



12960 - The nature of star formation in two spectroscopically confirmed exceptionally-luminous galaxies beyond a redshift 7

Cycle: 20, Proposal Category: GO

(Availability Mode: SUPPORTED)

INVESTIGATORS

<i>Name</i>	<i>Institution</i>	<i>E-Mail</i>
Dr. Yoshiaki Ono (PI) (Contact)	University of Tokyo, Institute of Cosmic Ray Research	ono@icrr.u-tokyo.ac.jp
Dr. Masami Ouchi (CoI)	University of Tokyo, Institute of Cosmic Ray Research	ouchims@icrr.u-tokyo.ac.jp
Prof. Richard S. Ellis (CoI) (AdminUSPI)	California Institute of Technology	rse@astro.caltech.edu

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) Z73-BRIGHT-LAE	WFC3/IR	2	10-Jul-2012 23:49:05.0	yes
02	(1) Z73-BRIGHT-LAE	WFC3/IR	2	10-Jul-2012 23:49:25.0	yes
03	(1) Z73-BRIGHT-LAE	WFC3/IR	2	10-Jul-2012 23:49:42.0	yes
04	(1) Z73-BRIGHT-LAE	WFC3/IR	2	10-Jul-2012 23:49:59.0	yes
05	(1) Z73-BRIGHT-LAE	WFC3/IR	2	10-Jul-2012 23:50:11.0	yes
06	(1) Z73-BRIGHT-LAE	WFC3/IR	2	10-Jul-2012 23:50:20.0	yes
07	(2) Z72-BRIGHT-LAE	WFC3/IR	2	10-Jul-2012 23:50:37.0	yes
08	(2) Z72-BRIGHT-LAE	WFC3/IR	2	10-Jul-2012 23:50:48.0	yes

16 Total Orbits Used

ABSTRACT

We propose deep WFC3/IR imaging for two very luminous Lyman alpha emitters with Keck spectroscopic redshifts of $z=7.213$ and 7.308 discovered through large area imaging surveys undertaken with Subaru. We demonstrate that both sources are exceptional in their properties compared to typical Lyman break galaxies being identified at this redshift and deduce that both rare sources are being seen during a special moment in their history. As such their detailed study offers a valuable perspective into the origin of star formation and the physical processes that power the intense line emission. This will complement on-going statistical surveys of star formation during the reionization era. We propose deep broad-band (F125W and F160W) images to improve our understanding of the stellar continuum and, taking advantage of the unique coincidence of Lyman alpha emission at this redshift with the intermediate-band F098M filter, to map the morphological distribution of line emitting gas. The combination will permit us to determine whether the continuum-derived star formation rate is sufficient to power Lyman alpha emission, to robustly estimate the stellar mass and age of both galaxies and, via resolved imaging, to determine the possible role of cold accretion or merging as the origin of the intense activity in these spectacular objects.

OBSERVING DESCRIPTION

We will carry out WFC3/IR observations for our bright $z=7.3$ LAE and $z=7.2$ LAE with F125W, F160W, and F098M filters.

For the $z=7.3$ LAE, we will spend 12 orbits: 4 orbits with each of the three filters.

The 12-orbit observation is composed of 6 visits that consist of 2 orbits.

For the $z=7.2$ LAE, we will spend 4 orbits: 1 orbit with F125W and

F160W, and 2 orbits with F098M filter. The 4-orbit observation is composed of 2 visits that consist of 2 orbits.

Because we aim to obtain deep images with a good PSF resampling, we perform 1 band, or 2 bands at most, observations in one visit with 4-point dither of WFC3-IR-DITHER-BOX-MIN.

This strategy will accomplish subpixel sampling accurately.

In addition, if we observe a target with a filter spending 4 orbits, we will use large POS-TARG offsets to enable rejection of hot/bad pixels coming in clumps. The pattern is (0,0), (+1.355,+0.424), (+0.881,+1.212), and (-0.474,+0.787) in arcsec, corresponding to (0,0), (+10.0,+3.5), (+6.5,+10.0), (-3.5,+6.5) in pixel, respectively.

Although any visit orientations can be taken, but all of our visits for each target should have the same visit orientation to realize a good subpixel sampling.

