



12527 - Resolving Lyman Continuum Emission from Ly α -Emitters

Cycle: 19, 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) SSA22-1 ANY	ACS/WFC WFC3/UVIS	4	08-Aug-2012 22:04:42.0	yes
02	(1) SSA22-1 ANY	ACS/WFC WFC3/UVIS	4	08-Aug-2012 22:05:03.0	yes
03	(1) SSA22-1 ANY	ACS/WFC WFC3/UVIS	4	08-Aug-2012 22:05:22.0	yes
04	(4) SSA22-2-2 ANY	ACS/WFC WFC3/UVIS	4	08-Aug-2012 22:05:40.0	yes
05	(2) SSA22-2 ANY	ACS/WFC WFC3/UVIS	4	08-Aug-2012 22:06:01.0	yes
06	(2) SSA22-2 ANY	ACS/WFC WFC3/UVIS	4	08-Aug-2012 22:06:18.0	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>
07	(3) SSA22-2-ACS	ACS/WFC	3	08-Aug-2012 22:06:35.0	yes

27 Total Orbits Used

ABSTRACT

Escaping Lyman-continuum (LyC) radiation from star-forming galaxies is likely responsible for the reionization of the universe. The direct measurement of escaping LyC radiation has proven exceptionally challenging. Using deep, ground-based, near-UV imaging, we have obtained direct LyC detections of both Lyman Break Galaxies (LBGs) and Lyman-Alpha Emitters (LAEs) at $z=3.1$. These observations have revealed high values for the escape fraction of LyC photons, based on the observed ratio of ionizing to non-ionizing UV radiation. In particular, the LyC escape fractions for some LAEs challenge models of stellar populations. While representing progress, the interpretation of these detections is ambiguous due to the seeing-limited resolution. Our Cycle 17 WFC3/UVIS program mapping the LyC emission for a pilot sample of 6 objects (3 LBGs, 3 LAEs) has revealed a diversity of mechanisms for the escape of ionizing radiation, and highlighted the need for a larger sample of resolved LyC observations. With two additional WFC3/UVIS+F336W pointings, we will target 9 faint $z=3.1$ LAEs and 2 LBGs - all spectroscopically confirmed at $z\sim 3.1$ and all with LyC detections in ground-based data. Our observations will quadruple the sample of LAEs with resolved LyC observations, and almost double the sample of LBGs. Based on an efficient observing strategy, we require 24 orbits of WFC3/UVIS+F336W imaging of ionizing radiation and 3 orbits of ACS+F814W imaging of the non-ionizing UV continuum. With these deep, high-resolution maps of ionizing and non-ionizing UV radiation, we will constrain the mechanisms responsible for large escape fractions, and gain insight into the process of reionization.

OBSERVING DESCRIPTION

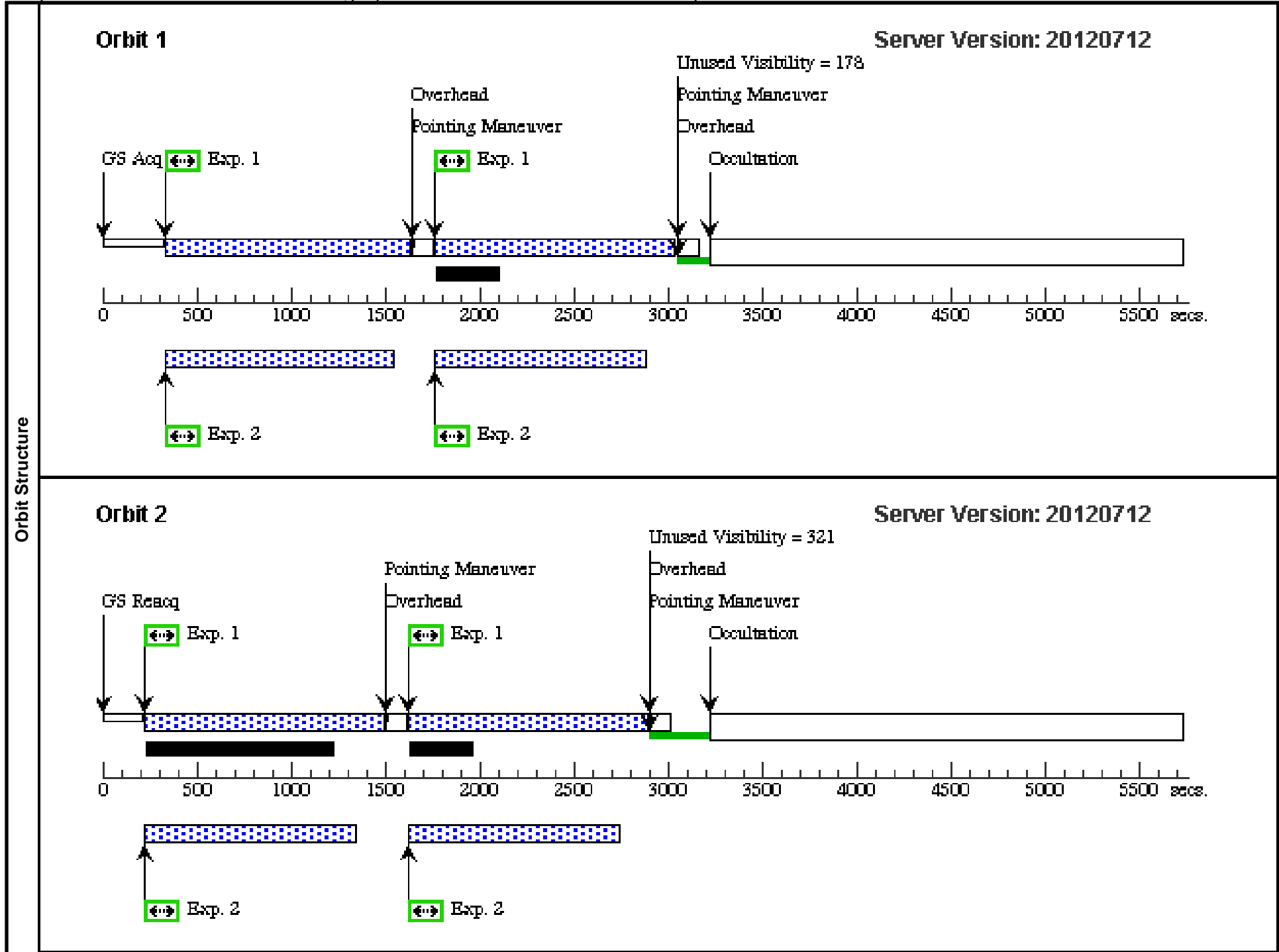
The program has two primary WFC3/UVIS pointings (with ACS/WFC F814W parallels). For one of these two pointings, we also have a primary ACS/WFC F814W image. Each pointing uses a number of 4-point box dither patterns, with POSTARGS of a few arcseconds between each pattern. In order to get all of our objects within the field-of-view, we are constraining the orientations significantly.

To minimize CTE losses, we are using the post-flash mode to deposit ~ 8 electrons throughout each UVIS F336W exposure. With background and dark current, this should result in ~ 12 e- per pixel background, where the CTE white paper says the CTE losses are significantly reduced.

