



10924 - Constraints on the Assembly and Dynamical Masses of $z \sim 2$ Galaxies

Cycle: 15, 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) Q1623-BX528 ANY	NIC1 NIC2 NIC3	4	21-Feb-2007 21:40:42.0	yes
02	(2) Q1623-BX663 ANY	NIC1 NIC2 NIC3	4	21-Feb-2007 21:41:19.0	yes
03	(3) Q1700-BX691 ANY	NIC1 NIC2 NIC3	4	21-Feb-2007 21:41:56.0	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>
04	(4) SSA22A-MD41 ANY	NIC1 NIC2 NIC3	4	21-Feb-2007 21:42:28.0	yes
05	(5) Q2343-BX389 ANY	NIC1 NIC2 NIC3	4	21-Feb-2007 21:42:58.0	yes
06	(6) Q2343-BX610 ANY	NIC1 NIC2 NIC3	4	21-Feb-2007 21:43:29.0	yes
07	(7) Q2346-BX482 ANY	NIC1 NIC2 NIC3	4	21-Feb-2007 21:43:59.0	yes

28 Total Orbits Used

ABSTRACT

We propose deep NICMOS/NIC2 F160W imaging of seven star-forming galaxies at $z \sim 2$. These galaxies comprise an entirely unique sample, with not only redshifts measured from optical and near-IR spectra, but also SINFONI/VLT near-IR integral field spectroscopic measurements providing kinematic maps of H-alpha emission out to radii of ≥ 10 kpc. We aim to determine the dynamical masses and evolutionary states of these systems, as part of the larger goal of understanding how mass is assembled in distant galaxies. In order to interpret our novel H-alpha integral field maps in terms of mass, we require detailed knowledge of the structural parameters of our target objects at rest-frame optical wavelengths and on ~ 1 kpc scales. We want to establish if the mass is distributed in a disk, bulge, or merging sub-units, and if we can detect tidal features associated with a merger. F160W imaging with NICMOS/NIC2 provides the perfect combination of sensitivity and resolution to address these questions, and arrive at the fundamental quantity: the dynamical mass.

OBSERVING DESCRIPTION

We are proposing deep NICMOS/NIC2 imaging for seven individual ~ 2 star-forming galaxy targets. We have obtained detailed H α kinematic maps of these galaxies using the SINFONI near-IR integral field spectrograph. With detail unprecedented for high-redshift galaxy observations, these seeing-limited yet spatially-resolved maps indicate systematic variations in velocity as a function of position. We now require the ~ 1 kpc-scale resolution that NICMOS/NIC2 provides in order to determine the underlying morphological structure, and therefore the evolutionary state and dynamical mass of each of these systems.

We have opted for NIC2 over the lower-resolution, wider-field NIC3 camera, since detailed diffraction-limited observations of individual galaxies are our highest priority rather than surveying the largest possible area. NIC2 is also preferable to the significantly less-sensitive NIC1, whose finer sampling does not provide any advantage in resolution over NIC2, which critically samples the HST point-spread function at $1.6 \sim 1.8 \mu\text{m}$. In terms of wavelength, we argue in the Scientific Justification that rest-frame optical light probes the bulk of the stellar mass more reliably than the rest-frame UV, which traces only the most recent episode of star-formation and is more affected by dust extinction. In order to probe the rest-frame optical at ~ 2 , we propose to use the F160W filter, the central wavelength of which corresponds to rest-frame $\sim 5000 \text{ \AA}$ for our targets. This filter probes the longest wavelength at which the HST thermal emission is unimportant, taking full advantage of the lack of the sky background that limits the sensitivity of ground-based near-IR observations.

We have estimated the required exposure times as follows: for 5 of the 7 proposed targets, we have measured J and K_s-band magnitudes in addition to optical photometry. We have modeled the U_{nG}{cal R}JK_s SEDs of these objects using simple stellar population synthesis models (Shapley et al. 2005; Erb et al. 2006), and used the interpolated H-band magnitude of the best-fit model as a proxy for the brightness in the F160W filter. The estimated H-band magnitudes range from 20.1 - 21.5 (Vega). While we don't have J or K_s-band information for SSA22a-MD41 or Q2346-BX482, we assume that their H-band magnitudes fall within the range spanned by the remainder of the sample. This is a reasonable assumption given that MD41 and BX482 are comparable to other objects in the proposed sample in terms of kinematic properties and size. Based on the seeing-limited spatial information in our SINFONI H α maps, and HST/ACS F814W images of SSA22a-MD41 and Q1700-BX691 (which may not be representative of the rest-frame optical extent, but at least provide an upper limit), we estimate that our targets have areas ranging from

$1.0 - 3.0 \text{ arcsec}^2$, with $\langle \text{average} \rangle$ surface brightnesses ranging from $20.5 \leq \mu_H \leq 22.5 \text{ mag/arcsec}^2$. In order to study the detailed morphologies of our targets, we must be able to discern contrast on $\sim 1 \text{ kpc}$ scales, corresponding roughly to the 2×2 -pixel NIC2 resolution element. We will obtain an average $S/N > 10$ per resolution element for typical objects in our samples in ~ 8000 seconds, assuming average to high levels for the zodiacal light and earthshine backgrounds. In such exposure times, we will achieve $S/N > 5$ per resolution element on average for the faintest objects in our sample, our baseline requirement.

In order to calculate the required orbits we assume that the exposures will be obtained in $\sim 600\text{-}700$ second increments, allowing for 16 independent dither positions to minimize the effects of cosmic-rays, persistence, and flat-fielding. We will use four 4-position NIC-SPIRAL-DITH dither sequences offset from each other by an integer-pixel amount. Within each 4-position dither sequence we plan to use integer+half-pixel offsets to ensure that the PSF is very well sampled, crucial for determining galaxy structural parameters. Our targets range in visibility from 52-54 minutes per orbit. Accounting for the 6 minute guide-star acquisition time and typical values for instrument overhead (i.e. MULTIACCUM read-out, small dithers, and filter set-up) leads to an estimate of 2650-2750 second per orbit for science integration time. We therefore require 4 orbits per target. For the brighter objects in the sample, these exposure times will allow us to push the envelope in terms of detecting significant brightness contrast on small scales.

Finally, we note that both SSA22a-MD41 and Q1700-BX691 are contained in existing 10-orbit ACS/F814W images (PI: Abraham, ID:9760; PI: Shapley, ID: 10581). Our analysis will gain an extra dimension from the comparison of deep rest-frame UV and optical morphologies for these objects, along with their spatially-resolved $H\alpha$ kinematic information.

Parallels: We are requesting ACS/F814W parallels for the duration of our NICMOS/NIC2 observations (as well as NIC1 and NIC3 parallels). We will attempt to constrain the value of "ORIENT," so that the ACS/WFC field falls within our larger UV-selected survey fields. In these fields we have assembled a large body of information about the properties of star-forming galaxies at $z \sim 2$, which will be enhanced with rest-frame UV morphological information.

Proposal 10924 - Visit 01 - Constraints on the Assembly and Dynamical Masses of z~2 Galaxies

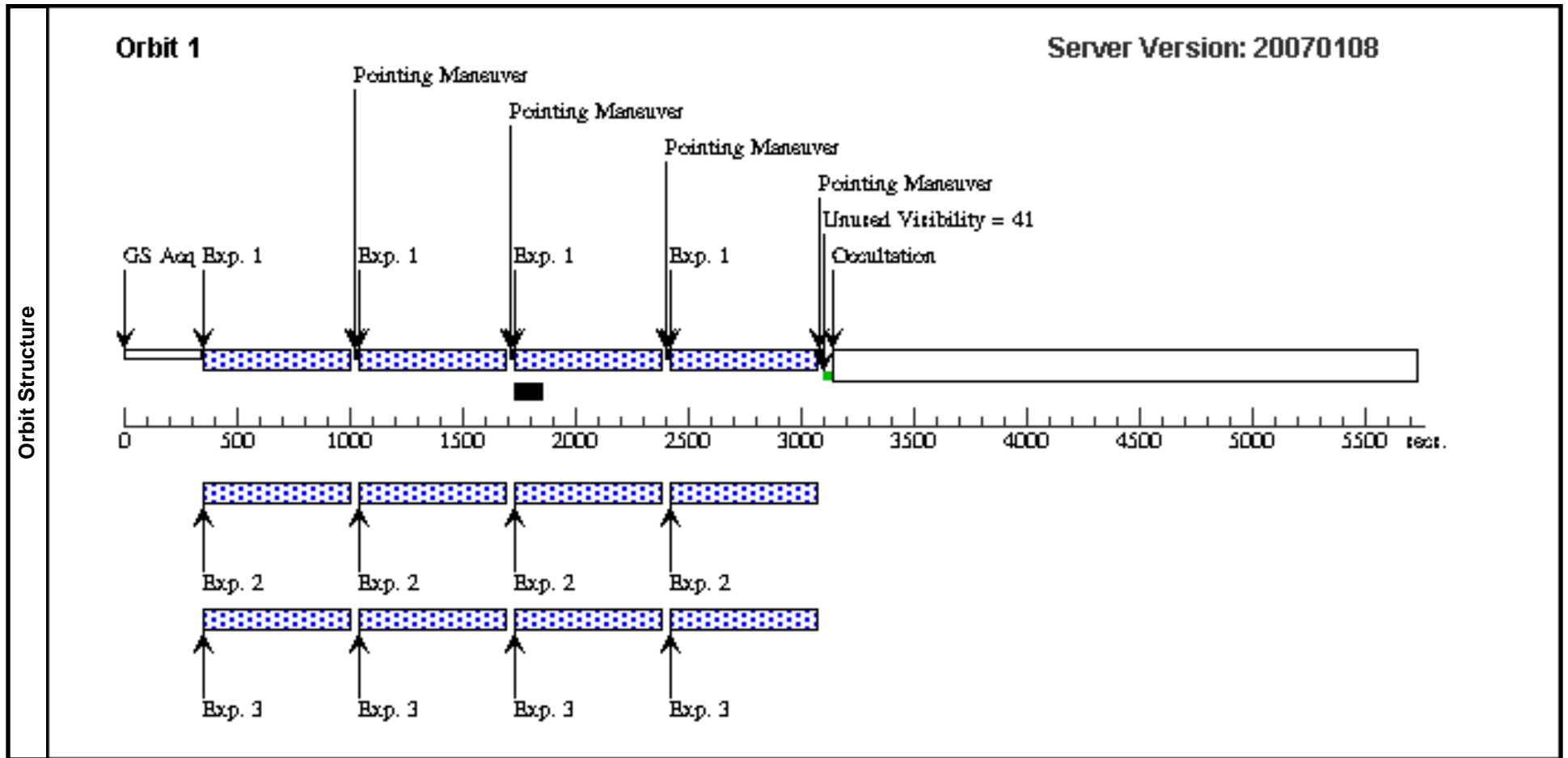
Thu Feb 22 02:44:06 GMT 2007

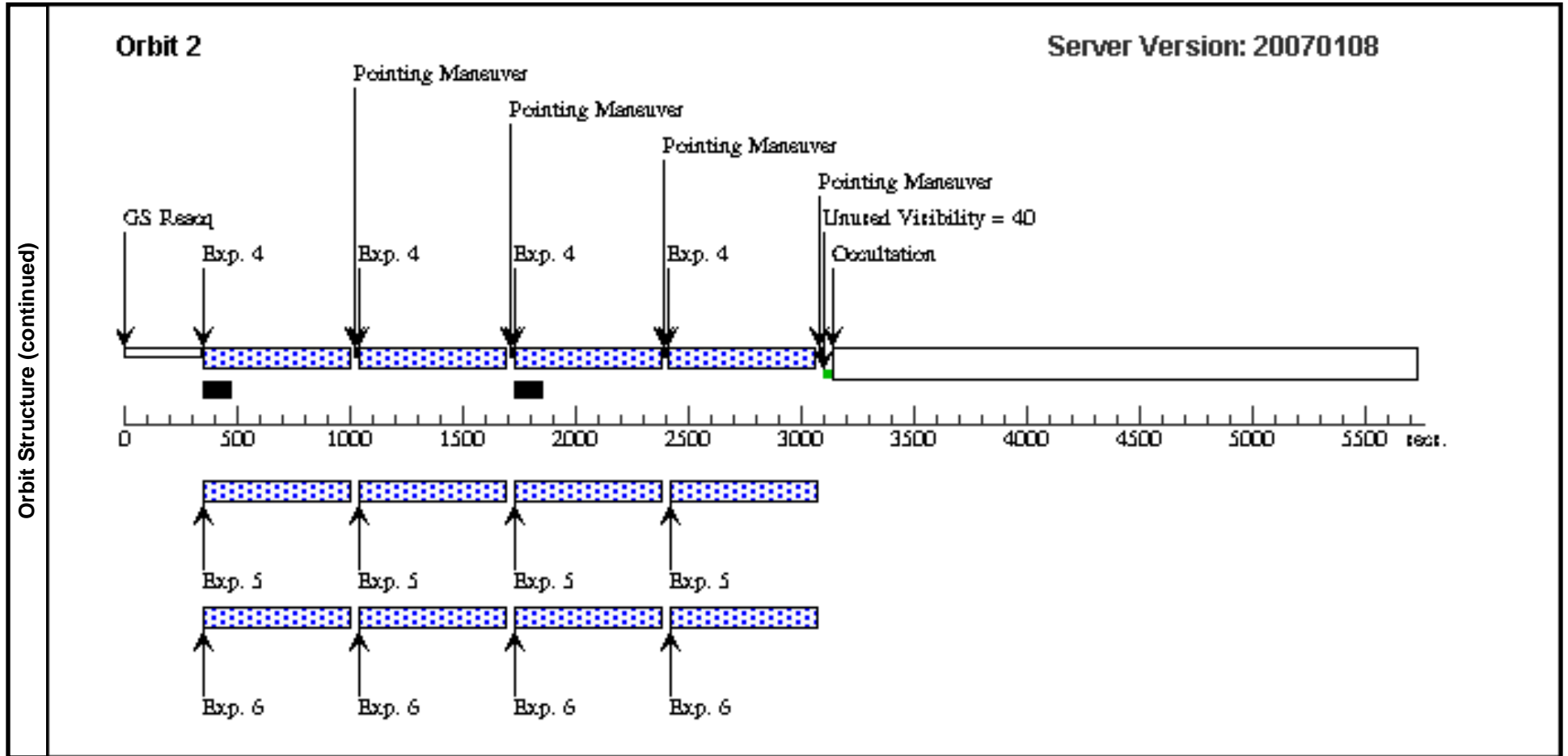
Visit	Proposal 10924, Visit 01, scheduling Diagnostic Status: No Diagnostics Scientific Instruments: NIC2, NIC3, NIC1 Special Requirements: ORIENT 155.0D TO 220.0 D; ORIENT 300.0D TO 320.0 D										
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Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous					
	(1)	Q1623-BX528	RA: 16 25 56.6620 (246.4860917d) Dec: +26 50 18.44 (26.83846d) Equinox: J2000		V=24.0 K=19.8	Reference Frame: ICRS					
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit	
	1		(1) Q1623-BX528	NIC2, MULTIACCUM, NIC2-FIX	F160W	NSAMP=12; SAMP-SEQ=SPARS 64	GS ACQ SCENARI O BASE1TNS	Pattern 1-3 (1) Prime + Parallel Gro up 1-3	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[1]	
	<i>Comments: Since primary NIC2 observations are long exposures of faint galaxy targets, please do not schedule right after passage through SAA.</i>										
	2		ANY	NIC1, MULTIACCUM, NIC1	F160W	NSAMP=12; SAMP-SEQ=SPARS 64		Pattern 1-3 (1) Prime + Parallel Gro up 1-3	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[1]	
	3		ANY	NIC3, MULTIACCUM, NIC3	F160W	NSAMP=12; SAMP-SEQ=SPARS 64		Pattern 1-3 (1) Prime + Parallel Gro up 1-3	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[1]	
4		(1) Q1623-BX528	NIC2, MULTIACCUM, NIC2-FIX	F160W	NSAMP=12; SAMP-SEQ=SPARS 64	POS TARG 0,0.9	Pattern 4-6 (1) Prime + Parallel Gro up 4-6	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[2]		
<i>Comments: Since primary NIC2 observations are long exposures of faint galaxy targets, please do not schedule right after passage through SAA.</i>											

