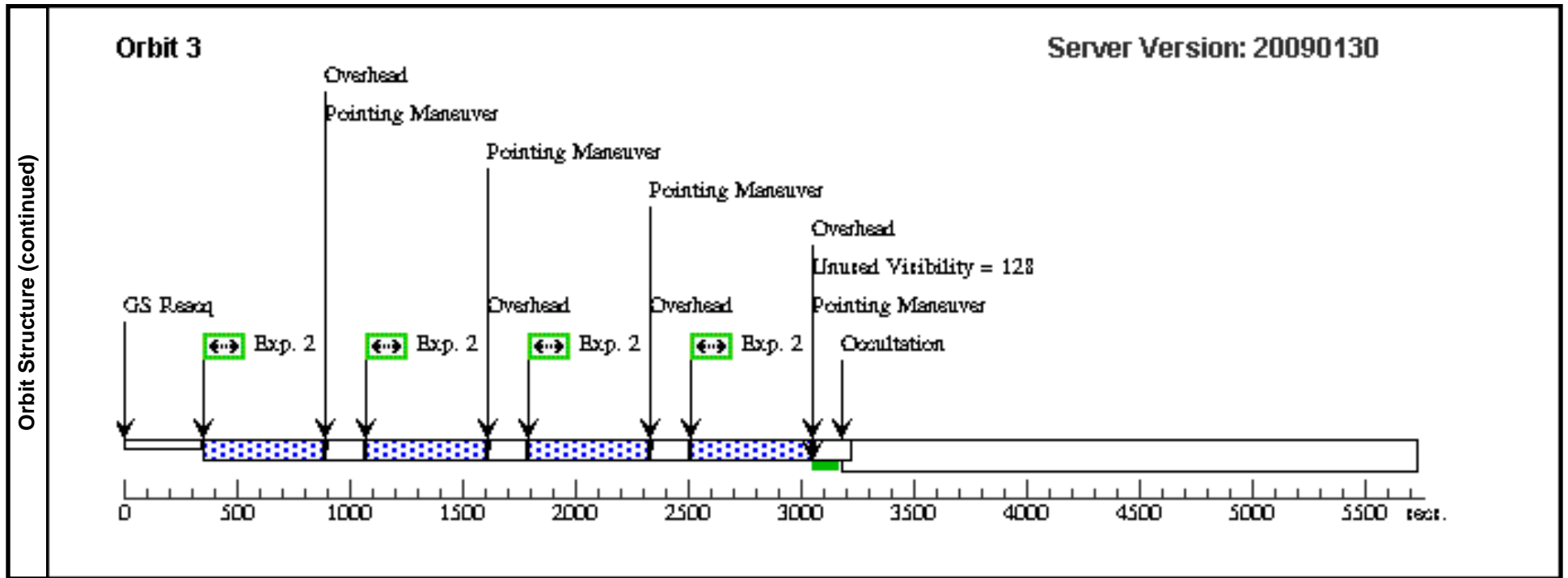


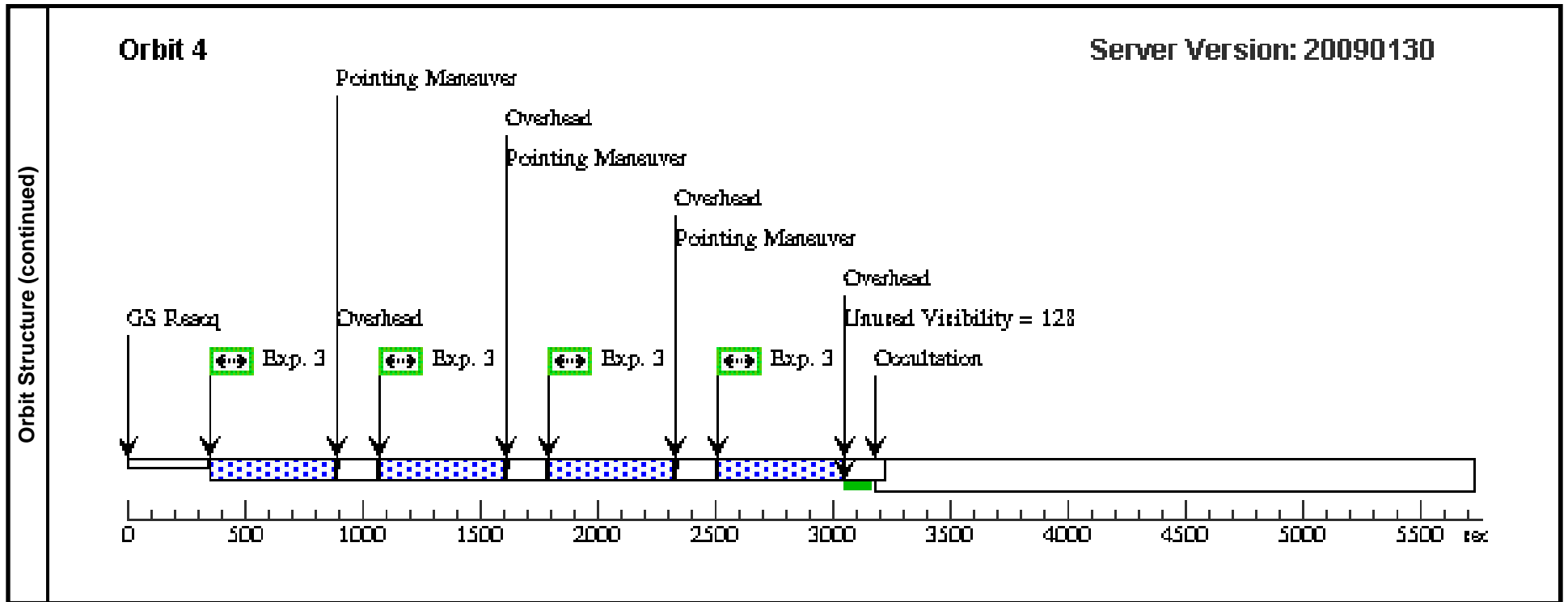
Proposal 11978 - Visit 08 - Luminous and dark matter in disk galaxies from strong lensing and stellar kinematics

Sat Apr 04 01:19:13 GMT 2009

Visit	Proposal 11978, Visit 08, scheduling Diagnostic Status: No Diagnostics Scientific Instruments: WFPC2 Special Requirements: (none)										
	Patterns	#	Primary Pattern				Secondary Pattern			Exposures	
		(1)	Pattern Type=WFPC2-BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.559017 Line Spacing=0.559017	Coordinate Frame=POS-TARG Pattern Orientation=26.56505 Angle Between Sides=143.130102 Center Pattern=false				(1), (2), (3)			
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous					
	(8)	SDSSJ1117+4704	RA: 11 17 35.3800 (169.3974167d) Dec: +47 04 7.40 (47.06872d) Equinox: J2000		V=17	Reference Frame: SDSS					
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]		Orbit
	1		(8) SDSSJ1117+4704 4	WFPC2, IMAGE, WF3	F450W	CR-SPLIT=NO		Pattern 1-1 (1)	1000 Secs		
									[=>1100.0 Secs (Pattern 1)]		[1]
									[=>1100.0 Secs (Pattern 2)]		[2]
									[=>1100.0 Secs (Pattern 3)]		
									[=>1100.0 Secs (Pattern 4)]		
	2		(8) SDSSJ1117+4704 4	WFPC2, IMAGE, WF3	F606W	CR-SPLIT=NO		Pattern 2-2 (1)	400 Secs		
									[=>400.0 Secs (Pattern 1)]		
									[=>400.0 Secs (Pattern 2)]		[3]
									[=>400.0 Secs (Pattern 3)]		
								[=>400.0 Secs (Pattern 4)]			
3		(8) SDSSJ1117+4704 4	WFPC2, IMAGE, WF3	F814W	CR-SPLIT=NO		Pattern 3-3 (1)	400 Secs			
								[=>400.0 Secs (Pattern 1)]			
								[=>400.0 Secs (Pattern 2)]			
								[=>400.0 Secs (Pattern 3)]		[4]	
								[=>400.0 Secs (Pattern 4)]			



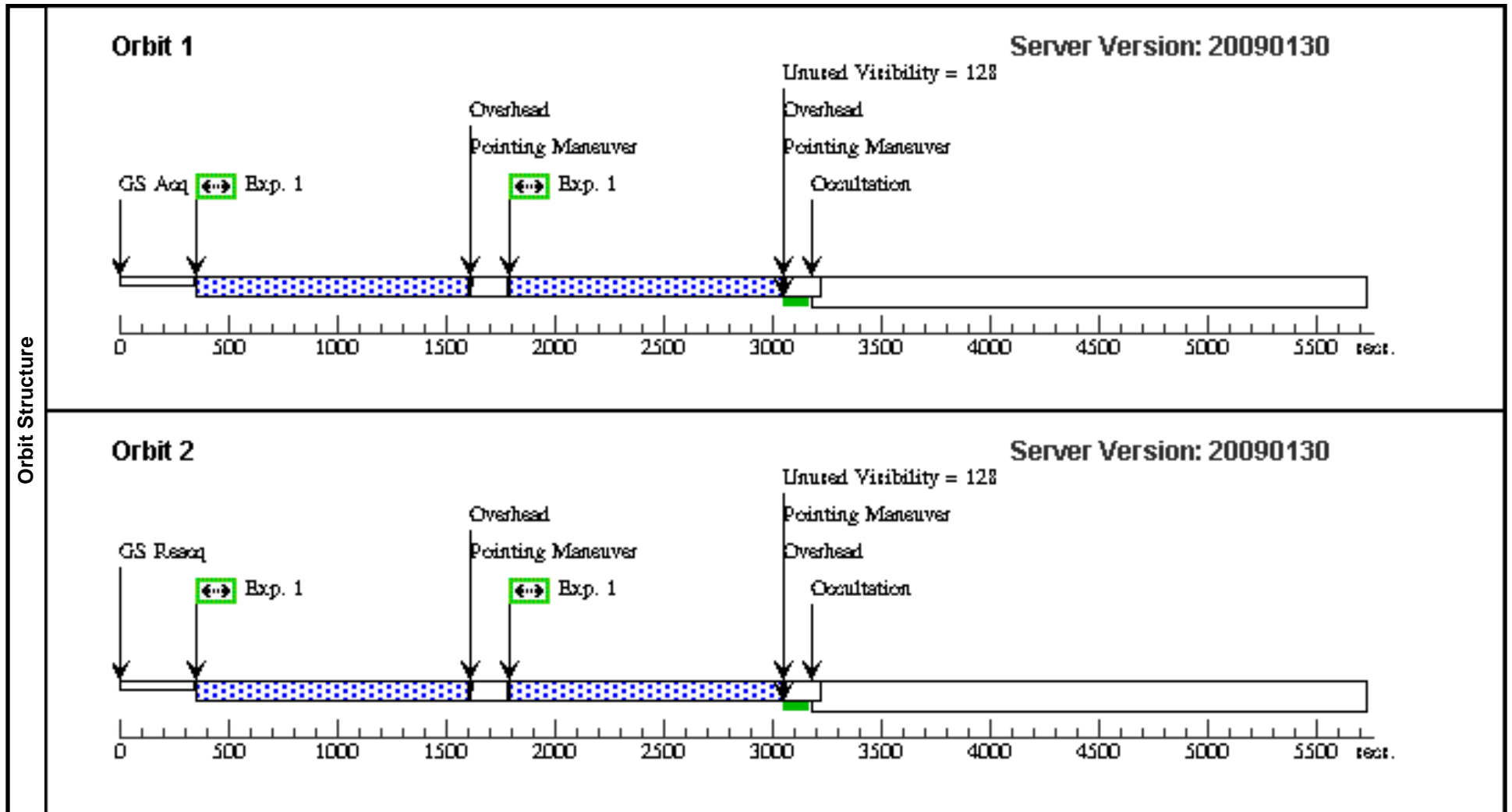


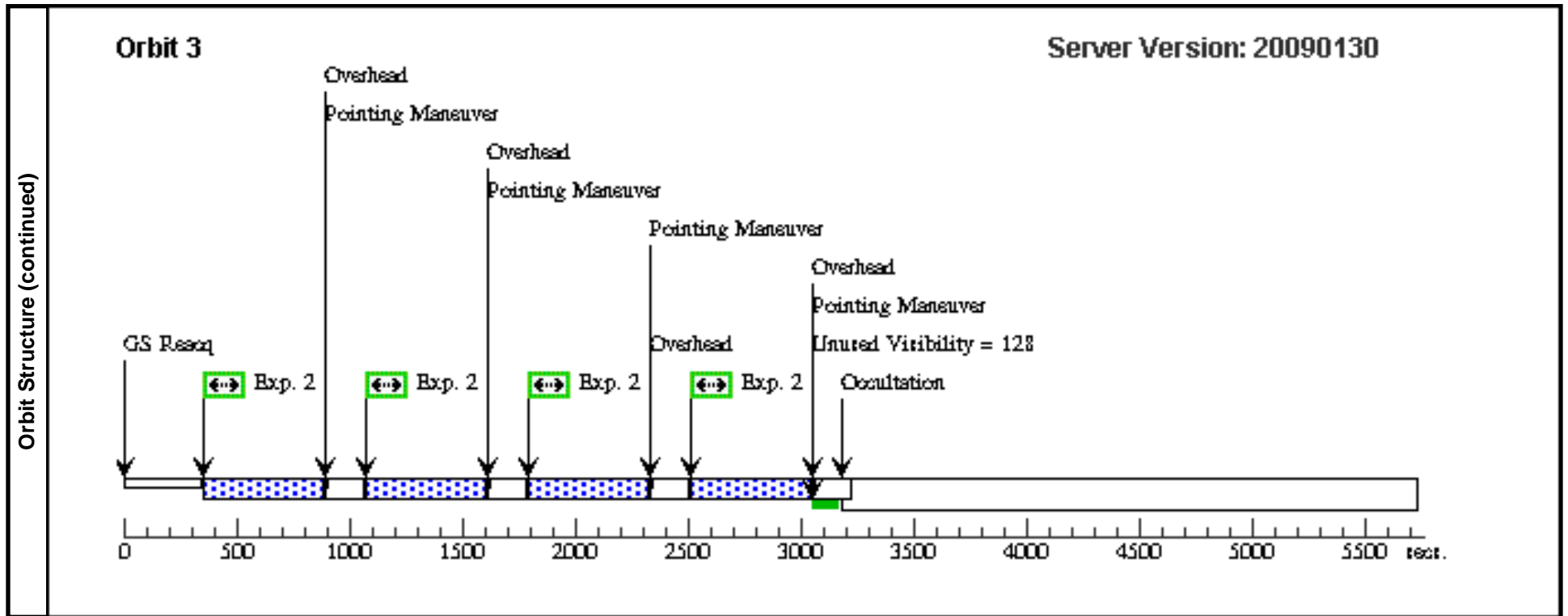


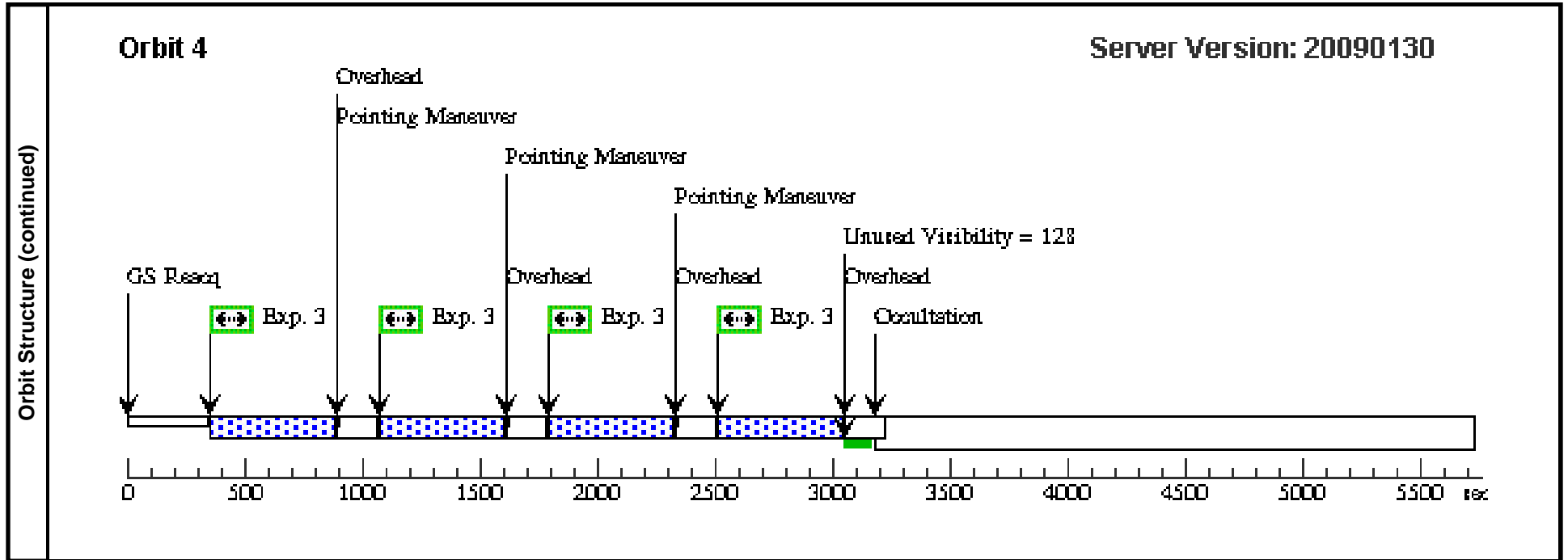
Proposal 11978 - Visit 09 - Luminous and dark matter in disk galaxies from strong lensing and stellar kinematics

Sat Apr 04 01:19:13 GMT 2009

Visit	Proposal 11978, Visit 09, completed Diagnostic Status: No Diagnostics Scientific Instruments: WFPC2 Special Requirements: (none)										
	Patterns	#	Primary Pattern				Secondary Pattern			Exposures	
		(1)	Pattern Type=WFPC2-BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.559017 Line Spacing=0.559017	Coordinate Frame=POS-TARG Pattern Orientation=26.56505 Angle Between Sides=143.130102 Center Pattern=false				(1), (2), (3)			
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous					
	(9)	SDSSJ0820+4847	RA: 08 20 12.8700 (125.0536250d) Dec: +48 47 36.70 (48.79353d) Equinox: J2000		V=17	Reference Frame: SDSS					
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]		Orbit
	1		(9) SDSSJ0820+4847	WFPC2, IMAGE, WF3	F450W	CR-SPLIT=NO		Pattern 1-1 (1)	1000 Secs		
			7						[=>1100.0 Secs (Pattern 1)]		[1]
									[=>1100.0 Secs (Pattern 2)]		
									[=>1100.0 Secs (Pattern 3)]		[2]
									[=>1100.0 Secs (Pattern 4)]		
	2		(9) SDSSJ0820+4847	WFPC2, IMAGE, WF3	F606W	CR-SPLIT=NO		Pattern 2-2 (1)	400 Secs		
			7						[=>400.0 Secs (Pattern 1)]		
									[=>400.0 Secs (Pattern 2)]		[3]
									[=>400.0 Secs (Pattern 3)]		
								[=>400.0 Secs (Pattern 4)]			
3		(9) SDSSJ0820+4847	WFPC2, IMAGE, WF3	F814W	CR-SPLIT=NO		Pattern 3-3 (1)	400 Secs			
		7						[=>400.0 Secs (Pattern 1)]			
								[=>400.0 Secs (Pattern 2)]		[4]	
								[=>400.0 Secs (Pattern 3)]			
								[=>400.0 Secs (Pattern 4)]			