Proposal 12527 - Visit 01 - Resolving Lyman Continuum Emission from Lya-Emitters

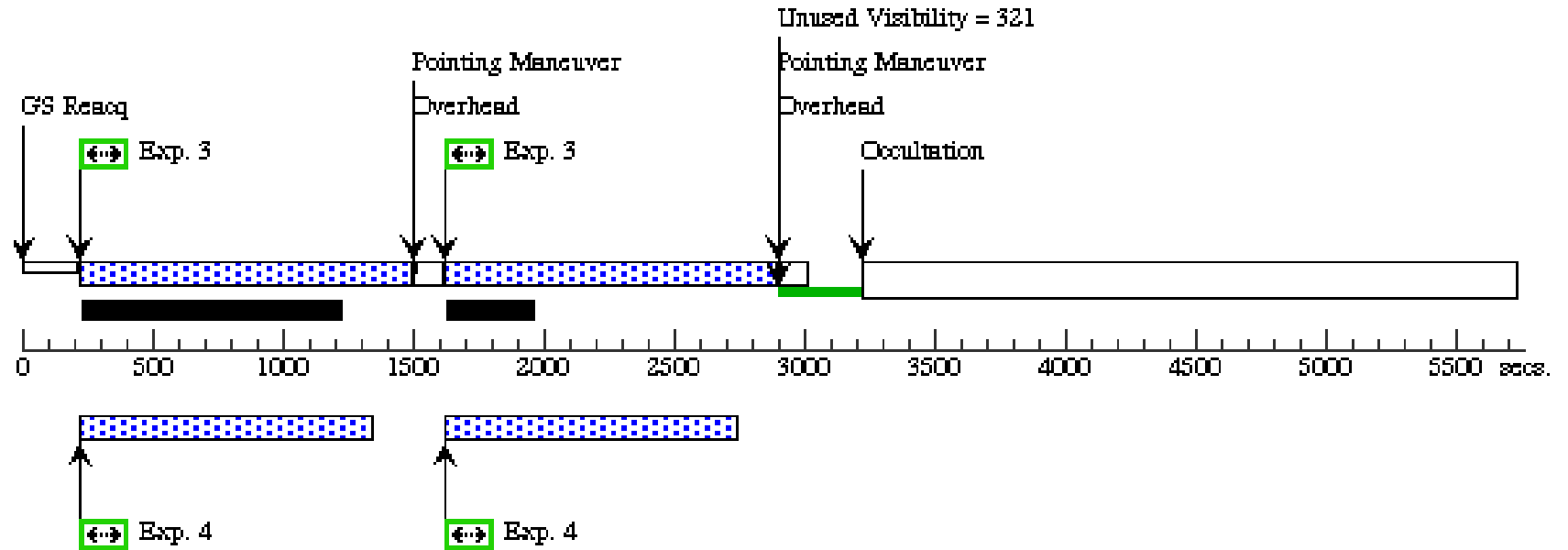
Thu Aug 09 02:06:45 GMT 2012

Visit	Proposal 12527, Visit 01, pi Diagnostic Status: Warning Scientific Instruments: WFC3/UVIS, ACS/WFC Special Requirements: ORIENT 179D TO 179 D										
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Diagnos											
Patterns	#	Primary Pattern				Secondary Pattern				Exposures	
	(1)	Pattern Type=WFC3-UVIS-DITHER-BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.173 Line Spacing=0.112				Coordinate Frame=POS-TARG Pattern Orientation=23.884 Angle Between Sides=81.785 Center Pattern=false				(1-2), (3-4)	
Fixed Targets	#	Name	Target Coordinates		Targ. Coord. Corrections		Fluxes	Miscellaneous			
	(1)	SSA22-1	RA: 22 17 34.1261 (334.3921921d) Dec: +00 16 51.92 (.28109d) Equinox: J2000				V=25	Reference Frame: ICRS			
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]		Orbit
	1		(1) SSA22-1	WFC3/UVIS, ACCUM, UVIS-CENTER	F336W	FLASH=8.0	POS TARG -1.0,null ; GS ACQ SCENARIO BASE1B3	Pattern 1, Exps 1-2 in Visit 01 (1) Prime + Parallel Group 1-2 in Pattern 1, Exps 1-2 in Visit 01	1270 Secs		
									[==>(Pattern 1)]		[1]
									[==>(Pattern 2)]		[2]
									[==>(Pattern 3)]		
									[==>(Pattern 4)]		
	2		ANY	ACS/WFC, ACCUM, WFC-FIX	F814W			Pattern 1, Exps 1-2 in Visit 01 (1) Prime + Parallel Group 1-2 in Pattern 1, Exps 1-2 in Visit 01	1000 Secs		
									[==>(Pattern 1)]		[1]
									[==>(Pattern 2)]		[2]
									[==>(Pattern 3)]		
									[==>(Pattern 4)]		
	3		(1) SSA22-1	WFC3/UVIS, ACCUM, UVIS-CENTER	F336W	FLASH=8.0	POS TARG -0.75,null	Pattern 1, Exps 3-4 in Visit 01 (1) Prime + Parallel Group 3-4 in Pattern 1, Exps 3-4 in Visit 01	1270 Secs		
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									[==>(Pattern 2)]		[4]
									[==>(Pattern 3)]		
									[==>(Pattern 4)]		
4		ANY	ACS/WFC, ACCUM, WFC-FIX	F814W			Pattern 1, Exps 3-4 in Visit 01 (1) Prime + Parallel Group 3-4 in Pattern 1, Exps 3-4 in Visit 01	1000 Secs			
								[==>(Pattern 1)]		[3]	
								[==>(Pattern 2)]		[4]	
								[==>(Pattern 3)]			
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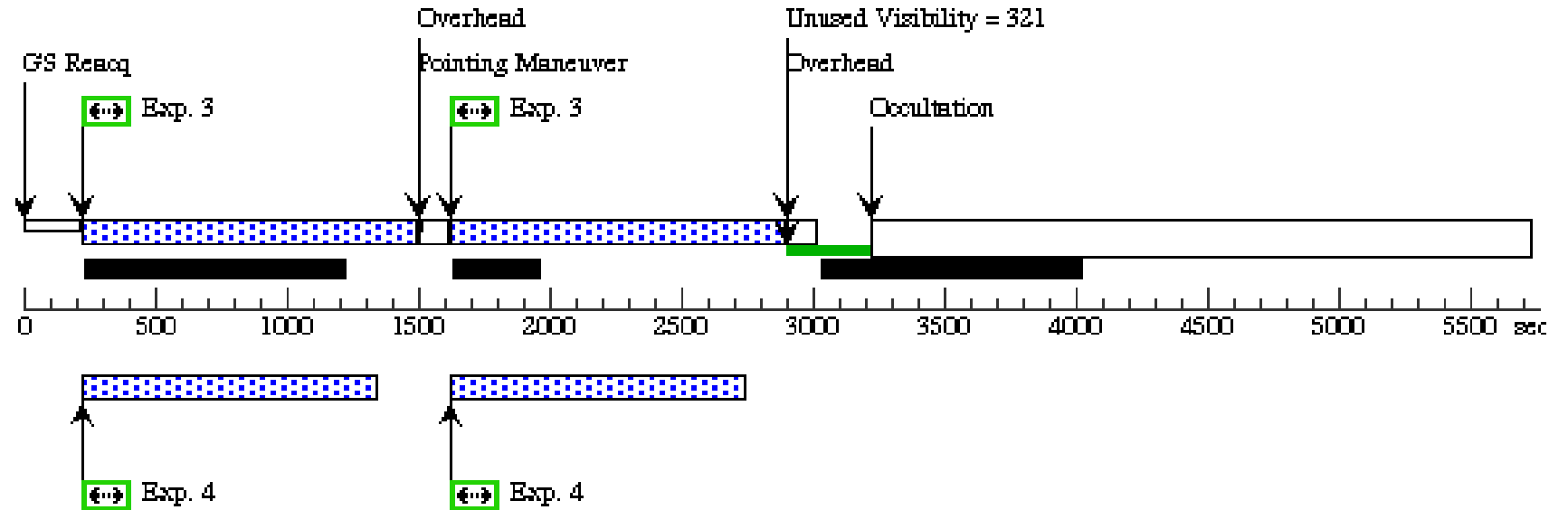
Orbit 3