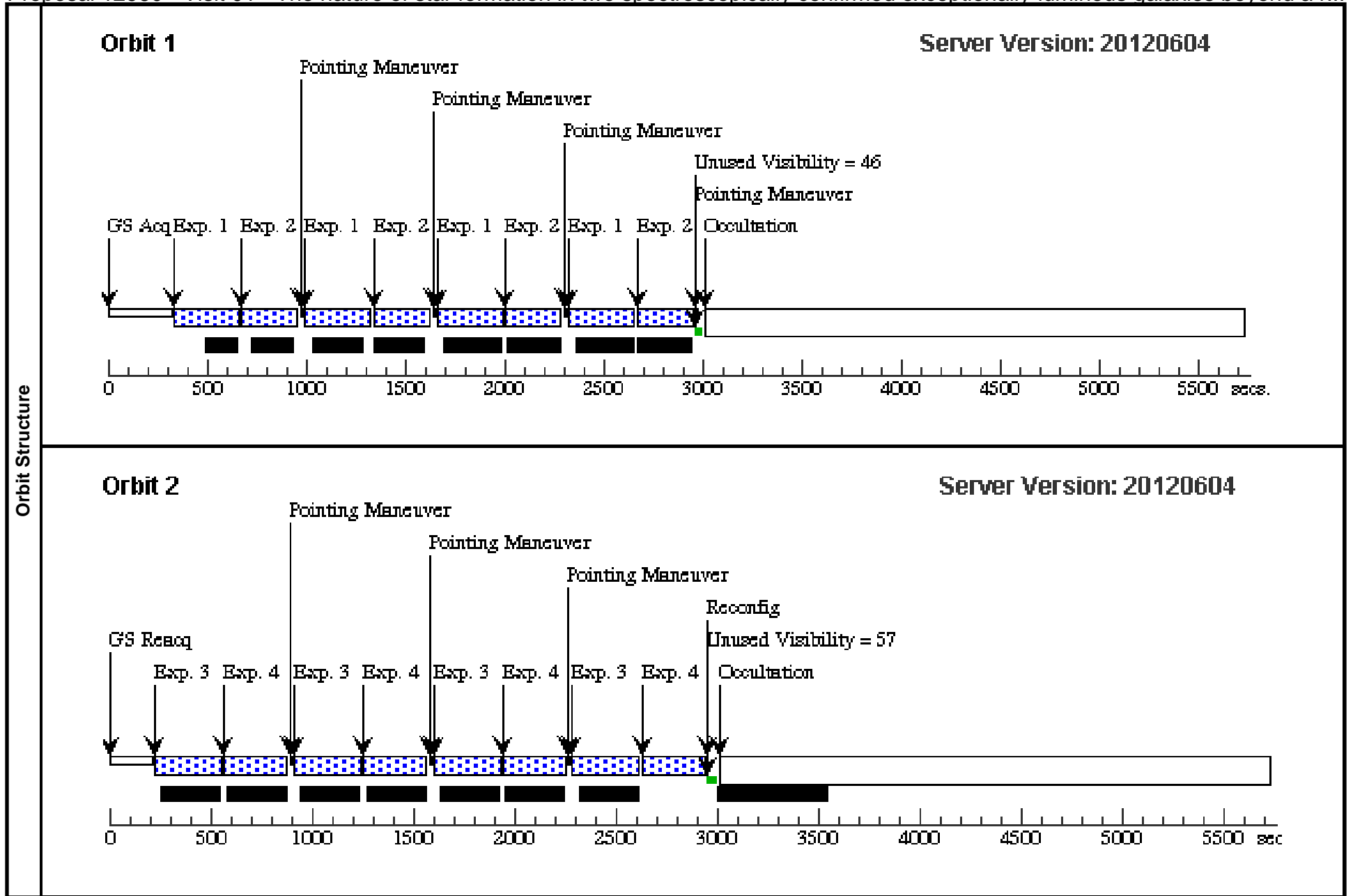
We have chosen SPARS25 for F125W and F160W bands and SPARS50 for F098M band, following the WFC3 instrument handbook.

To avoid over runs of orbit visibility, NSAMP is not 15, but 12-13.

Proposal 12960 - Visit 01 - The nature of star formation in two spectroscopically confirmed exceptionally-luminous galaxies beyond a r...

Wed Jul 11 03:50:56 GMT 2012

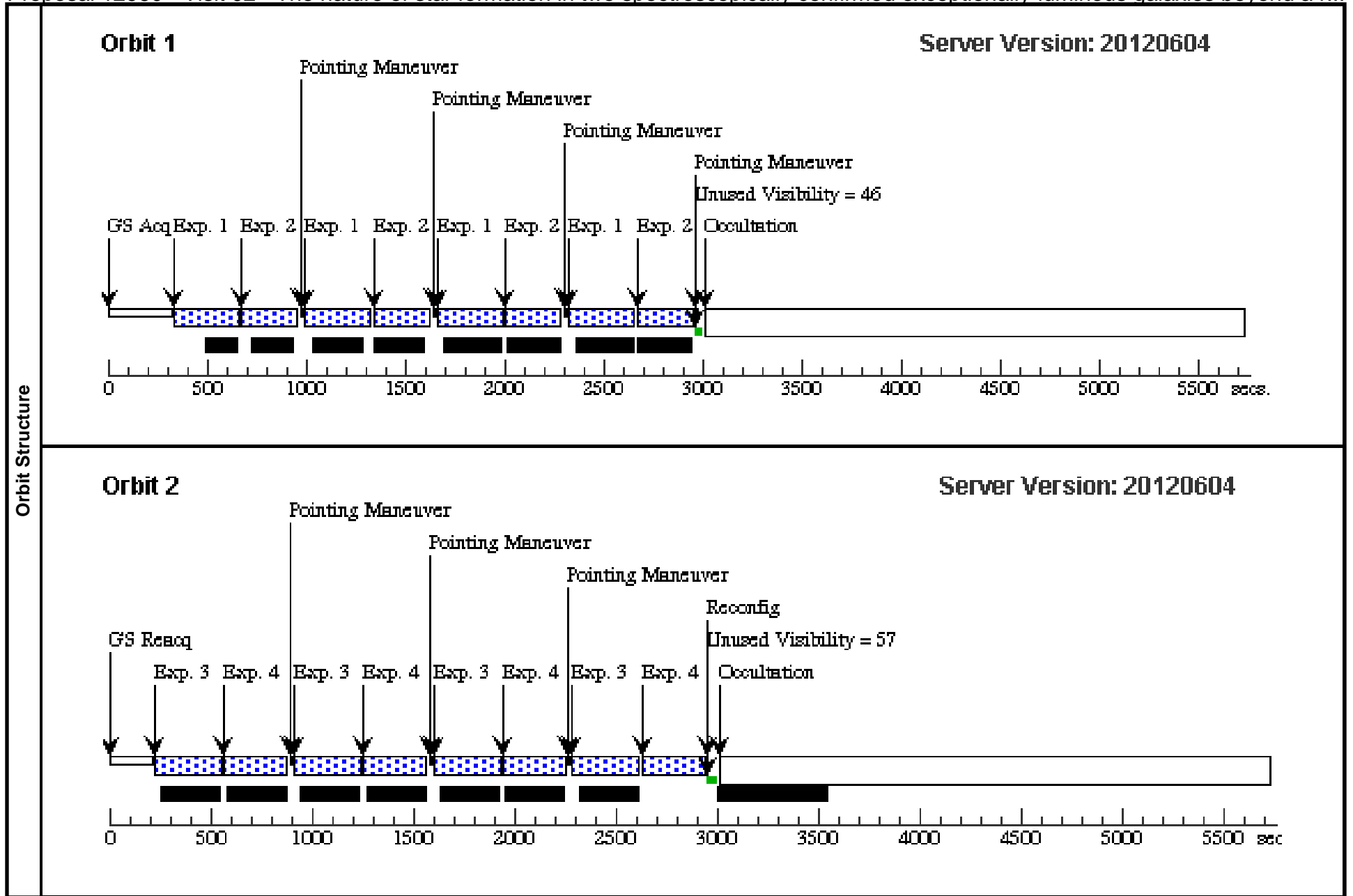
Visit	Proposal 12960, Visit 01 Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: SCHED 100% Comments: F125W x 2 orbits for Z73-BRIGHT-LAE									
	Patterns	#	Primary Pattern	Secondary Pattern	Exposures					
	(1)	Pattern Type=WFC3-IR-DITHER-BOX-MIN Purpose=DITHER Number Of Points=4 Point Spacing=0.572 Line Spacing=0.365	Coordinate Frame=POS-TARG Pattern Orientation=18.528 Angle Between Sides=74.653 Center Pattern=false		(1-2), (3-4)					
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(1)	Z73-BRIGHT-LAE	RA: 02 17 47.4700 (34.4477917d) Dec: -05 00 32.67 (-5.00907d) Equinox: J2000		V=(?) J > 24.94 ABmag (UKIDSS-UD S 2sigma)	Reference Frame: ICRS				
	Comments: redshift(Lya) = 7.308									
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	Z73-F125W	(1) Z73-BRIGHT-LAE	WFC3/IR, MULTIACCUM, IR	F125W	SAMP-SEQ=SPARS 25; NSAMP=13		Pattern 1, Exps 1-2 in Visit 01 (1)	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[1]
	2	Z73-F125W	(1) Z73-BRIGHT-LAE	WFC3/IR, MULTIACCUM, IR	F125W	SAMP-SEQ=SPARS 25; NSAMP=12		Pattern 1, Exps 1-2 in Visit 01 (1)	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[1]
	3	Z73-F125W	(1) Z73-BRIGHT-LAE	WFC3/IR, MULTIACCUM, IR	F125W	SAMP-SEQ=SPARS 25; NSAMP=13	POS TARG +1.355, +0.424	Pattern 1, Exps 3-4 in Visit 01 (1)	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[2]
	4	Z73-F125W	(1) Z73-BRIGHT-LAE	WFC3/IR, MULTIACCUM, IR	F125W	SAMP-SEQ=SPARS 25; NSAMP=13	POS TARG +1.355, +0.424	Pattern 1, Exps 3-4 in Visit 01 (1)	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[2]