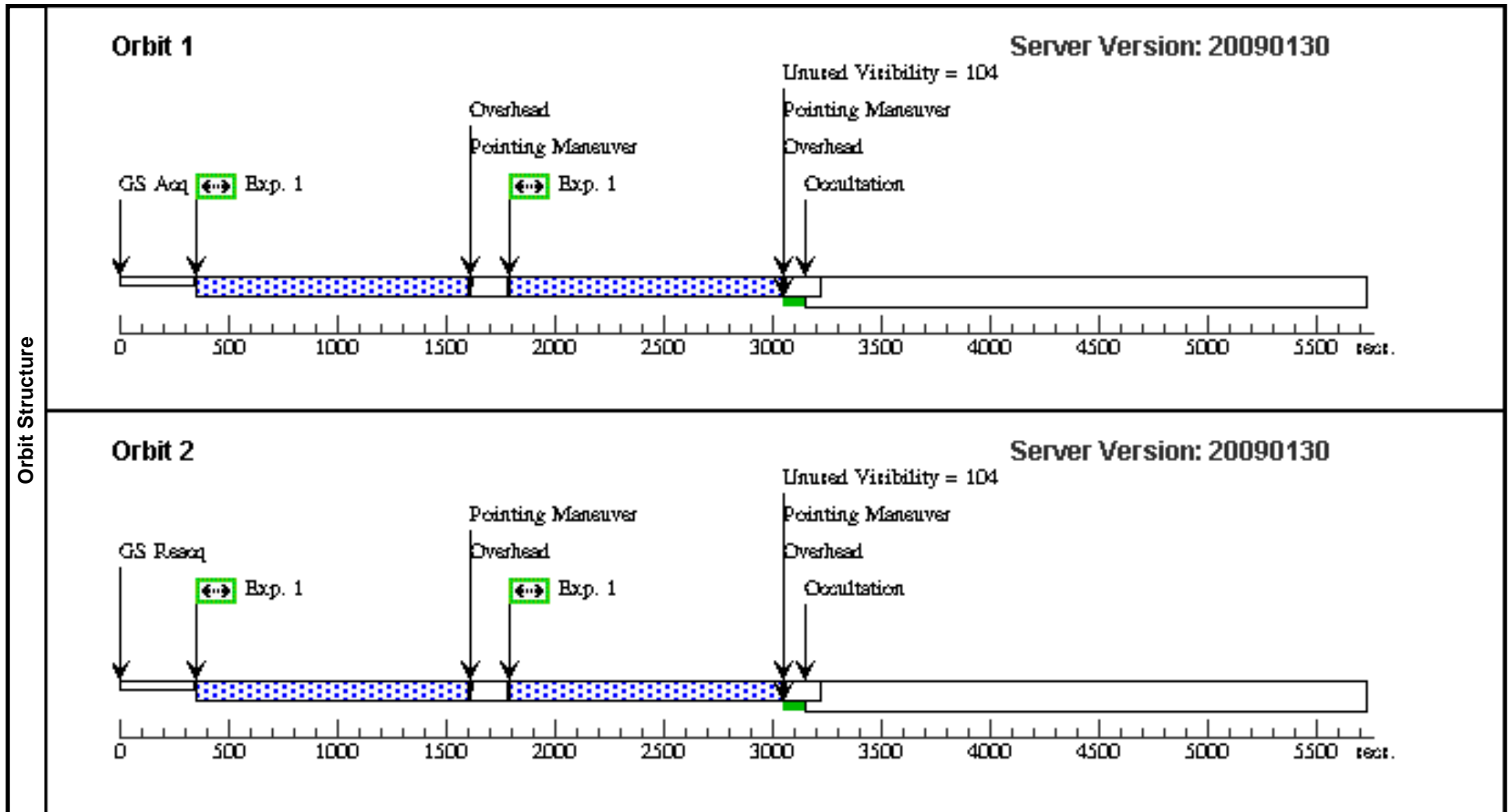


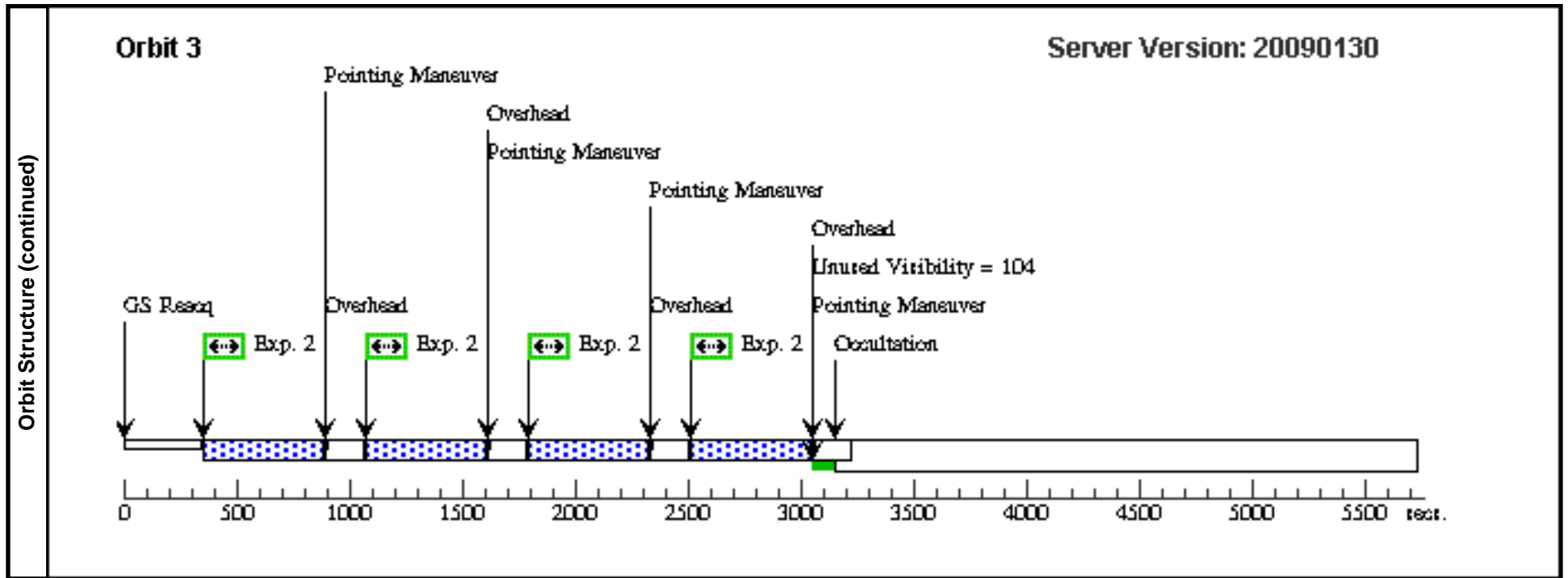


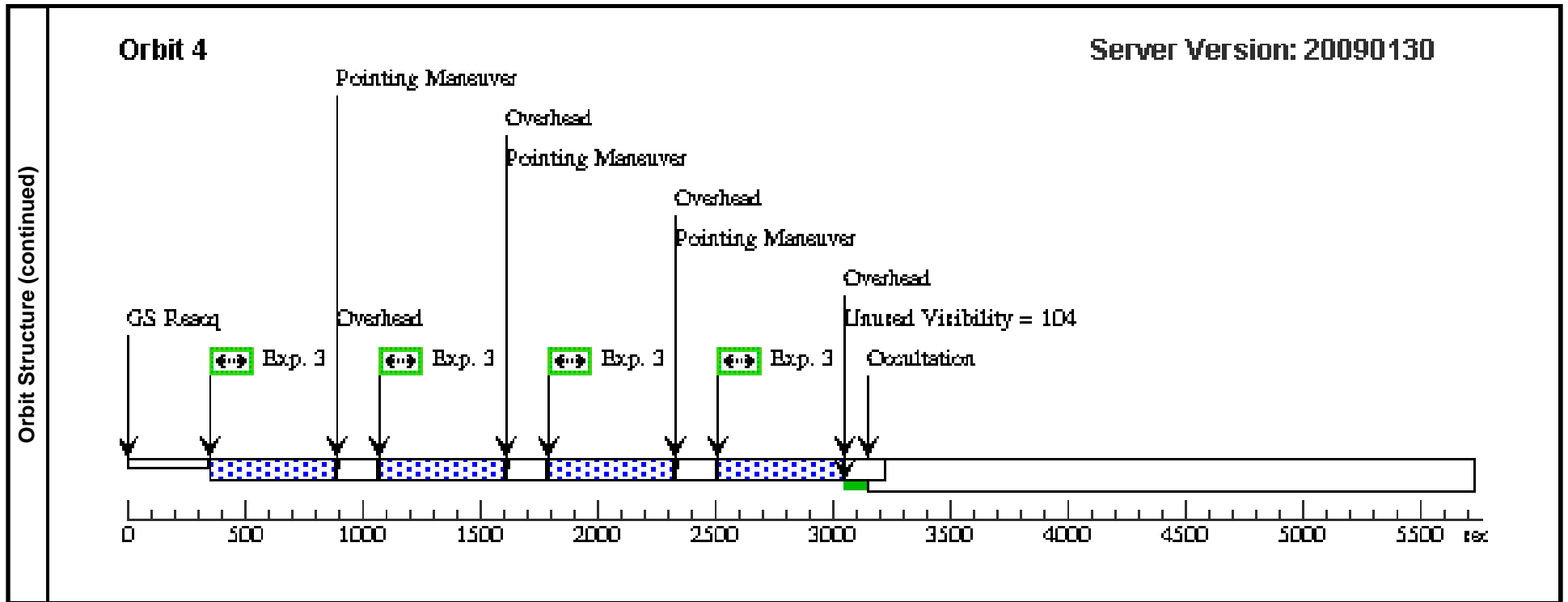
Proposal 11978 - Visit 10 - Luminous and dark matter in disk galaxies from strong lensing and stellar kinematics

Sat Apr 04 01:19:14 GMT 2009

Visit	Proposal 11978, Visit 10, completed Diagnostic Status: No Diagnostics Scientific Instruments: WFPC2 Special Requirements: (none)										
	Patterns	#	Primary Pattern			Secondary Pattern			Exposures		
		(1)	Pattern Type=WFPC2-BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.559017 Line Spacing=0.559017	Coordinate Frame=POS-TARG Pattern Orientation=26.56505 Angle Between Sides=143.130102 Center Pattern=false							(1), (2), (3)
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous					
	(10)	SDSSJ1331+3628	RA: 13 31 40.3300 (202.9180417d) Dec: +36 28 12.00 (36.47000d) Equinox: J2000		V=17	Reference Frame: SDSS					
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]		Orbit
	1		(10) SDSSJ1331+3628	WFPC2, IMAGE, WF3	F450W	CR-SPLIT=NO		Pattern 1-1 (1)	1000 Secs		
									[=>1100.0 Secs (Pattern 1)]		[1]
									[=>1100.0 Secs (Pattern 2)]		[2]
									[=>1100.0 Secs (Pattern 3)]		
									[=>1100.0 Secs (Pattern 4)]		
	2		(10) SDSSJ1331+3628	WFPC2, IMAGE, WF3	F606W	CR-SPLIT=NO		Pattern 2-2 (1)	400 Secs		
									[=>400.0 Secs (Pattern 1)]		
									[=>400.0 Secs (Pattern 2)]		[3]
									[=>400.0 Secs (Pattern 3)]		
								[=>400.0 Secs (Pattern 4)]			
3		(10) SDSSJ1331+3628	WFPC2, IMAGE, WF3	F814W	CR-SPLIT=NO		Pattern 3-3 (1)	400 Secs			
								[=>400.0 Secs (Pattern 1)]			
								[=>400.0 Secs (Pattern 2)]		[4]	
								[=>400.0 Secs (Pattern 3)]			
								[=>400.0 Secs (Pattern 4)]			



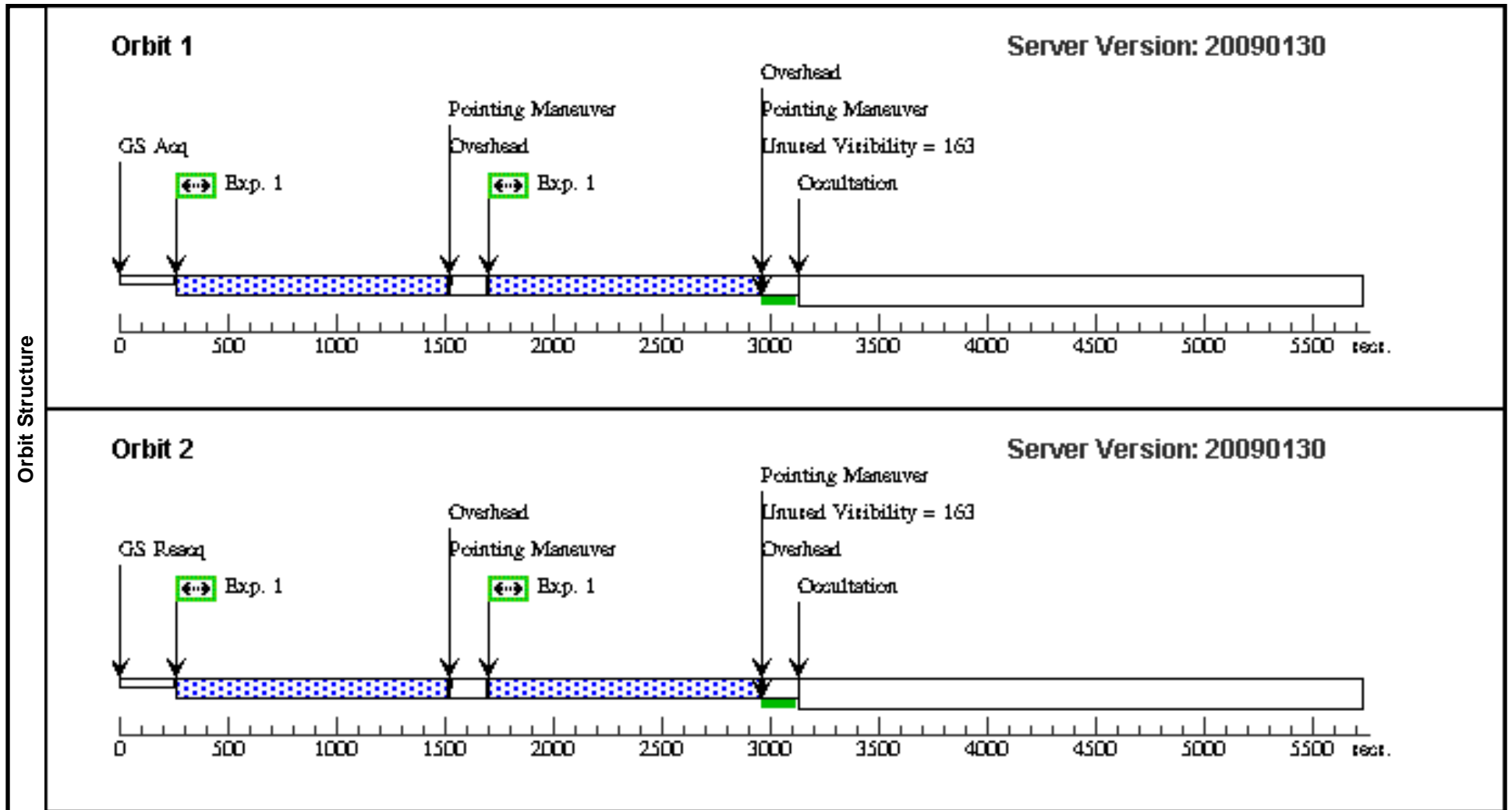


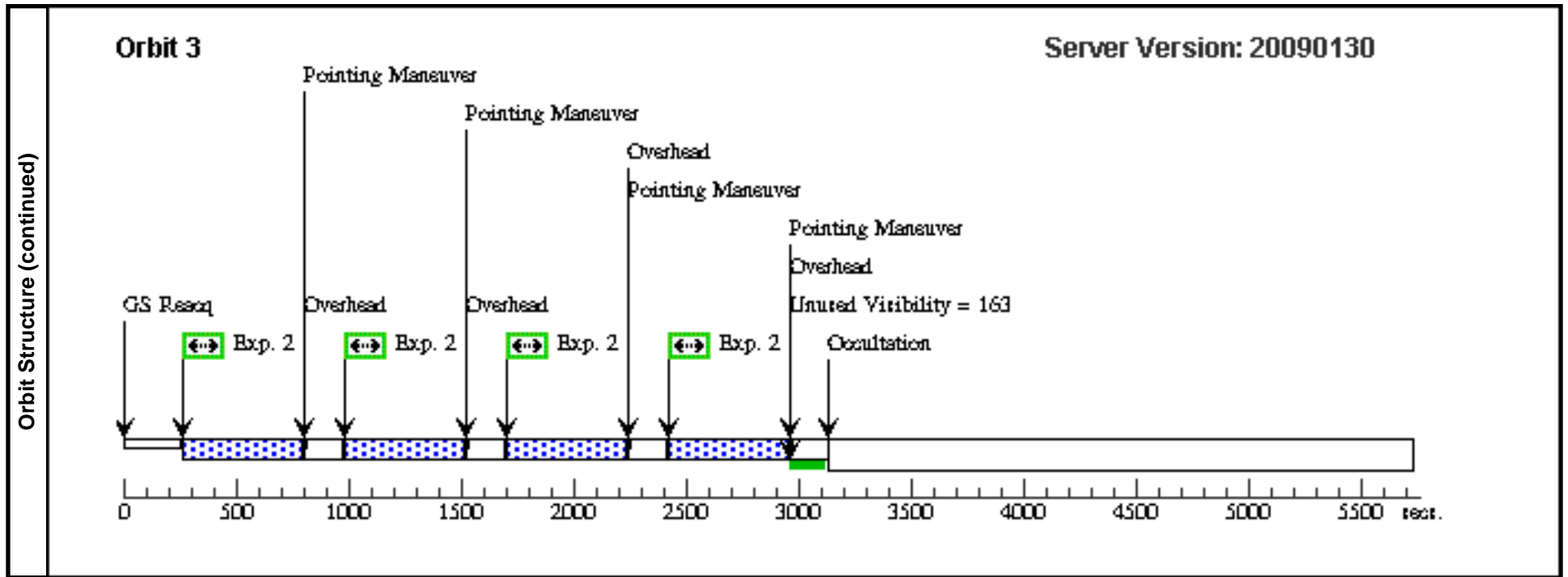


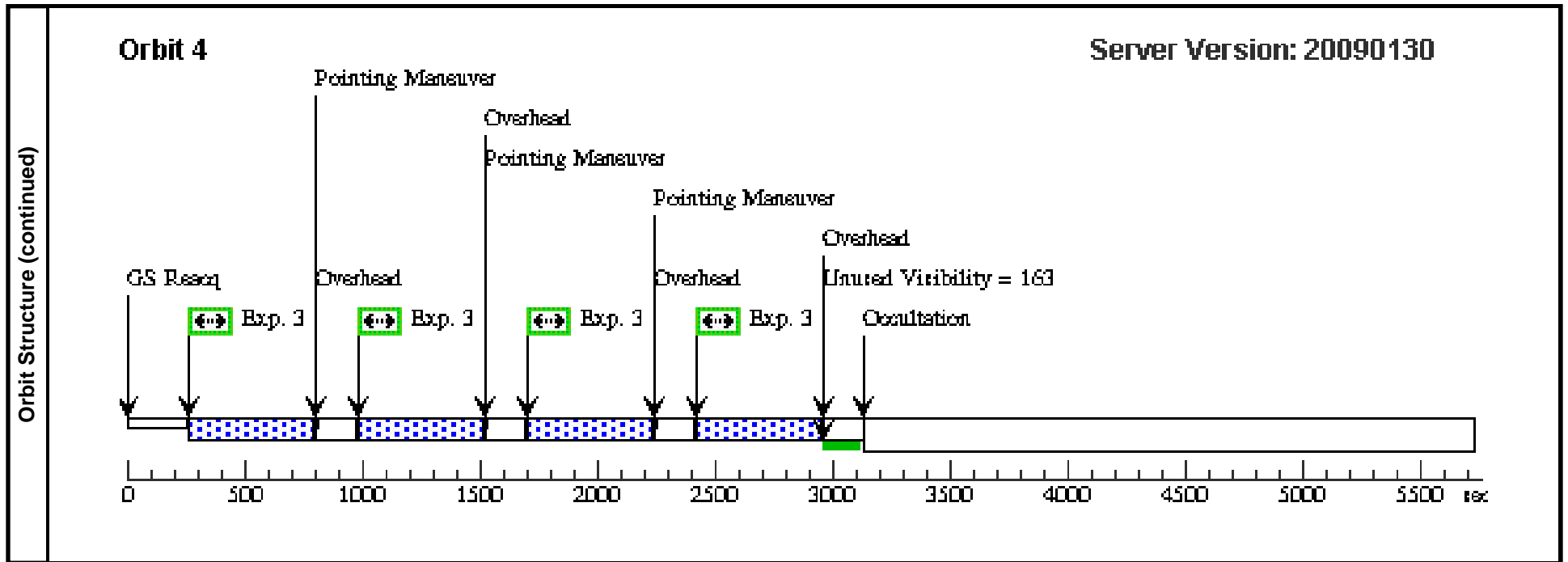
Proposal 11978 - Visit 11 - Luminous and dark matter in disk galaxies from strong lensing and stellar kinematics

Sat Apr 04 01:19:15 GMT 2009

Visit	Proposal 11978, Visit 11, scheduling Diagnostic Status: No Diagnostics Scientific Instruments: WFPC2 Special Requirements: (none)										
	Patterns	#	Primary Pattern				Secondary Pattern			Exposures	
		(1)	Pattern Type=WFPC2-BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.559017 Line Spacing=0.559017	Coordinate Frame=POS-TARG Pattern Orientation=26.56505 Angle Between Sides=143.130102 Center Pattern=false						(1), (2), (3)	
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous					
	(11)	SDSSJ1410+0205	RA: 14 10 17.6000 (212.5733333d) Dec: +02 05 28.20 (2.09117d) Equinox: J2000		V=17	Reference Frame: SDSS					
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]		Orbit
	1		(11) SDSSJ1410+0205	WFPC2, IMAGE, WF3	F450W	CR-SPLIT=NO	GS ACQ SCENARI O SINGLE	Pattern 1-1 (1)	1000 Secs		
									[==>1100.0 Secs (Pattern 1)]		[1]
									[==>1100.0 Secs (Pattern 2)]		[2]
									[==>1100.0 Secs (Pattern 3)]		
									[==>1100.0 Secs (Pattern 4)]		
	2		(11) SDSSJ1410+0205	WFPC2, IMAGE, WF3	F606W	CR-SPLIT=NO		Pattern 2-2 (1)	400 Secs		
									[==>400.0 Secs (Pattern 1)]		[3]
									[==>400.0 Secs (Pattern 2)]		
									[==>400.0 Secs (Pattern 3)]		
								[==>400.0 Secs (Pattern 4)]			
3		(11) SDSSJ1410+0205	WFPC2, IMAGE, WF3	F814W	CR-SPLIT=NO		Pattern 3-3 (1)	400 Secs			
								[==>400.0 Secs (Pattern 1)]		[4]	
								[==>400.0 Secs (Pattern 2)]			
								[==>400.0 Secs (Pattern 3)]			
								[==>400.0 Secs (Pattern 4)]			