Server Version: 20120712



Orbit 4

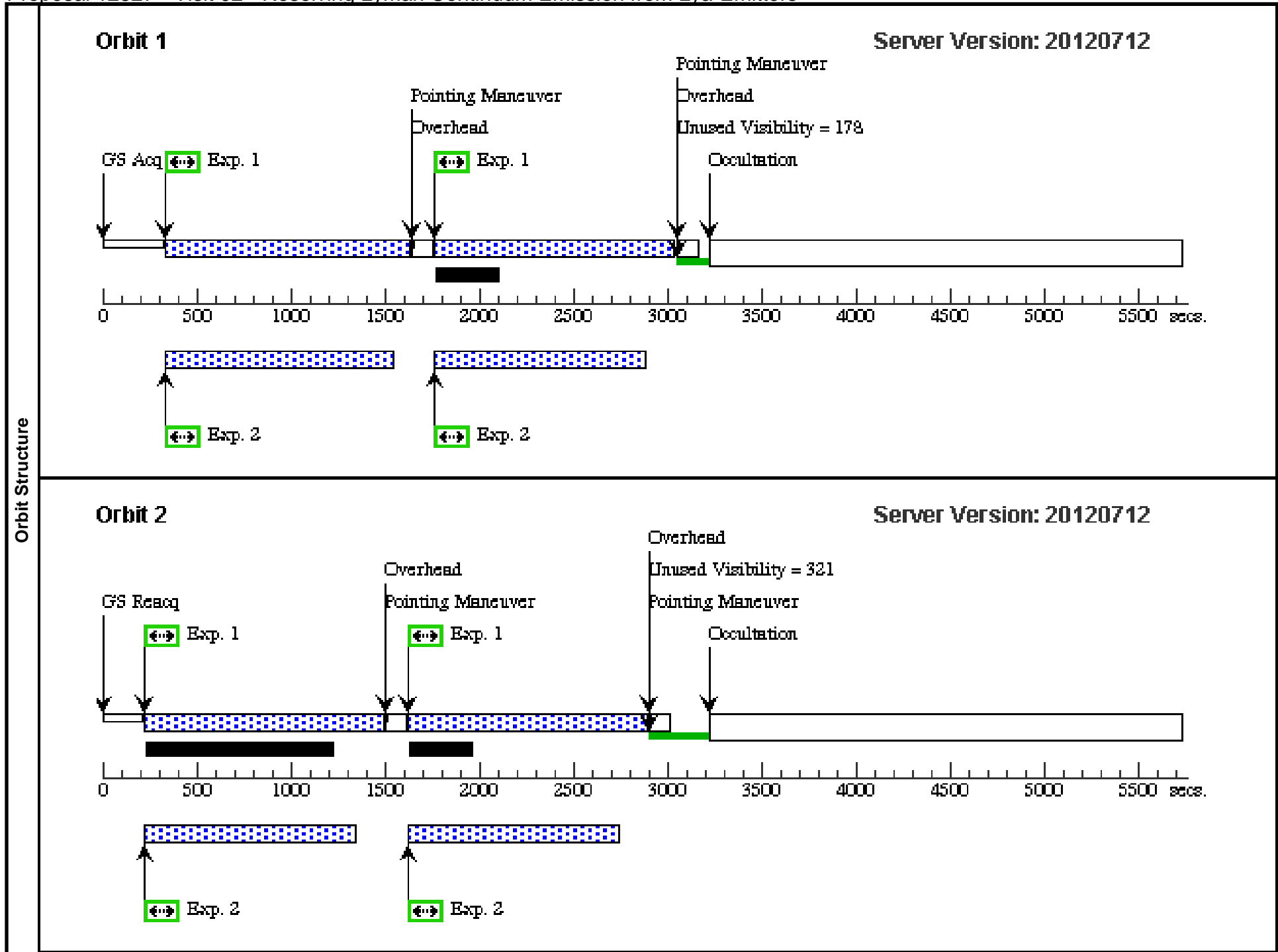
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Proposal 12527 - Visit 02 - Resolving Lyman Continuum Emission from Lya-Emitters