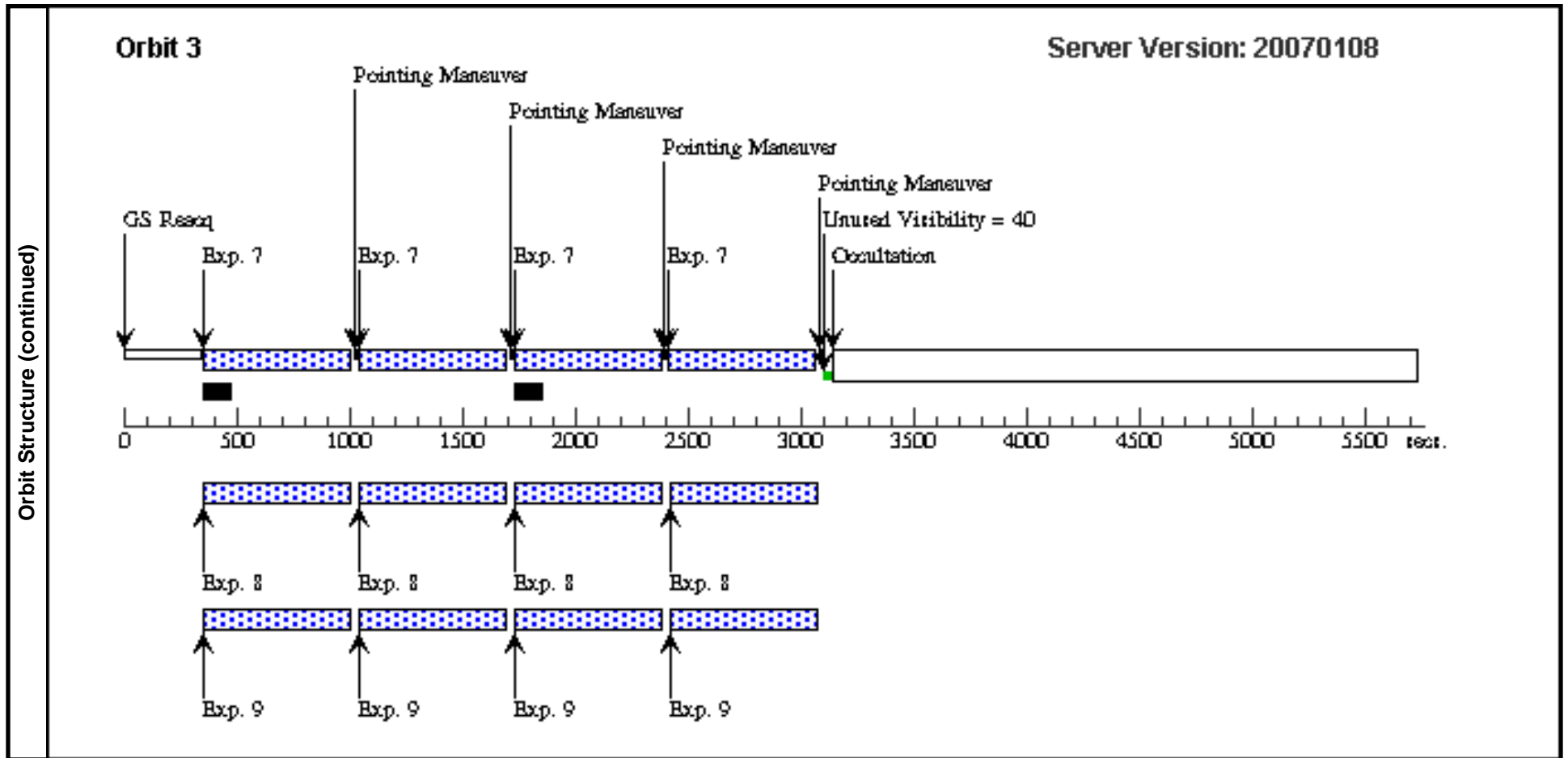
Proposal 10924 - Visit 01 - Constraints on the Assembly and Dynamical Masses of z~2 Galaxies

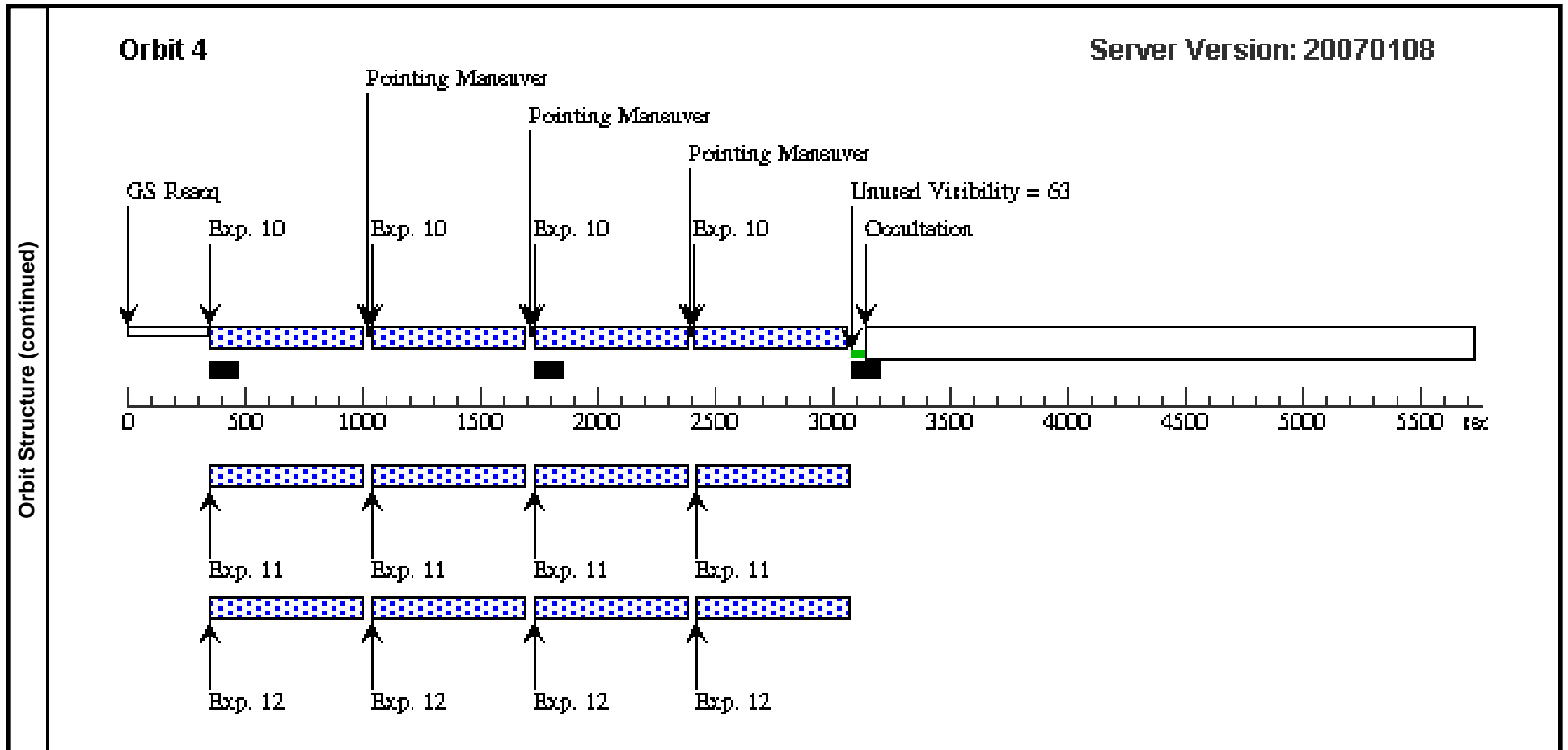
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6		ANY	NIC3, MULTIACCUM, NIC3	F160W	NSAMP=12; SAMP-SEQ=SPARS 64		Pattern 4-6 (1) Prime + Parallel Gro up 4-6	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[2]
7		(1) Q1623-BX528	NIC2, MULTIACCUM, NIC2-FIX	F160W	NSAMP=12; SAMP-SEQ=SPARS 64	POS TARG -0.9,0.4 5	Pattern 7-9 (1) Prime + Parallel Gro up 7-9	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[3]
<i>Comments: Since primary NIC2 observations are long exposures of faint galaxy targets, please do not schedule right after passage through SAA.</i>									
8		ANY	NIC1, MULTIACCUM, NIC1	F160W	NSAMP=12; SAMP-SEQ=SPARS 64		Pattern 7-9 (1) Prime + Parallel Gro up 7-9	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[3]
9		ANY	NIC3, MULTIACCUM, NIC3	F160W	NSAMP=12; SAMP-SEQ=SPARS 64		Pattern 7-9 (1) Prime + Parallel Gro up 7-9	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[3]
10		(1) Q1623-BX528	NIC2, MULTIACCUM, NIC2-FIX	F160W	NSAMP=12; SAMP-SEQ=SPARS 64	POS TARG 0.9,0.45	Pattern 10-12 (1) Prime + Parallel Gro up 10-12	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[4]
<i>Comments: Since primary NIC2 observations are long exposures of faint galaxy targets, please do not schedule right after passage through SAA.</i>									
11		ANY	NIC1, MULTIACCUM, NIC1	F160W	NSAMP=12; SAMP-SEQ=SPARS 64		Pattern 10-12 (1) Prime + Parallel Gro up 10-12	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[4]
12		ANY	NIC3, MULTIACCUM, NIC3	F160W	NSAMP=12; SAMP-SEQ=SPARS 64		Pattern 10-12 (1) Prime + Parallel Gro up 10-12	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[4]

Exposures (continued)









Proposal 10924 - Visit 02 - Constraints on the Assembly and Dynamical Masses of z~2 Galaxies

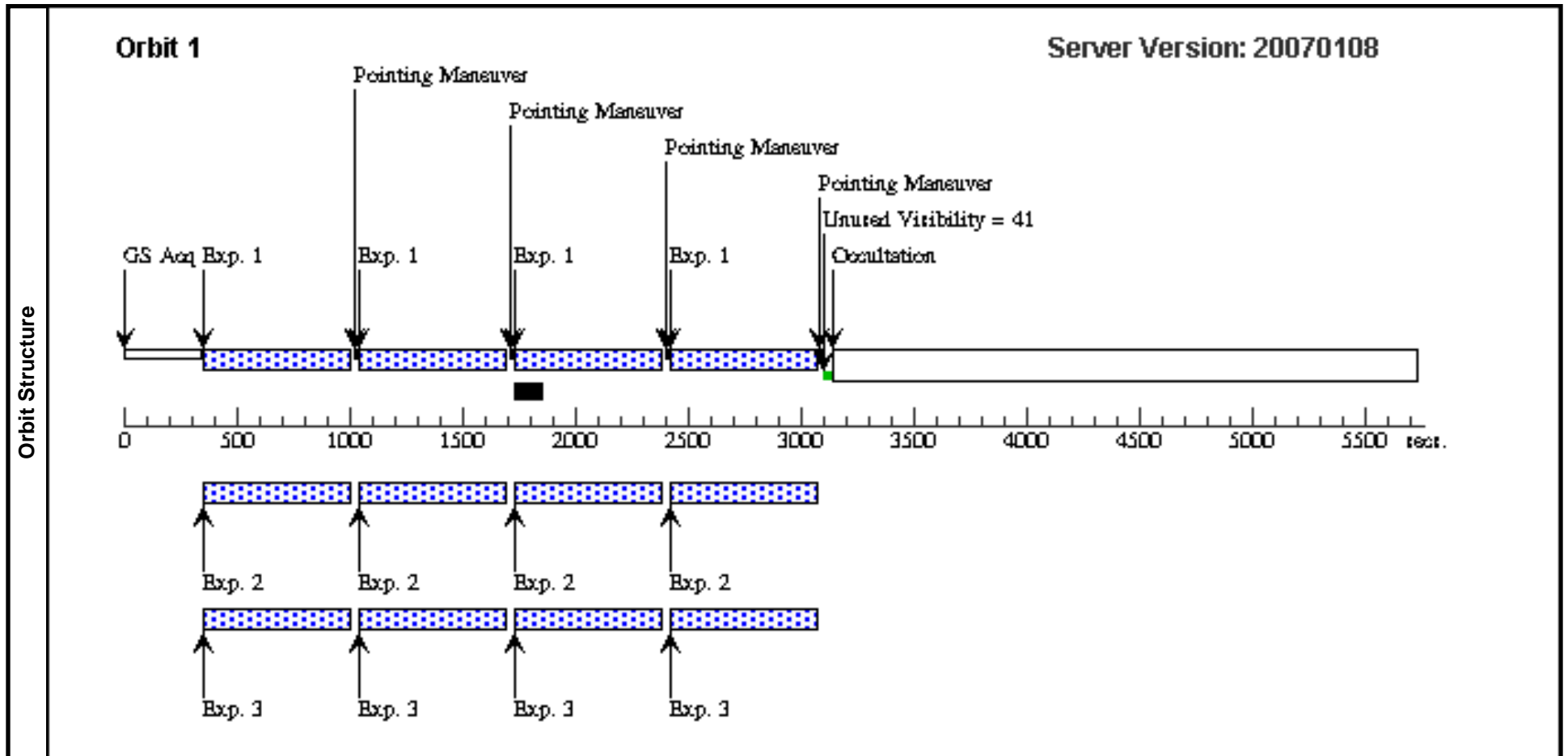
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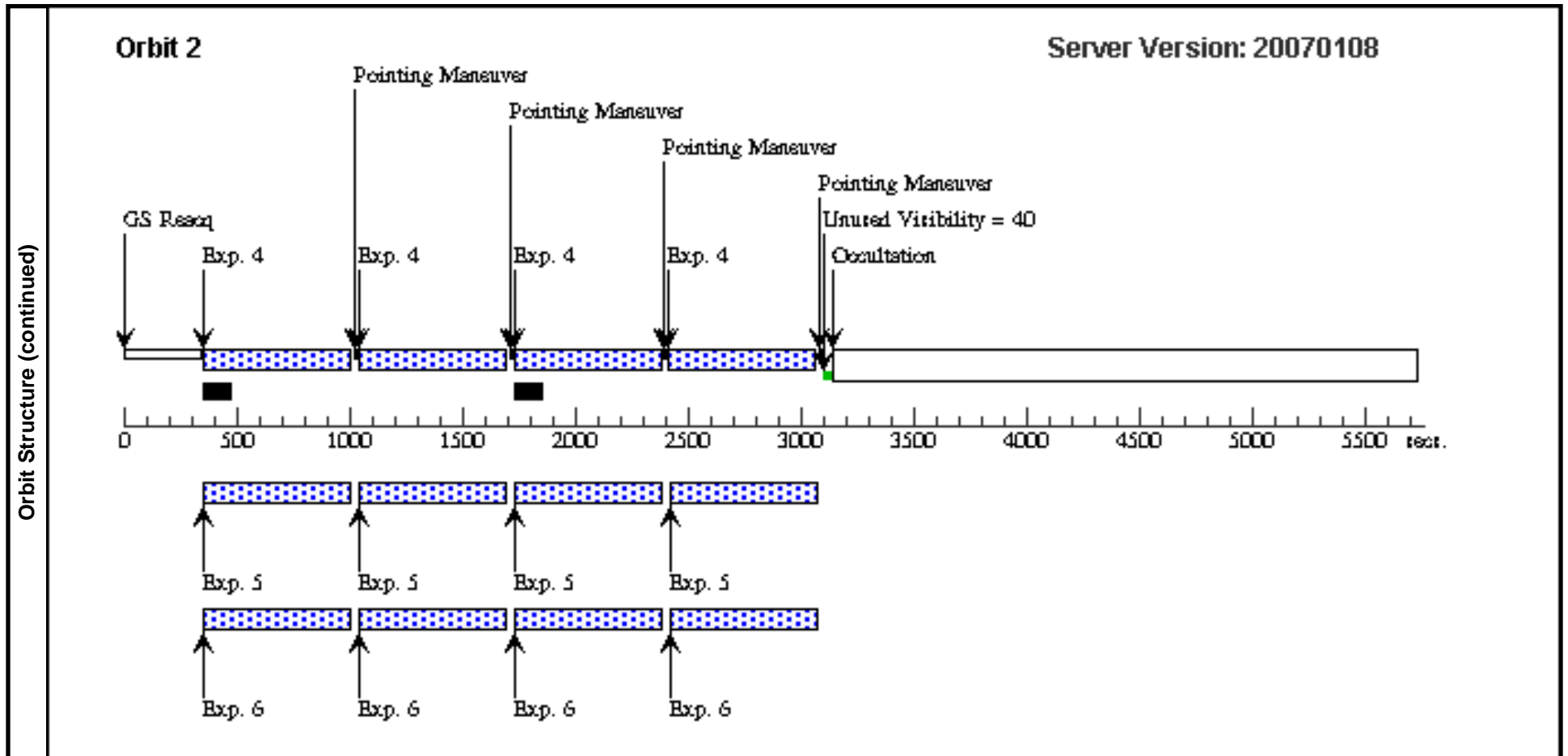
Visit	Proposal 10924, Visit 02, scheduling Diagnostic Status: No Diagnostics Scientific Instruments: NIC2, NIC3, NIC1 Special Requirements: ORIENT 140.0D TO 205.0 D; ORIENT 320.0D TO 30.0 D										
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Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous					
	(2)	Q1623-BX663	RA: 16 26 4.5000 (246.5187500d) Dec: +26 48 1.20 (26.80033d) Equinox: J2000		V=24.5 K=19.9	Reference Frame: ICRS					
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit	
	1		(2) Q1623-BX663	NIC2, MULTIACCUM, NIC2-FIX	F160W	NSAMP=12; SAMP-SEQ=SPARS 64	GS ACQ SCENARI O BASE1TNS	Pattern 1-3 (1) Prime + Parallel Gro up 1-3	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[1]	
	<i>Comments: Since primary NIC2 observations are long exposures of faint galaxy targets, please do not schedule right after passage through SAA.</i>										
	2		ANY	NIC1, MULTIACCUM, NIC1	F160W	NSAMP=12; SAMP-SEQ=SPARS 64		Pattern 1-3 (1) Prime + Parallel Gro up 1-3	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[1]	
	3		ANY	NIC3, MULTIACCUM, NIC3	F160W	NSAMP=12; SAMP-SEQ=SPARS 64		Pattern 1-3 (1) Prime + Parallel Gro up 1-3	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[1]	
4		(2) Q1623-BX663	NIC2, MULTIACCUM, NIC2-FIX	F160W	NSAMP=12; SAMP-SEQ=SPARS 64	POS TARG 0,0,9	Pattern 4-6 (1) Prime + Parallel Gro up 4-6	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[2]		
<i>Comments: Since primary NIC2 observations are long exposures of faint galaxy targets, please do not schedule right after passage through SAA.</i>											