Proposal 12960 - Visit 02 - The nature of star formation in two spectroscopically confirmed exceptionally-luminous galaxies beyond a r...

Wed Jul 11 03:50:59 GMT 2012

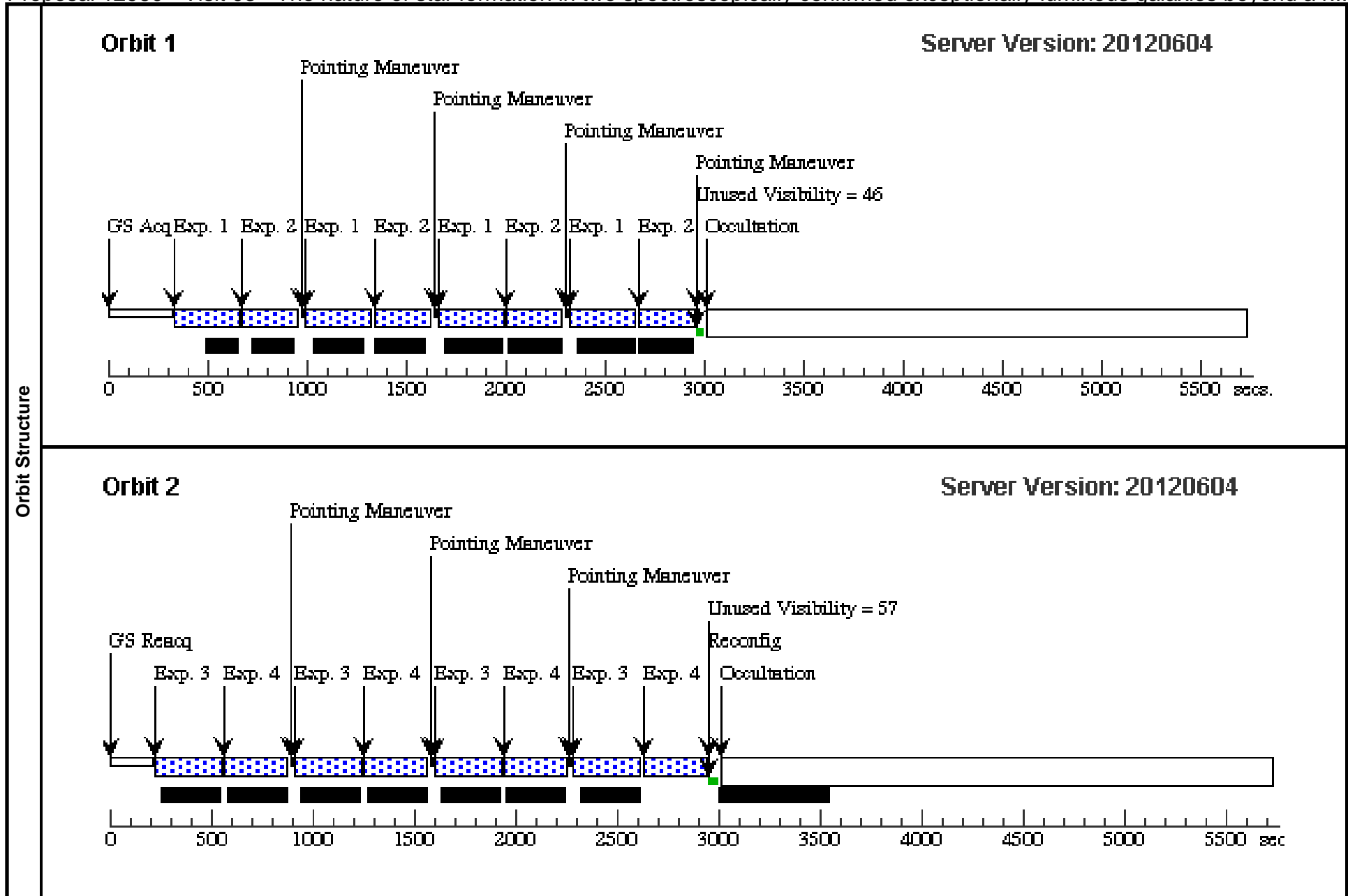
Visit	Proposal 12960, Visit 02 Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: SCHED 100%; SAME ORIENT AS 01 Comments: F125W x 2 orbits for Z73-BRIGHT-LAE									
	Patterns	#	Primary Pattern	Secondary Pattern	Exposures					
		(1)	Pattern Type=WFC3-IR-DITHER-BOX-MIN Purpose=DITHER Number Of Points=4 Point Spacing=0.572 Line Spacing=0.365	Coordinate Frame=POS-TARG Pattern Orientation=18.528 Angle Between Sides=74.653 Center Pattern=false		(1-2), (3-4)				
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(1)	Z73-BRIGHT-LAE	RA: 02 17 47.4700 (34.4477917d) Dec: -05 00 32.67 (-5.00907d) Equinox: J2000		V=(?) J > 24.94 ABmag (UKIDSS-UD S 2sigma)	Reference Frame: ICRS				
	Comments: redshift(Lya) = 7.308									
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	Z73-F125W	(1) Z73-BRIGHT-LAE	WFC3/IR, MULTIACCUM, IR	F125W	SAMP-SEQ=SPARS 25; NSAMP=13	POS TARG +0.881, +1.212	Pattern 1, Exps 1-2 in Visit 02 (1)	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[1]
	2	Z73-F125W	(1) Z73-BRIGHT-LAE	WFC3/IR, MULTIACCUM, IR	F125W	SAMP-SEQ=SPARS 25; NSAMP=12	POS TARG +0.881, +1.212	Pattern 1, Exps 1-2 in Visit 02 (1)	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[1]
	3	Z73-F125W	(1) Z73-BRIGHT-LAE	WFC3/IR, MULTIACCUM, IR	F125W	SAMP-SEQ=SPARS 25; NSAMP=13	POS TARG -0.474, +0.788	Pattern 1, Exps 3-4 in Visit 02 (1)	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[2]
	4	Z73-F125W	(1) Z73-BRIGHT-LAE	WFC3/IR, MULTIACCUM, IR	F125W	SAMP-SEQ=SPARS 25; NSAMP=13	POS TARG -0.474, +0.788	Pattern 1, Exps 3-4 in Visit 02 (1)	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[2]