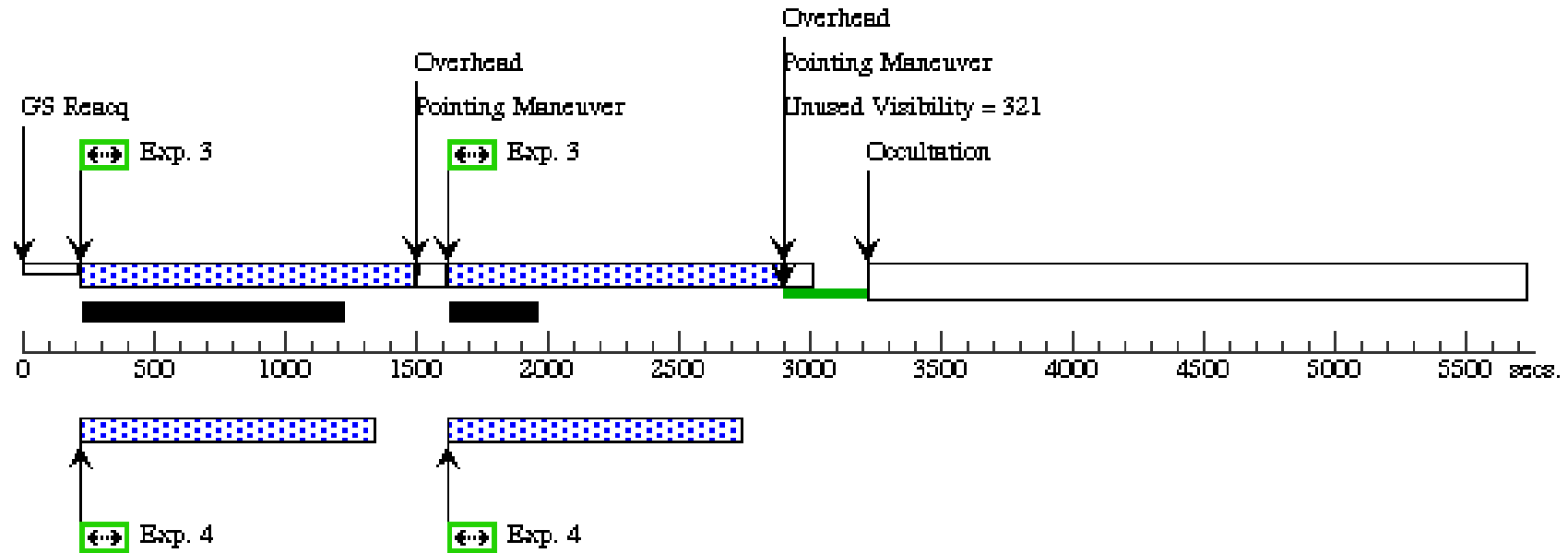
Thu Aug 09 02:06:51 GMT 2012

Visit	Proposal 12527, Visit 02, pi Diagnostic Status: Warning Scientific Instruments: WFC3/UVIS, ACS/WFC Special Requirements: SAME ORIENT AS 01										
	(Primary Exposure 1 (Prime + Parallel Group 1-2 in Pattern 1, Exps 1-2 in Visit 02)) Warning (Form): Light from the flash may escape from WFC3 and possibly contaminate exposures in other SIs. (Primary Exposure 3 (Prime + Parallel Group 3-4 in Pattern 1, Exps 3-4 in Visit 02)) Warning (Form): Light from the flash may escape from WFC3 and possibly contaminate exposures in other SIs.										
Diagnos											
Patterns	#	Primary Pattern				Secondary Pattern				Exposures	
	(1)	Pattern Type=WFC3-UVIS-DITHER-BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.173 Line Spacing=0.112				Coordinate Frame=POS-TARG Pattern Orientation=23.884 Angle Between Sides=81.785 Center Pattern=false				(1-2), (3-4)	
Fixed Targets	#	Name	Target Coordinates		Targ. Coord. Corrections		Fluxes		Miscellaneous		
	(1)	SSA22-1	RA: 22 17 34.1261 (334.3921921d) Dec: +00 16 51.92 (.28109d) Equinox: J2000				V=25		Reference Frame: ICRS		
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]		Orbit
	1		(1) SSA22-1	WFC3/UVIS, ACCUM, UVIS-CENTER	F336W	FLASH=8.0	POS TARG -0.50,nu ll; GS ACQ SCENARI O BASE1B3	Pattern 1, Exps 1-2 in Visit 02 (1) Prime + Parallel Group 1-2 in Pattern 1, Exps 1-2 in Visit 02	1270 Secs	[==(Pattern 1)] [==(Pattern 2)] [==(Pattern 3)] [==(Pattern 4)]	[1] [2]
	2		ANY	ACS/WFC, ACCUM, WFC-FIX	F814W			Pattern 1, Exps 1-2 in Visit 02 (1) Prime + Parallel Group 1-2 in Pattern 1, Exps 1-2 in Visit 02	1000 Secs	[==(Pattern 1)] [==(Pattern 2)] [==(Pattern 3)] [==(Pattern 4)]	[1] [2]
	3		(1) SSA22-1	WFC3/UVIS, ACCUM, UVIS-CENTER	F336W	FLASH=8.0	POS TARG -0.25,nu ll	Pattern 1, Exps 3-4 in Visit 02 (1) Prime + Parallel Group 3-4 in Pattern 1, Exps 3-4 in Visit 02	1270 Secs	[==(Pattern 1)] [==(Pattern 2)] [==(Pattern 3)] [==(Pattern 4)]	[3] [4]
	4		ANY	ACS/WFC, ACCUM, WFC-FIX	F814W			Pattern 1, Exps 3-4 in Visit 02 (1) Prime + Parallel Group 3-4 in Pattern 1, Exps 3-4 in Visit 02	1000 Secs	[==(Pattern 1)] [==(Pattern 2)] [==(Pattern 3)] [==(Pattern 4)]	[3] [4]