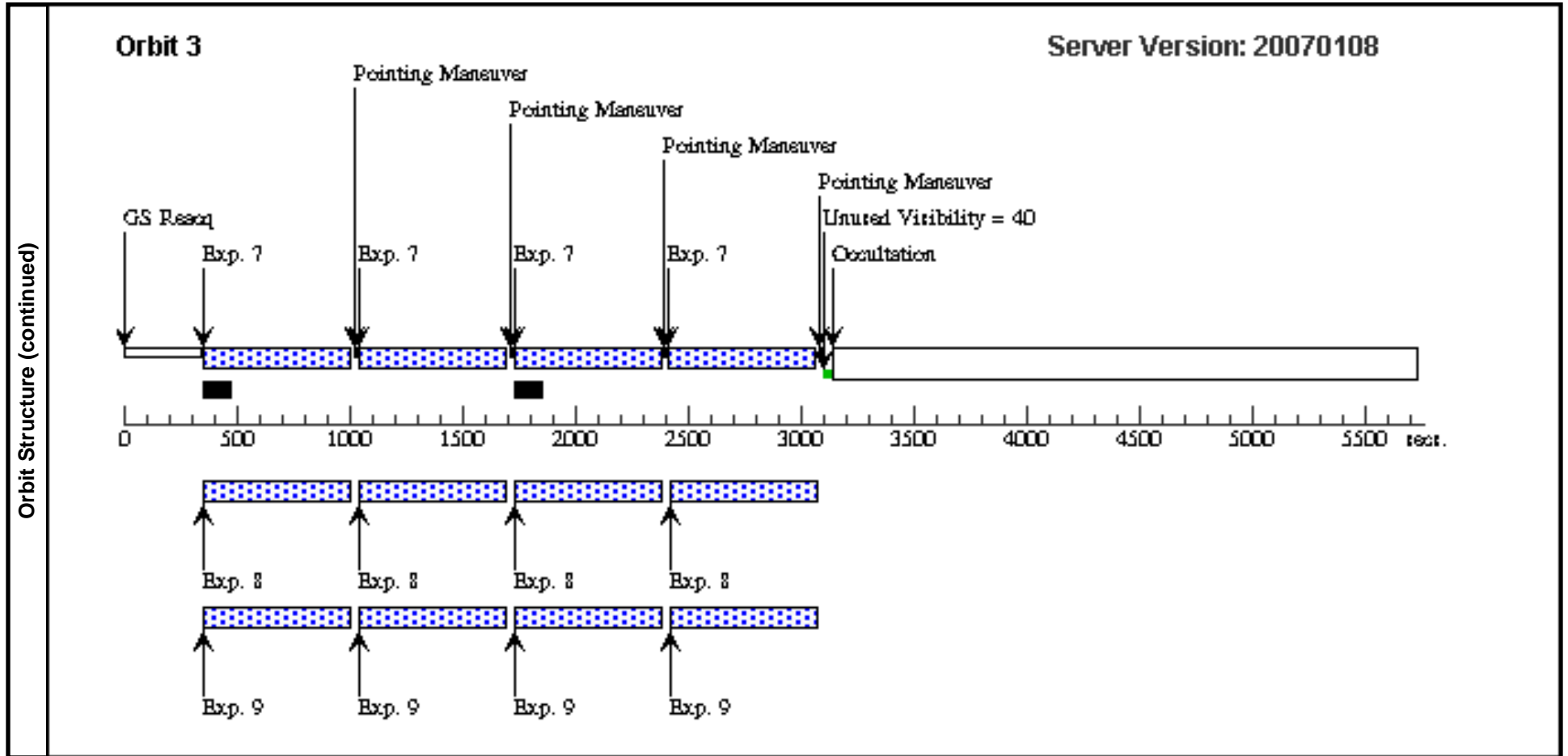
Proposal 10924 - Visit 02 - Constraints on the Assembly and Dynamical Masses of z~2 Galaxies

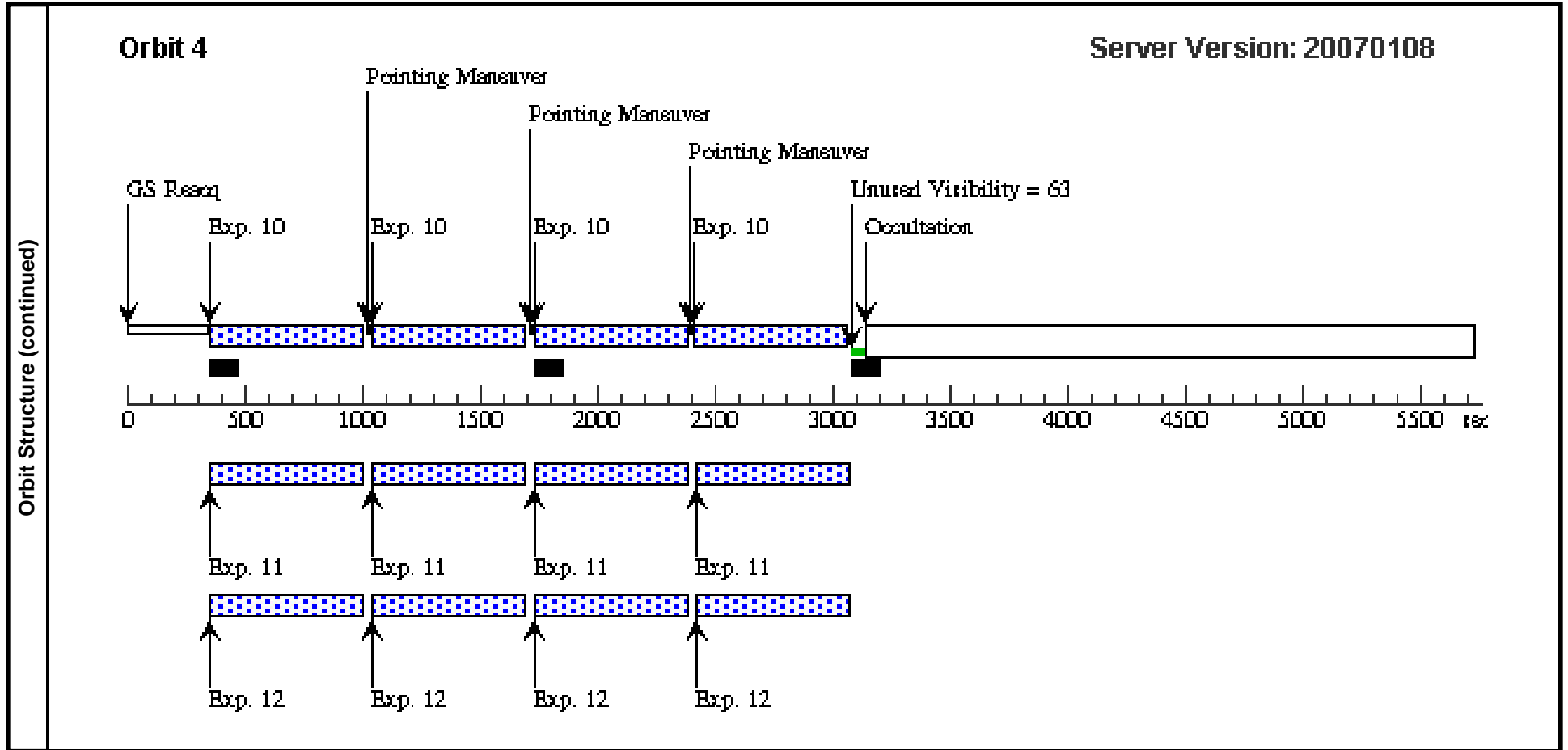
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6		ANY	NIC3, MULTIACCUM, NIC3	F160W	NSAMP=12; SAMP-SEQ=SPARS 64		Pattern 4-6 (1) Prime + Parallel Gro up 4-6	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[2]
7	(2) Q1623-BX663		NIC2, MULTIACCUM, NIC2-FIX	F160W	NSAMP=12; SAMP-SEQ=SPARS 64	POS TARG -0.9,0.4 5	Pattern 7-9 (1) Prime + Parallel Gro up 7-9	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[3]
<i>Comments: Since primary NIC2 observations are long exposures of faint galaxy targets, please do not schedule right after passage through SAA.</i>									
8		ANY	NIC1, MULTIACCUM, NIC1	F160W	NSAMP=12; SAMP-SEQ=SPARS 64		Pattern 7-9 (1) Prime + Parallel Gro up 7-9	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[3]
9		ANY	NIC3, MULTIACCUM, NIC3	F160W	NSAMP=12; SAMP-SEQ=SPARS 64		Pattern 7-9 (1) Prime + Parallel Gro up 7-9	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[3]
10	(2) Q1623-BX663		NIC2, MULTIACCUM, NIC2-FIX	F160W	NSAMP=12; SAMP-SEQ=SPARS 64	POS TARG 0.9,0.45	Pattern 10-12 (1) Prime + Parallel Gro up 10-12	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[4]
<i>Comments: Since primary NIC2 observations are long exposures of faint galaxy targets, please do not schedule right after passage through SAA.</i>									
11		ANY	NIC1, MULTIACCUM, NIC1	F160W	NSAMP=12; SAMP-SEQ=SPARS 64		Pattern 10-12 (1) Prime + Parallel Gro up 10-12	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[4]
12		ANY	NIC3, MULTIACCUM, NIC3	F160W	NSAMP=12; SAMP-SEQ=SPARS 64		Pattern 10-12 (1) Prime + Parallel Gro up 10-12	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[4]

Exposures (continued)









Proposal 10924 - Visit 03 - Constraints on the Assembly and Dynamical Masses of z~2 Galaxies