Proposal 12960 - Visit 03 - The nature of star formation in two spectroscopically confirmed exceptionally-luminous galaxies beyond a r...

Wed Jul 11 03:51:01 GMT 2012

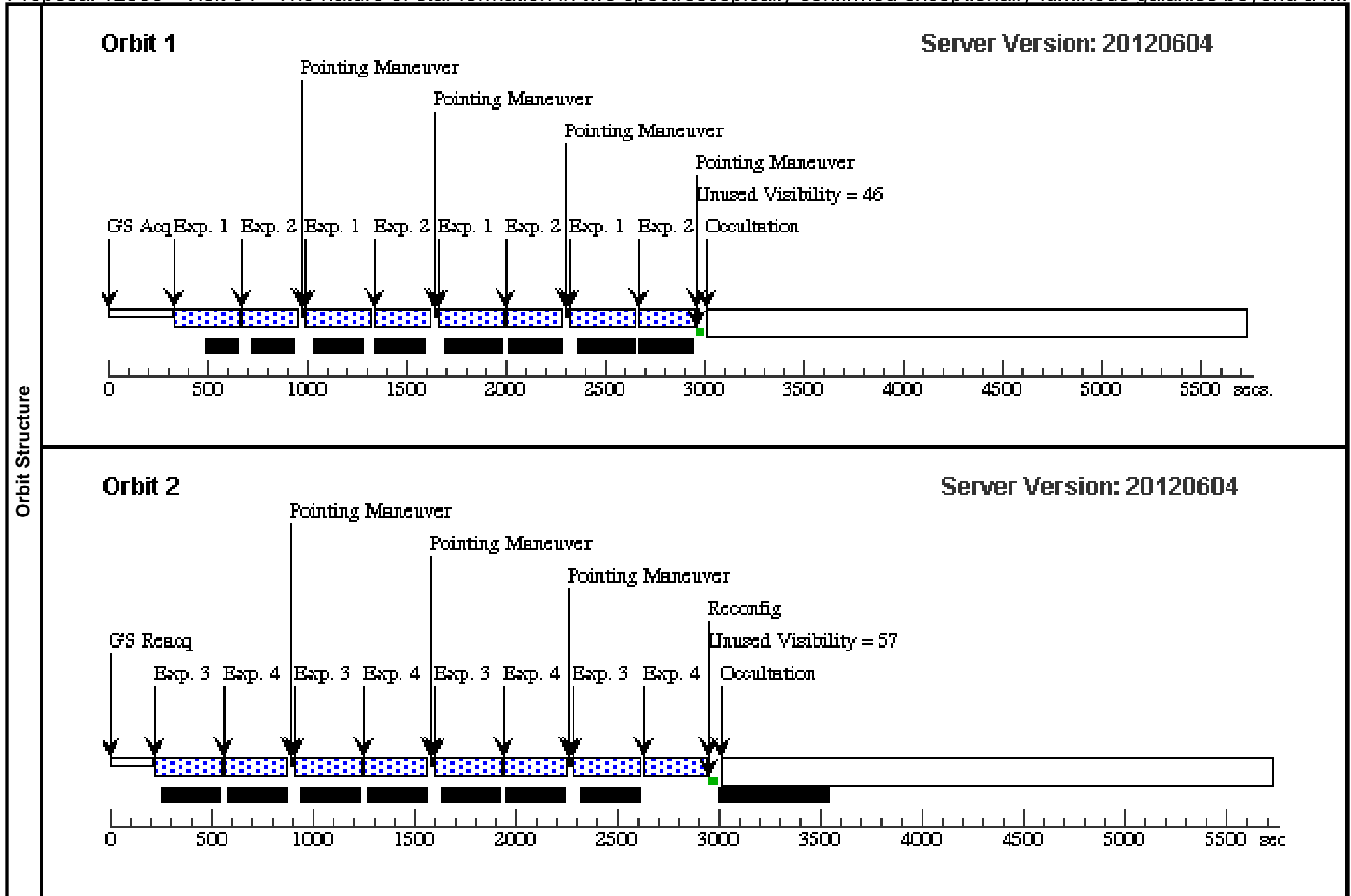
Visit	Proposal 12960, Visit 03									
		Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: SCHED 100%; SAME ORIENT AS 01 Comments: F160W x 2 orbits for Z73-BRIGHT-LAE								
Patterns	#	Primary Pattern	Secondary Pattern	Exposures						
	(1)	Pattern Type=WFC3-IR-DITHER-BOX-MIN Purpose=DITHER Number Of Points=4 Point Spacing=0.572 Line Spacing=0.365	Coordinate Frame=POS-TARG Pattern Orientation=18.528 Angle Between Sides=74.653 Center Pattern=false		(1-2), (3-4)					
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(1)	Z73-BRIGHT-LAE	RA: 02 17 47.4700 (34.4477917d) Dec: -05 00 32.67 (-5.00907d) Equinox: J2000		V=(?) J > 24.94 ABmag (UKIDSS-UD S 2sigma)	Reference Frame: ICRS				
	Comments: redshift(Lya) = 7.308									
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	Z73-F160W	(1) Z73-BRIGHT-LAE	WFC3/IR, MULTIACCUM, IR	F160W	SAMP-SEQ=SPARS 25; NSAMP=13		Pattern 1, Exps 1-2 in Visit 03 (1)	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[1]
	2	Z73-F160W	(1) Z73-BRIGHT-LAE	WFC3/IR, MULTIACCUM, IR	F160W	SAMP-SEQ=SPARS 25; NSAMP=12		Pattern 1, Exps 1-2 in Visit 03 (1)	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[1]
	3	Z73-F160W	(1) Z73-BRIGHT-LAE	WFC3/IR, MULTIACCUM, IR	F160W	SAMP-SEQ=SPARS 25; NSAMP=13	POS TARG +1.355, +0.424	Pattern 1, Exps 3-4 in Visit 03 (1)	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[2]
	4	Z73-F160W	(1) Z73-BRIGHT-LAE	WFC3/IR, MULTIACCUM, IR	F160W	SAMP-SEQ=SPARS 25; NSAMP=13	POS TARG +1.355, +0.424	Pattern 1, Exps 3-4 in Visit 03 (1)	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[2]