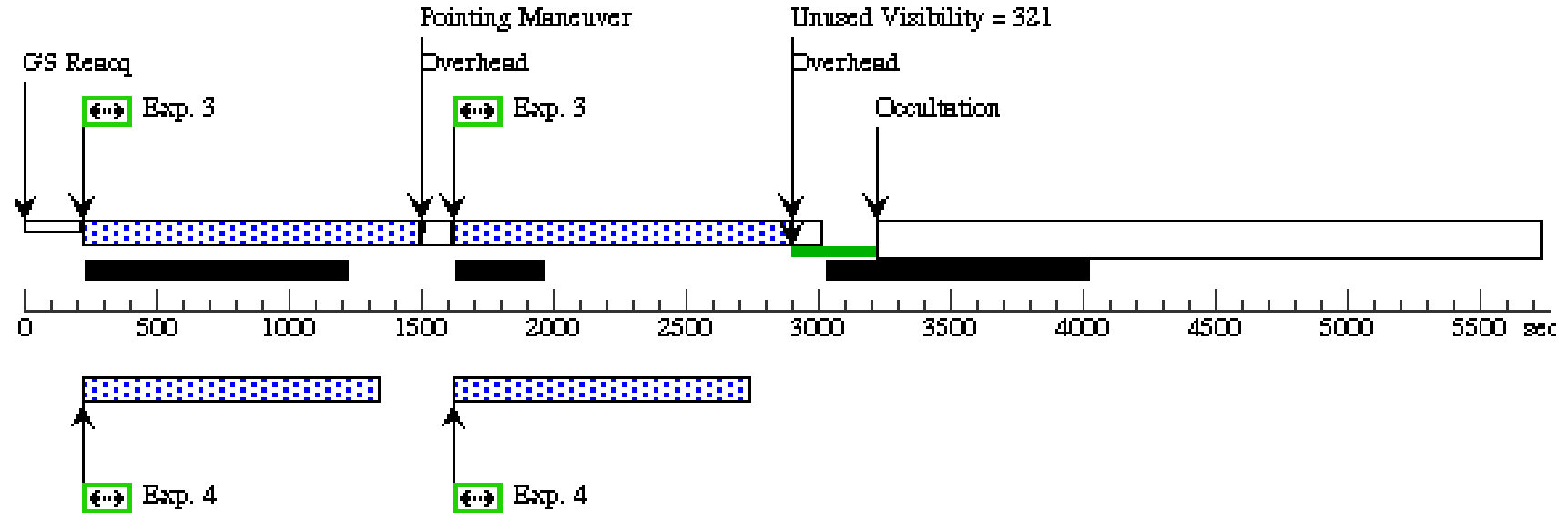
Orbit 3

Server Version: 20120712



Orbit 4

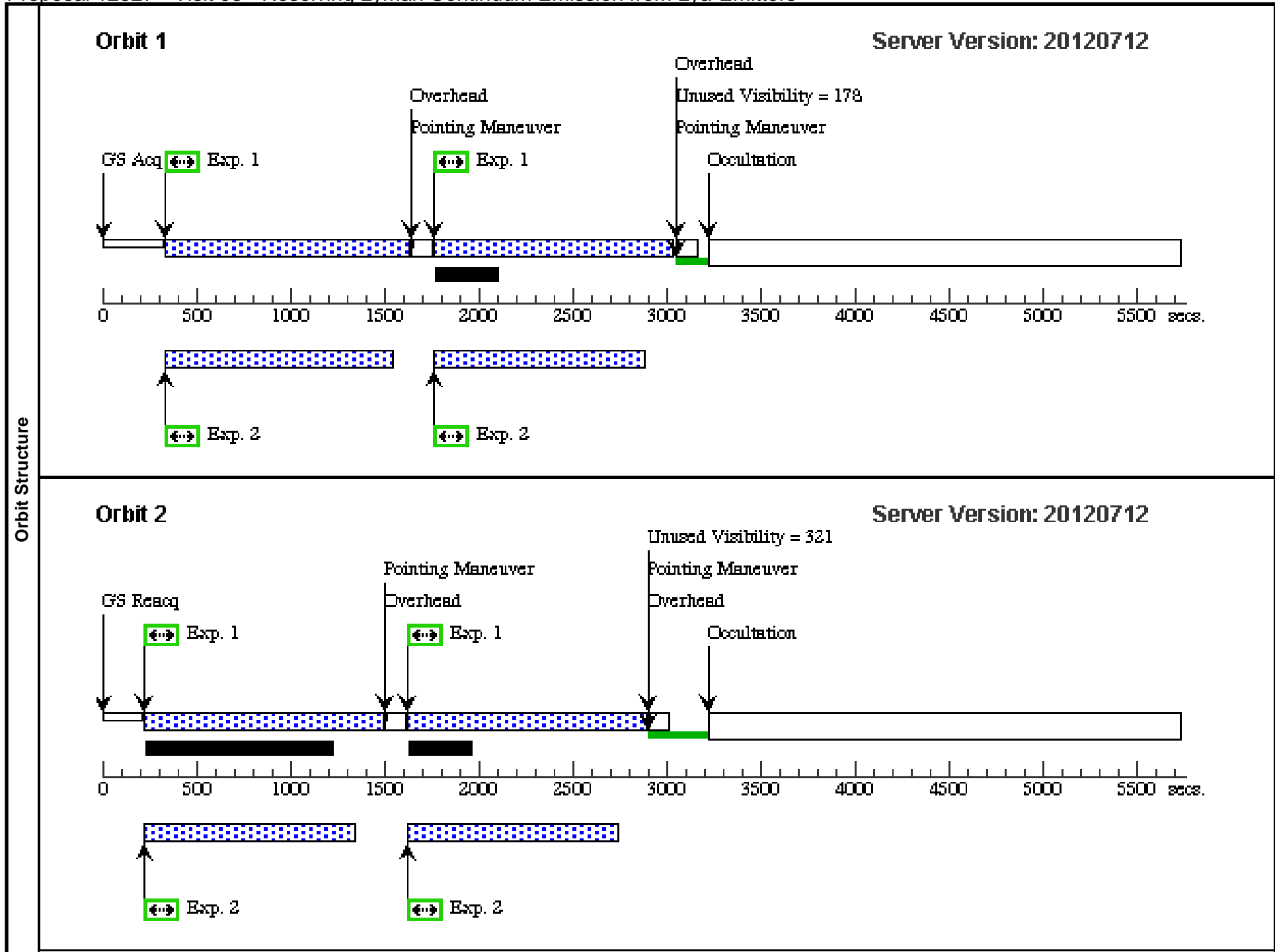
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Proposal 12527 - Visit 03 - Resolving Lyman Continuum Emission from Lya-Emitters