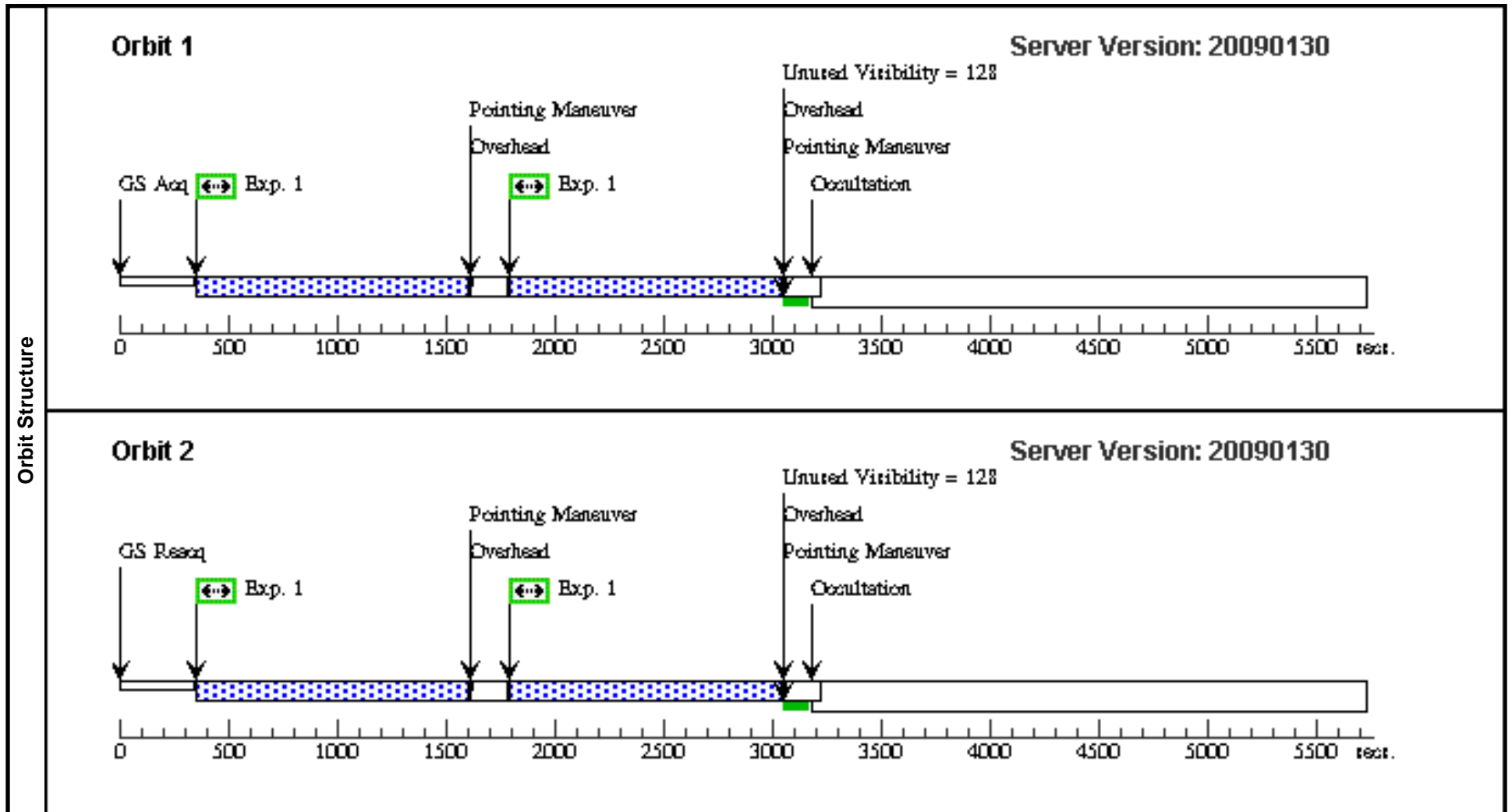


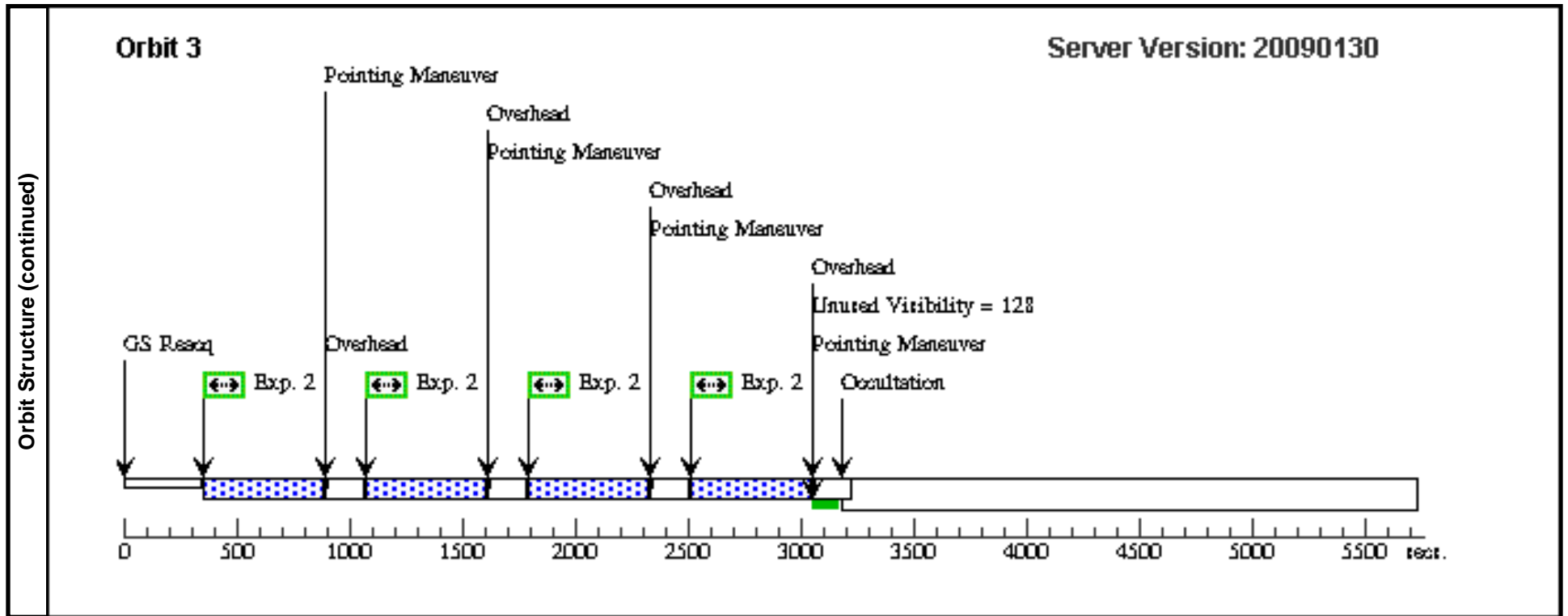


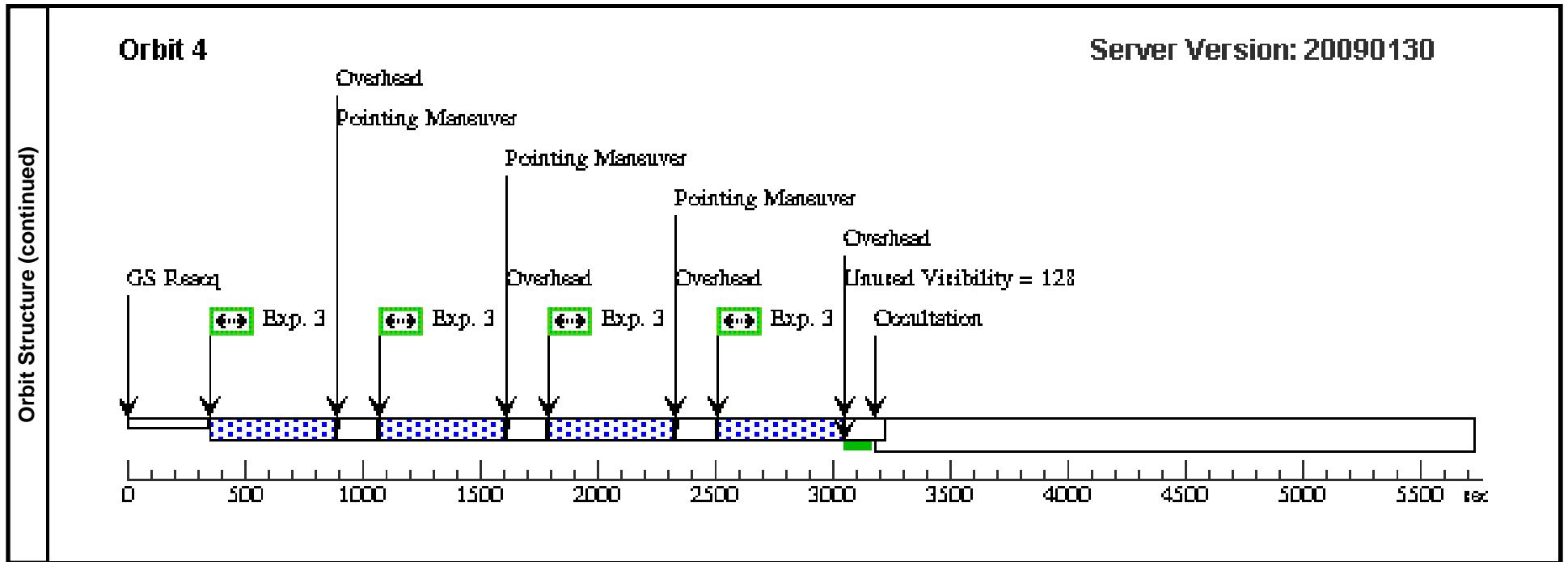
Proposal 11978 - Visit 12 - Luminous and dark matter in disk galaxies from strong lensing and stellar kinematics

Sat Apr 04 01:19:15 GMT 2009

Visit	Proposal 11978, Visit 12, scheduling Diagnostic Status: No Diagnostics Scientific Instruments: WFPC2 Special Requirements: (none)										
	Patterns	#	Primary Pattern				Secondary Pattern			Exposures	
		(1)	Pattern Type=WFPC2-BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.559017 Line Spacing=0.559017	Coordinate Frame=POS-TARG Pattern Orientation=26.56505 Angle Between Sides=143.130102 Center Pattern=false						(1), (2), (3)	
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous					
	(12)	SDSSJ1629+4708	RA: 16 29 9.9200 (247.2913333d) Dec: +47 08 43.20 (47.14533d) Equinox: J2000		V=17	Reference Frame: SDSS					
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]		Orbit
	1		(12) SDSSJ1629+4708	WFPC2, IMAGE, WF3	F450W	CR-SPLIT=NO		Pattern 1-1 (1)	1000 Secs		
									[=>1100.0 Secs (Pattern 1)]		[1]
									[=>1100.0 Secs (Pattern 2)]		[2]
									[=>1100.0 Secs (Pattern 3)]		
									[=>1100.0 Secs (Pattern 4)]		
	2		(12) SDSSJ1629+4708	WFPC2, IMAGE, WF3	F606W	CR-SPLIT=NO		Pattern 2-2 (1)	400 Secs		
									[=>400.0 Secs (Pattern 1)]		
									[=>400.0 Secs (Pattern 2)]		[3]
									[=>400.0 Secs (Pattern 3)]		
								[=>400.0 Secs (Pattern 4)]			
3		(12) SDSSJ1629+4708	WFPC2, IMAGE, WF3	F814W	CR-SPLIT=NO		Pattern 3-3 (1)	400 Secs			
								[=>400.0 Secs (Pattern 1)]			
								[=>400.0 Secs (Pattern 2)]		[4]	
								[=>400.0 Secs (Pattern 3)]			
								[=>400.0 Secs (Pattern 4)]			



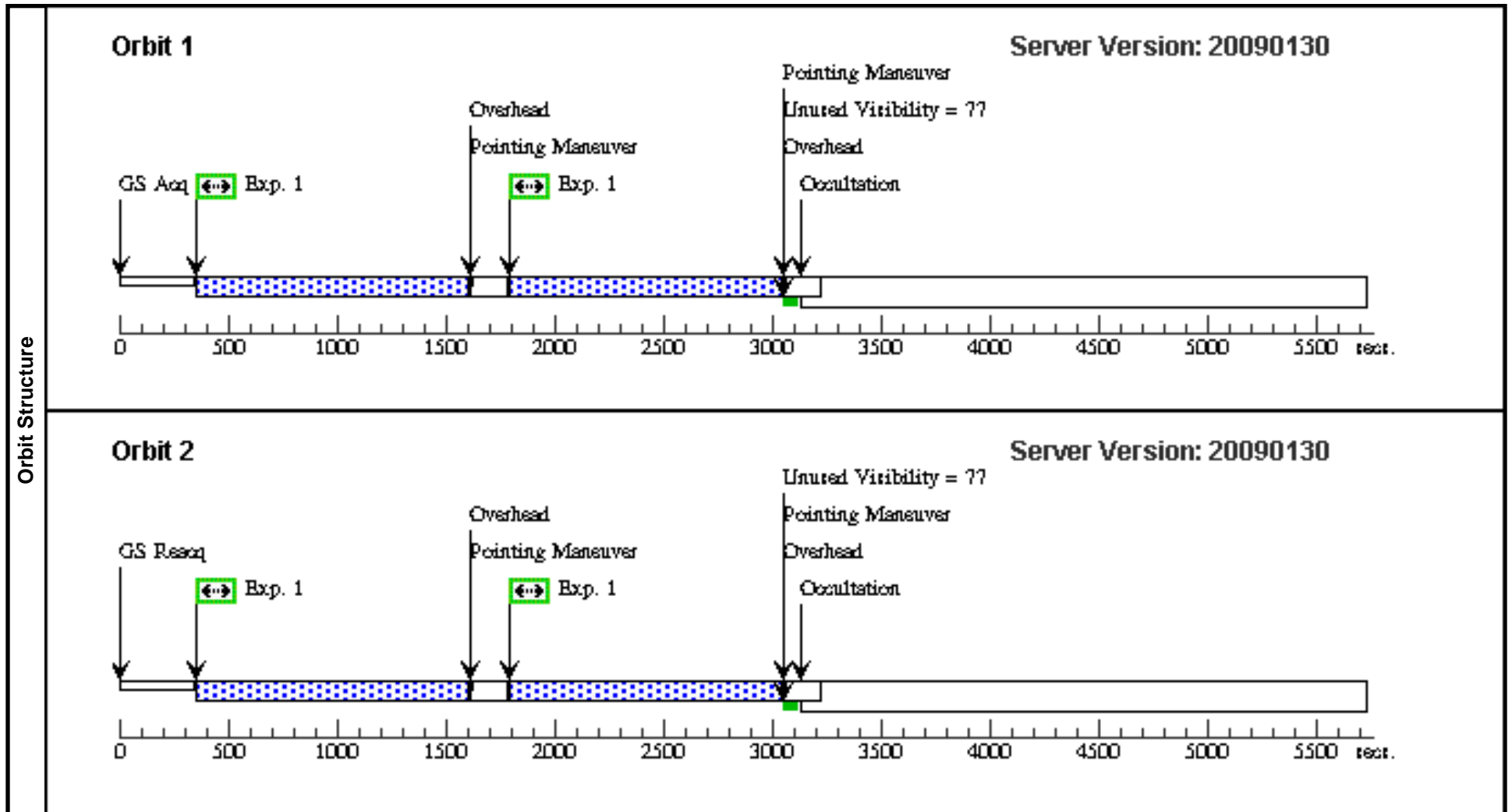


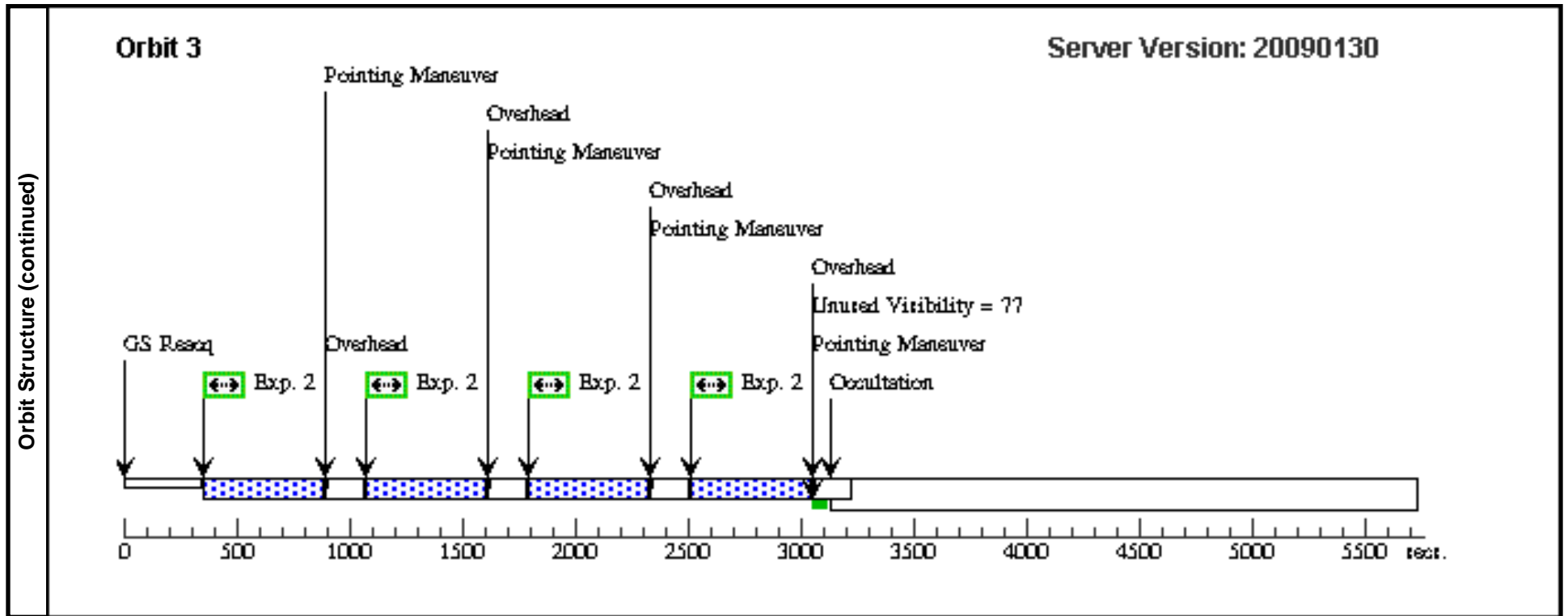


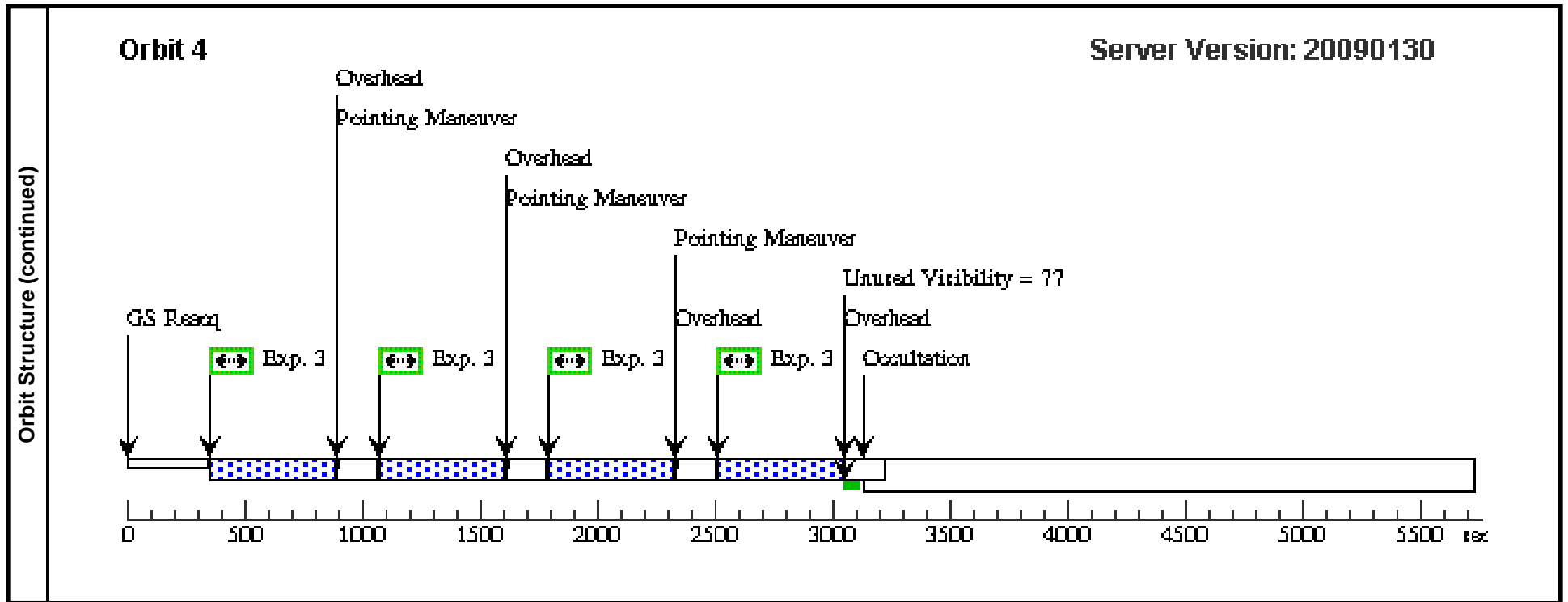
Proposal 11978 - Visit 13 - Luminous and dark matter in disk galaxies from strong lensing and stellar kinematics

Sat Apr 04 01:19:16 GMT 2009

Visit	Proposal 11978, Visit 13, completed Diagnostic Status: No Diagnostics Scientific Instruments: WFPC2 Special Requirements: (none)										
	Patterns	#	Primary Pattern				Secondary Pattern			Exposures	
		(1)	Pattern Type=WFPC2-BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.559017 Line Spacing=0.559017	Coordinate Frame=POS-TARG Pattern Orientation=26.56505 Angle Between Sides=143.130102 Center Pattern=false						(1), (2), (3)	
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous					
	(13)	SDSSJ1321-0115	RA: 13 21 15.8600 (200.3160833d) Dec: -01 15 17.80 (-1.25494d) Equinox: J2000		V=17	Reference Frame: SDSS					
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]		Orbit
	1		(13) SDSSJ1321-0115	WFPC2, IMAGE, WF3	F450W	CR-SPLIT=NO		Pattern 1-1 (1)	1000 Secs		
			5						[==>1100.0 Secs (Pattern 1)]		[1]
									[==>1100.0 Secs (Pattern 2)]		[2]
									[==>1100.0 Secs (Pattern 3)]		
									[==>1100.0 Secs (Pattern 4)]		
	2		(13) SDSSJ1321-0115	WFPC2, IMAGE, WF3	F606W	CR-SPLIT=NO		Pattern 2-2 (1)	400 Secs		
			5						[==>400.0 Secs (Pattern 1)]		[3]
									[==>400.0 Secs (Pattern 2)]		
									[==>400.0 Secs (Pattern 3)]		
								[==>400.0 Secs (Pattern 4)]			
3		(13) SDSSJ1321-0115	WFPC2, IMAGE, WF3	F814W	CR-SPLIT=NO		Pattern 3-3 (1)	400 Secs			
		5						[==>400.0 Secs (Pattern 1)]		[4]	
								[==>400.0 Secs (Pattern 2)]			
								[==>400.0 Secs (Pattern 3)]			
								[==>400.0 Secs (Pattern 4)]			