Proposal 12960 - Visit 04 - The nature of star formation in two spectroscopically confirmed exceptionally-luminous galaxies beyond a r...

Wed Jul 11 03:51:05 GMT 2012

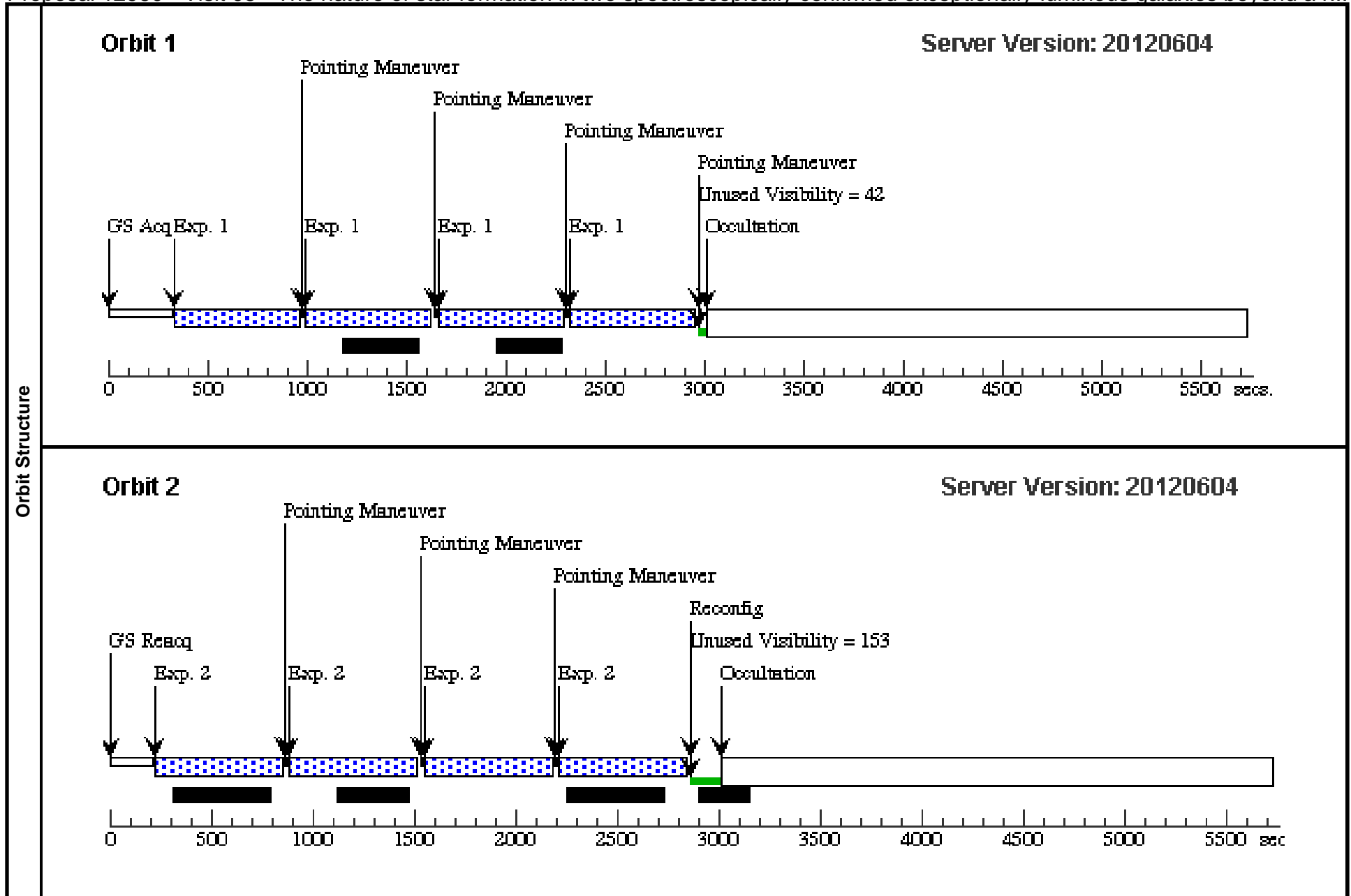
Visit	Proposal 12960, Visit 04									
		Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: SCHED 100%; SAME ORIENT AS 01 Comments: F160W x 2 orbits for Z73-BRIGHT-LAE								
Patterns	#	Primary Pattern	Secondary Pattern	Exposures						
	(1)	Pattern Type=WFC3-IR-DITHER-BOX-MIN Purpose=DITHER Number Of Points=4 Point Spacing=0.572 Line Spacing=0.365	Coordinate Frame=POS-TARG Pattern Orientation=18.528 Angle Between Sides=74.653 Center Pattern=false		(1-2), (3-4)					
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(1)	Z73-BRIGHT-LAE	RA: 02 17 47.4700 (34.4477917d) Dec: -05 00 32.67 (-5.00907d) Equinox: J2000		V=(?) J > 24.94 ABmag (UKIDSS-UD S 2sigma)	Reference Frame: ICRS				
	Comments: redshift(Lya) = 7.308									
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	Z73-F160W	(1) Z73-BRIGHT-LAE	WFC3/IR, MULTIACCUM, IR	F160W	SAMP-SEQ=SPARS 25; NSAMP=13	POS TARG +0.881, +1.212	Pattern 1, Exps 1-2 in Visit 04 (1)	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[1]
	2	Z73-F160W	(1) Z73-BRIGHT-LAE	WFC3/IR, MULTIACCUM, IR	F160W	SAMP-SEQ=SPARS 25; NSAMP=12	POS TARG +0.881, +1.212	Pattern 1, Exps 1-2 in Visit 04 (1)	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[1]
	3	Z73-F160W	(1) Z73-BRIGHT-LAE	WFC3/IR, MULTIACCUM, IR	F160W	SAMP-SEQ=SPARS 25; NSAMP=13	POS TARG -0.474, +0.788	Pattern 1, Exps 3-4 in Visit 04 (1)	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[2]
	4	Z73-F160W	(1) Z73-BRIGHT-LAE	WFC3/IR, MULTIACCUM, IR	F160W	SAMP-SEQ=SPARS 25; NSAMP=13	POS TARG -0.474, +0.788	Pattern 1, Exps 3-4 in Visit 04 (1)	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[2]