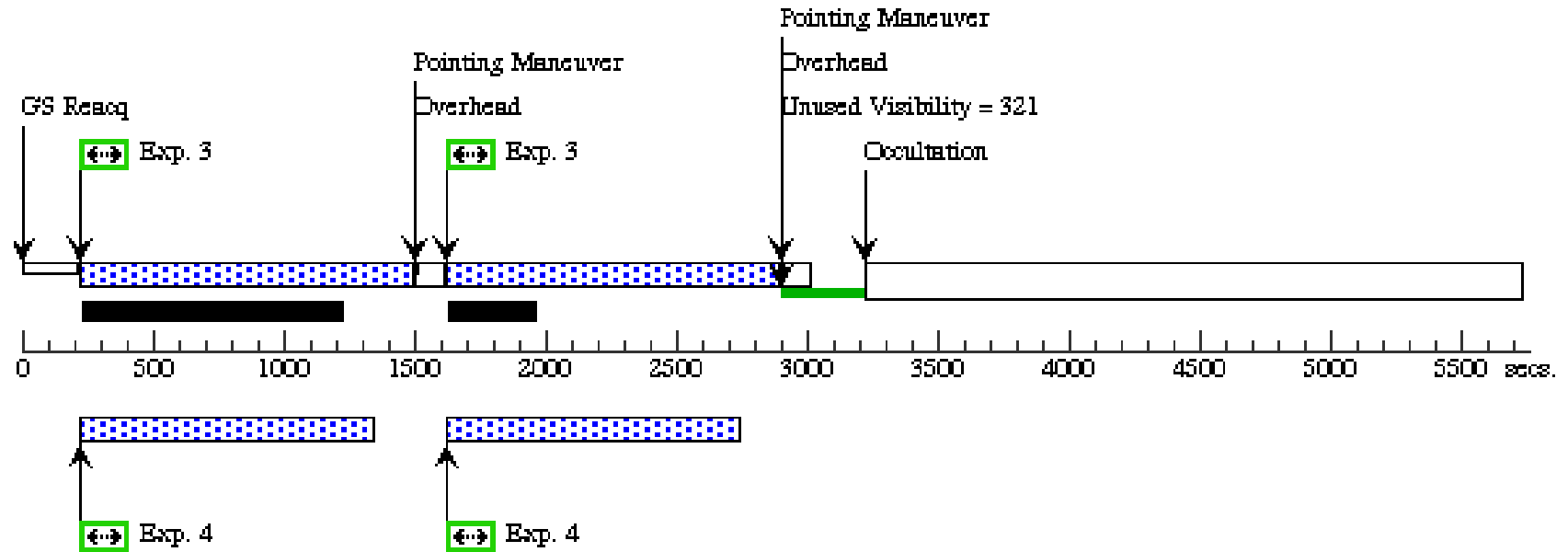
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Visit	Proposal 12527, Visit 03, pi Diagnostic Status: Warning Scientific Instruments: WFC3/UVIS, ACS/WFC Special Requirements: SAME ORIENT AS 01										
	(Primary Exposure 1 (Prime + Parallel Group 1-2 in Pattern 1, Exps 1-2 in Visit 03)) Warning (Form): Light from the flash may escape from WFC3 and possibly contaminate exposures in other SIs. (Primary Exposure 3 (Prime + Parallel Group 3-4 in Pattern 1, Exps 3-4 in Visit 03)) Warning (Form): Light from the flash may escape from WFC3 and possibly contaminate exposures in other SIs.										
Diagnos											
Patterns	#	Primary Pattern				Secondary Pattern				Exposures	
	(1)	Pattern Type=WFC3-UVIS-DITHER-BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.173 Line Spacing=0.112				Coordinate Frame=POS-TARG Pattern Orientation=23.884 Angle Between Sides=81.785 Center Pattern=false				(1-2), (3-4)	
Fixed Targets	#	Name	Target Coordinates		Targ. Coord. Corrections		Fluxes	Miscellaneous			
	(1)	SSA22-1	RA: 22 17 34.1261 (334.3921921d) Dec: +00 16 51.92 (.28109d) Equinox: J2000				V=25	Reference Frame: ICRS			
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]		Orbit
	1	(1) SSA22-1	WFC3/UVIS, ACCUM, UVIS-CENTER	F336W	FLASH=8.0	POS TARG 0.25,null ;	GS ACQ SCENARIO BASE1B3	Pattern 1, Exps 1-2 in Visit 03 (1) Prime + Parallel Group 1-2 in Pattern 1, Exps 1-2 in Visit 03	1270 Secs		
									[==>(Pattern 1)]		[1]
									[==>(Pattern 2)]		[2]
									[==>(Pattern 3)]		
									[==>(Pattern 4)]		
	2	ANY	ACS/WFC, ACCUM, WFC-FIX	F814W				Pattern 1, Exps 1-2 in Visit 03 (1) Prime + Parallel Group 1-2 in Pattern 1, Exps 1-2 in Visit 03	1000 Secs		
									[==>(Pattern 1)]		[1]
									[==>(Pattern 2)]		[2]
									[==>(Pattern 3)]		
									[==>(Pattern 4)]		
	3	(1) SSA22-1	WFC3/UVIS, ACCUM, UVIS-CENTER	F336W	FLASH=8.0	POS TARG 0.50,null		Pattern 1, Exps 3-4 in Visit 03 (1) Prime + Parallel Group 3-4 in Pattern 1, Exps 3-4 in Visit 03	1270 Secs		
									[==>(Pattern 1)]		[3]
									[==>(Pattern 2)]		[4]
									[==>(Pattern 3)]		
									[==>(Pattern 4)]		
4	ANY	ACS/WFC, ACCUM, WFC-FIX	F814W				Pattern 1, Exps 3-4 in Visit 03 (1) Prime + Parallel Group 3-4 in Pattern 1, Exps 3-4 in Visit 03	1000 Secs			
								[==>(Pattern 1)]		[3]	
								[==>(Pattern 2)]		[4]	
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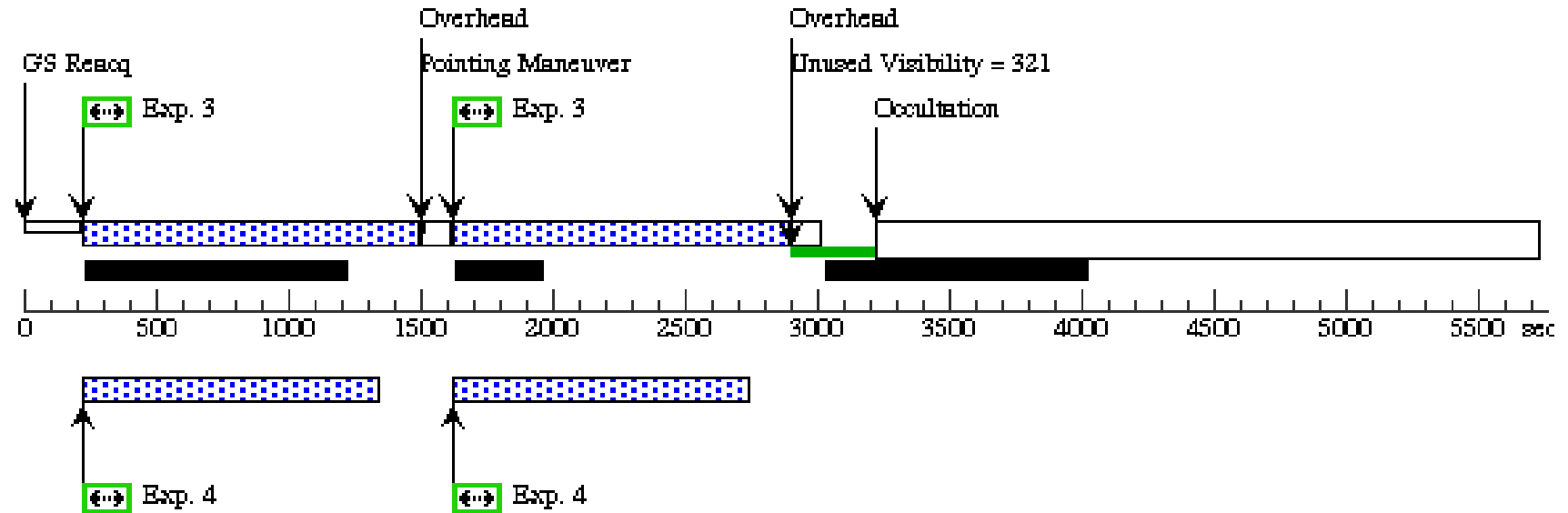
Orbit 3