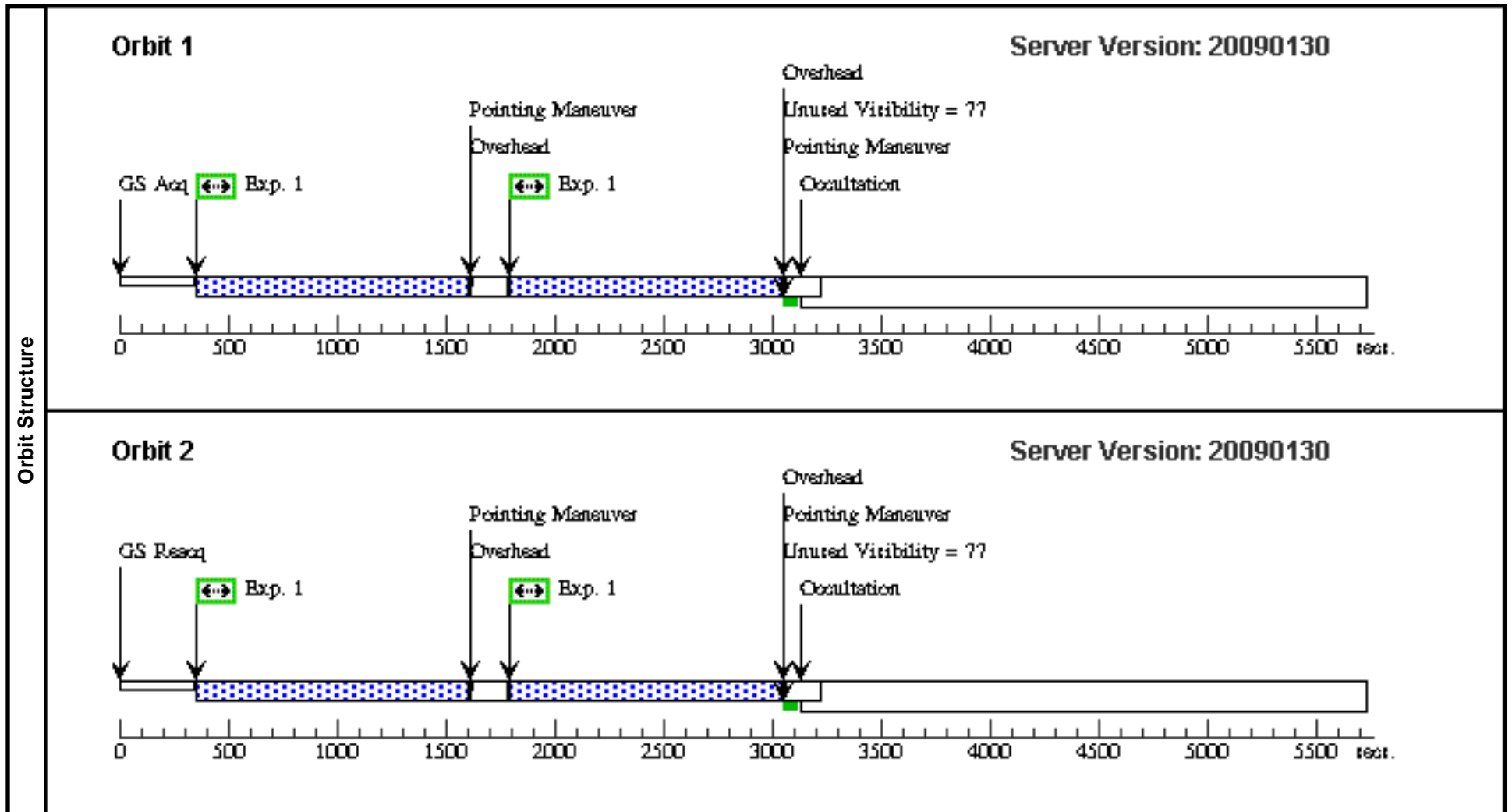


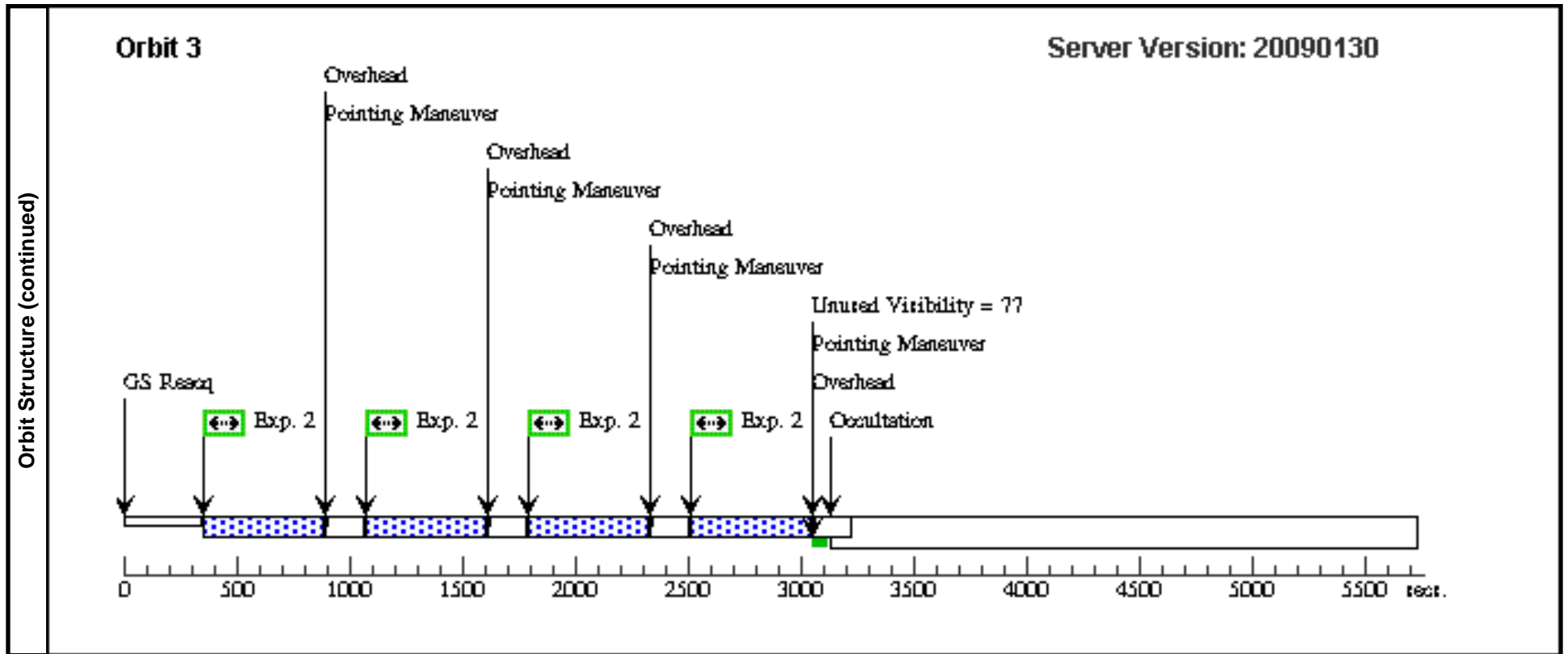


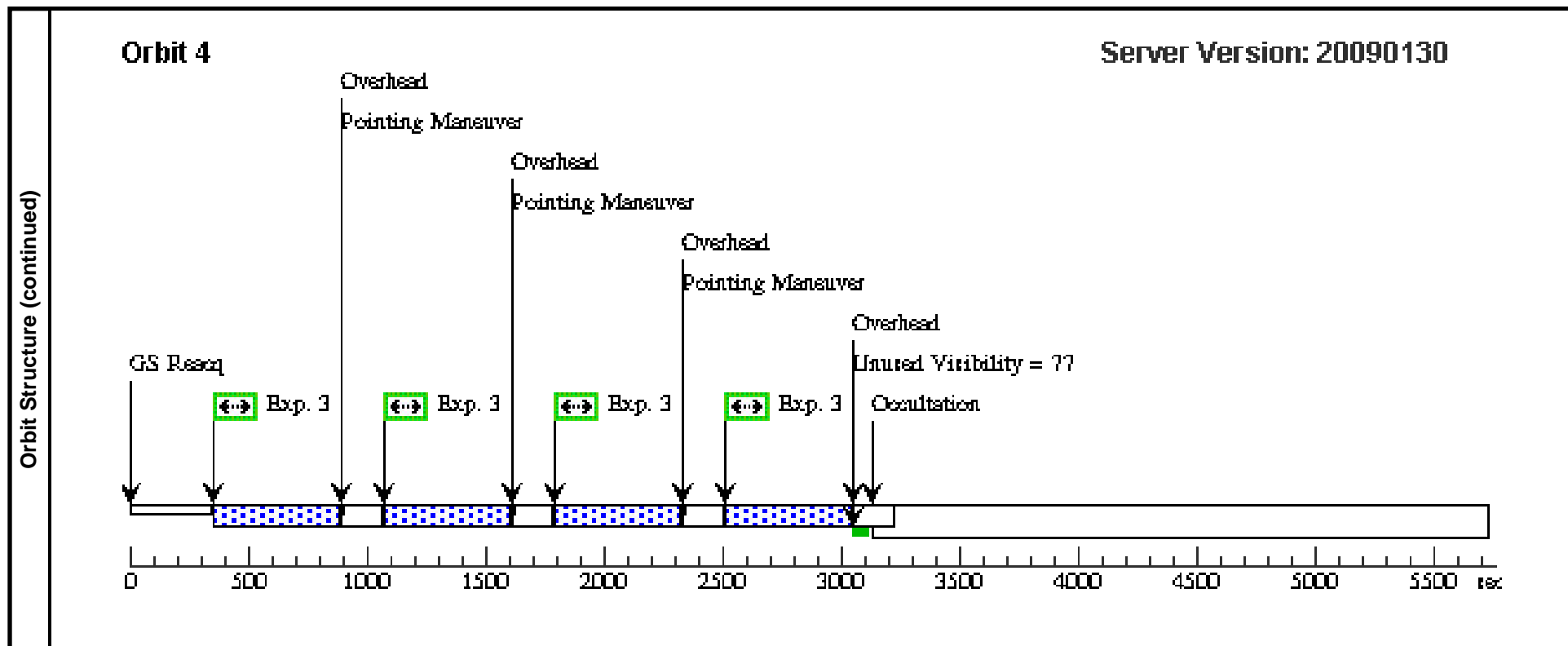
Proposal 11978 - Visit 14 - Luminous and dark matter in disk galaxies from strong lensing and stellar kinematics

Sat Apr 04 01:19:17 GMT 2009

Visit	Proposal 11978, Visit 14, scheduling Diagnostic Status: No Diagnostics Scientific Instruments: WFPC2 Special Requirements: (none)										
	Patterns	#	Primary Pattern				Secondary Pattern			Exposures	
		(1)	Pattern Type=WFPC2-BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.559017 Line Spacing=0.559017	Coordinate Frame=POS-TARG Pattern Orientation=26.56505 Angle Between Sides=143.130102 Center Pattern=false				(1), (2), (3)			
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous					
	(14)	SDSSJ2210-0934	RA: 22 10 5.7500 (332.5239583d) Dec: -09 34 16.00 (-9.57111d) Equinox: J2000		V=17	Reference Frame: SDSS					
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]		Orbit
	1		(14) SDSSJ2210-0934	WFPC2, IMAGE, WF3	F450W	CR-SPLIT=NO		Pattern 1-1 (1)	1000 Secs		
			4						[==>1100.0 Secs (Pattern 1)]		[1]
									[==>1100.0 Secs (Pattern 2)]		
									[==>1100.0 Secs (Pattern 3)]		[2]
									[==>1100.0 Secs (Pattern 4)]		
	2		(14) SDSSJ2210-0934	WFPC2, IMAGE, WF3	F606W	CR-SPLIT=NO		Pattern 2-2 (1)	400 Secs		
			4						[==>400.0 Secs (Pattern 1)]		
									[==>400.0 Secs (Pattern 2)]		
									[==>400.0 Secs (Pattern 3)]		[3]
									[==>400.0 Secs (Pattern 4)]		
	3		(14) SDSSJ2210-0934	WFPC2, IMAGE, WF3	F814W	CR-SPLIT=NO		Pattern 3-3 (1)	400 Secs		
			4						[==>400.0 Secs (Pattern 1)]		
								[==>400.0 Secs (Pattern 2)]			
								[==>400.0 Secs (Pattern 3)]		[4]	
								[==>400.0 Secs (Pattern 4)]			



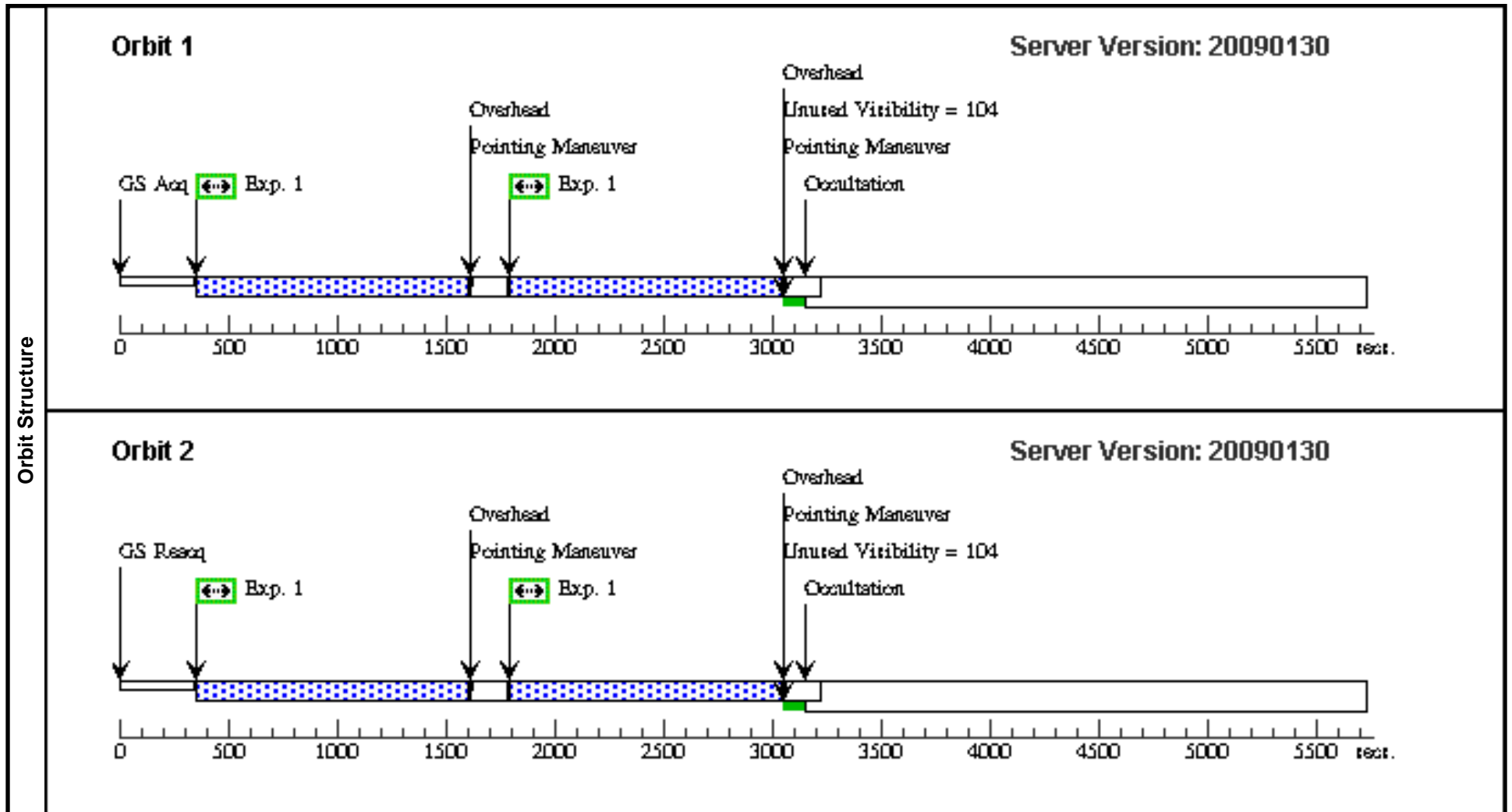


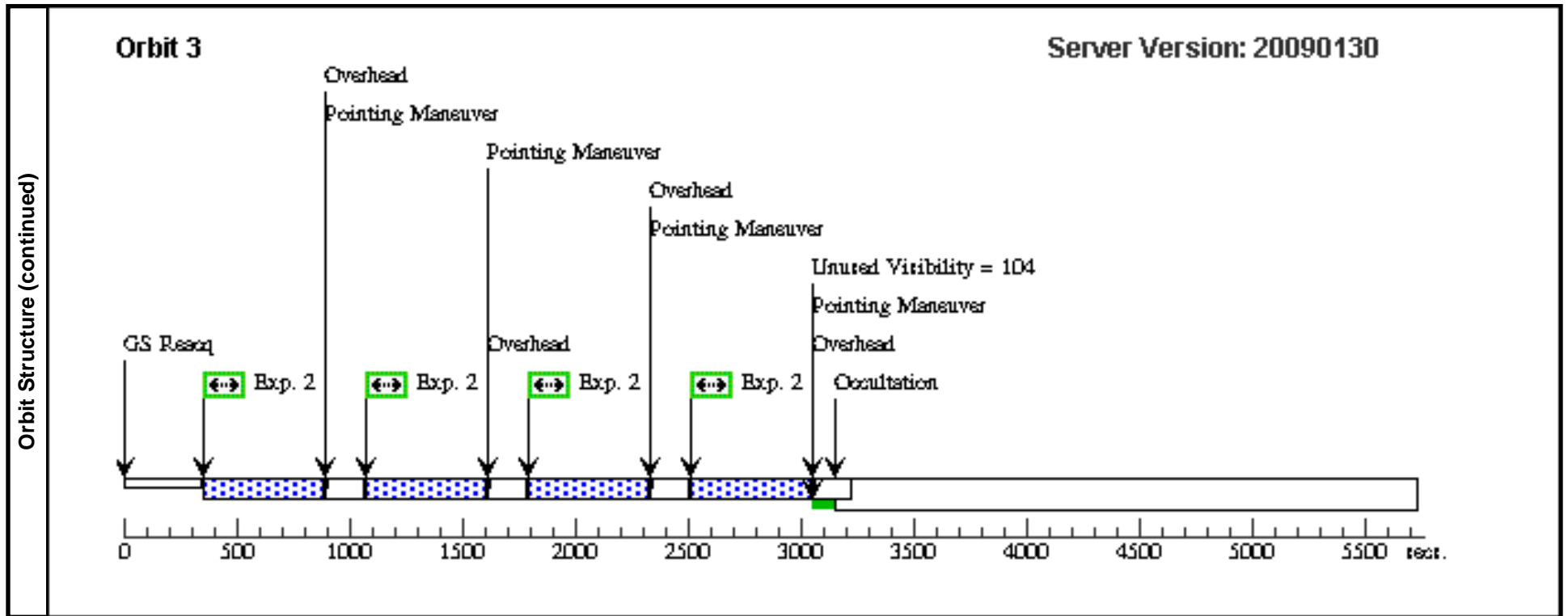


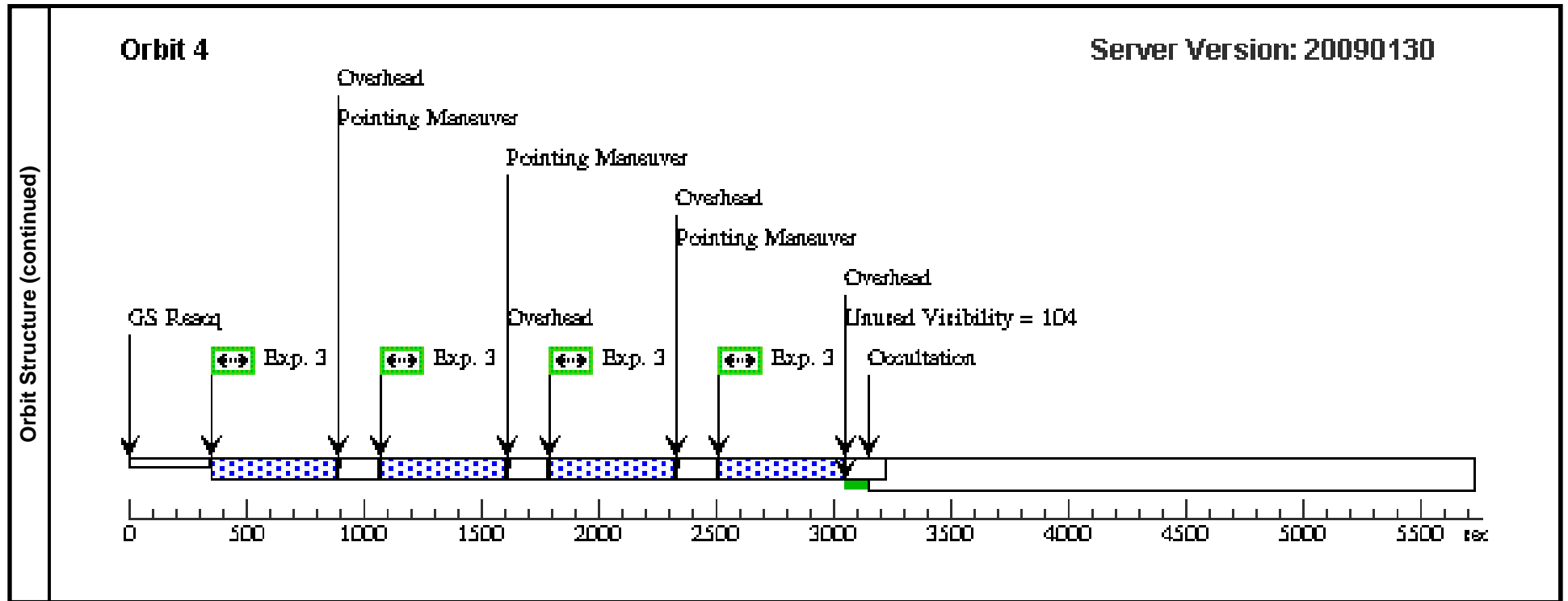
Proposal 11978 - Visit 15 - Luminous and dark matter in disk galaxies from strong lensing and stellar kinematics