Proposal 12960 - Visit 05 - The nature of star formation in two spectroscopically confirmed exceptionally-luminous galaxies beyond a r...

Wed Jul 11 03:51:08 GMT 2012

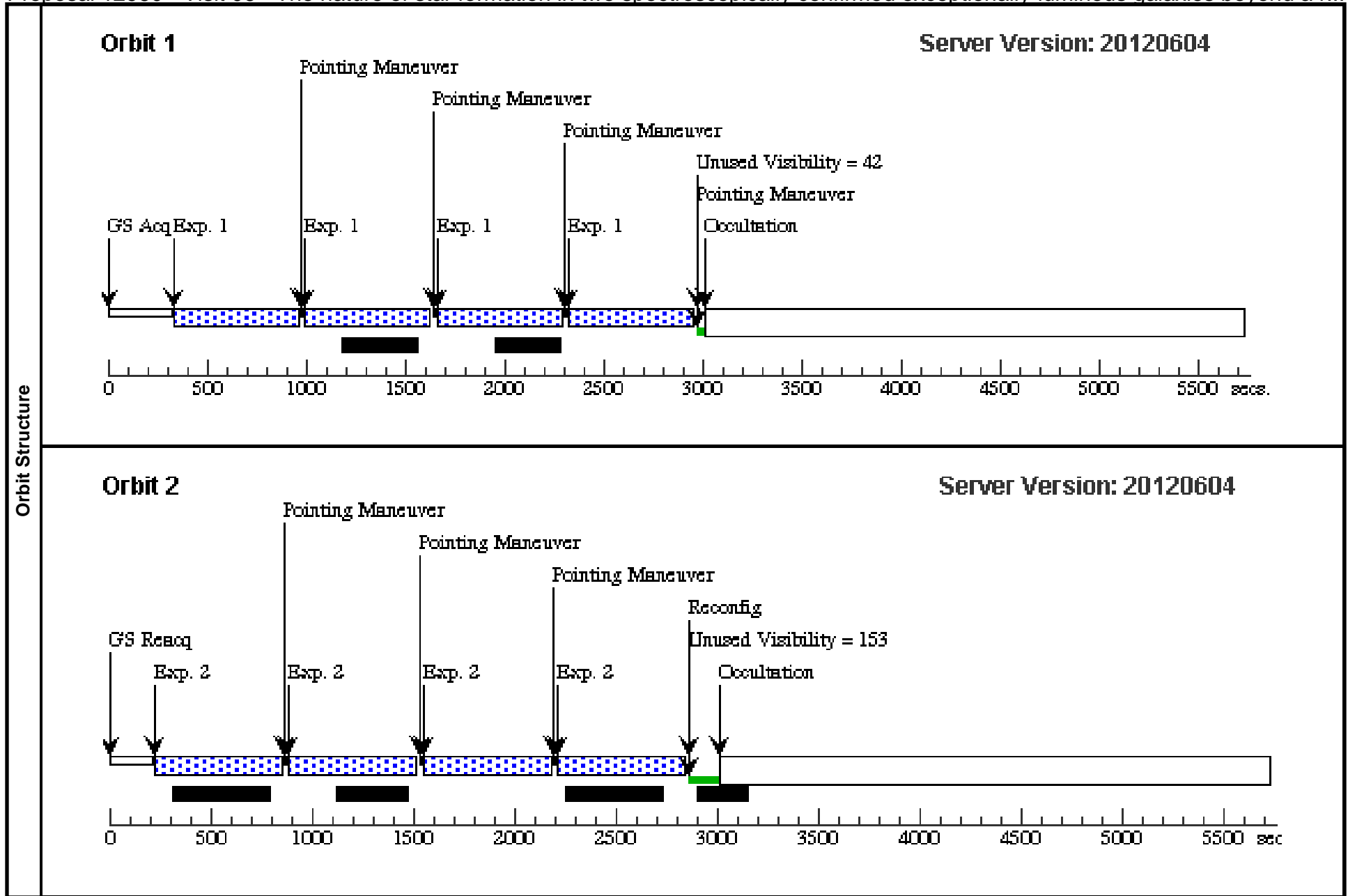
Visit	Proposal 12960, Visit 05 Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: SCHED 100%; SAME ORIENT AS 01 Comments: F098M x 2 orbits for Z73-BRIGHT-LAE									
	Patterns	#	Primary Pattern	Secondary Pattern	Exposures					
		(1)	Pattern Type=WFC3-IR-DITHER-BOX-MIN Purpose=DITHER Number Of Points=4 Point Spacing=0.572 Line Spacing=0.365	Coordinate Frame=POS-TARG Pattern Orientation=18.528 Angle Between Sides=74.653 Center Pattern=false		(1), (2)				
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(1)	Z73-BRIGHT-LAE	RA: 02 17 47.4700 (34.4477917d) Dec: -05 00 32.67 (-5.00907d) Equinox: J2000		V=(?) J > 24.94 ABmag (UKIDSS-UD S 2sigma)	Reference Frame: ICRS				
	Comments: redshift(Lya) = 7.308									
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	Z73-F098M	(1) Z73-BRIGHT-LAE	WFC3/IR, MULTIACCUM, IR	F098M	SAMP-SEQ=SPARS 50; NSAMP=13			Pattern 1, Exps 1-1 in Visit 05 (1)	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]
2	Z73-F098M	(1) Z73-BRIGHT-LAE	WFC3/IR, MULTIACCUM, IR	F098M	SAMP-SEQ=SPARS 50; NSAMP=13	POS TARG +1.355, +0.424		Pattern 1, Exps 2-2 in Visit 05 (1)	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[2]