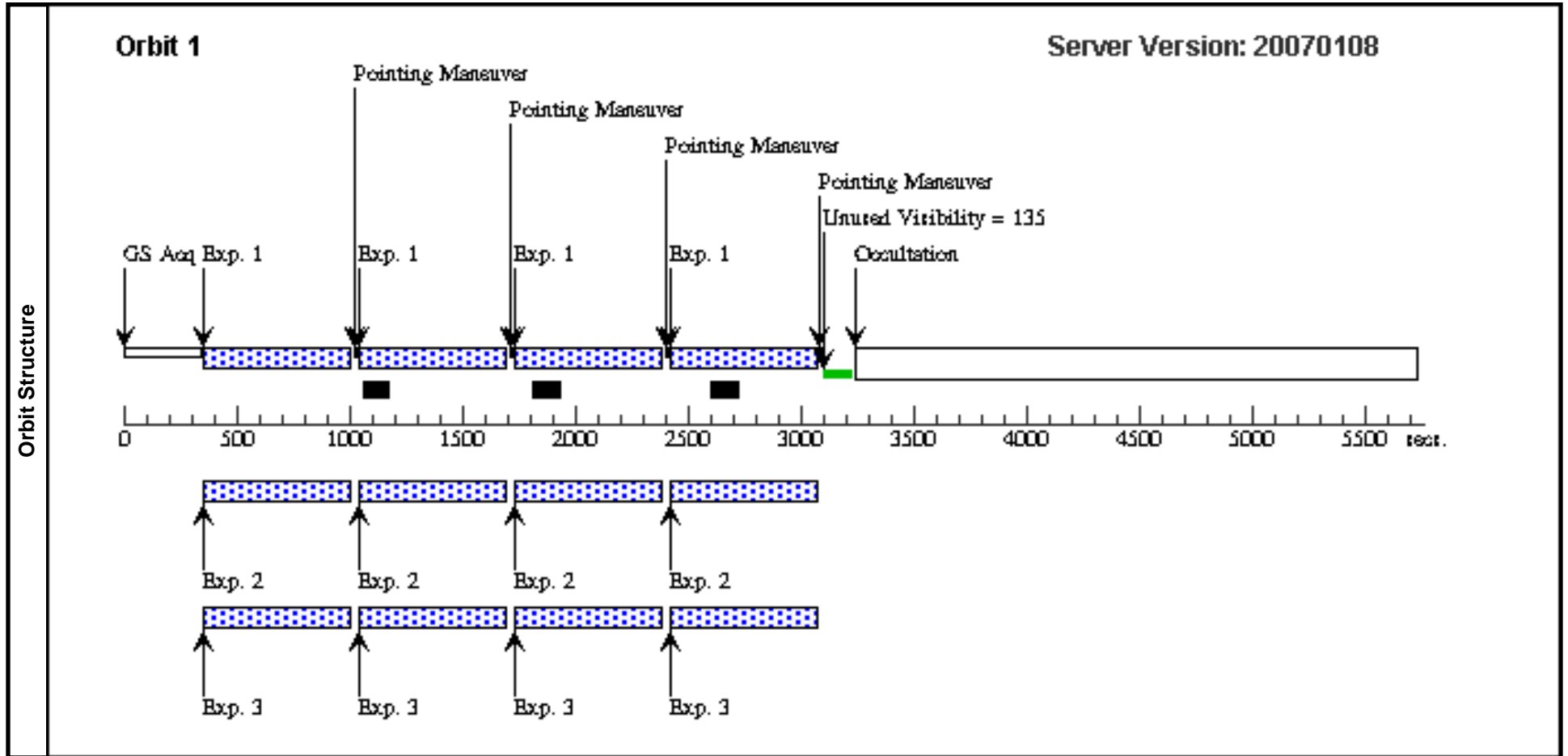
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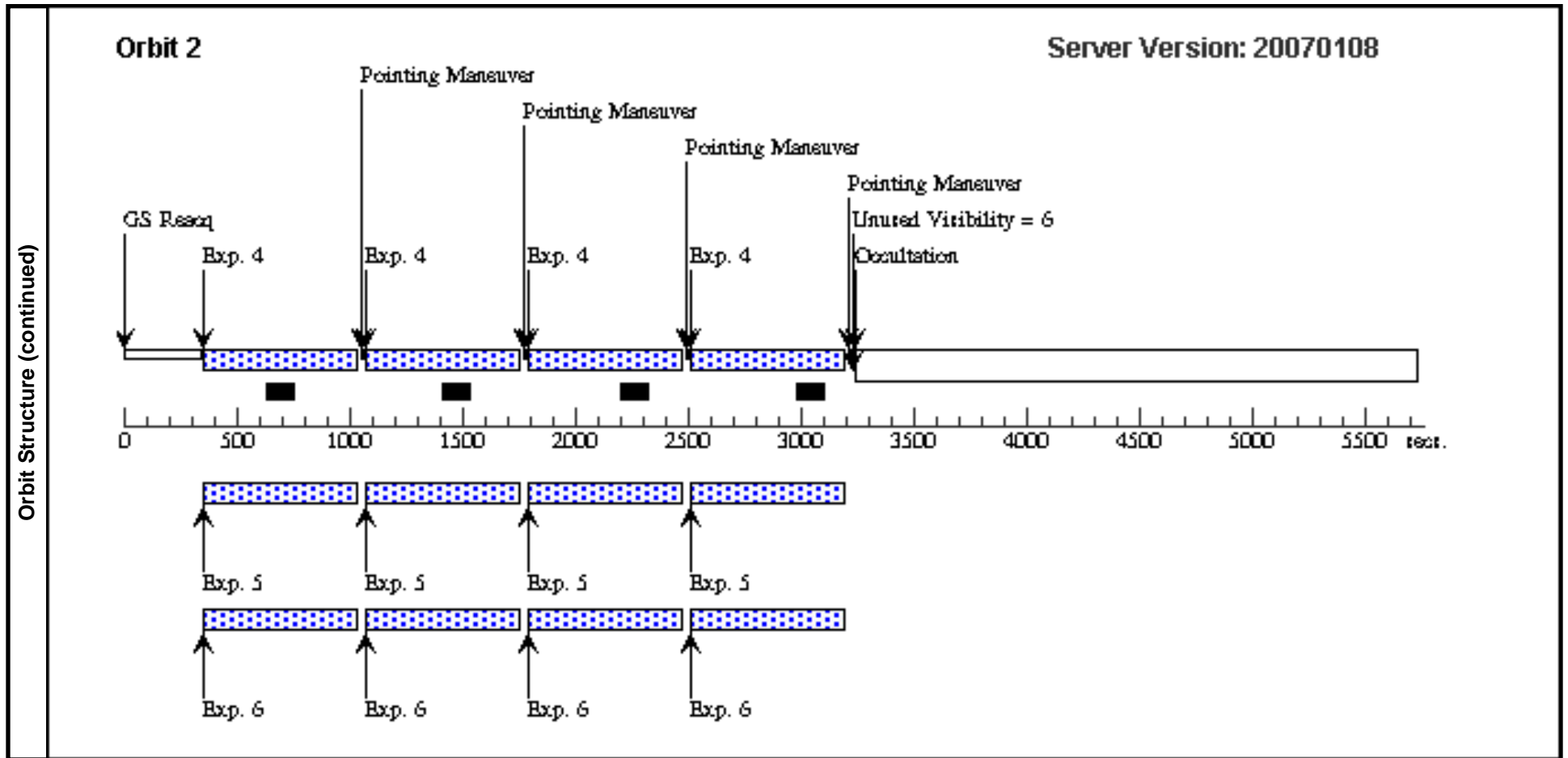
Visit	Proposal 10924, Visit 03, scheduling Diagnostic Status: No Diagnostics Scientific Instruments: NIC2, NIC3, NIC1 Special Requirements: ORIENT 300.0D TO 40.0 D										
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Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous					
	(3)	Q1700-BX691	RA: 17 01 5.5500 (255.2731250d) Dec: +64 12 10.11 (64.20281d) Equinox: J2000		V=26.0 K=20.7	Reference Frame: ICRS					
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit	
	1		(3) Q1700-BX691	NIC2, MULTIACCUM, NIC2-FIX	F160W	NSAMP=22; SAMP-SEQ=SPARS 32	GS ACQ SCENARI O BASE1TNS	Pattern 1-3 (1) Prime + Parallel Gro up 1-3	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[1]	
	<i>Comments: Since primary NIC2 observations are long exposures of faint galaxy targets, please do not schedule right after passage through SAA.</i>										
	2		ANY	NIC1, MULTIACCUM, NIC1	F160W	NSAMP=22; SAMP-SEQ=SPARS 32		Pattern 1-3 (1) Prime + Parallel Gro up 1-3	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[1]	
	3		ANY	NIC3, MULTIACCUM, NIC3	F160W	NSAMP=22; SAMP-SEQ=SPARS 32		Pattern 1-3 (1) Prime + Parallel Gro up 1-3	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[1]	
4		(3) Q1700-BX691	NIC2, MULTIACCUM, NIC2-FIX	F160W	NSAMP=23; SAMP-SEQ=SPARS 32	POS TARG 0,0.9	Pattern 4-6 (1) Prime + Parallel Gro up 4-6	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[2]		
<i>Comments: Since primary NIC2 observations are long exposures of faint galaxy targets, please do not schedule right after passage through SAA.</i>											

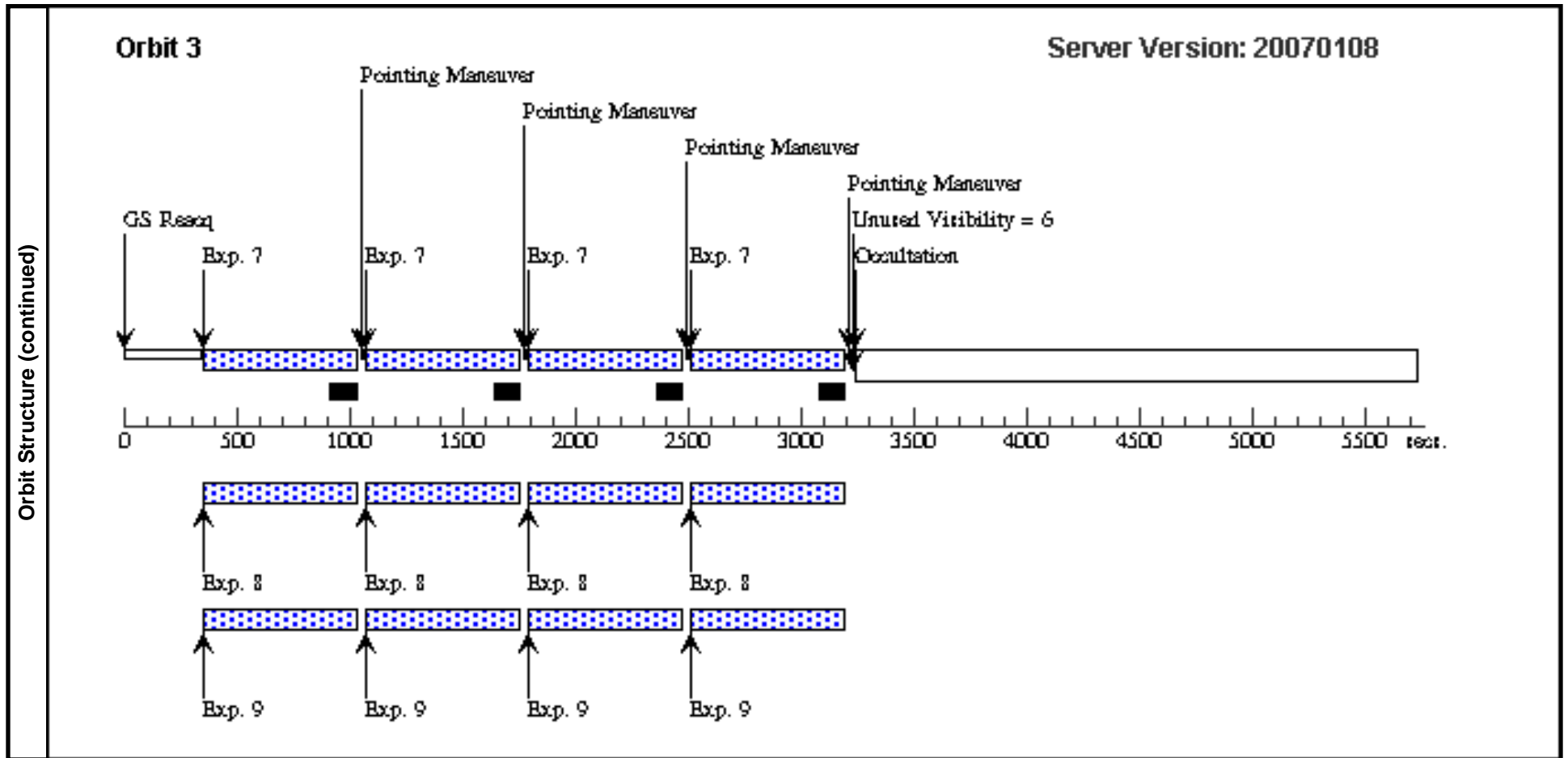
Proposal 10924 - Visit 03 - Constraints on the Assembly and Dynamical Masses of z~2 Galaxies

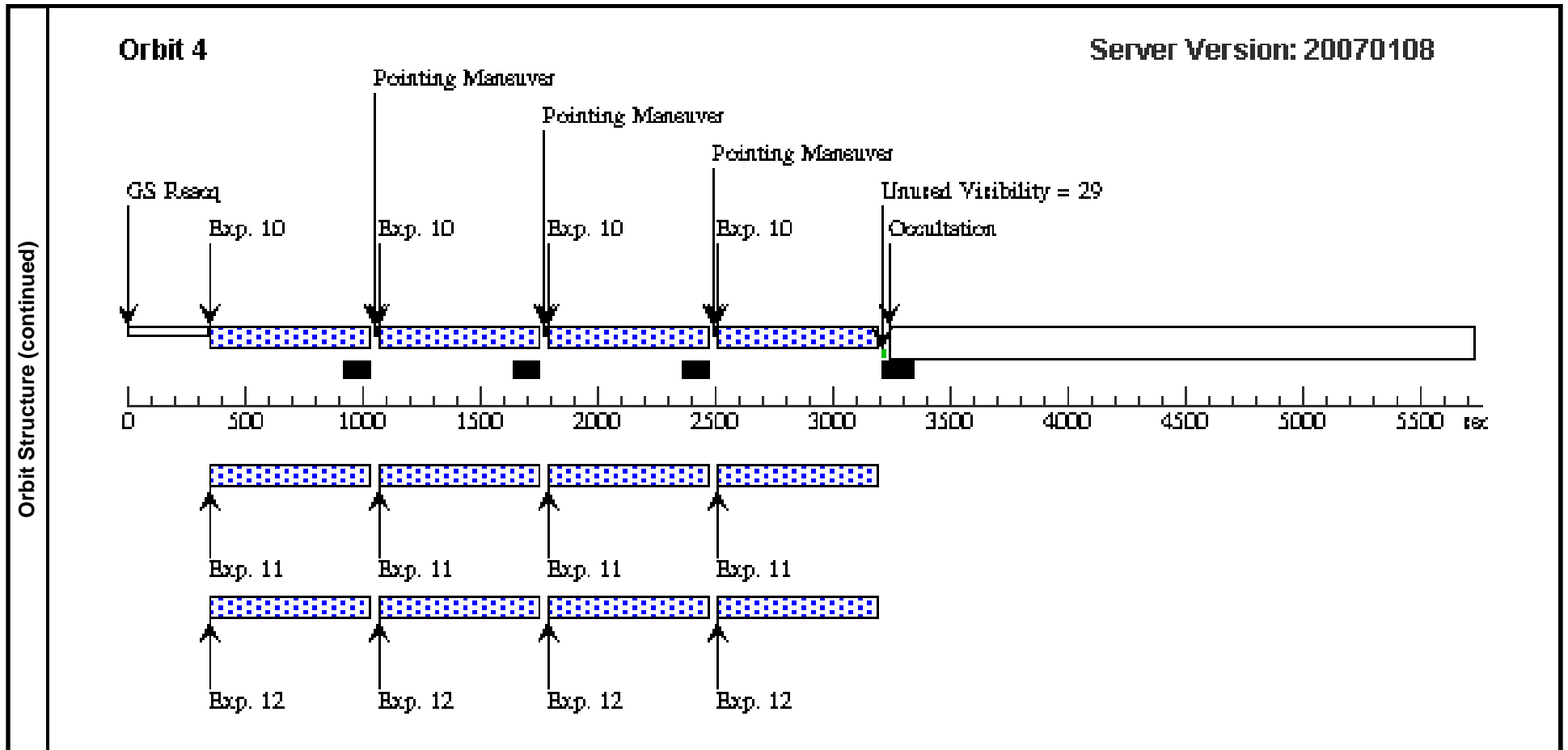
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5		ANY	NIC1, MULTIACCUM, NIC1	F160W	NSAMP=23; SAMP-SEQ=SPARS 32		Pattern 4-6 (1) Prime + Parallel Gro up 4-6	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[2]
6		ANY	NIC3, MULTIACCUM, NIC3	F160W	NSAMP=23; SAMP-SEQ=SPARS 32		Pattern 4-6 (1) Prime + Parallel Gro up 4-6	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[2]
7	(3) Q1700-BX691		NIC2, MULTIACCUM, NIC2-FIX	F160W	NSAMP=23; SAMP-SEQ=SPARS 32	POS TARG -0.9,0.4 5	Pattern 7-9 (1) Prime + Parallel Gro up 7-9	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[3]
<i>Comments: Since primary NIC2 observations are long exposures of faint galaxy targets, please do not schedule right after passage through SAA.</i>									
8		ANY	NIC1, MULTIACCUM, NIC1	F160W	NSAMP=23; SAMP-SEQ=SPARS 32		Pattern 7-9 (1) Prime + Parallel Gro up 7-9	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[3]
9		ANY	NIC3, MULTIACCUM, NIC3	F160W	NSAMP=23; SAMP-SEQ=SPARS 32		Pattern 7-9 (1) Prime + Parallel Gro up 7-9	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[3]
10	(3) Q1700-BX691		NIC2, MULTIACCUM, NIC2-FIX	F160W	NSAMP=23; SAMP-SEQ=SPARS 32	POS TARG 0.9,0.45	Pattern 10-12 (1) Prime + Parallel Gro up 10-12	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[4]
<i>Comments: Since primary NIC2 observations are long exposures of faint galaxy targets, please do not schedule right after passage through SAA.</i>									
11		ANY	NIC1, MULTIACCUM, NIC1	F160W	NSAMP=23; SAMP-SEQ=SPARS 32		Pattern 10-12 (1) Prime + Parallel Gro up 10-12	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[4]
12		ANY	NIC3, MULTIACCUM, NIC3	F160W	NSAMP=23; SAMP-SEQ=SPARS 32		Pattern 10-12 (1) Prime + Parallel Gro up 10-12	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[4]