Sat Apr 04 01:19:18 GMT 2009

Visit	Proposal 11978, Visit 15, scheduling Diagnostic Status: No Diagnostics Scientific Instruments: WFPC2 Special Requirements: (none)										
	Patterns	#	Primary Pattern			Secondary Pattern			Exposures		
		(1)	Pattern Type=WFPC2-BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.559017 Line Spacing=0.559017	Coordinate Frame=POS-TARG Pattern Orientation=26.56505 Angle Between Sides=143.130102 Center Pattern=false							(1), (2), (3)
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous					
	(15)	SDSS1135+3720	RA: 11 35 6.8800 (173.7786667d) Dec: +37 20 23.90 (37.33997d) Equinox: J2000		V=17	Reference Frame: SDSS					
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]		Orbit
	1		(15) SDSS1135+3720 0	WFPC2, IMAGE, WF3	F450W	CR-SPLIT=NO		Pattern 1-1 (1)	1000 Secs		
									[==>1100.0 Secs (Pattern 1)]		[1]
									[==>1100.0 Secs (Pattern 2)]		[2]
									[==>1100.0 Secs (Pattern 3)]		
									[==>1100.0 Secs (Pattern 4)]		
	2		(15) SDSS1135+3720 0	WFPC2, IMAGE, WF3	F606W	CR-SPLIT=NO		Pattern 2-2 (1)	400 Secs		
									[==>400.0 Secs (Pattern 1)]		
									[==>400.0 Secs (Pattern 2)]		[3]
									[==>400.0 Secs (Pattern 3)]		
								[==>400.0 Secs (Pattern 4)]			
3		(15) SDSS1135+3720 0	WFPC2, IMAGE, WF3	F814W	CR-SPLIT=NO		Pattern 3-3 (1)	400 Secs			
								[==>400.0 Secs (Pattern 1)]			
								[==>400.0 Secs (Pattern 2)]			
								[==>400.0 Secs (Pattern 3)]		[4]	
								[==>400.0 Secs (Pattern 4)]			



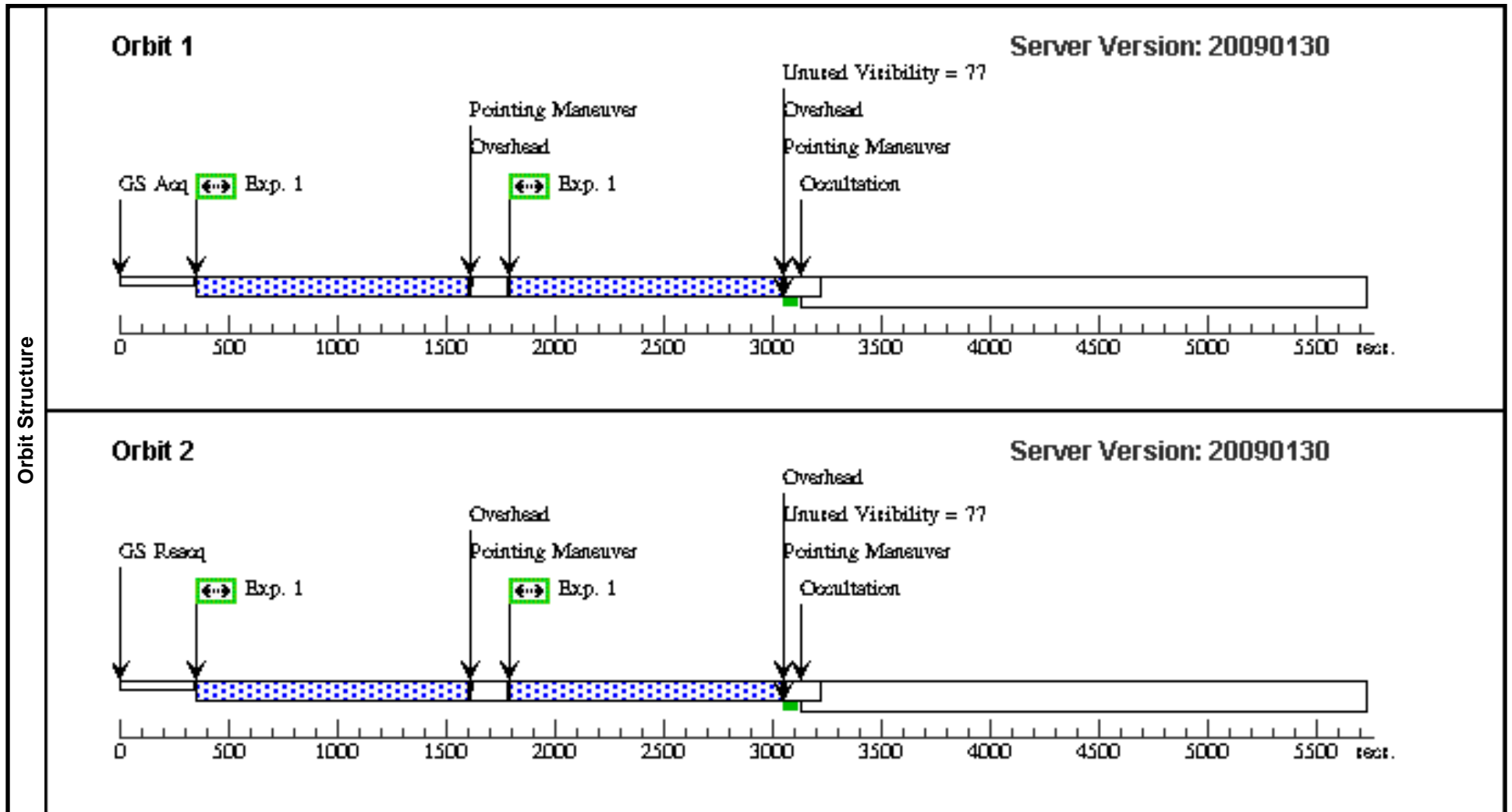


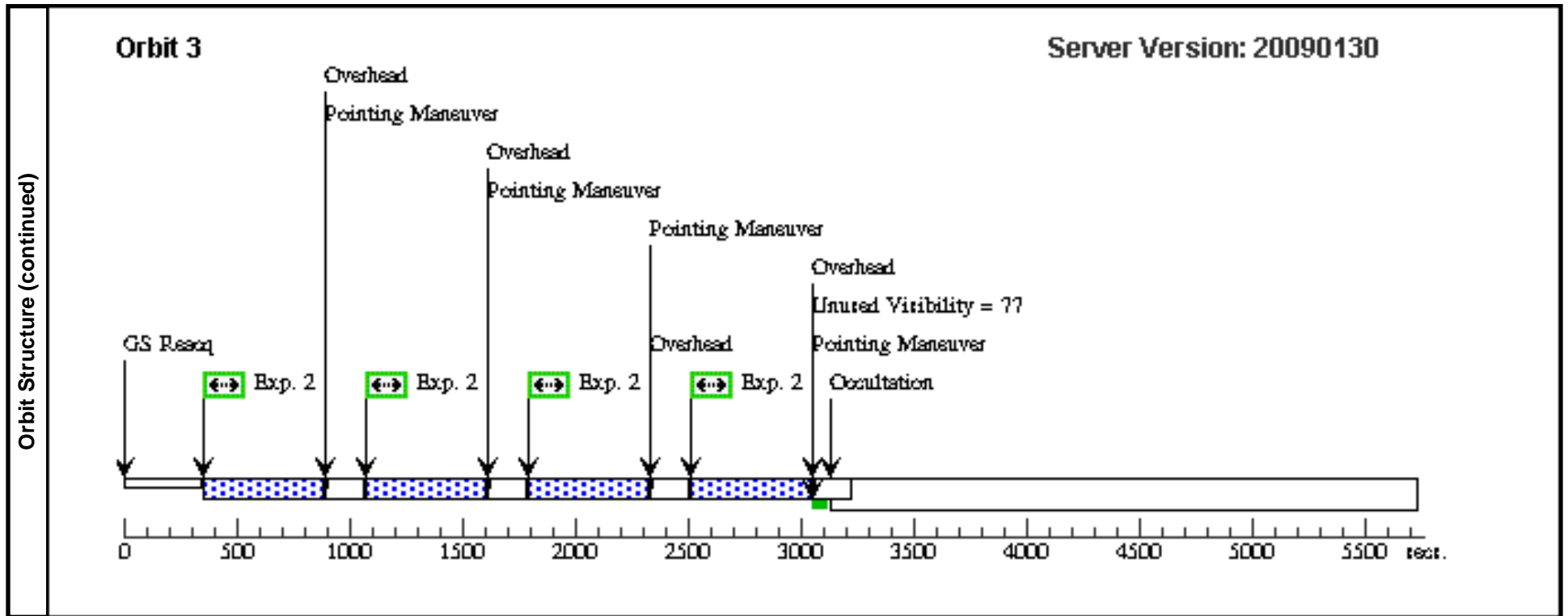


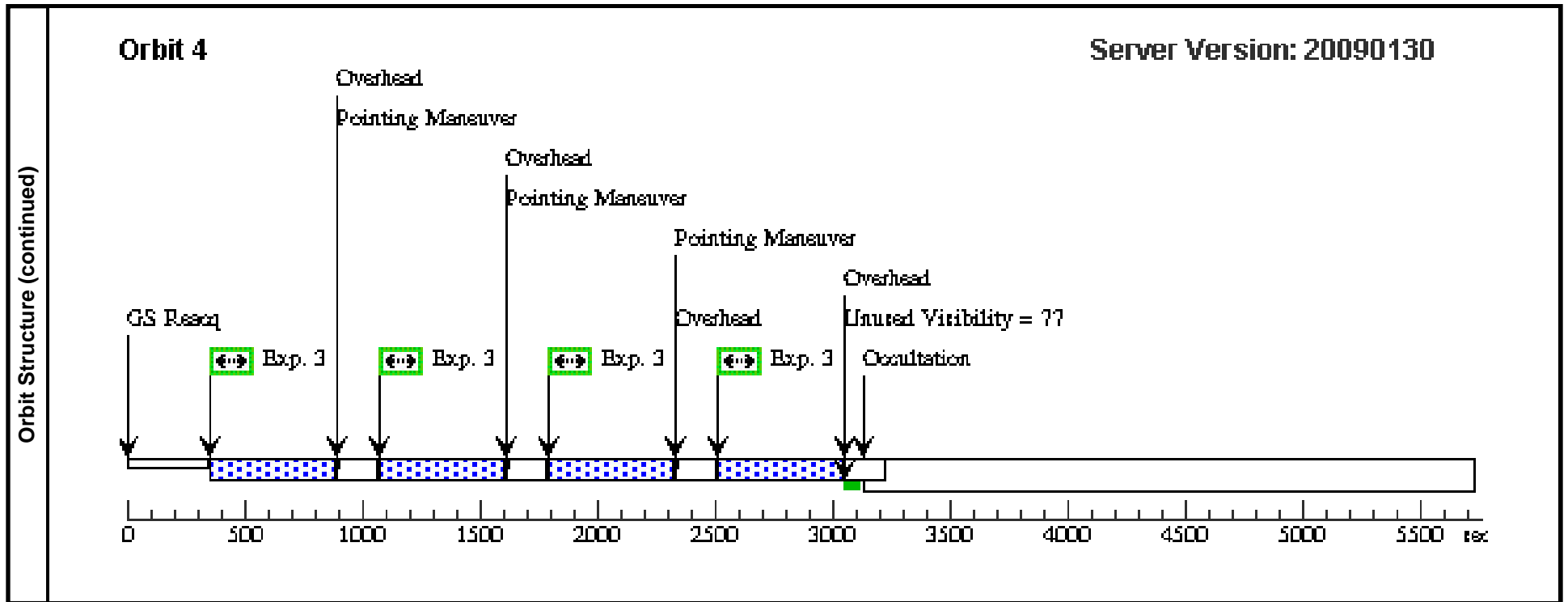
Proposal 11978 - Visit 16 - Luminous and dark matter in disk galaxies from strong lensing and stellar kinematics

Sat Apr 04 01:19:19 GMT 2009

Visit	Proposal 11978, Visit 16, completed Diagnostic Status: No Diagnostics Scientific Instruments: WFPC2 Special Requirements: (none)										
	Patterns	#	Primary Pattern			Secondary Pattern			Exposures		
		(1)	Pattern Type=WFPC2-BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.559017 Line Spacing=0.559017	Coordinate Frame=POS-TARG Pattern Orientation=26.56505 Angle Between Sides=143.130102 Center Pattern=false							(1), (2), (3)
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous					
	(16)	SDSSJ1056+0005	RA: 10 56 31.8400 (164.1326667d) Dec: +00 05 4.70 (.08464d) Equinox: J2000		V=17	Reference Frame: SDSS					
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]		Orbit
	1		(16) SDSSJ1056+0005	WFPC2, IMAGE, WF3	F450W	CR-SPLIT=NO		Pattern 1-1 (1)	1000 Secs		
									[==>1100.0 Secs (Pattern 1)]		[1]
									[==>1100.0 Secs (Pattern 2)]		
									[==>1100.0 Secs (Pattern 3)]		[2]
									[==>1100.0 Secs (Pattern 4)]		
	2		(16) SDSSJ1056+0005	WFPC2, IMAGE, WF3	F606W	CR-SPLIT=NO		Pattern 2-2 (1)	400 Secs		
									[==>400.0 Secs (Pattern 1)]		
									[==>400.0 Secs (Pattern 2)]		
									[==>400.0 Secs (Pattern 3)]		[3]
								[==>400.0 Secs (Pattern 4)]			
3		(16) SDSSJ1056+0005	WFPC2, IMAGE, WF3	F814W	CR-SPLIT=NO		Pattern 3-3 (1)	400 Secs			
								[==>400.0 Secs (Pattern 1)]			
								[==>400.0 Secs (Pattern 2)]			
								[==>400.0 Secs (Pattern 3)]		[4]	
								[==>400.0 Secs (Pattern 4)]			



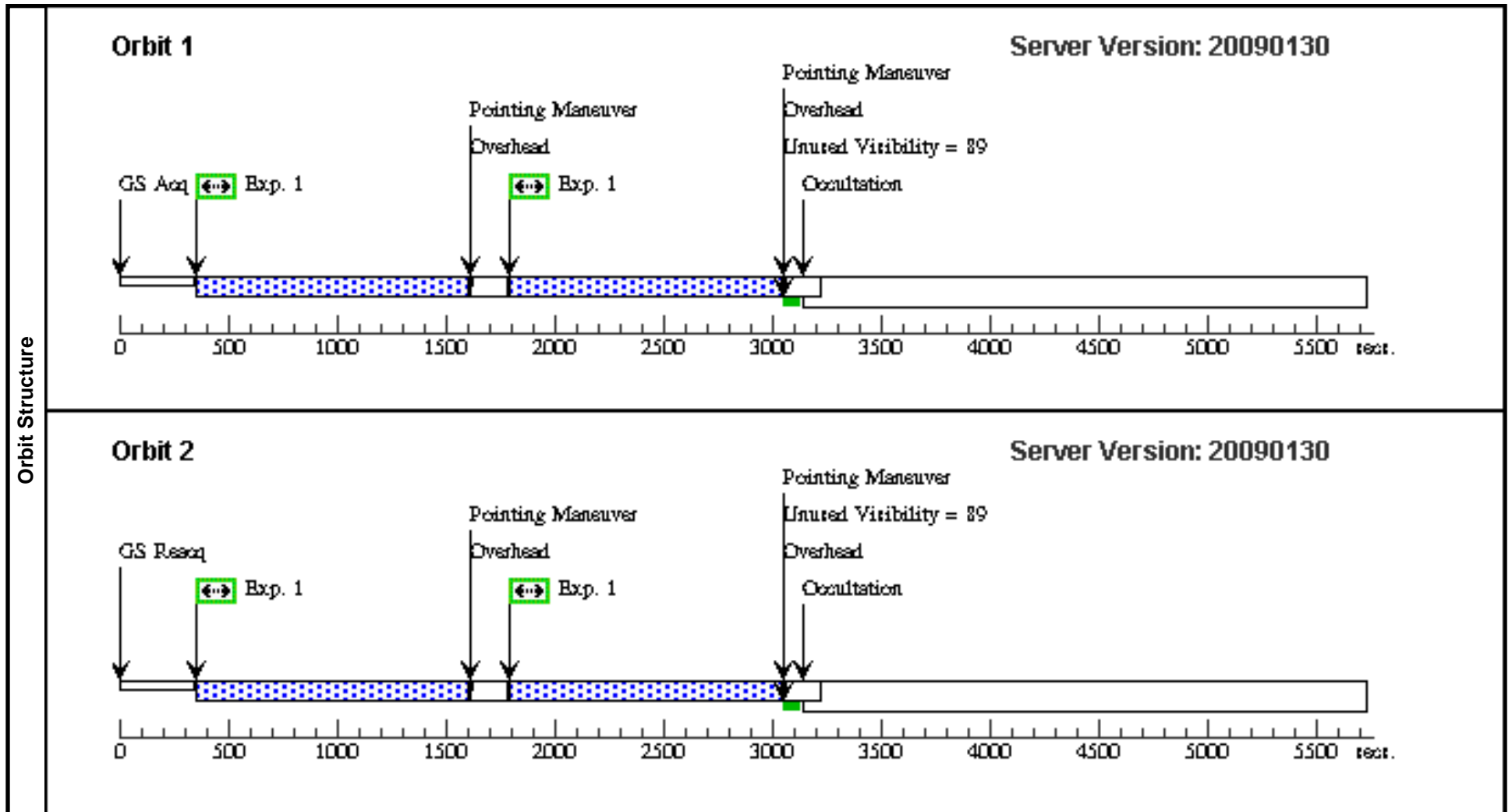


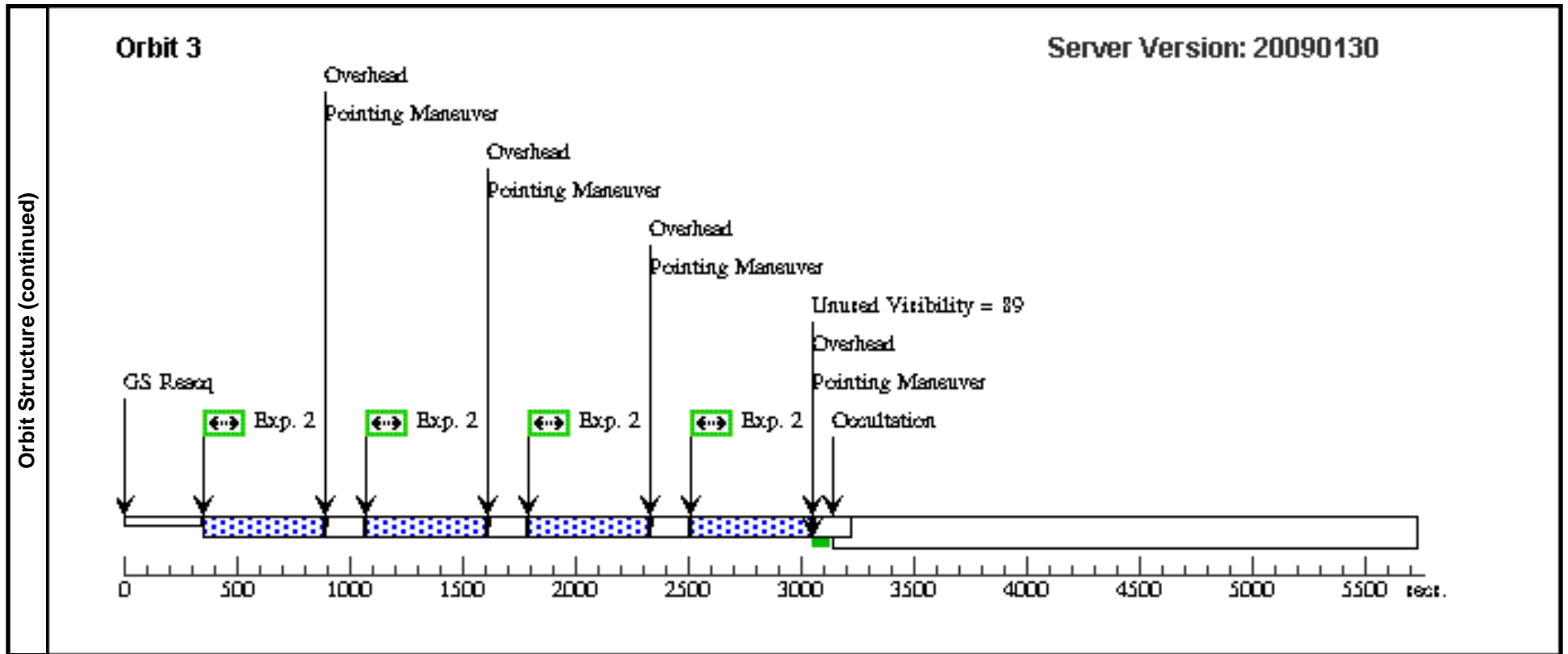


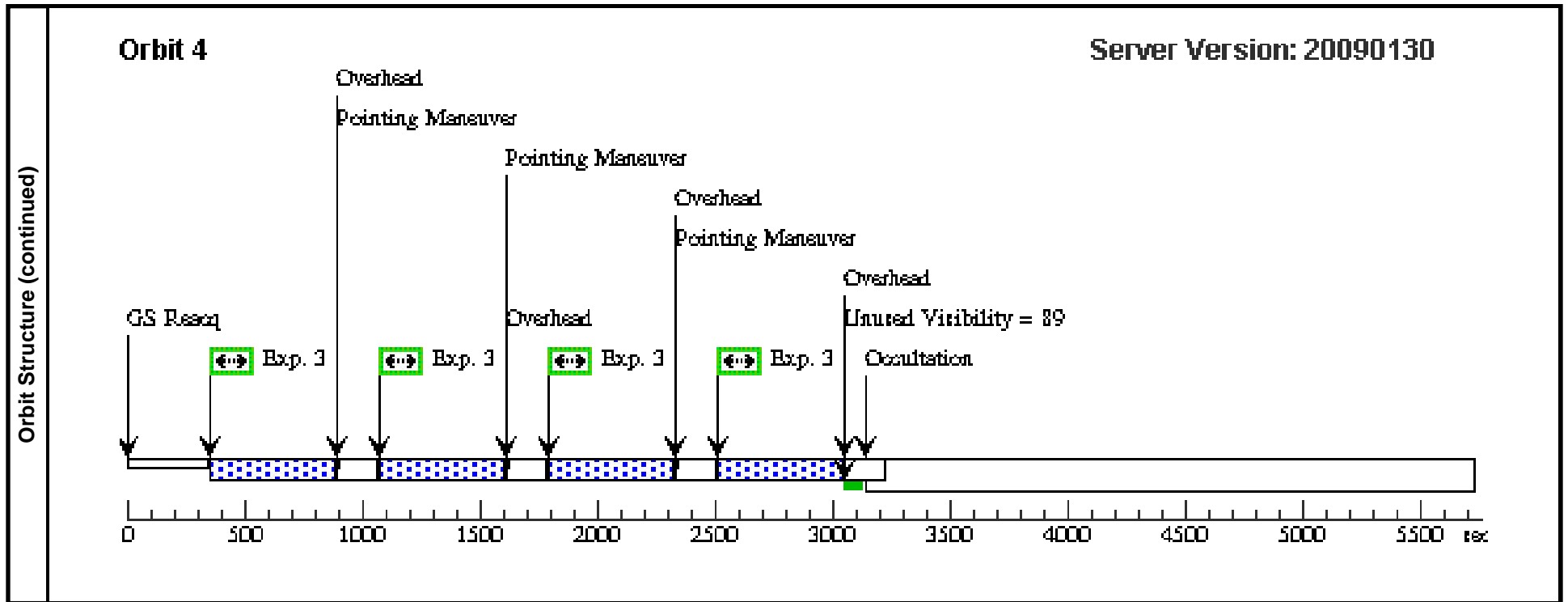
Proposal 11978 - Visit 17 - Luminous and dark matter in disk galaxies from strong lensing and stellar kinematics