Proposal 12960 - Visit 06 - The nature of star formation in two spectroscopically confirmed exceptionally-luminous galaxies beyond a r...

Wed Jul 11 03:51:09 GMT 2012

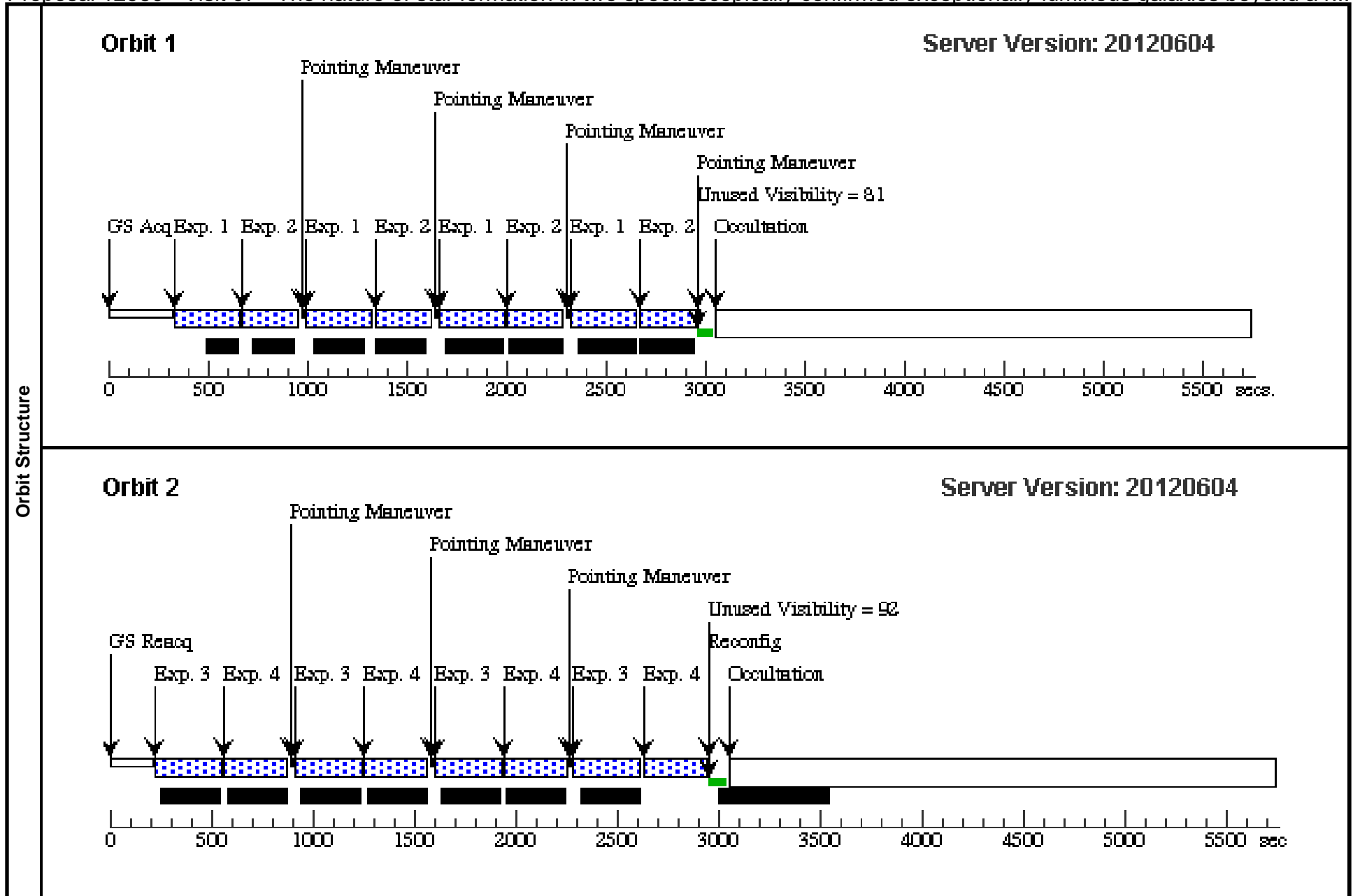
Visit	Proposal 12960, Visit 06 Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: SCHED 100%; SAME ORIENT AS 01 Comments: F098M x 2 orbits for Z73-BRIGHT-LAE									
	Patterns	#	Primary Pattern			Secondary Pattern			Exposures	
		(1)	Pattern Type=WFC3-IR-DITHER-BOX-MIN Purpose=DITHER Number Of Points=4 Point Spacing=0.572 Line Spacing=0.365	Coordinate Frame=POS-TARG Pattern Orientation=18.528 Angle Between Sides=74.653 Center Pattern=false						
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections		Fluxes	Miscellaneous			
	(1)	Z73-BRIGHT-LAE	RA: 02 17 47.4700 (34.4477917d) Dec: -05 00 32.67 (-5.00907d) Equinox: J2000			V=(?) J > 24.94 ABmag (UKIDSS-UD S 2sigma)	Reference Frame: ICRS			
	Comments: redshift(Lya) = 7.308									
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	Z73-F098M	(1) Z73-BRIGHT-LAE	WFC3/IR, MULTIACCUM, IR	F098M	SAMP-SEQ=SPARS 50; NSAMP=13	POS TARG +0.881, +1.212	Pattern 1, Exps 1-1 in Visit 06 (1)	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[1]
2	Z73-F098M	(1) Z73-BRIGHT-LAE	WFC3/IR, MULTIACCUM, IR	F098M	SAMP-SEQ=SPARS 50; NSAMP=13	POS TARG -0.474,+0.788	Pattern 1, Exps 2-2 in Visit 06 (1)	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[2]	