Server Version: 20120712



Orbit 4

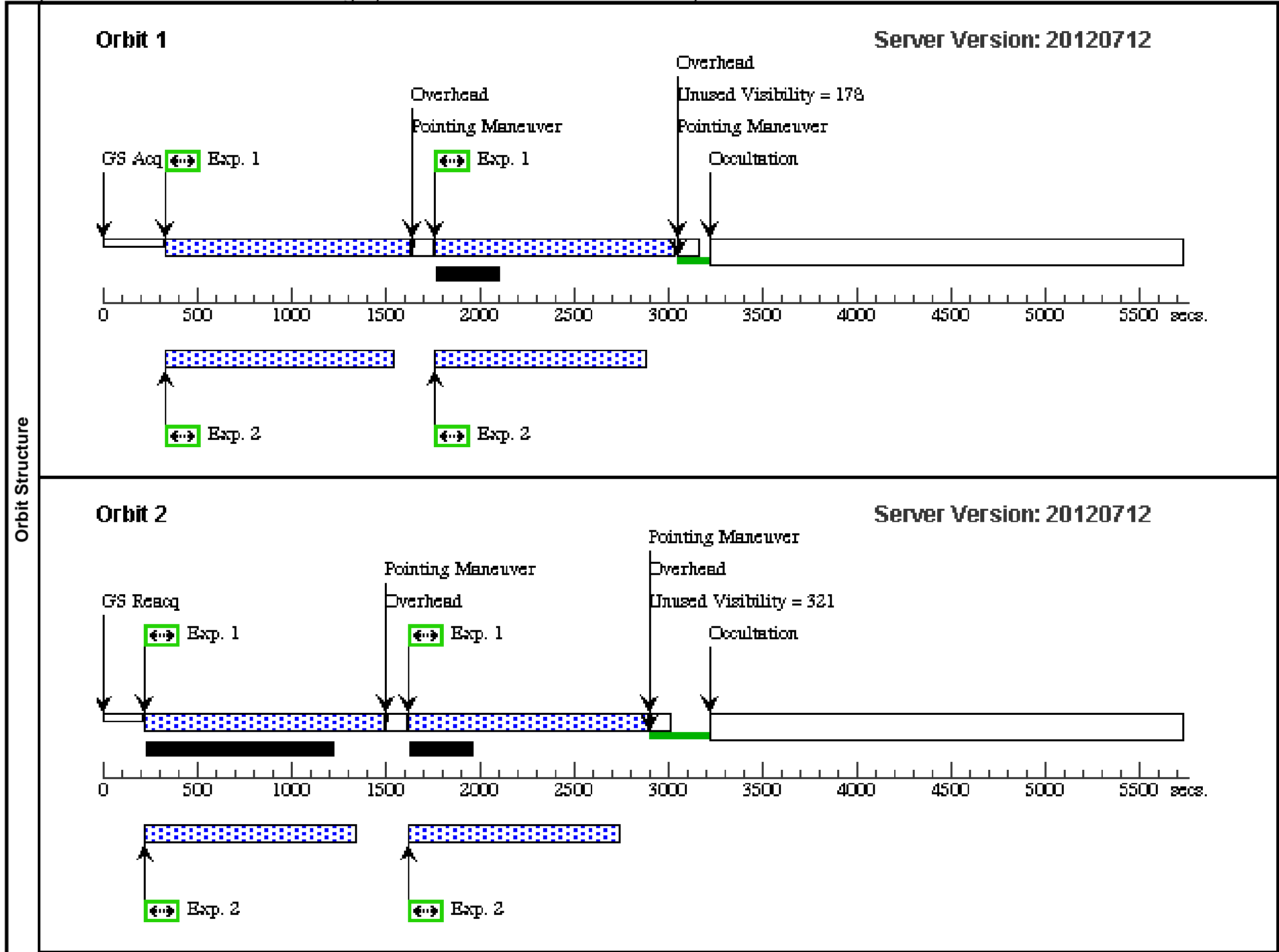
Server Version: 20120712



Proposal 12527 - Visit 04 - Resolving Lyman Continuum Emission from Lya-Emitters

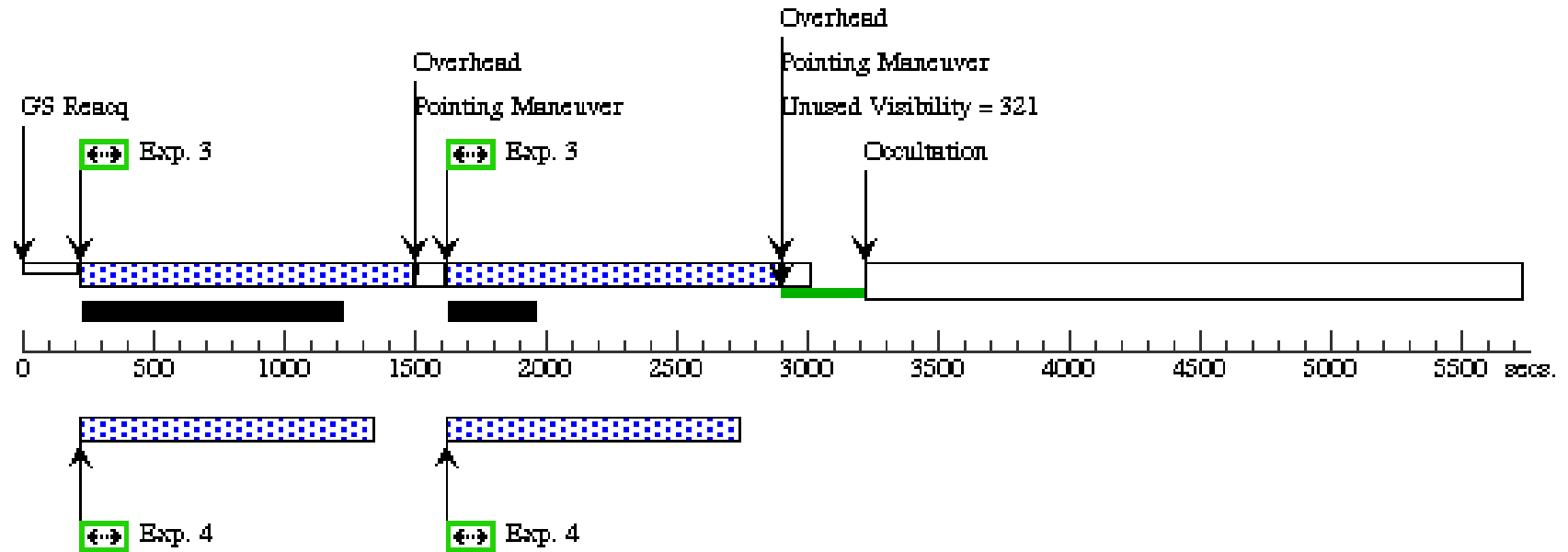
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Visit	Proposal 12527, Visit 04, pi Diagnostic Status: Warning Scientific Instruments: WFC3/UVIS, ACS/WFC Special Requirements: ORIENT 210D TO 210 D										
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Diagnos											
Patterns	#	Primary Pattern				Secondary Pattern				Exposures	
	(1)	Pattern Type=WFC3-UVIS-DITHER-BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.173 Line Spacing=0.112				Coordinate Frame=POS-TARG Pattern Orientation=23.884 Angle Between Sides=81.785 Center Pattern=false				(1-2), (3-4)	
Fixed Targets	#	Name	Target Coordinates		Targ. Coord. Corrections		Fluxes		Miscellaneous		
	(4)	SSA22-2-2	RA: 22 17 30.5810 (334.3774208d) Dec: +00 12 8.50 (.20236d) Equinox: J2000				V=25		Reference Frame: ICRS		
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]		Orbit
	1		(4) SSA22-2-2	WFC3/UVIS, ACCUM, UVIS-CENTER	F336W	FLASH=8.0	POS TARG -1.0,-1.0 ; GS ACQ SCENARIO BASE1B3	Pattern 1, Exps 1-2 in Visit 04 (1) Prime + Parallel Group 1-2 in Pattern 1, Exps 1-2 in Visit 04	1270 Secs		
									[==>(Pattern 1)]		[1]
									[==>(Pattern 2)]		[2]
									[==>(Pattern 3)]		
									[==>(Pattern 4)]		
	2		ANY	ACS/WFC, ACCUM, WFC-FIX	F814W			Pattern 1, Exps 1-2 in Visit 04 (1) Prime + Parallel Group 1-2 in Pattern 1, Exps 1-2 in Visit 04	1000 Secs		
									[==>(Pattern 1)]		[1]
									[==>(Pattern 2)]		[2]
									[==>(Pattern 3)]		
									[==>(Pattern 4)]		
	3		(4) SSA22-2-2	WFC3/UVIS, ACCUM, UVIS-CENTER	F336W	FLASH=8.0	POS TARG 1.0,1.0	Pattern 1, Exps 3-4 in Visit 04 (1) Prime + Parallel Group 3-4 in Pattern 1, Exps 3-4 in Visit 04	1270 Secs		
									[==>(Pattern 1)]		[3]
									[==>(Pattern 2)]		[4]
									[==>(Pattern 3)]		
									[==>(Pattern 4)]		
4		ANY	ACS/WFC, ACCUM, WFC-FIX	F814W			Pattern 1, Exps 3-4 in Visit 04 (1) Prime + Parallel Group 3-4 in Pattern 1, Exps 3-4 in Visit 04	1000 Secs			
								[==>(Pattern 1)]		[3]	
								[==>(Pattern 2)]		[4]	
								[==>(Pattern 3)]			
								[==>(Pattern 4)]			