Sat Apr 04 01:19:19 GMT 2009

Visit	Proposal 11978, Visit 17, failed Diagnostic Status: No Diagnostics Scientific Instruments: WFPC2 Special Requirements: (none)										
	Patterns	#	Primary Pattern				Secondary Pattern			Exposures	
		(1)	Pattern Type=WFPC2-BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.559017 Line Spacing=0.559017	Coordinate Frame=POS-TARG Pattern Orientation=26.56505 Angle Between Sides=143.130102 Center Pattern=false				(1), (2), (3)			
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous					
	(17)	SDSSJ1015+1750	RA: 10 15 3.1900 (153.7632917d) Dec: +17 50 50.30 (17.84731d) Equinox: J2000		V=17	Reference Frame: SDSS					
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]		Orbit
	1		(17) SDSSJ1015+1750	WFPC2, IMAGE, WF3	F450W	CR-SPLIT=NO		Pattern 1-1 (1)	1000 Secs		
									[==>1100.0 Secs (Pattern 1)]		[1]
									[==>1100.0 Secs (Pattern 2)]		
									[==>1100.0 Secs (Pattern 3)]		[2]
									[==>1100.0 Secs (Pattern 4)]		
	2		(17) SDSSJ1015+1750	WFPC2, IMAGE, WF3	F606W	CR-SPLIT=NO		Pattern 2-2 (1)	400 Secs		
									[==>400.0 Secs (Pattern 1)]		
									[==>400.0 Secs (Pattern 2)]		
									[==>400.0 Secs (Pattern 3)]		[3]
								[==>400.0 Secs (Pattern 4)]			
3		(17) SDSSJ1015+1750	WFPC2, IMAGE, WF3	F814W	CR-SPLIT=NO		Pattern 3-3 (1)	400 Secs			
								[==>400.0 Secs (Pattern 1)]			
								[==>400.0 Secs (Pattern 2)]			
								[==>400.0 Secs (Pattern 3)]		[4]	
								[==>400.0 Secs (Pattern 4)]			



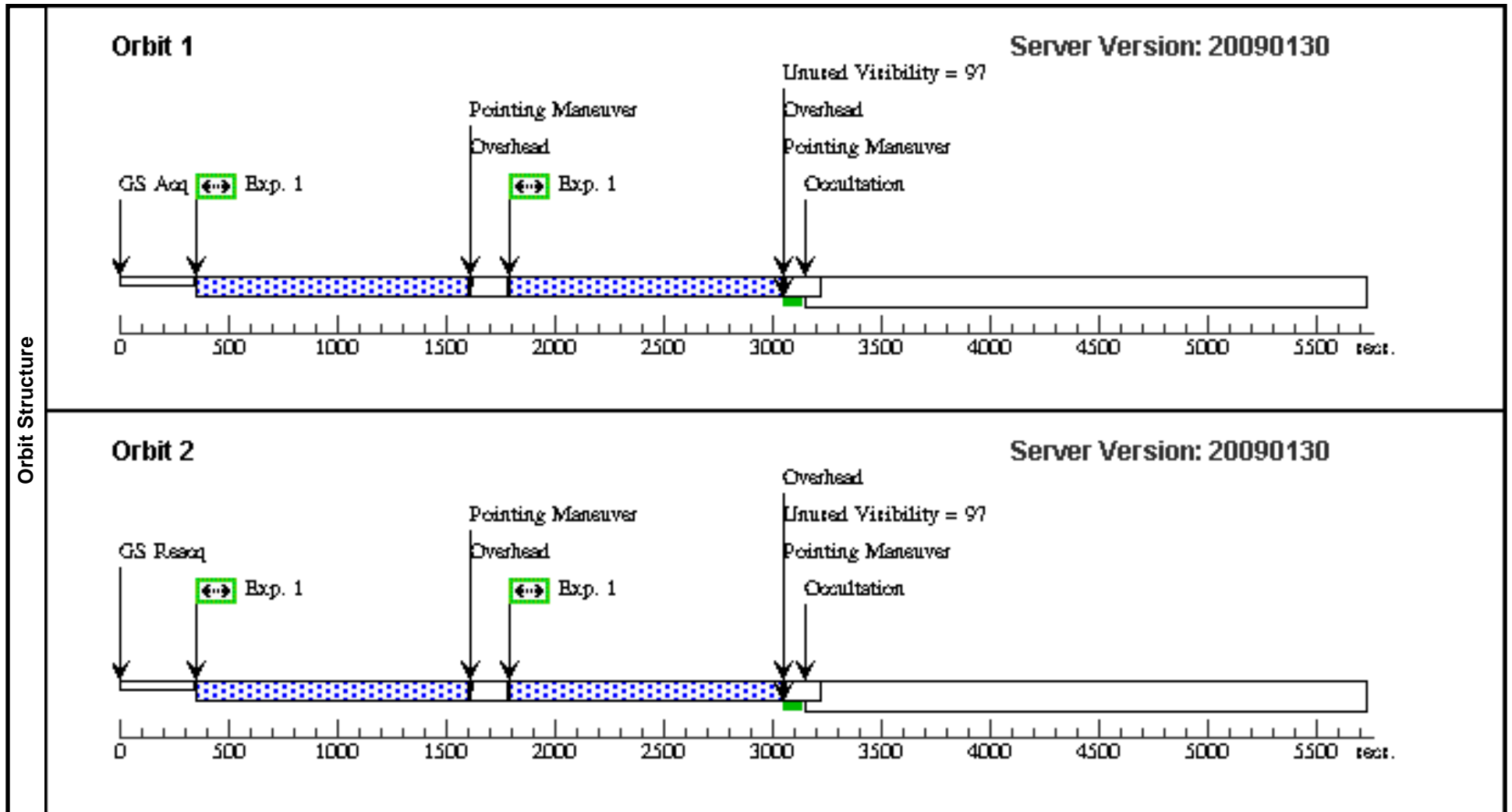


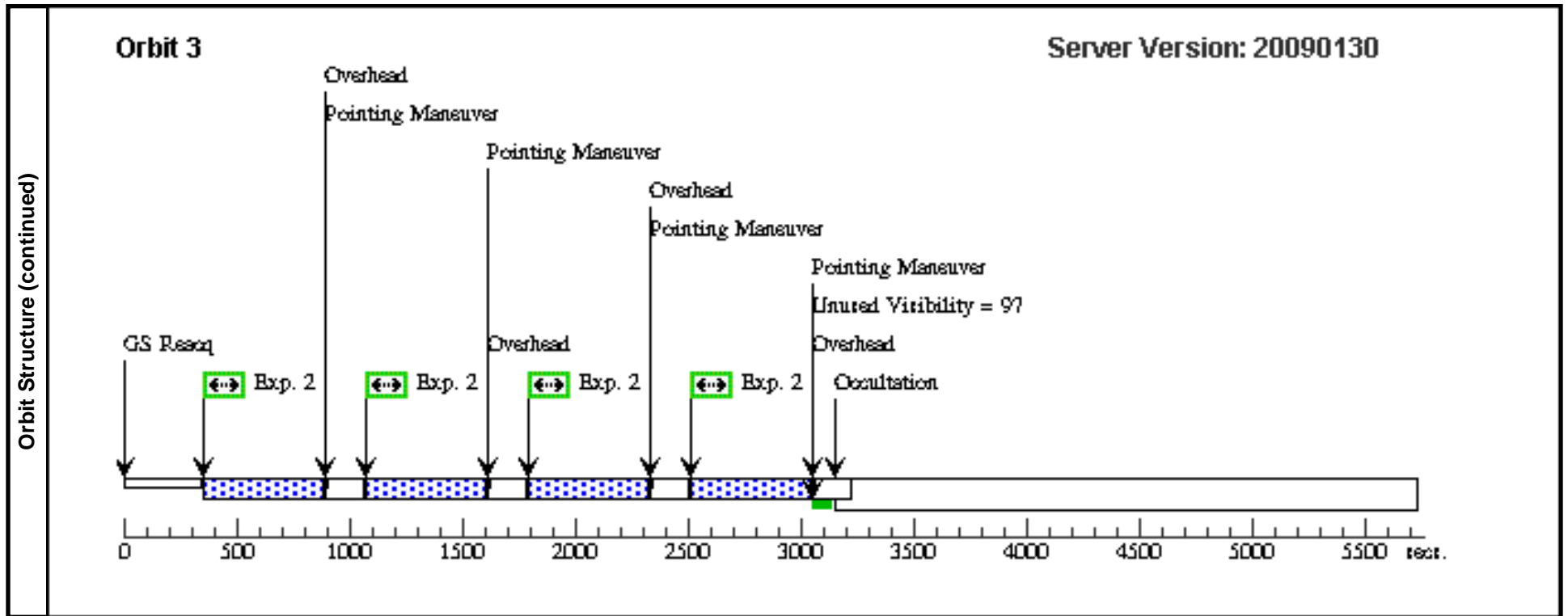


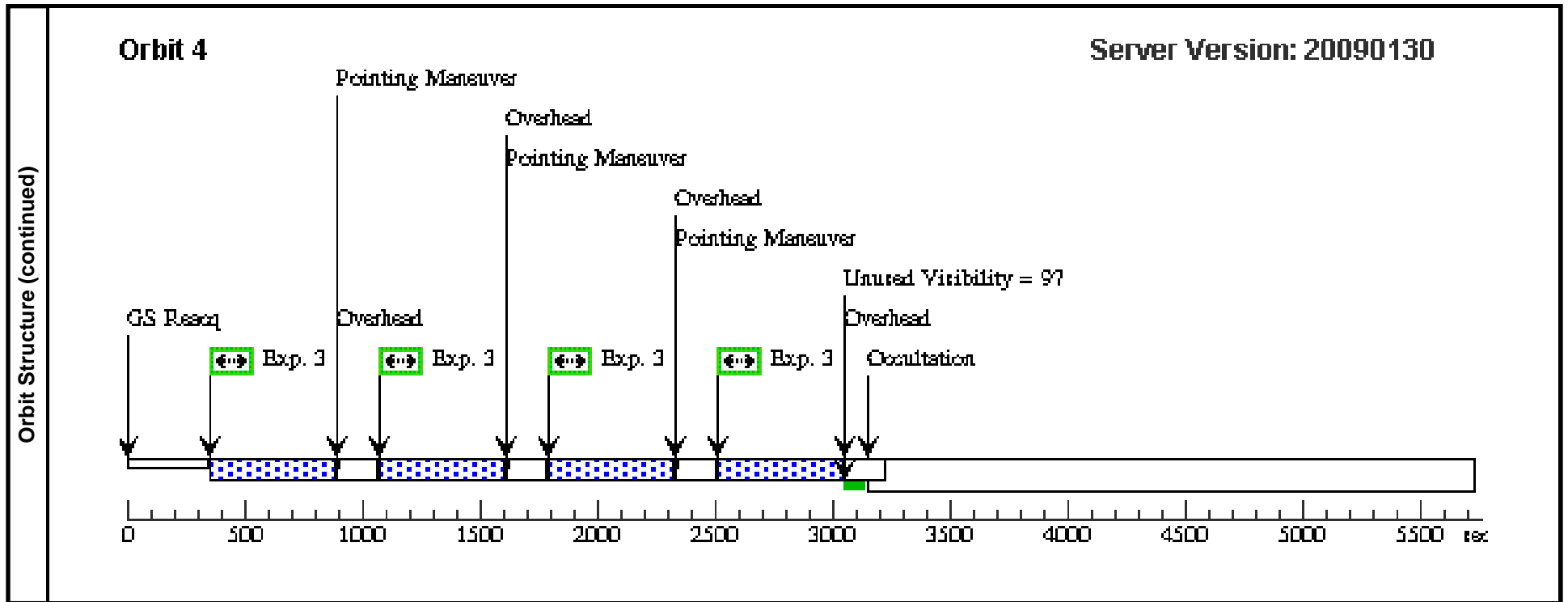
Proposal 11978 - Visit 18 - Luminous and dark matter in disk galaxies from strong lensing and stellar kinematics

Sat Apr 04 01:19:20 GMT 2009

Visit	Proposal 11978, Visit 18, scheduling Diagnostic Status: No Diagnostics Scientific Instruments: WFPC2 Special Requirements: (none)										
	Patterns	#	Primary Pattern				Secondary Pattern			Exposures	
		(1)	Pattern Type=WFPC2-BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.559017 Line Spacing=0.559017	Coordinate Frame=POS-TARG Pattern Orientation=26.56505 Angle Between Sides=143.130102 Center Pattern=false				(1), (2), (3)			
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous					
	(18)	SDSSJ1613+3216	RA: 16 13 56.8800 (243.4870000d) Dec: +32 16 50.00 (32.28056d) Equinox: J2000		V=17	Reference Frame: SDSS					
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]		Orbit
	1		(18) SDSSJ1613+3216	WFPC2, IMAGE, WF3	F450W	CR-SPLIT=NO		Pattern 1-1 (1)	1000 Secs		
									[==>1100.0 Secs (Pattern 1)]		[1]
									[==>1100.0 Secs (Pattern 2)]		
									[==>1100.0 Secs (Pattern 3)]		[2]
									[==>1100.0 Secs (Pattern 4)]		
	2		(18) SDSSJ1613+3216	WFPC2, IMAGE, WF3	F606W	CR-SPLIT=NO		Pattern 2-2 (1)	400 Secs		
									[==>400.0 Secs (Pattern 1)]		
									[==>400.0 Secs (Pattern 2)]		
									[==>400.0 Secs (Pattern 3)]		[3]
									[==>400.0 Secs (Pattern 4)]		
	3		(18) SDSSJ1613+3216	WFPC2, IMAGE, WF3	F814W	CR-SPLIT=NO		Pattern 3-3 (1)	400 Secs		
									[==>400.0 Secs (Pattern 1)]		
								[==>400.0 Secs (Pattern 2)]			
								[==>400.0 Secs (Pattern 3)]		[4]	
								[==>400.0 Secs (Pattern 4)]			