Exposures (continued)









Proposal 10924 - Visit 04 - Constraints on the Assembly and Dynamical Masses of z~2 Galaxies

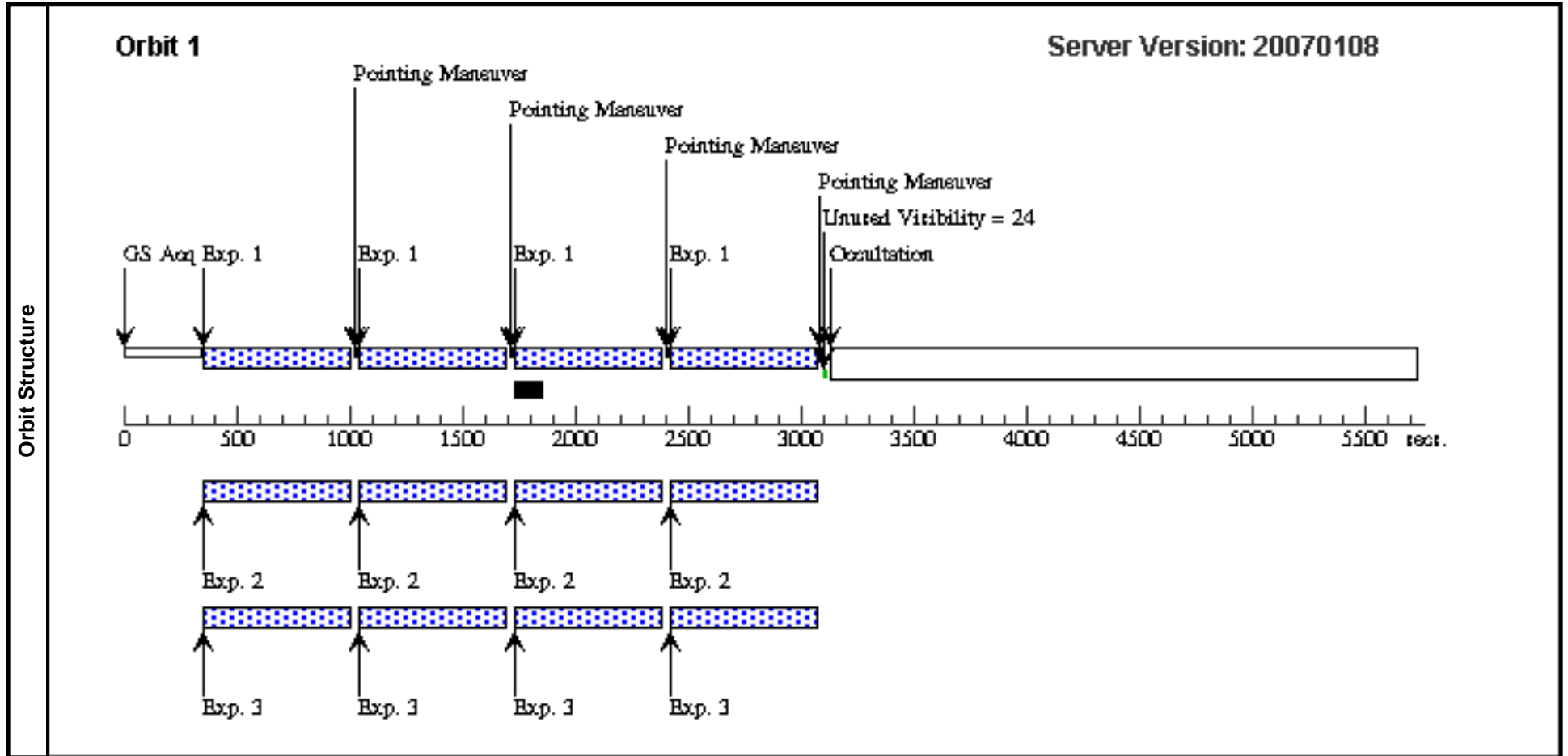
Thu Feb 22 02:44:12 GMT 2007

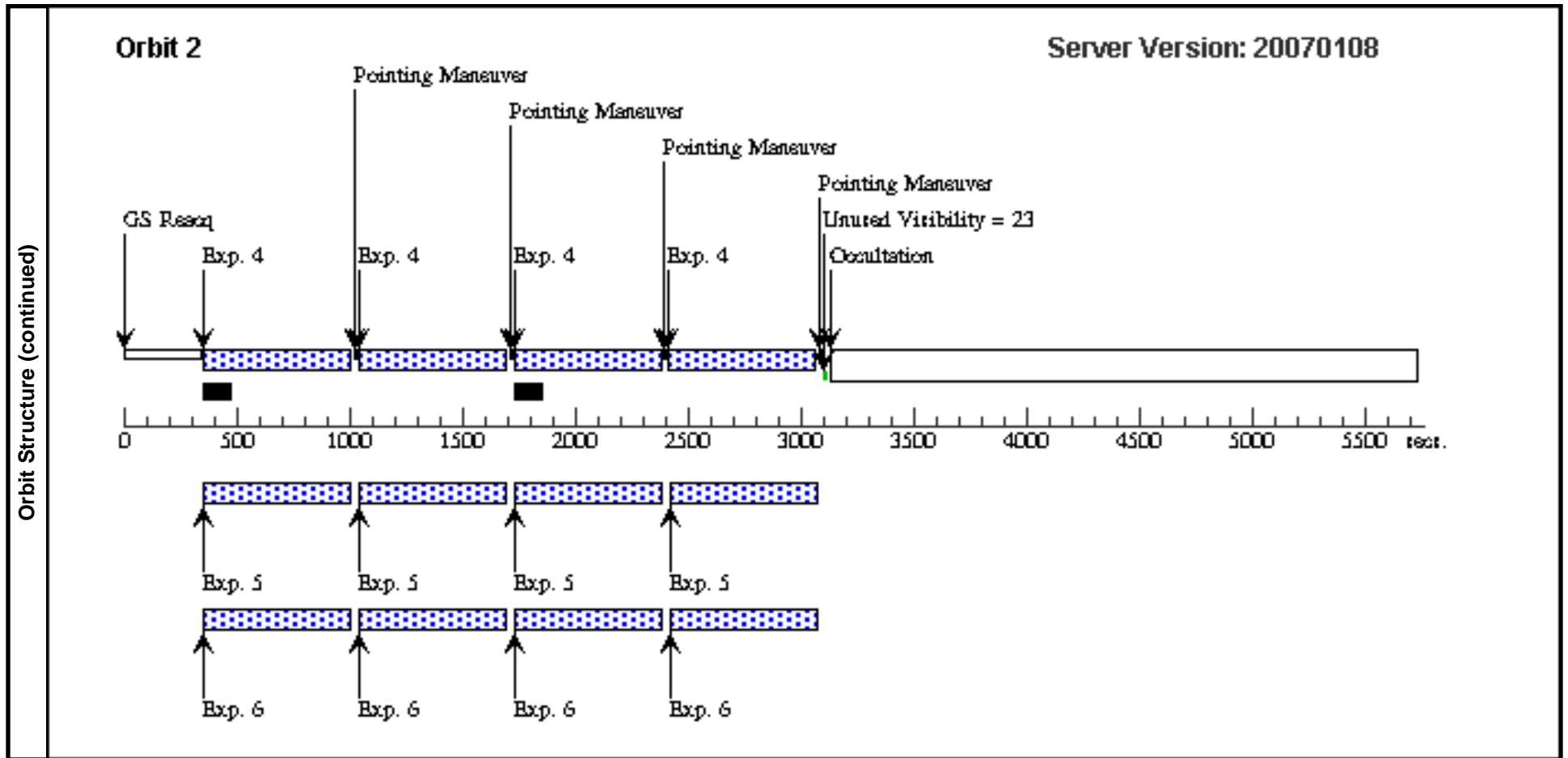
Visit	Proposal 10924, Visit 04, scheduling Diagnostic Status: No Diagnostics Scientific Instruments: NIC2, NIC3, NIC1 Special Requirements: (none)										
	Patterns	#	Primary Pattern	Secondary Pattern	Exposures						
		(1)	Pattern Type=NIC-SPIRAL-DITH Purpose=DITHER Number Of Points=4 Point Spacing=1.538 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=0 Angle Between Sides= Center Pattern=false		(1-3), (4-6), (7-9), (10-12)					
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous					
	(4)	SSA22A-MD41	RA: 22 17 39.9610 (334.4165042d) Dec: +00 17 13.08 (.28697d) Equinox: J2000		V=24.0	Reference Frame: ICRS					
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit	
	1		(4) SSA22A-MD41	NIC2, MULTIACCUM, NIC2-FIX	F160W	NSAMP=12; SAMP-SEQ=SPARS 64	GS ACQ SCENARI O BASE1TNS	Pattern 1-3 (1) Prime + Parallel Gro up 1-3	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[1]	
	<i>Comments: Since primary NIC2 observations are long exposures of faint galaxy targets, please do not schedule right after passage through SAA.</i>										
	2		ANY		NIC1, MULTIACCUM, NIC1	F160W	NSAMP=12; SAMP-SEQ=SPARS 64		Pattern 1-3 (1) Prime + Parallel Gro up 1-3	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[1]
	3		ANY		NIC3, MULTIACCUM, NIC3	F160W	NSAMP=12; SAMP-SEQ=SPARS 64		Pattern 1-3 (1) Prime + Parallel Gro up 1-3	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[1]
4		(4) SSA22A-MD41		NIC2, MULTIACCUM, NIC2-FIX	F160W	NSAMP=12; SAMP-SEQ=SPARS 64	POS TARG 0,0,9	Pattern 4-6 (1) Prime + Parallel Gro up 4-6	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[2]	
<i>Comments: Since primary NIC2 observations are long exposures of faint galaxy targets, please do not schedule right after passage through SAA.</i>											

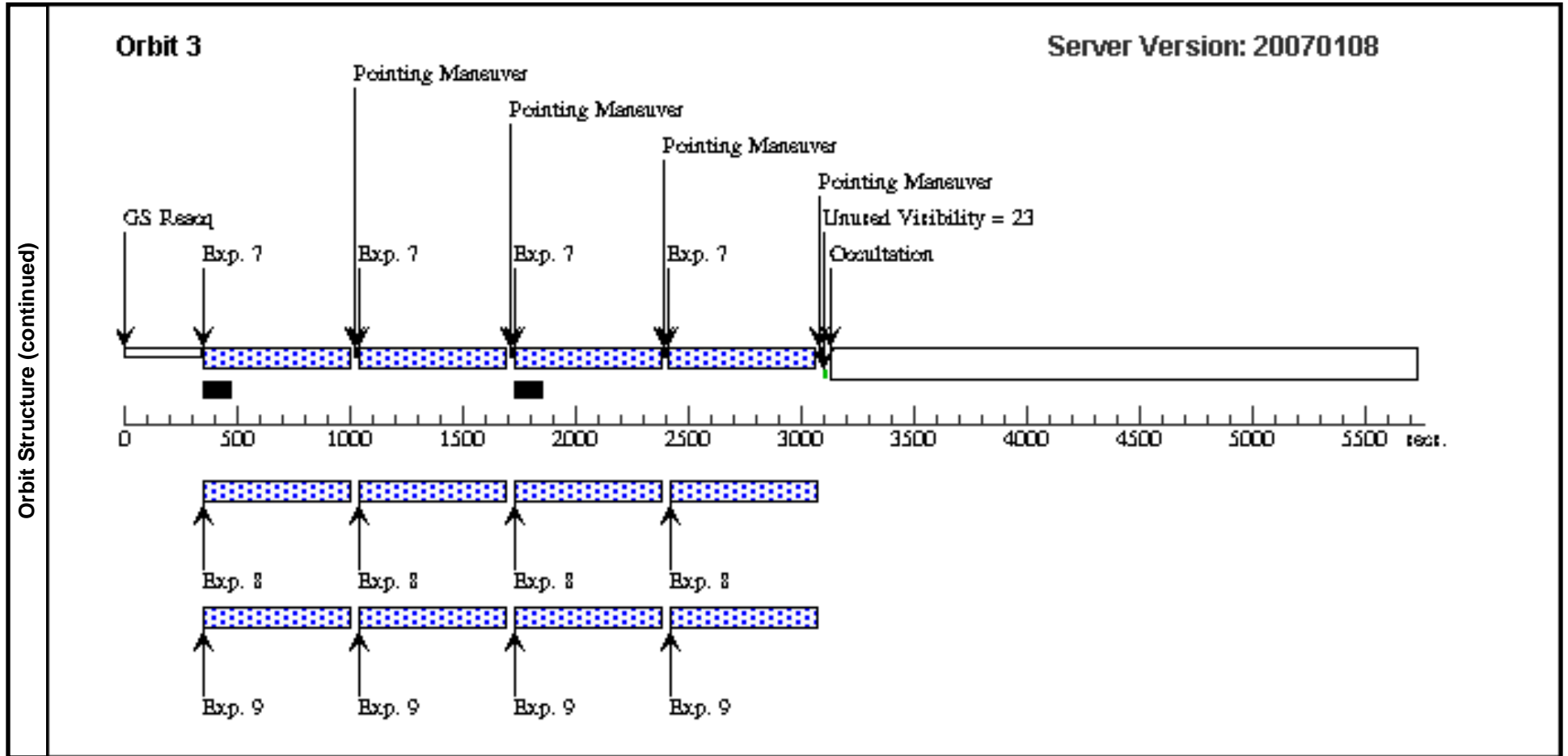
Proposal 10924 - Visit 04 - Constraints on the Assembly and Dynamical Masses of z~2 Galaxies