Proposal 12960 - Visit 07 - The nature of star formation in two spectroscopically confirmed exceptionally-luminous galaxies beyond a r...

Wed Jul 11 03:51:11 GMT 2012

Visit	Proposal 12960, Visit 07 Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: SCHED 100% <i>Comments: F125W x 1 orbit + F160W x 1 orbit for Z72-BRIGHT-LAE</i>									
	Patterns	#	Primary Pattern	Secondary Pattern	Exposures					
		(1)	Pattern Type=WFC3-IR-DITHER-BOX-MIN Purpose=DITHER Number Of Points=4 Point Spacing=0.572 Line Spacing=0.365	Coordinate Frame=POS-TARG Pattern Orientation=18.528 Angle Between Sides=74.653 Center Pattern=false		(1-2), (3-4)				
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(2)	Z72-BRIGHT-LAE	RA: 12 36 22.6800 (189.0945000d) Dec: +62 08 7.49 (62.13541d) Equinox: J2000		V=(?) F140W = 25.17 +/- 0.07 ABmag	Reference Frame: ICRS				
<i>Comments: redshift(Lya) = 7.213</i>										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	Z72-F125W	(2) Z72-BRIGHT-LAE	WFC3/IR, MULTIACCUM, IR	F125W	SAMP-SEQ=SPARS 25; NSAMP=13		Pattern 1, Exps 1-2 in Visit 07 (1)	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[1]
	2	Z72-F125W	(2) Z72-BRIGHT-LAE	WFC3/IR, MULTIACCUM, IR	F125W	SAMP-SEQ=SPARS 25; NSAMP=12		Pattern 1, Exps 1-2 in Visit 07 (1)	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[1]
	3	Z72-F160W	(2) Z72-BRIGHT-LAE	WFC3/IR, MULTIACCUM, IR	F160W	SAMP-SEQ=SPARS 25; NSAMP=13		Pattern 1, Exps 3-4 in Visit 07 (1)	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[2]
	4	Z72-F160W	(2) Z72-BRIGHT-LAE	WFC3/IR, MULTIACCUM, IR	F160W	SAMP-SEQ=SPARS 25; NSAMP=13		Pattern 1, Exps 3-4 in Visit 07 (1)	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[2]



Proposal 12960 - Visit 08 - The nature of star formation in two spectroscopically confirmed exceptionally-luminous galaxies beyond a r...

Wed Jul 11 03:51:13 GMT 2012

Visit	Proposal 12960, Visit 08 Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: SCHED 100%; SAME ORIENT AS 07 Comments: F098M x 2 orbits for Z72-BRIGHT-LAE									
	Patterns	#	Primary Pattern	Secondary Pattern	Exposures					
		(1)	Pattern Type=WFC3-IR-DITHER-BOX-MIN Purpose=DITHER Number Of Points=4 Point Spacing=0.572 Line Spacing=0.365	Coordinate Frame=POS-TARG Pattern Orientation=18.528 Angle Between Sides=74.653 Center Pattern=false		(1), (2)				
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(2)	Z72-BRIGHT-LAE	RA: 12 36 22.6800 (189.0945000d) Dec: +62 08 7.49 (62.13541d) Equinox: J2000		V=(?) F140W = 25.17 +/- 0.07 ABmag	Reference Frame: ICRS				
	Comments: redshift(Lya) = 7.213									
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	Z72-F098M	(2) Z72-BRIGHT-LAE	WFC3/IR, MULTIACCUM, IR	F098M	SAMP-SEQ=SPARS 50; NSAMP=13			Pattern 1, Exps 1-1 in Visit 08 (1)	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]
2	Z72-F098M	(2) Z72-BRIGHT-LAE	WFC3/IR, MULTIACCUM, IR	F098M	SAMP-SEQ=SPARS 50; NSAMP=13			Pattern 1, Exps 2-2 in Visit 08 (1)	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[2]