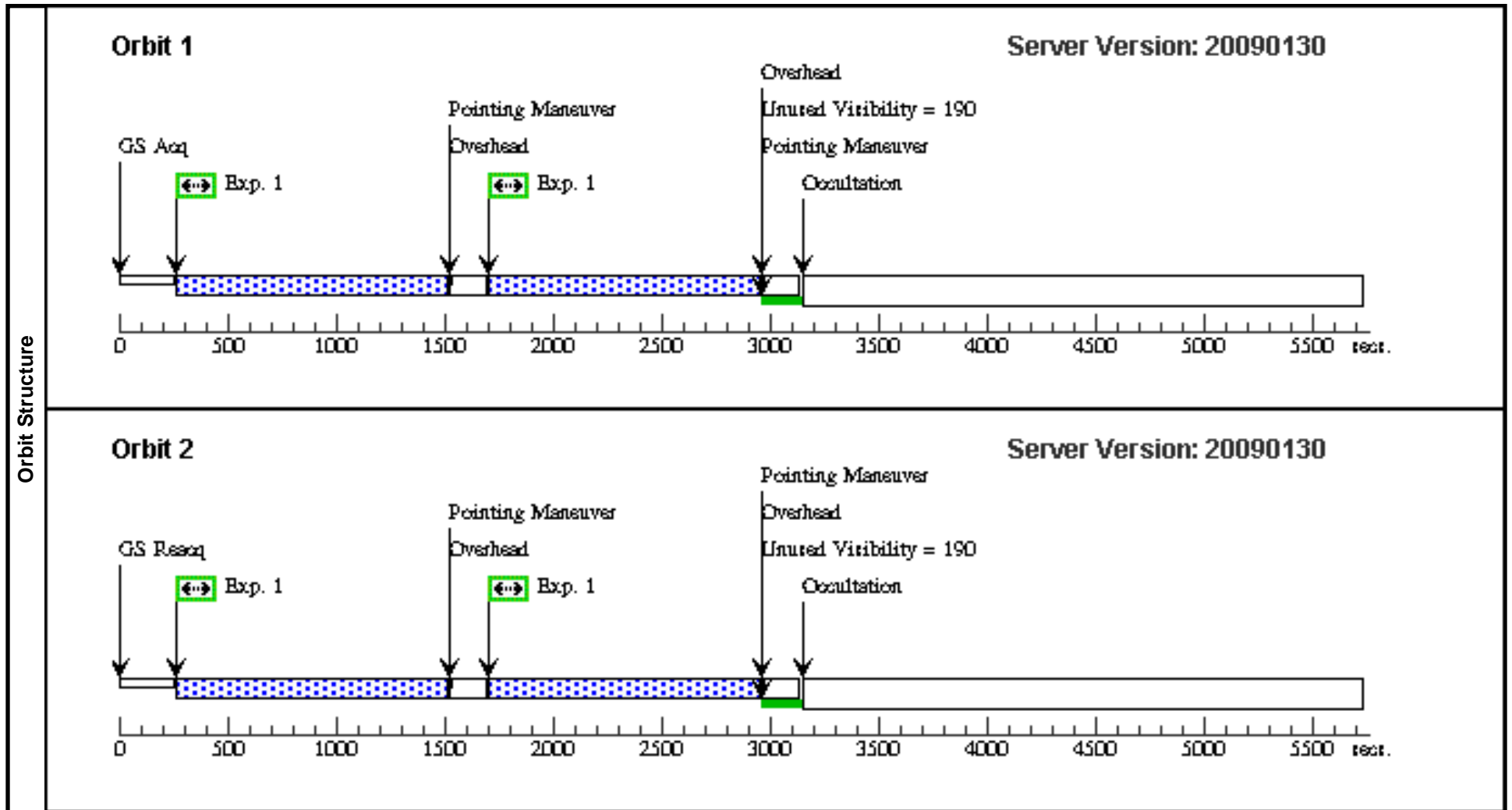


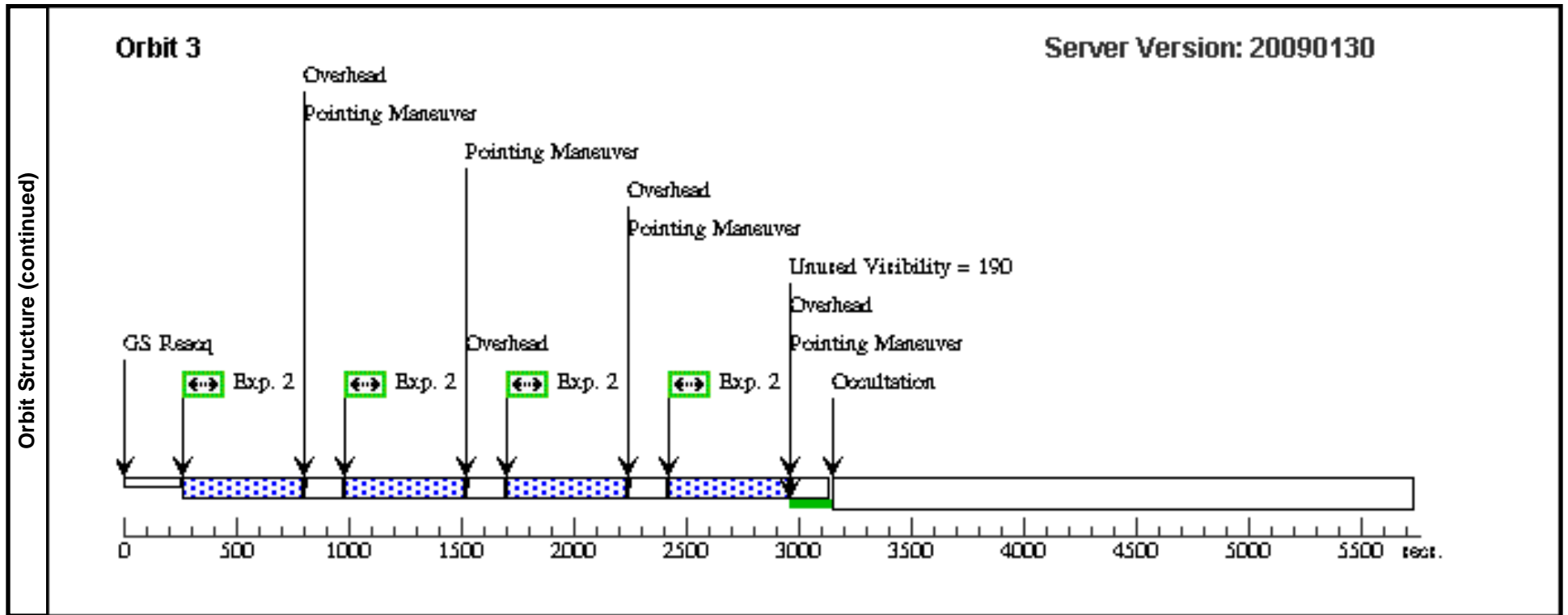


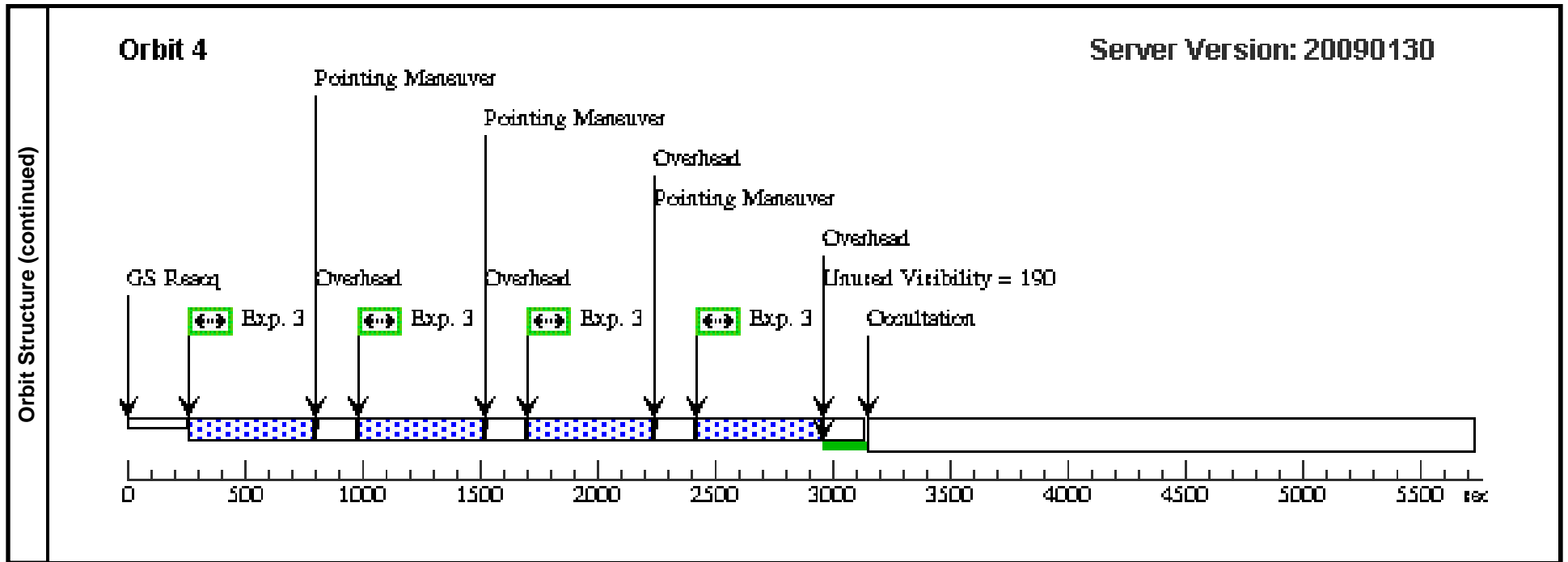
Proposal 11978 - Visit 19 - Luminous and dark matter in disk galaxies from strong lensing and stellar kinematics

Sat Apr 04 01:19:20 GMT 2009

Visit	Proposal 11978, Visit 19, completed Diagnostic Status: No Diagnostics Scientific Instruments: WFPC2 Special Requirements: (none)									
	Patterns	#	Primary Pattern			Secondary Pattern			Exposures	
		(1)	Pattern Type=WFPC2-BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.559017 Line Spacing=0.559017	Coordinate Frame=POS-TARG Pattern Orientation=26.56505 Angle Between Sides=143.130102 Center Pattern=false					(1), (2), (3)	
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(19)	SDSSJ1037+3517	RA: 10 37 45.0300 (159.4376250d) Dec: +35 17 31.00 (35.29194d) Equinox: J2000		V=17	Reference Frame: SDSS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(19) SDSSJ1037+3517	WFPC2, IMAGE, WF3	F450W	CR-SPLIT=NO	GS ACQ SCENARI O SINGLE	Pattern 1-1 (1)	1000 Secs	
									[==>1100.0 Secs (Pattern 1)]	[1]
									[==>1100.0 Secs (Pattern 2)]	[2]
									[==>1100.0 Secs (Pattern 3)]	
									[==>1100.0 Secs (Pattern 4)]	
	2		(19) SDSSJ1037+3517	WFPC2, IMAGE, WF3	F606W	CR-SPLIT=NO		Pattern 2-2 (1)	400 Secs	
									[==>400.0 Secs (Pattern 1)]	[3]
									[==>400.0 Secs (Pattern 2)]	
									[==>400.0 Secs (Pattern 3)]	
								[==>400.0 Secs (Pattern 4)]		
3		(19) SDSSJ1037+3517	WFPC2, IMAGE, WF3	F814W	CR-SPLIT=NO		Pattern 3-3 (1)	400 Secs		
								[==>400.0 Secs (Pattern 1)]	[4]	
								[==>400.0 Secs (Pattern 2)]		
								[==>400.0 Secs (Pattern 3)]		
								[==>400.0 Secs (Pattern 4)]		



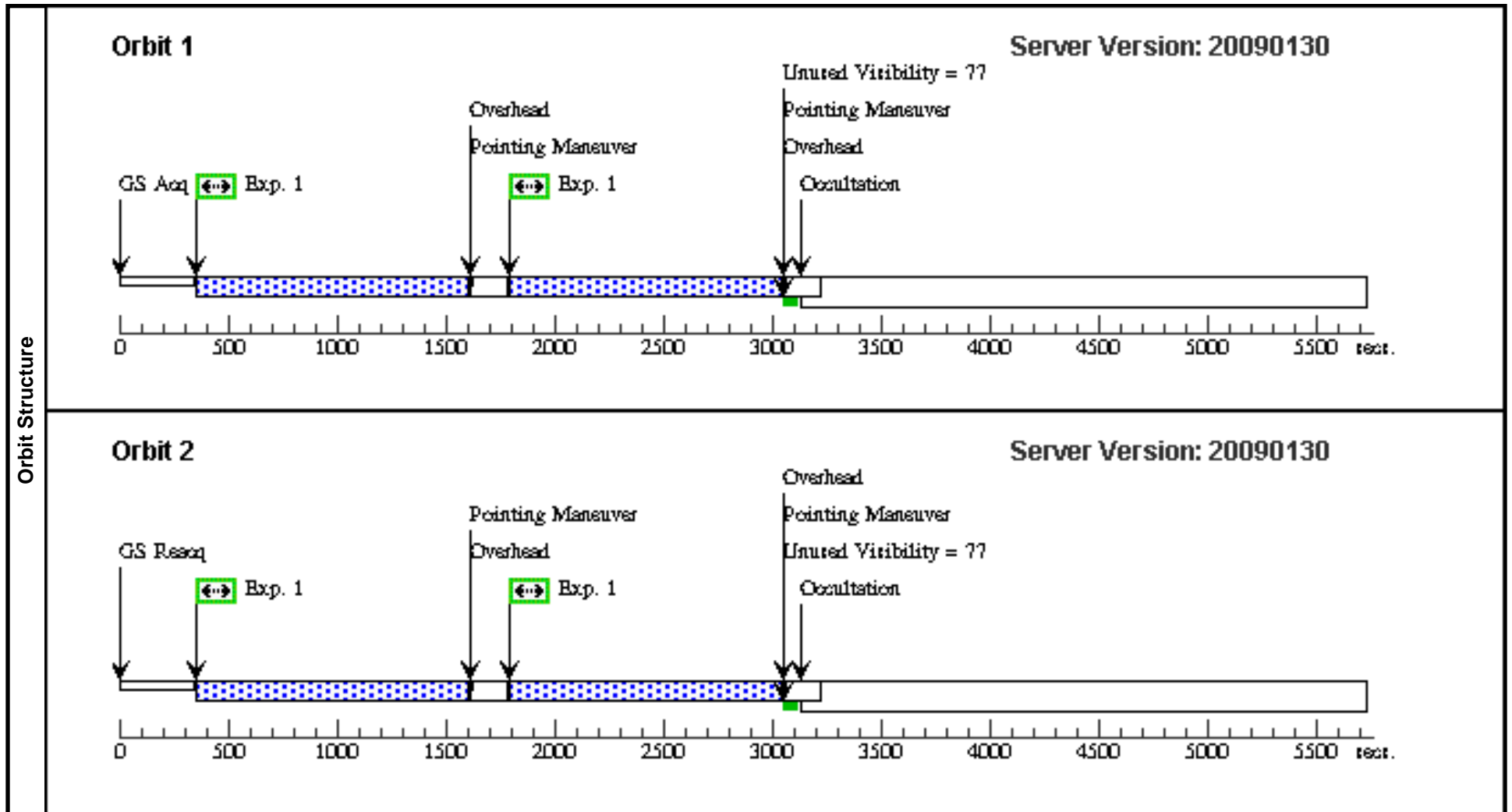


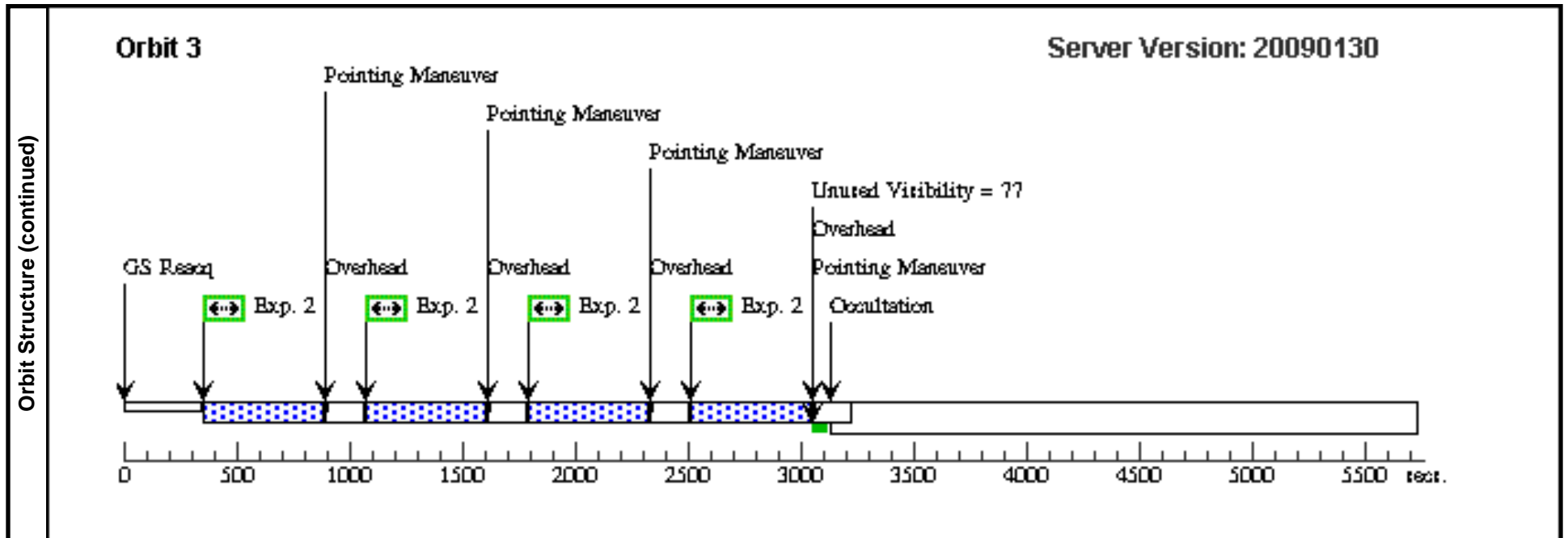


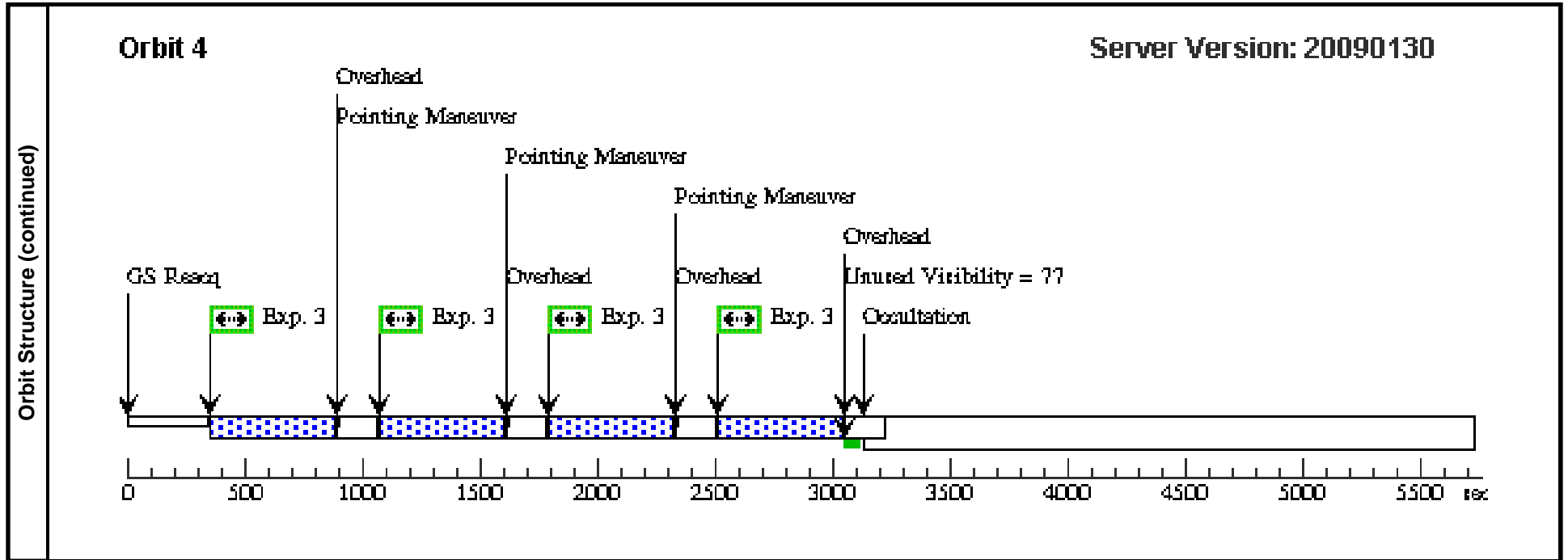
Proposal 11978 - Visit 20 - Luminous and dark matter in disk galaxies from strong lensing and stellar kinematics

Sat Apr 04 01:19:21 GMT 2009

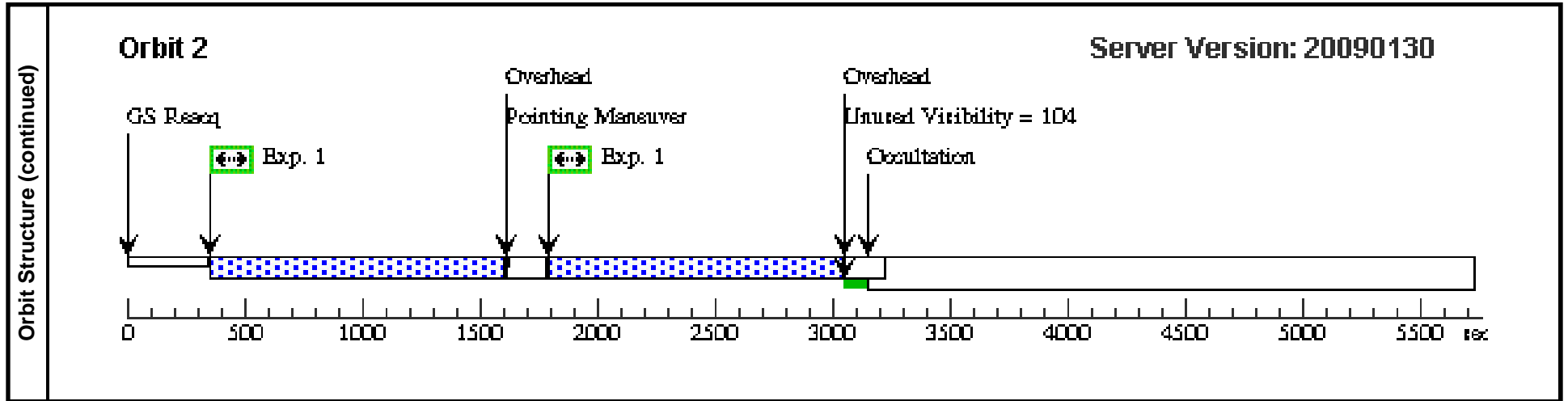
Visit	Proposal 11978, Visit 20, completed Diagnostic Status: No Diagnostics Scientific Instruments: WFPC2 Special Requirements: (none)										
	Patterns	#	Primary Pattern				Secondary Pattern			Exposures	
		(1)	Pattern Type=WFPC2-BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.559017 Line Spacing=0.559017	Coordinate Frame=POS-TARG Pattern Orientation=26.56505 Angle Between Sides=143.130102 Center Pattern=false				(1), (2), (3)			
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous					
	(20)	SDSSJ1258-0259	RA: 12 58 28.8900 (194.6203750d) Dec: -02 59 40.00 (-2.99444d) Equinox: J2000		V=17	Reference Frame: SDSS					
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]		Orbit
	1		(20) SDSSJ1258-0259	WFPC2, IMAGE, WF3	F450W	CR-SPLIT=NO		Pattern 1-1 (1)	1000 Secs		
			9						[==>1100.0 Secs (Pattern 1)]		[1]
									[==>1100.0 Secs (Pattern 2)]		[2]
									[==>1100.0 Secs (Pattern 3)]		
									[==>1100.0 Secs (Pattern 4)]		
	2		(20) SDSSJ1258-0259	WFPC2, IMAGE, WF3	F606W	CR-SPLIT=NO		Pattern 2-2 (1)	400 Secs		
			9						[==>400.0 Secs (Pattern 1)]		[3]
									[==>400.0 Secs (Pattern 2)]		
									[==>400.0 Secs (Pattern 3)]		
								[==>400.0 Secs (Pattern 4)]			
3		(20) SDSSJ1258-0259	WFPC2, IMAGE, WF3	F814W	CR-SPLIT=NO		Pattern 3-3 (1)	400 Secs			
		9						[==>400.0 Secs (Pattern 1)]		[4]	
								[==>400.0 Secs (Pattern 2)]			
								[==>400.0 Secs (Pattern 3)]			
								[==>400.0 Secs (Pattern 4)]			



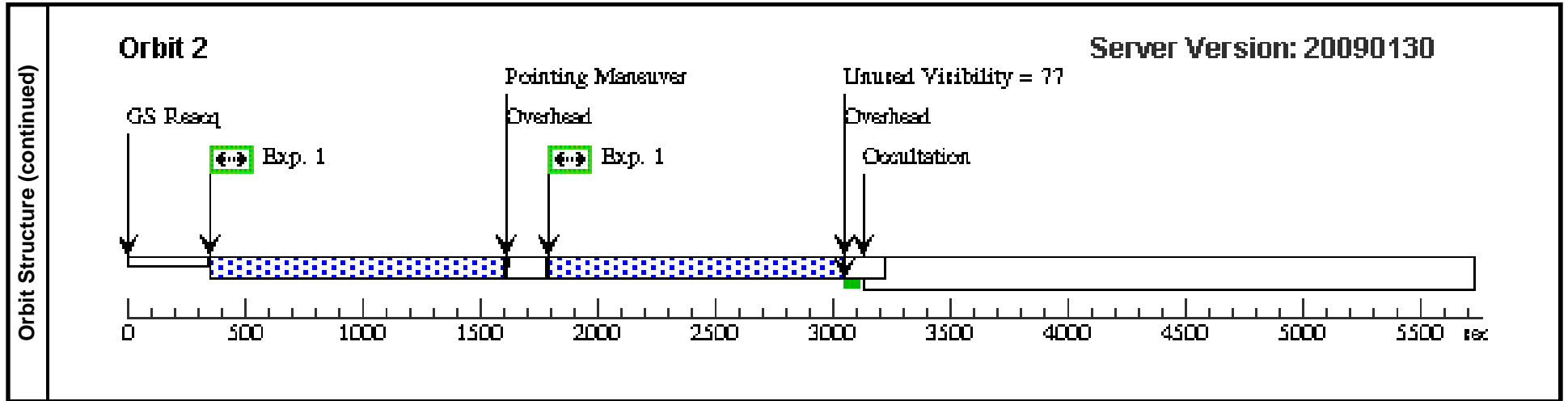




Visit	Proposal 11978, Visit 21, completed Diagnostic Status: No Diagnostics Scientific Instruments: WFPC2 Special Requirements: (none)									
	Patterns	#	Primary Pattern				Secondary Pattern			
(1)		Pattern Type=WFPC2-BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.559017 Line Spacing=0.559017		Coordinate Frame=POS-TARG Pattern Orientation=26.56505 Angle Between Sides=143.130102 Center Pattern=false						(1)
Fixed Targets	#	Name	Target Coordinates		Targ. Coord. Corrections		Fluxes		Miscellaneous	
	(21)	SDSSJ0841+3824	RA: 08 41 28.8100 (130.3700417d) Dec: +38 24 13.70 (38.40381d) Equinox: J2000				V=17		Reference Frame: SDSS	
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	(21) SDSSJ0841+3824	WFPC2, IMAGE, WF3	F450W	CR-SPLIT=NO		Pattern 1-1 (1)	1000 Secs		
								[=>1100.0 Secs (Pattern 1)]	[1]	
								[=>1100.0 Secs (Pattern 2)]	[2]	
								[=>1100.0 Secs (Pattern 3)]		
								[=>1100.0 Secs (Pattern 4)]		
Orbit Structure	Orbit 1 Server Version: 20090130									
	<p>Unused Visibility = 104</p> <p>GS Acq</p> <p>Exp. 1</p> <p>Overhead Pointing Maneuver</p> <p>Exp. 1</p> <p>Overhead Pointing Maneuver</p> <p>Occultation</p> <p>Overhead Pointing Maneuver</p> <p>0 500 1000 1500 2000 2500 3000 3500 4000 4500 5000 5500 sec.</p>									