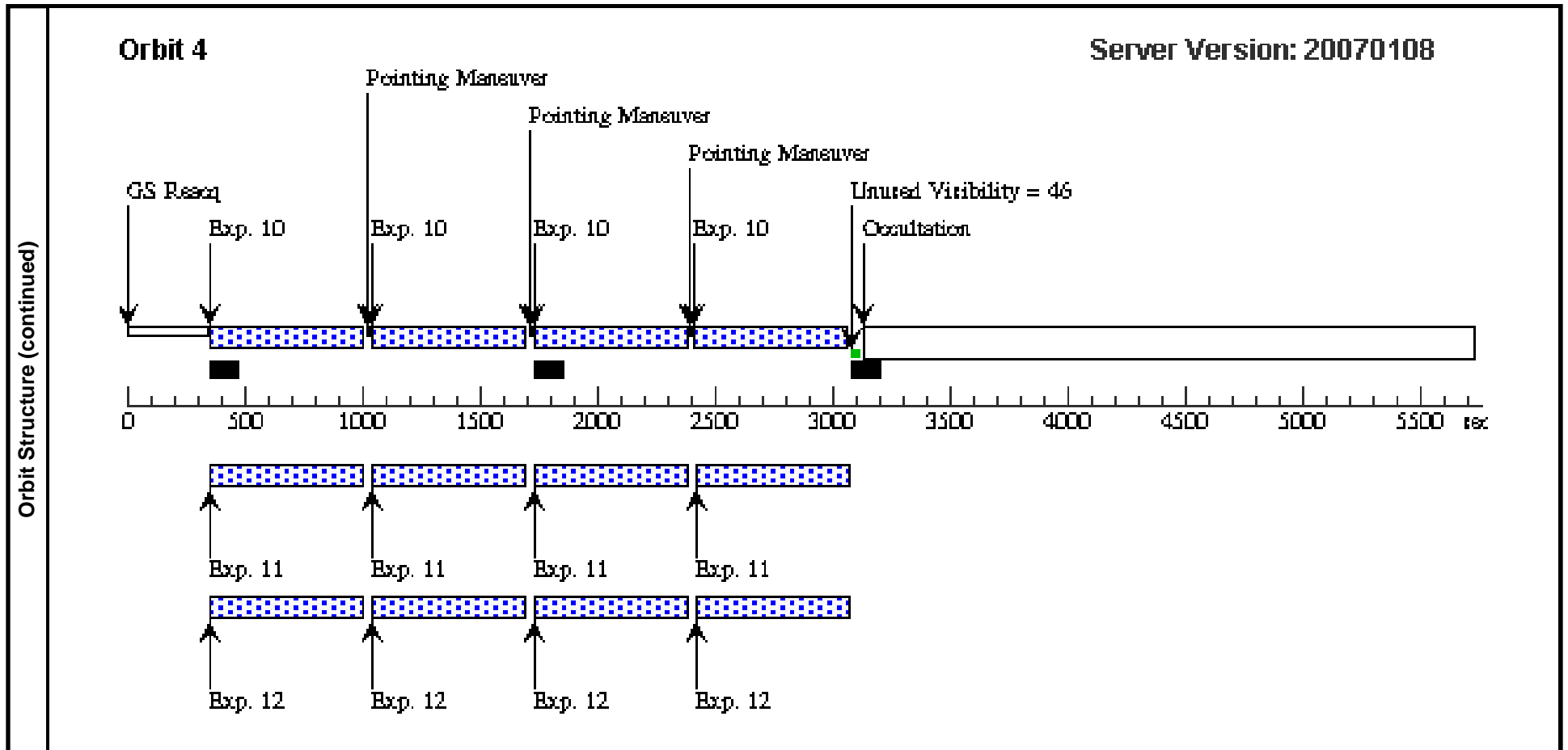
#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
5		ANY	NIC1, MULTIACCUM, NIC1	F160W	NSAMP=12; SAMP-SEQ=SPARS 64		Pattern 4-6 (1) Prime + Parallel Gro up 4-6	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[2]
6		ANY	NIC3, MULTIACCUM, NIC3	F160W	NSAMP=12; SAMP-SEQ=SPARS 64		Pattern 4-6 (1) Prime + Parallel Gro up 4-6	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[2]
7	(4) SSA22A-MD41		NIC2, MULTIACCUM, NIC2-FIX	F160W	NSAMP=12; SAMP-SEQ=SPARS 64	POS TARG -0.9,0.4 5	Pattern 7-9 (1) Prime + Parallel Gro up 7-9	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[3]
<i>Comments: Since primary NIC2 observations are long exposures of faint galaxy targets, please do not schedule right after passage through SAA.</i>									
8		ANY	NIC1, MULTIACCUM, NIC1	F160W	NSAMP=12; SAMP-SEQ=SPARS 64		Pattern 7-9 (1) Prime + Parallel Gro up 7-9	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[3]
9		ANY	NIC3, MULTIACCUM, NIC3	F160W	NSAMP=12; SAMP-SEQ=SPARS 64		Pattern 7-9 (1) Prime + Parallel Gro up 7-9	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[3]
10	(4) SSA22A-MD41		NIC2, MULTIACCUM, NIC2-FIX	F160W	NSAMP=12; SAMP-SEQ=SPARS 64	POS TARG 0.9,0.45	Pattern 10-12 (1) Prime + Parallel Gro up 10-12	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[4]
<i>Comments: Since primary NIC2 observations are long exposures of faint galaxy targets, please do not schedule right after passage through SAA.</i>									
11		ANY	NIC1, MULTIACCUM, NIC1	F160W	NSAMP=12; SAMP-SEQ=SPARS 64		Pattern 10-12 (1) Prime + Parallel Gro up 10-12	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[4]
12		ANY	NIC3, MULTIACCUM, NIC3	F160W	NSAMP=12; SAMP-SEQ=SPARS 64		Pattern 10-12 (1) Prime + Parallel Gro up 10-12	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[4]

Exposures (continued)









Proposal 10924 - Visit 05 - Constraints on the Assembly and Dynamical Masses of z~2 Galaxies

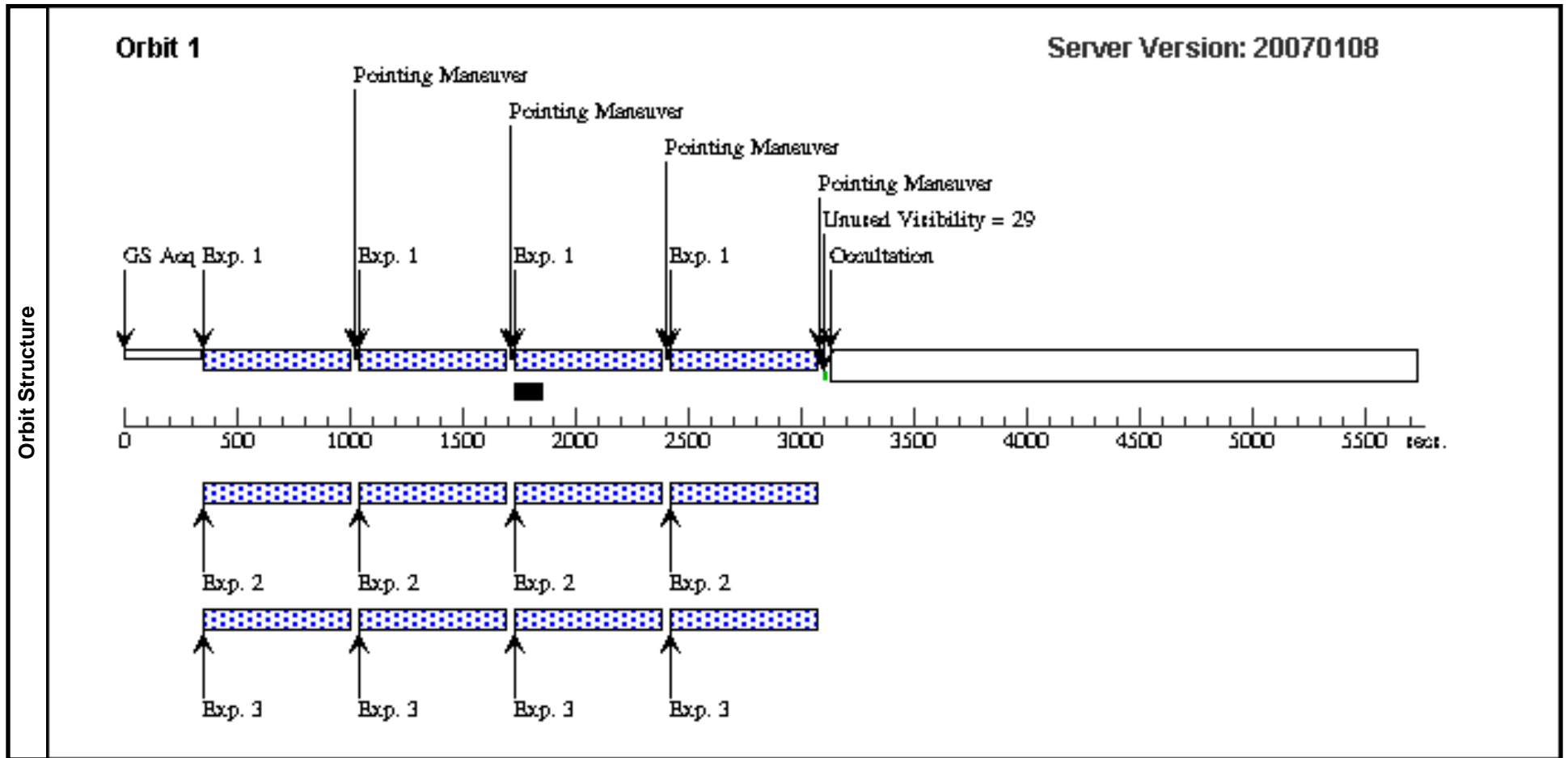
Thu Feb 22 02:44:14 GMT 2007

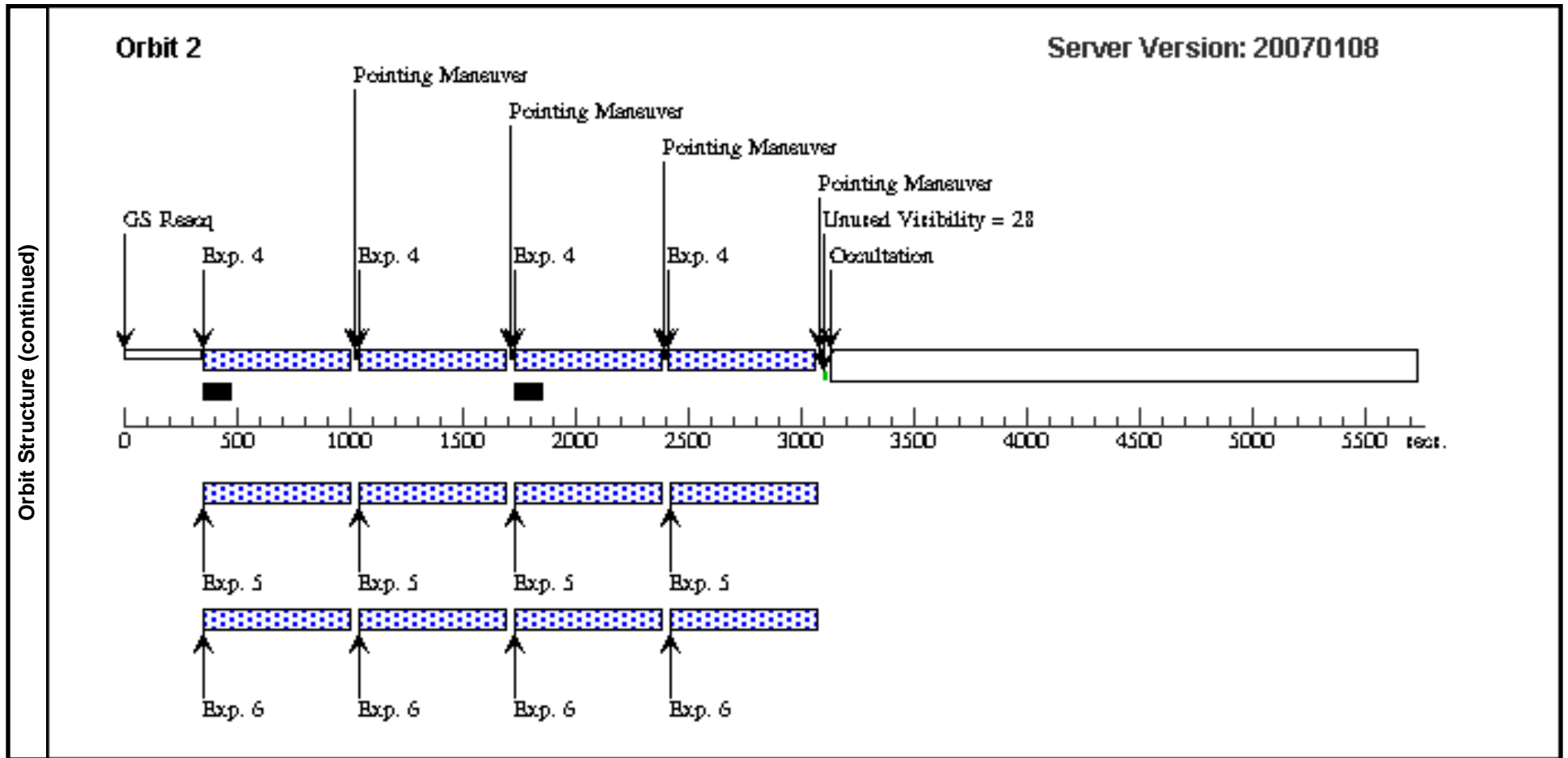
Visit	Proposal 10924, Visit 05, scheduling Diagnostic Status: No Diagnostics Scientific Instruments: NIC2, NIC3, NIC1 Special Requirements: (none)										
	Patterns	#	Primary Pattern	Secondary Pattern	Exposures						
		(1)	Pattern Type=NIC-SPIRAL-DITH Purpose=DITHER Number Of Points=4 Point Spacing=1.538 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=0 Angle Between Sides= Center Pattern=false		(1-3), (4-6), (7-9), (10-12)					
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous					
	(5)	Q2343-BX389	RA: 23 46 29.1020 (356.6212583d) Dec: +12 47 33.54 (12.79265d) Equinox: J2000		V=25.5 K=20.2	Reference Frame: ICRS					
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit	
	1		(5) Q2343-BX389	NIC2, MULTIACCUM, NIC2-FIX	F160W	NSAMP=12; SAMP-SEQ=SPARS 64	GS ACQ SCENARI O BASE1TNS	Pattern 1-3 (1) Prime + Parallel Gro up 1-3	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[1]	
	<i>Comments: Since primary NIC2 observations are long exposures of faint galaxy targets, please do not schedule right after passage through SAA.</i>										
	2		ANY	NIC1, MULTIACCUM, NIC1	F160W	NSAMP=12; SAMP-SEQ=SPARS 64		Pattern 1-3 (1) Prime + Parallel Gro up 1-3	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[1]	
	3		ANY	NIC3, MULTIACCUM, NIC3	F160W	NSAMP=12; SAMP-SEQ=SPARS 64		Pattern 1-3 (1) Prime + Parallel Gro up 1-3	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[1]	
4		(5) Q2343-BX389	NIC2, MULTIACCUM, NIC2-FIX	F160W	NSAMP=12; SAMP-SEQ=SPARS 64	POS TARG 0,0.9	Pattern 4-6 (1) Prime + Parallel Gro up 4-6	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[2]		
<i>Comments: Since primary NIC2 observations are long exposures of faint galaxy targets, please do not schedule right after passage through SAA.</i>											

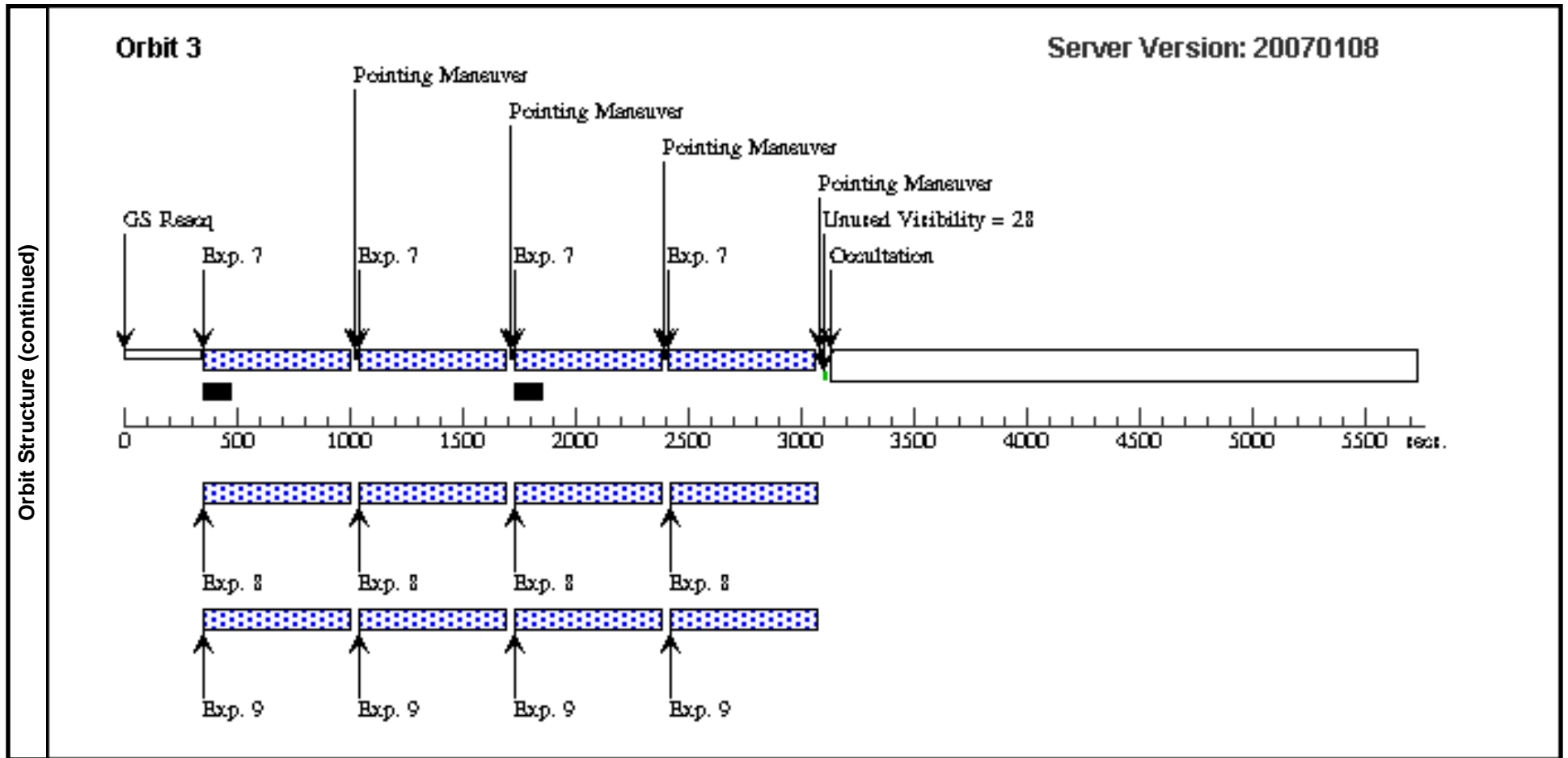
Proposal 10924 - Visit 05 - Constraints on the Assembly and Dynamical Masses of z~2 Galaxies