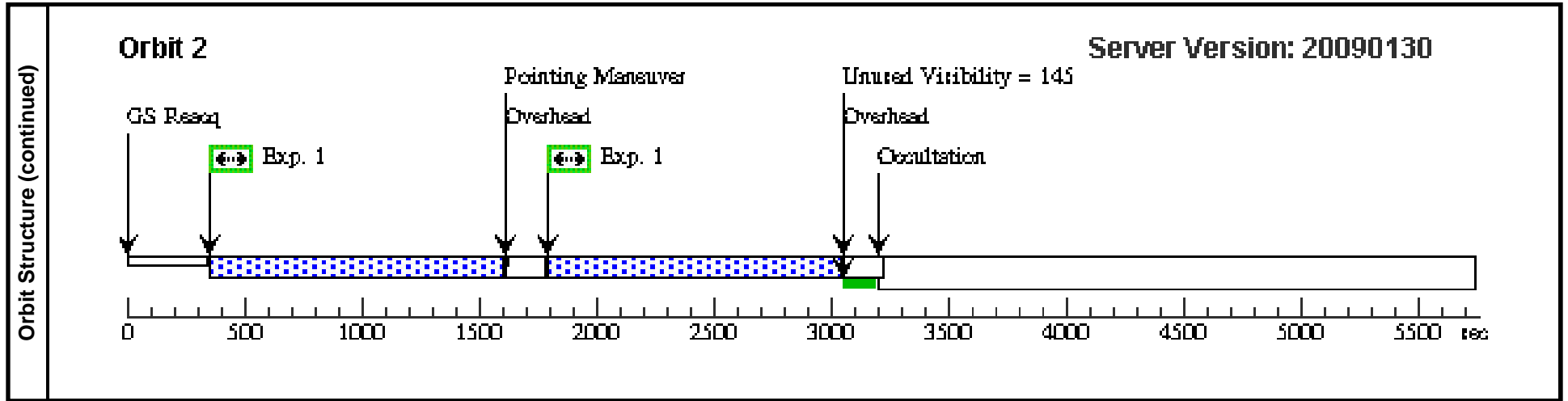
Visit	Proposal 11978, Visit 22, completed Diagnostic Status: No Diagnostics Scientific Instruments: WFPC2 Special Requirements: (none)										
	Patterns	#	Primary Pattern				Secondary Pattern			Exposures	
(1)		Pattern Type=WFPC2-BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.559017 Line Spacing=0.559017	Coordinate Frame=POS-TARG Pattern Orientation=26.56505 Angle Between Sides=143.130102 Center Pattern=false						(1)		
Fixed Targets	#	Name	Target Coordinates		Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(22)	SDSSJ1029+0420	RA: 10 29 22.9400 (157.3455833d) Dec: +04 20 1.80 (4.33383d) Equinox: J2000				V=17	Reference Frame: SDSS			
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]		Orbit
	1		(22) SDSSJ1029+0420	WFPC2, IMAGE, WF3	F450W	CR-SPLIT=NO		Pattern 1-1 (1)	1000 Secs		
			20						[=>1100.0 Secs (Pattern 1)]		[1]
									[=>1100.0 Secs (Pattern 2)]		[2]
Orbit Structure	<p>Orbit 1 Server Version: 20090130</p> <p>The diagram shows a horizontal timeline from 0 to 5500 seconds. Key events are marked with arrows: GS Acq at ~300s, Exp. 1 (green box) at ~400s, Pointing Maneuver and Overhead at ~1600s, Exp. 1 (green box) at ~1800s, Pointing Maneuver and Overhead at ~3000s, Occultation at ~3100s, and Unused Visibility at ~3200s. A blue dotted bar represents the primary observation period from ~400s to ~3100s. A green bar at the bottom indicates the total observation time from ~400s to ~3100s.</p>										
	<p>Unused Visibility = ??</p>										



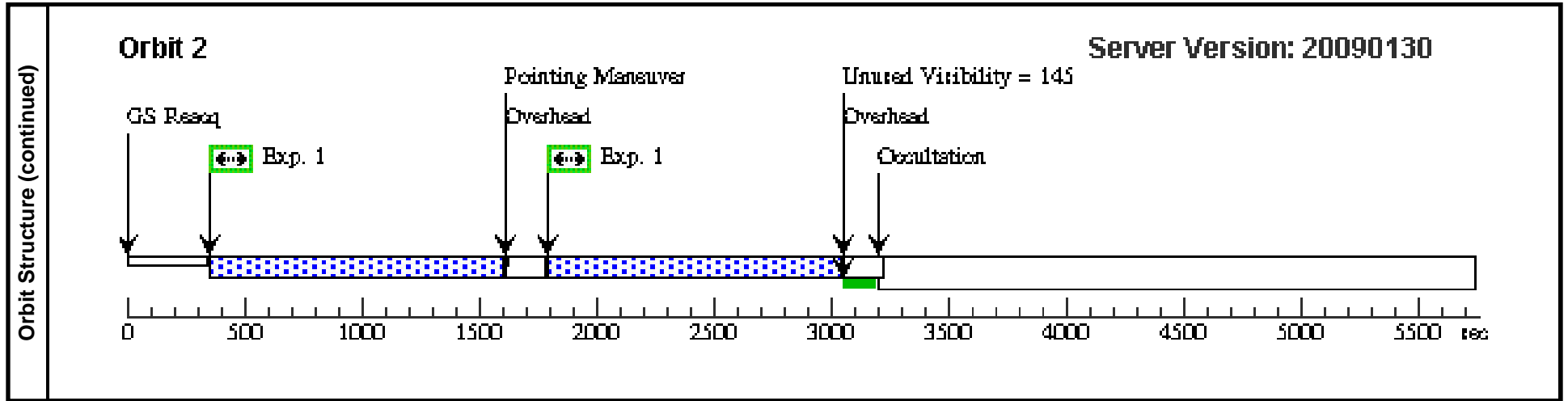
Proposal 11978 - Visit 23 - Luminous and dark matter in disk galaxies from strong lensing and stellar kinematics

Sat Apr 04 01:19:21 GMT 2009

Visit	Proposal 11978, Visit 23, completed Diagnostic Status: No Diagnostics Scientific Instruments: WFPC2 Special Requirements: (none)										
	Patterns	#	Primary Pattern				Secondary Pattern			Exposures	
(1)		Pattern Type=WFPC2-BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.559017 Line Spacing=0.559017	Coordinate Frame=POS-TARG Pattern Orientation=26.56505 Angle Between Sides=143.130102 Center Pattern=false						(1)		
Fixed Targets	#	Name	Target Coordinates		Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(23)	SDSSJ1032+5322	RA: 10 32 35.8400 (158.1493333d) Dec: +53 22 34.90 (53.37636d) Equinox: J2000			V=17	Reference Frame: SDSS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]		Orbit
	1	(23) SDSSJ1032+5322	WFPC2, IMAGE, WF3	F450W	CR-SPLIT=NO		Pattern 1-1 (1)	1000 Secs			
								[=>1100.0 Secs (Pattern 1)]		[1]	
								[=>1100.0 Secs (Pattern 2)]		[2]	
Orbit Structure	Orbit 1 Server Version: 20090130										
	<p>The diagram shows the timeline for Orbit 1. The x-axis represents time in seconds from 0 to 5500. Key events are marked: GS Acq at 0s, Exp. 1 (green arrow) at approximately 400s, Pointing Maneuver (green arrow) at approximately 1600s, another Exp. 1 (green arrow) at approximately 1800s, a second Pointing Maneuver (green arrow) at approximately 3000s, Occultation (green arrow) at approximately 3100s, and Unused Visibility = 145s from approximately 3100s to 3250s. Blue dotted bars represent exposure periods, and green arrows indicate pointing maneuvers.</p>										



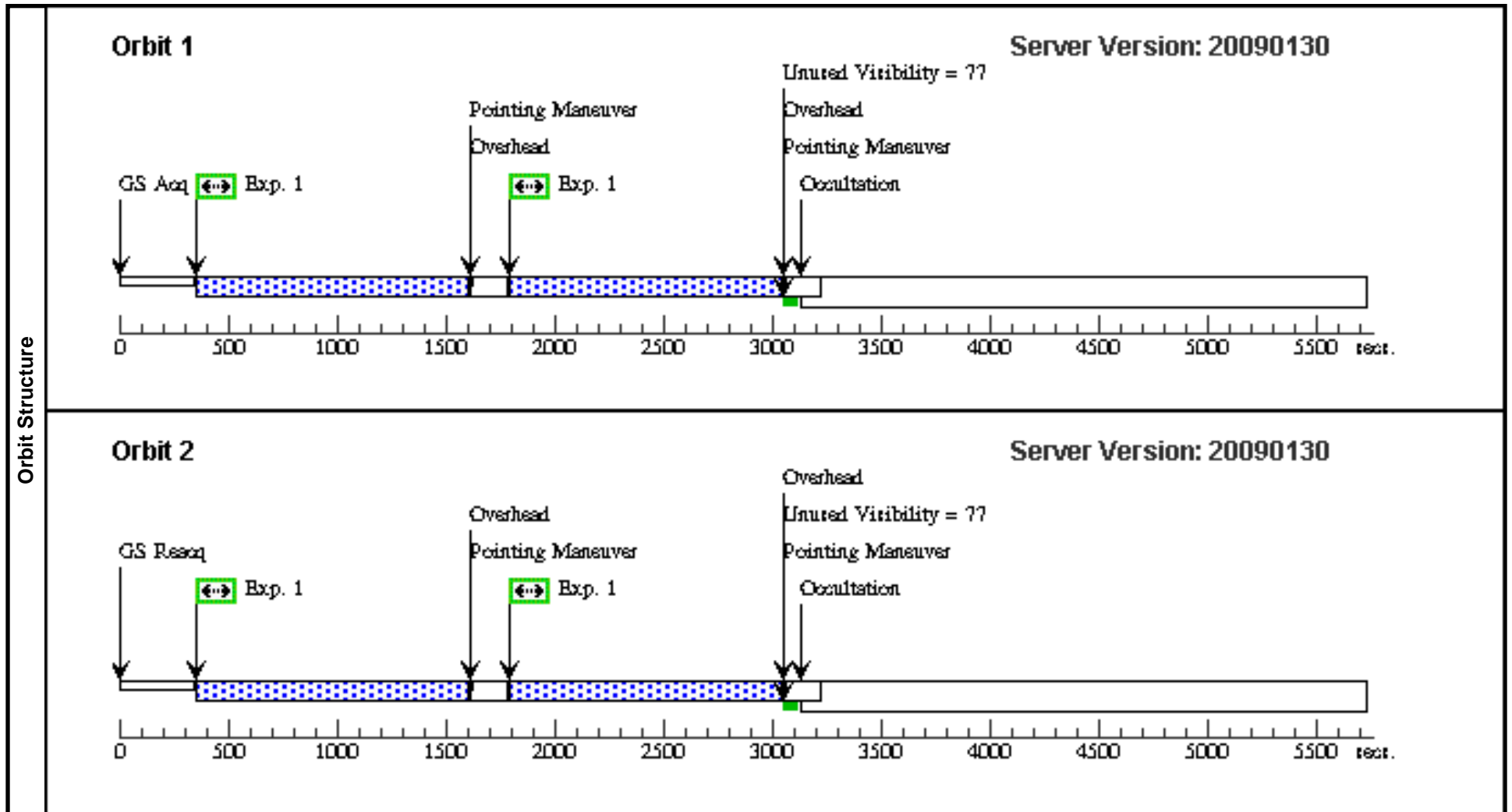
Visit	Proposal 11978, Visit 24, completed Diagnostic Status: No Diagnostics Scientific Instruments: WFPC2 Special Requirements: (none)									
	Patterns	#	Primary Pattern				Secondary Pattern			Exposures
(1)		Pattern Type=WFPC2-BOX	Coordinate Frame=POS-TARG							(1)
		Purpose=DITHER	Pattern Orientation=26.56505							
		Number Of Points=4	Angle Between Sides=143.130102							
		Point Spacing=0.559017	Center Pattern=false							
		Line Spacing=0.559017								
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(24)	SDSSJ1103+5322	RA: 11 03 8.2100 (165.7842083d) Dec: +53 22 28.20 (53.37450d) Equinox: J2000		V=17	Reference Frame: SDSS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(24) SDSSJ1103+5322	WFPC2, IMAGE, WF3	F450W	CR-SPLIT=NO		Pattern 1-1 (1)	1000 Secs	
			22						[==>1100.0 Secs (Pattern 1)]	[1]
									[==>1100.0 Secs (Pattern 2)]	[2]
								[==>1100.0 Secs (Pattern 3)]		
								[==>1100.0 Secs (Pattern 4)]		
Orbit Structure	Orbit 1 Server Version: 20090130									
	<p>The diagram shows a horizontal timeline from 0 to 5500 seconds. A blue dotted bar represents the main observation period, starting at approximately 400 seconds and ending at 3100 seconds. Key events are marked with arrows: 'GS Acq' at 0s, 'Exp. 1' (in a green box) at ~400s, 'Pointing Maneuver' at ~1600s, another 'Exp. 1' (in a green box) at ~1800s, a second 'Pointing Maneuver' at ~3000s, and 'Occultation' at ~3100s. A green bar at the bottom indicates 'Unused Visibility = 145' from ~3100s to ~3250s. The x-axis is labeled 'sec.' and has major ticks every 500 units.</p>									

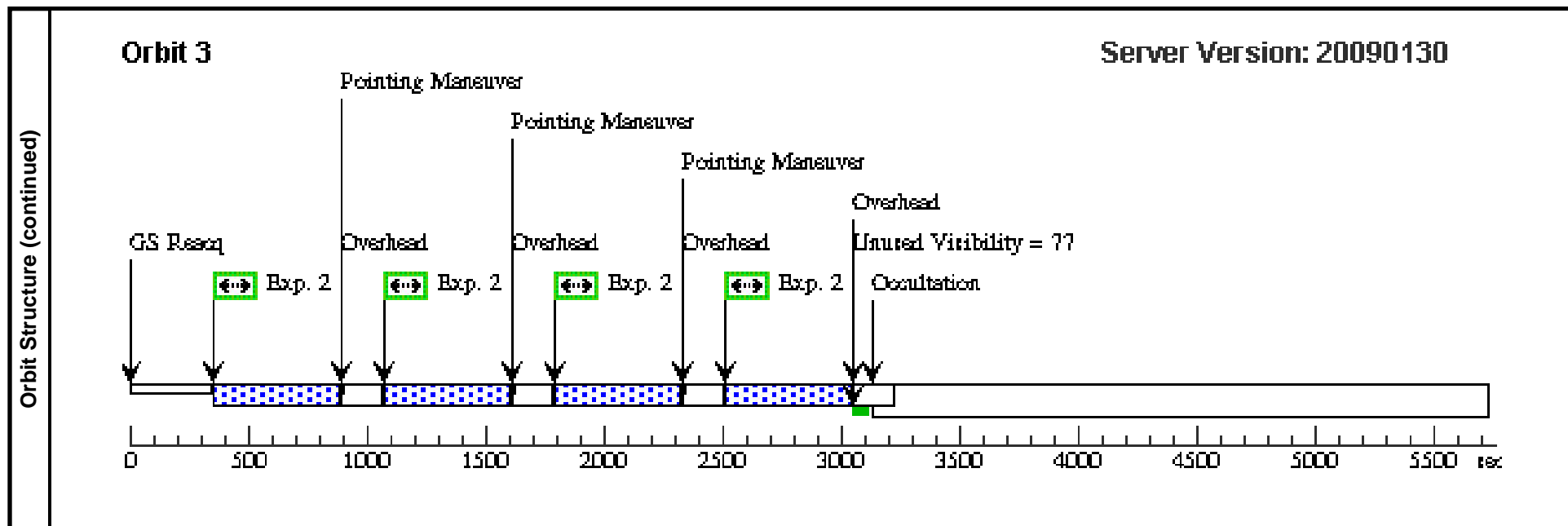


Proposal 11978 - Visit 25 - Luminous and dark matter in disk galaxies from strong lensing and stellar kinematics

Sat Apr 04 01:19:22 GMT 2009

Visit	Proposal 11978, Visit 25, scheduling Diagnostic Status: No Diagnostics Scientific Instruments: WFPC2 Special Requirements: (none)										
	Patterns	#	Primary Pattern				Secondary Pattern			Exposures	
		(1)	Pattern Type=WFPC2-BOX	Coordinate Frame=POS-TARG							(1), (2)
		Purpose=DITHER	Pattern Orientation=26.56505								
		Number Of Points=4	Angle Between Sides=143.130102								
		Point Spacing=0.559017	Center Pattern=false								
		Line Spacing=0.559017									
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous					
	(25)	SDSSJ2141-0001	RA: 21 41 54.6800 (325.4778333d) Dec: -00 01 12.30 (-.02008d) Equinox: J2000		V=17	Reference Frame: SDSS					
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]		Orbit
	1		(25) SDSSJ2141-0001	WFPC2, IMAGE, WF3	F450W	CR-SPLIT=NO		Pattern 1-1 (1)	1000 Secs		
			1						[=>1100.0 Secs (Pattern 1)]		[1]
									[=>1100.0 Secs (Pattern 2)]		[2]
									[=>1100.0 Secs (Pattern 3)]		
									[=>1100.0 Secs (Pattern 4)]		
2		(25) SDSSJ2141-0001	WFPC2, IMAGE, WF3	F606W	CR-SPLIT=NO		Pattern 2-2 (1)	400 Secs			
		1						[=>400.0 Secs (Pattern 1)]		[3]	
								[=>400.0 Secs (Pattern 2)]			
								[=>400.0 Secs (Pattern 3)]			
								[=>400.0 Secs (Pattern 4)]			





Visit	Proposal 11978, Visit 55, scheduling Diagnostic Status: No Diagnostics Scientific Instruments: WFPC2 Special Requirements: (none)										
	Patterns	#	Primary Pattern				Secondary Pattern				Exposures
(2)		Pattern Type=WFPC2-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.3535 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=45.0 Angle Between Sides= Center Pattern=false					(1)			
Fixed Targets	#	Name	Target Coordinates		Targ. Coord. Corrections		Fluxes	Miscellaneous			
	(27)	SDSSJ1203+2535-COPY	RA: 12 03 56.3300 (180.9847083d) Dec: +25 35 49.10 (25.59697d) Equinox: J2000				V=17	Reference Frame: SDSS			
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]		Orbit
	1	(27) SDSSJ1203+2535-COPY	WFPC2, IMAGE, WF3	F450W	CR-SPLIT=NO		Pattern 1-1 (2)	1000 Secs [=>1100.0 Secs (Pattern 1)] [=>1100.0 Secs (Pattern 2)]	[1]		
Orbit Structure	Orbit 1 Server Version: 20090130										
	<p>The diagram shows a timeline for Orbit 1 from 0 to 5500 seconds. Key events include: GS Acq at ~200s, Exp. 1 at ~400s, Pointing Maneuver at ~1600s, another Exp. 1 at ~1800s, Occultation at ~3000s, and a final Exp. 1 at ~3100s. A blue checkered bar spans from approximately 400s to 3100s. A green bar at the end of the orbit indicates 'Unused Visibility = 94'. The x-axis is labeled 'sec' and has major ticks every 500 units.</p>										

Proposal 11978 - Visit 67 - Luminous and dark matter in disk galaxies from strong lensing and stellar kinematics

Sat Apr 04 01:19:23 GMT 2009

Visit	Proposal 11978, Visit 67, scheduling Diagnostic Status: No Diagnostics Scientific Instruments: WFPC2 Special Requirements: (none)									
	Patterns	#	Primary Pattern				Secondary Pattern			Exposures
		(1)	Pattern Type=WFPC2-BOX	Coordinate Frame=POS-TARG						
		Purpose=DITHER	Pattern Orientation=26.56505							
		Number Of Points=4	Angle Between Sides=143.130102							
		Point Spacing=0.559017	Center Pattern=false							
		Line Spacing=0.559017								
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(26)	SDSSJ1015+1750-COPY	RA: 10 15 3.1900 (153.7632917d) Dec: +17 50 50.30 (17.84731d) Equinox: J2000		V=17	Reference Frame: SDSS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(26) SDSSJ1015+1750-COPY	WFPC2, IMAGE, WF3	F814W	CR-SPLIT=NO	GS ACQ SCENARI O SINGLE	Pattern 1-1 (1)	400 Secs [=>400.0 Secs (Pattern 1)] [=>400.0 Secs (Pattern 2)] [=>400.0 Secs (Pattern 3)] [=>400.0 Secs (Pattern 4)]	[1]