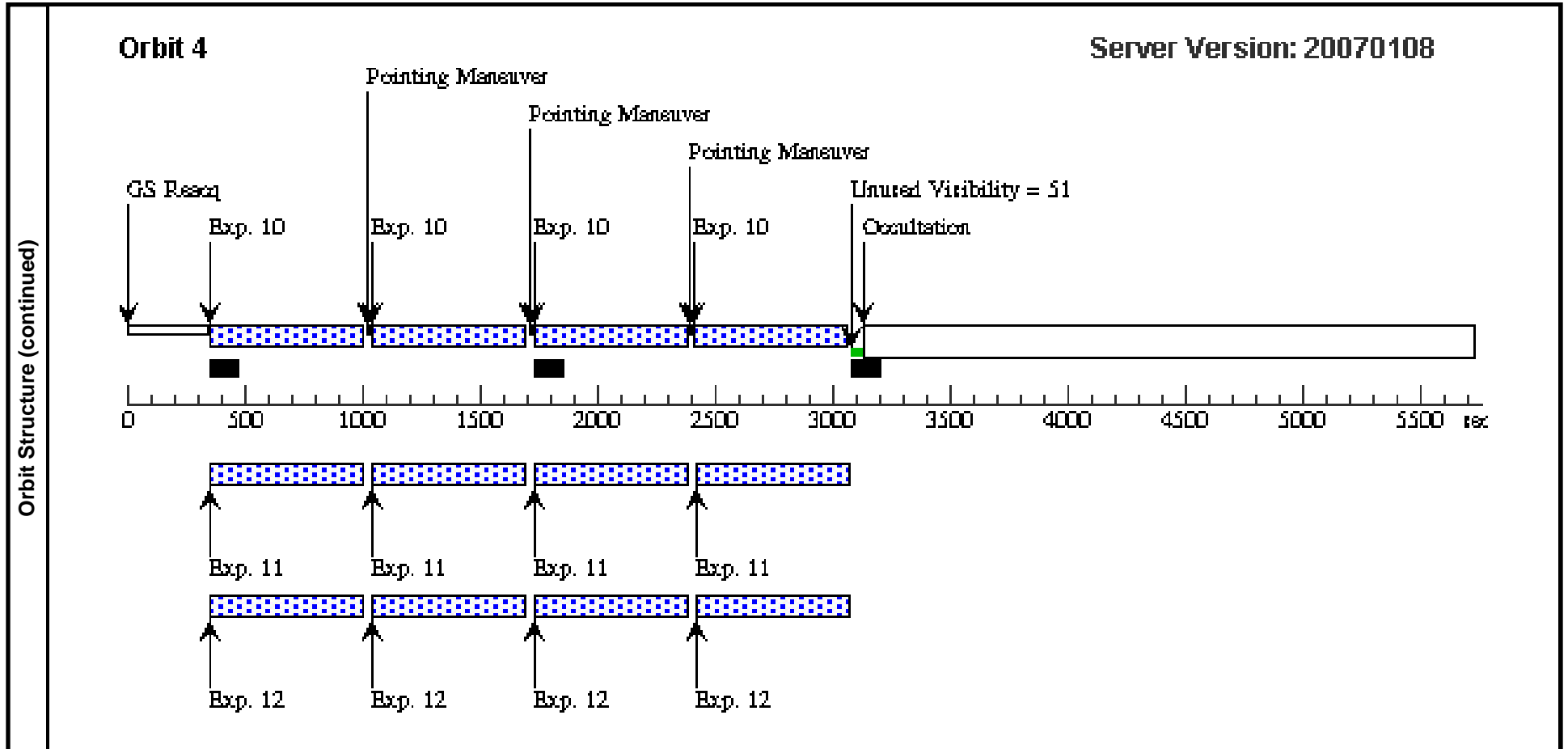
#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
5		ANY	NIC1, MULTIACCUM, NIC1	F160W	NSAMP=12; SAMP-SEQ=SPARS 64		Pattern 4-6 (1) Prime + Parallel Gro up 4-6	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[2]
6		ANY	NIC3, MULTIACCUM, NIC3	F160W	NSAMP=12; SAMP-SEQ=SPARS 64		Pattern 4-6 (1) Prime + Parallel Gro up 4-6	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[2]
7	(5) Q2343-BX389		NIC2, MULTIACCUM, NIC2-FIX	F160W	NSAMP=12; SAMP-SEQ=SPARS 64	POS TARG -0.9,0.4 5	Pattern 7-9 (1) Prime + Parallel Gro up 7-9	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[3]
<i>Comments: Since primary NIC2 observations are long exposures of faint galaxy targets, please do not schedule right after passage through SAA.</i>									
8		ANY	NIC1, MULTIACCUM, NIC1	F160W	NSAMP=12; SAMP-SEQ=SPARS 64		Pattern 7-9 (1) Prime + Parallel Gro up 7-9	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[3]
9		ANY	NIC3, MULTIACCUM, NIC3	F160W	NSAMP=12; SAMP-SEQ=SPARS 64		Pattern 7-9 (1) Prime + Parallel Gro up 7-9	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[3]
10	(5) Q2343-BX389		NIC2, MULTIACCUM, NIC2-FIX	F160W	NSAMP=12; SAMP-SEQ=SPARS 64	POS TARG 0.9,0.45	Pattern 10-12 (1) Prime + Parallel Gro up 10-12	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[4]
<i>Comments: Since primary NIC2 observations are long exposures of faint galaxy targets, please do not schedule right after passage through SAA.</i>									
11		ANY	NIC1, MULTIACCUM, NIC1	F160W	NSAMP=12; SAMP-SEQ=SPARS 64		Pattern 10-12 (1) Prime + Parallel Gro up 10-12	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[4]
12		ANY	NIC3, MULTIACCUM, NIC3	F160W	NSAMP=12; SAMP-SEQ=SPARS 64		Pattern 10-12 (1) Prime + Parallel Gro up 10-12	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[4]

Exposures (continued)









Proposal 10924 - Visit 06 - Constraints on the Assembly and Dynamical Masses of z~2 Galaxies

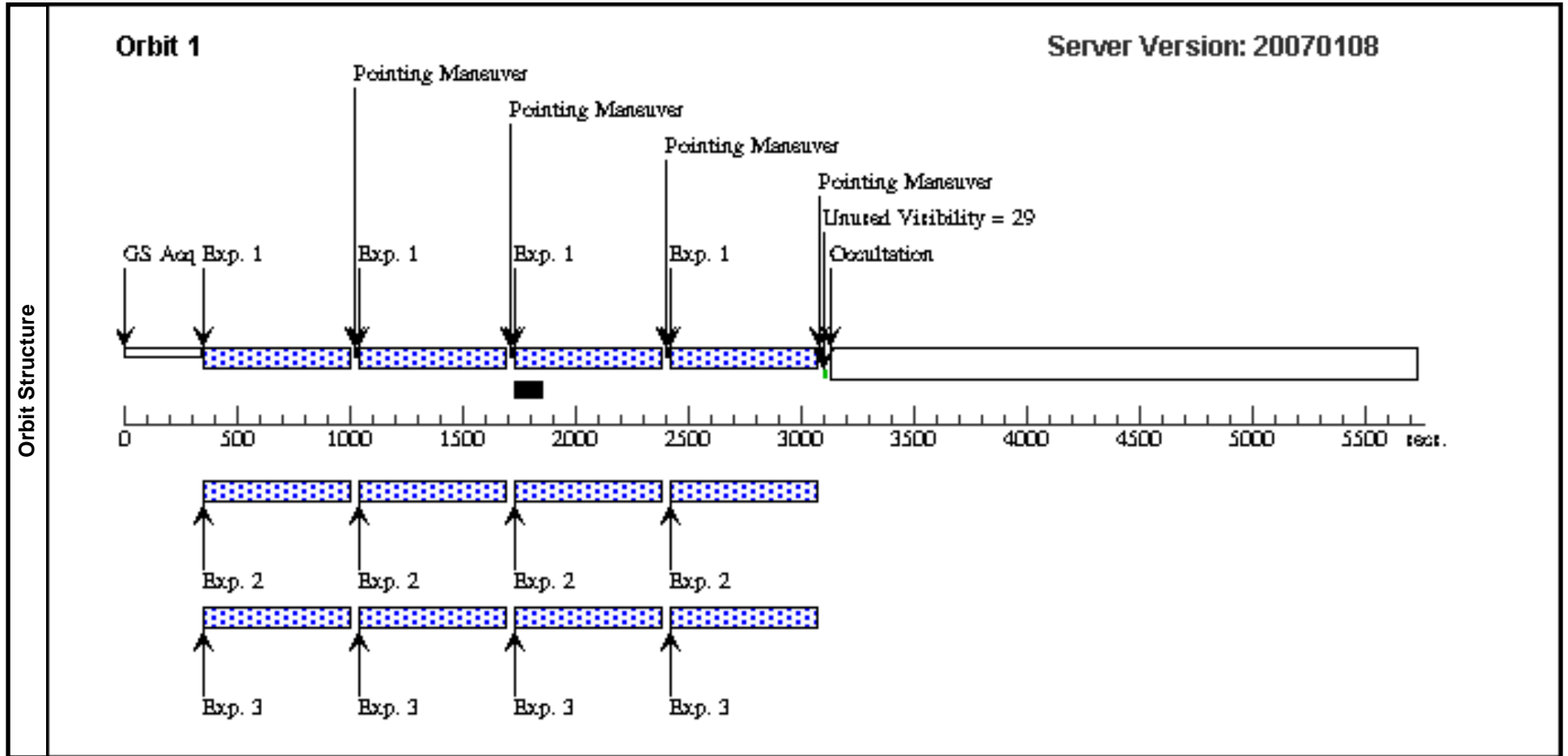
Thu Feb 22 02:44:16 GMT 2007

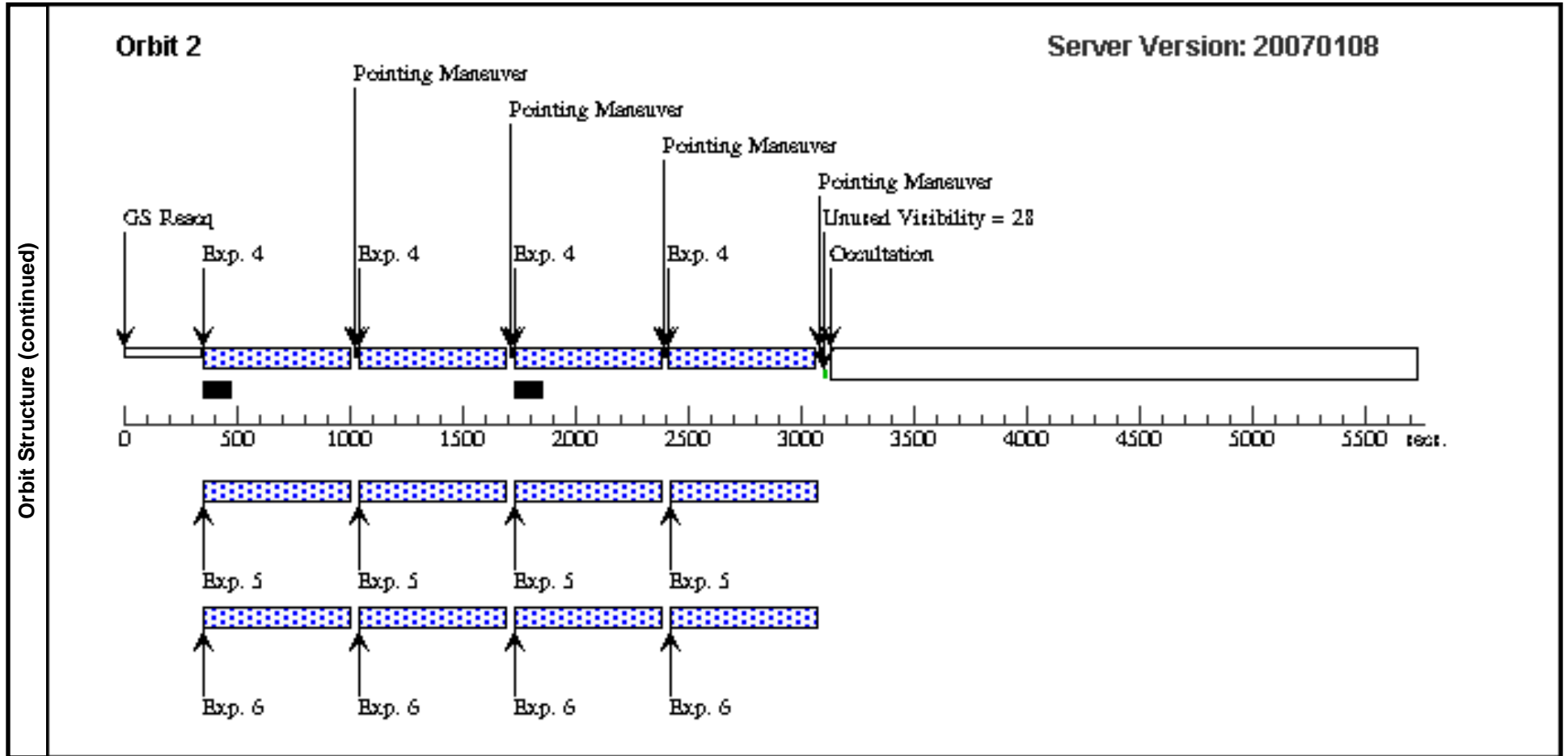
Visit	Proposal 10924, Visit 06, scheduling Diagnostic Status: No Diagnostics Scientific Instruments: NIC2, NIC3, NIC1 Special Requirements: ORIENT 175.0D TO 205.0 D; ORIENT 325.0D TO 35.0 D										
	Patterns	#	Primary Pattern	Secondary Pattern	Exposures						
	(1)	Pattern Type=NIC-SPIRAL-DITH Purpose=DITHER Number Of Points=4 Point Spacing=1.538 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=0 Angle Between Sides= Center Pattern=false		(1-3), (4-6), (7-9), (10-12)						
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous					
	(6)	Q2343-BX610	RA: 23 46 9.7000 (356.5404167d) Dec: +12 49 19.21 (12.82200d) Equinox: J2000		V=24.0 K=19.2	Reference Frame: ICRS					
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit	
	1		(6) Q2343-BX610	NIC2, MULTIACCUM, NIC2-FIX	F160W	NSAMP=12; SAMP-SEQ=SPARS 64	GS ACQ SCENARI O BASE1TNS	Pattern 1-3 (1) Prime + Parallel Gro up 1-3	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[1]	
	<i>Comments: Since primary NIC2 observations are long exposures of faint galaxy targets, please do not schedule right after passage through SAA.</i>										
	2		ANY	NIC1, MULTIACCUM, NIC1	F160W	NSAMP=12; SAMP-SEQ=SPARS 64		Pattern 1-3 (1) Prime + Parallel Gro up 1-3	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[1]	
	3		ANY	NIC3, MULTIACCUM, NIC3	F160W	NSAMP=12; SAMP-SEQ=SPARS 64		Pattern 1-3 (1) Prime + Parallel Gro up 1-3	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[1]	
4		(6) Q2343-BX610	NIC2, MULTIACCUM, NIC2-FIX	F160W	NSAMP=12; SAMP-SEQ=SPARS 64	POS TARG 0,0,9	Pattern 4-6 (1) Prime + Parallel Gro up 4-6	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[2]		
<i>Comments: Since primary NIC2 observations are long exposures of faint galaxy targets, please do not schedule right after passage through SAA.</i>											

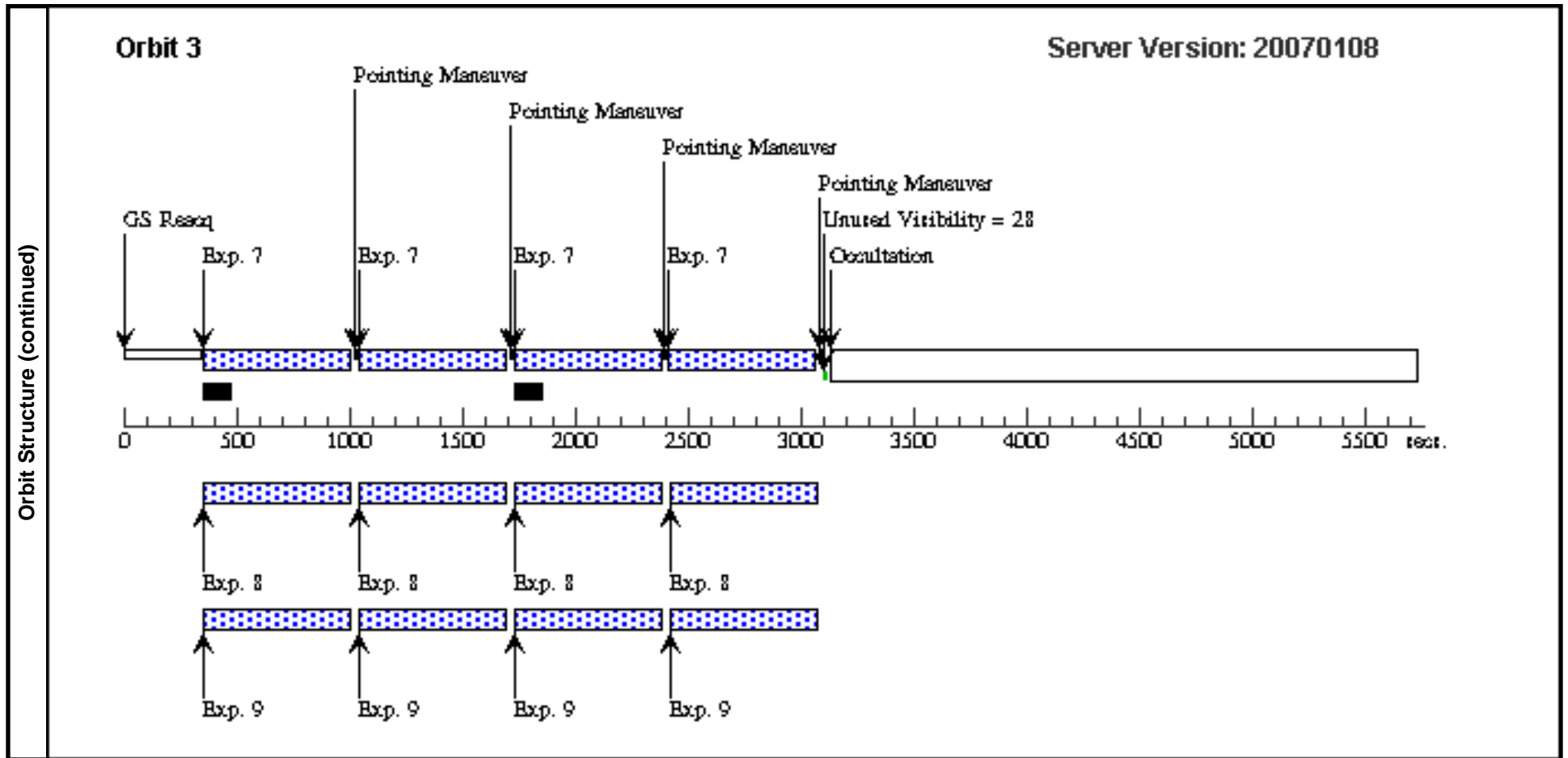
Proposal 10924 - Visit 06 - Constraints on the Assembly and Dynamical Masses of z~2 Galaxies

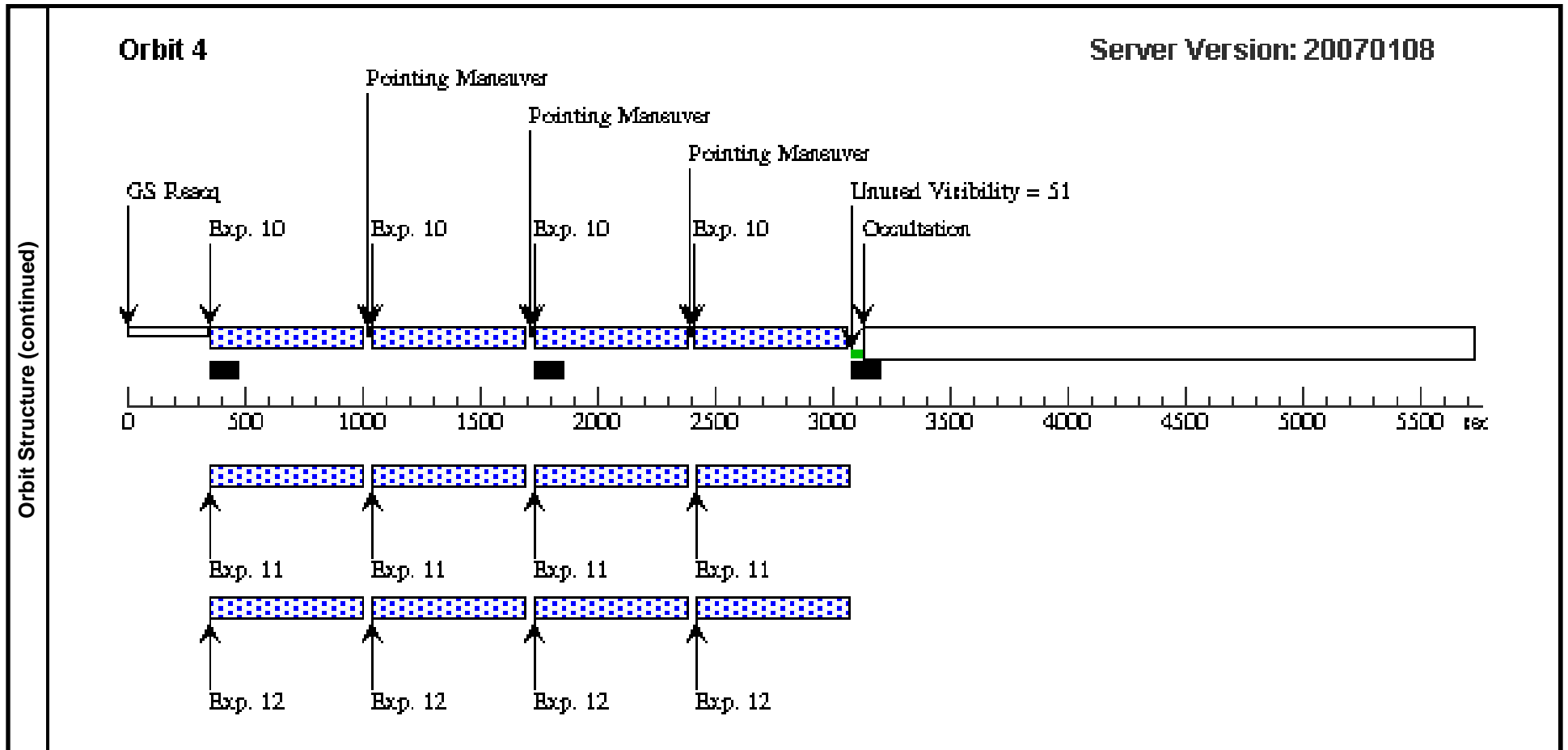
#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
5		ANY	NIC1, MULTIACCUM, NIC1	F160W	NSAMP=12; SAMP-SEQ=SPARS 64		Pattern 4-6 (1) Prime + Parallel Gro up 4-6	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[2]
6		ANY	NIC3, MULTIACCUM, NIC3	F160W	NSAMP=12; SAMP-SEQ=SPARS 64		Pattern 4-6 (1) Prime + Parallel Gro up 4-6	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[2]
7	(6) Q2343-BX610		NIC2, MULTIACCUM, NIC2-FIX	F160W	NSAMP=12; SAMP-SEQ=SPARS 64	POS TARG -0.9,0.4 5	Pattern 7-9 (1) Prime + Parallel Gro up 7-9	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[3]
<i>Comments: Since primary NIC2 observations are long exposures of faint galaxy targets, please do not schedule right after passage through SAA.</i>									
8		ANY	NIC1, MULTIACCUM, NIC1	F160W	NSAMP=12; SAMP-SEQ=SPARS 64		Pattern 7-9 (1) Prime + Parallel Gro up 7-9	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[3]
9		ANY	NIC3, MULTIACCUM, NIC3	F160W	NSAMP=12; SAMP-SEQ=SPARS 64		Pattern 7-9 (1) Prime + Parallel Gro up 7-9	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[3]
10	(6) Q2343-BX610		NIC2, MULTIACCUM, NIC2-FIX	F160W	NSAMP=12; SAMP-SEQ=SPARS 64	POS TARG 0.9,0.45	Pattern 10-12 (1) Prime + Parallel Gro up 10-12	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[4]
<i>Comments: Since primary NIC2 observations are long exposures of faint galaxy targets, please do not schedule right after passage through SAA.</i>									
11		ANY	NIC1, MULTIACCUM, NIC1	F160W	NSAMP=12; SAMP-SEQ=SPARS 64		Pattern 10-12 (1) Prime + Parallel Gro up 10-12	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[4]
12		ANY	NIC3, MULTIACCUM, NIC3	F160W	NSAMP=12; SAMP-SEQ=SPARS 64		Pattern 10-12 (1) Prime + Parallel Gro up 10-12	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[4]

Exposures (continued)









Proposal 10924 - Visit 07 - Constraints on the Assembly and Dynamical Masses of z~2 Galaxies

Thu Feb 22 02:44:17 GMT 2007

Visit	Proposal 10924, Visit 07, scheduling Diagnostic Status: No Diagnostics Scientific Instruments: NIC2, NIC3, NIC1 Special Requirements: ORIENT 40.0D TO 50.0 D; ORIENT 130.0D TO 140.0 D; ORIENT 220.0D TO 230.0 D; ORIENT 310.0D TO 320.0 D										
	Patterns	#	Primary Pattern	Secondary Pattern	Exposures						
		(1)	Pattern Type=NIC-SPIRAL-DITH Coordinate Frame=POS-TARG Purpose=DITHER Pattern Orientation=0 Number Of Points=4 Angle Between Sides= Point Spacing=1.538 Center Pattern=false Line Spacing=		(1-3), (4-6), (7-9), (10-12)						
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous					
	(7)	Q2346-BX482	RA: 23 48 12.7020 (357.0529250d) Dec: +00 25 44.34 (.42898d) Equinox: J2000		V=24.0	Reference Frame: ICRS					
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit	
	1		(7) Q2346-BX482	NIC2, MULTIACCUM, NIC2-FIX	F160W	NSAMP=12; SAMP-SEQ=SPARS 64	GS ACQ SCENARI O BASE1TNS	Pattern 1-3 (1) Prime + Parallel Gro up 1-3	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[1]	
	<i>Comments: Since primary NIC2 observations are long exposures of faint galaxy targets, please do not schedule right after passage through SAA.</i>										
	2		ANY		NIC1, MULTIACCUM, NIC1	F160W	NSAMP=12; SAMP-SEQ=SPARS 64		Pattern 1-3 (1) Prime + Parallel Gro up 1-3	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[1]
	3		ANY		NIC3, MULTIACCUM, NIC3	F160W	NSAMP=12; SAMP-SEQ=SPARS 64		Pattern 1-3 (1) Prime + Parallel Gro up 1-3	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[1]
4		(7) Q2346-BX482		NIC2, MULTIACCUM, NIC2-FIX	F160W	NSAMP=12; SAMP-SEQ=SPARS 64	POS TARG 0,0,9	Pattern 4-6 (1) Prime + Parallel Gro up 4-6	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[2]	
<i>Comments: Since primary NIC2 observations are long exposures of faint galaxy targets, please do not schedule right after passage through SAA.</i>											

Proposal 10924 - Visit 07 - Constraints on the Assembly and Dynamical Masses of z~2 Galaxies

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
5		ANY	NIC1, MULTIACCUM, NIC1	F160W	NSAMP=12; SAMP-SEQ=SPARS 64		Pattern 4-6 (1) Prime + Parallel Gro up 4-6	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[2]
6		ANY	NIC3, MULTIACCUM, NIC3	F160W	NSAMP=12; SAMP-SEQ=SPARS 64		Pattern 4-6 (1) Prime + Parallel Gro up 4-6	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[2]
7	(7) Q2346-BX482		NIC2, MULTIACCUM, NIC2-FIX	F160W	NSAMP=12; SAMP-SEQ=SPARS 64	POS TARG -0.9,0.4 5	Pattern 7-9 (1) Prime + Parallel Gro up 7-9	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[3]
<i>Comments: Since primary NIC2 observations are long exposures of faint galaxy targets, please do not schedule right after passage through SAA.</i>									
8		ANY	NIC1, MULTIACCUM, NIC1	F160W	NSAMP=12; SAMP-SEQ=SPARS 64		Pattern 7-9 (1) Prime + Parallel Gro up 7-9	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[3]
9		ANY	NIC3, MULTIACCUM, NIC3	F160W	NSAMP=12; SAMP-SEQ=SPARS 64		Pattern 7-9 (1) Prime + Parallel Gro up 7-9	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[3]
10	(7) Q2346-BX482		NIC2, MULTIACCUM, NIC2-FIX	F160W	NSAMP=12; SAMP-SEQ=SPARS 64	POS TARG 0.9,0.45	Pattern 10-12 (1) Prime + Parallel Gro up 10-12	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[4]
<i>Comments: Since primary NIC2 observations are long exposures of faint galaxy targets, please do not schedule right after passage through SAA.</i>									
11		ANY	NIC1, MULTIACCUM, NIC1	F160W	NSAMP=12; SAMP-SEQ=SPARS 64		Pattern 10-12 (1) Prime + Parallel Gro up 10-12	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[4]
12		ANY	NIC3, MULTIACCUM, NIC3	F160W	NSAMP=12; SAMP-SEQ=SPARS 64		Pattern 10-12 (1) Prime + Parallel Gro up 10-12	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[4]

Exposures (continued)