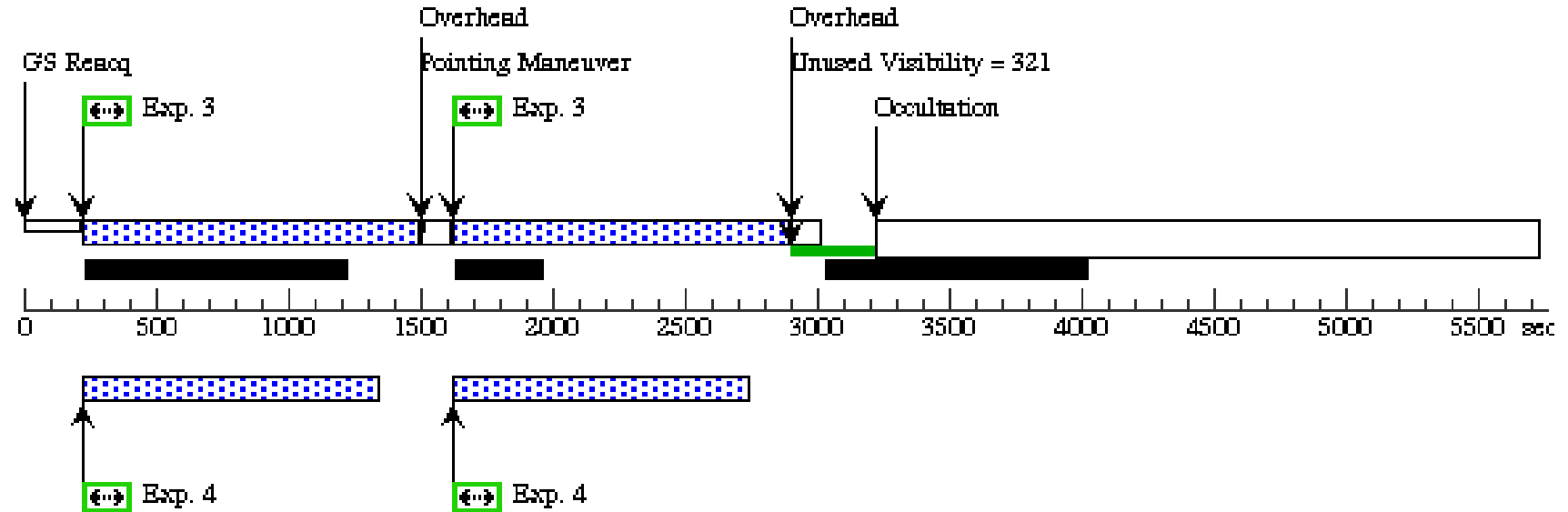
Orbit 3

Server Version: 20120712



Orbit 4

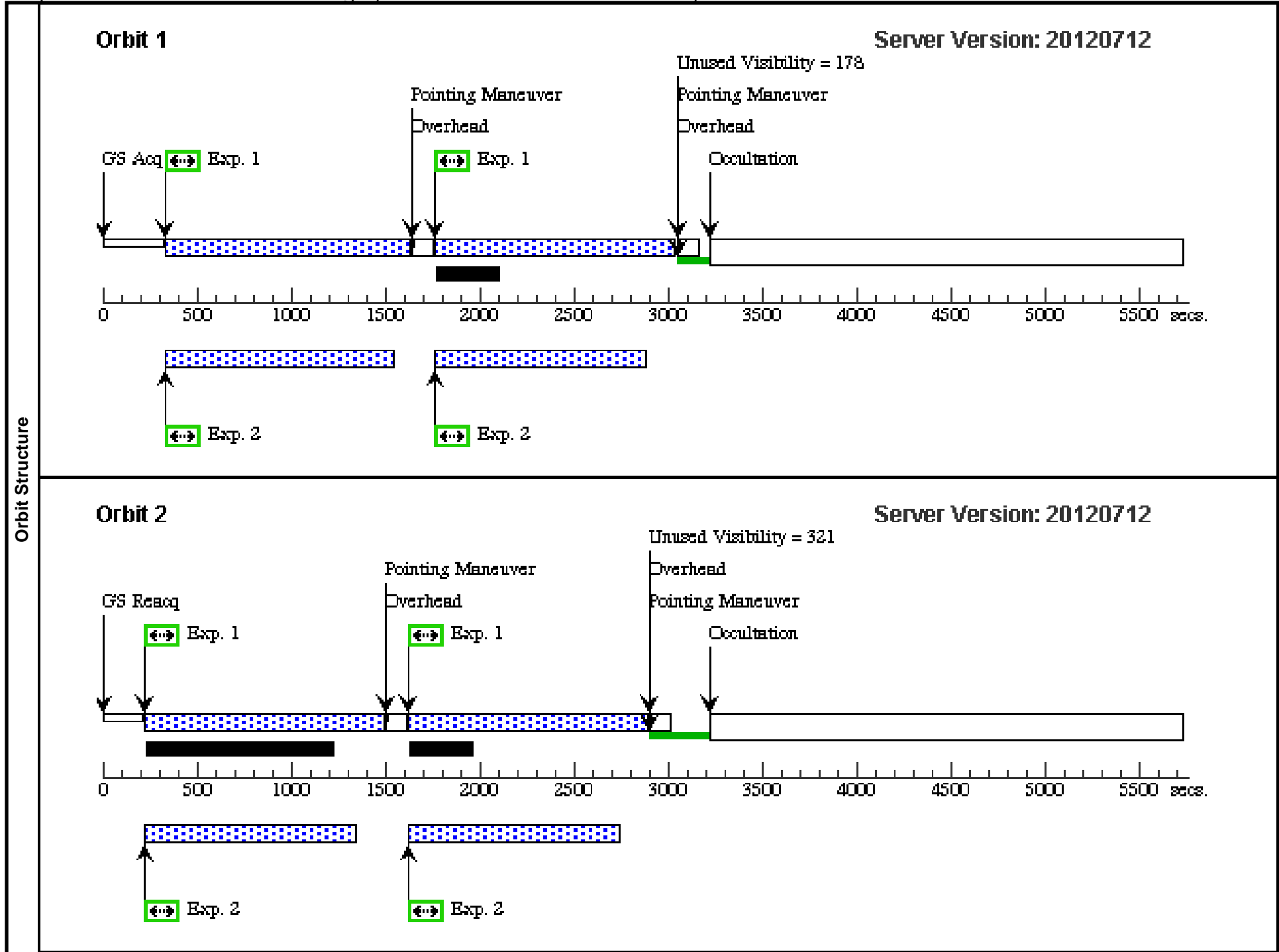
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Proposal 12527 - Visit 05 - Resolving Lyman Continuum Emission from Lya-Emitters

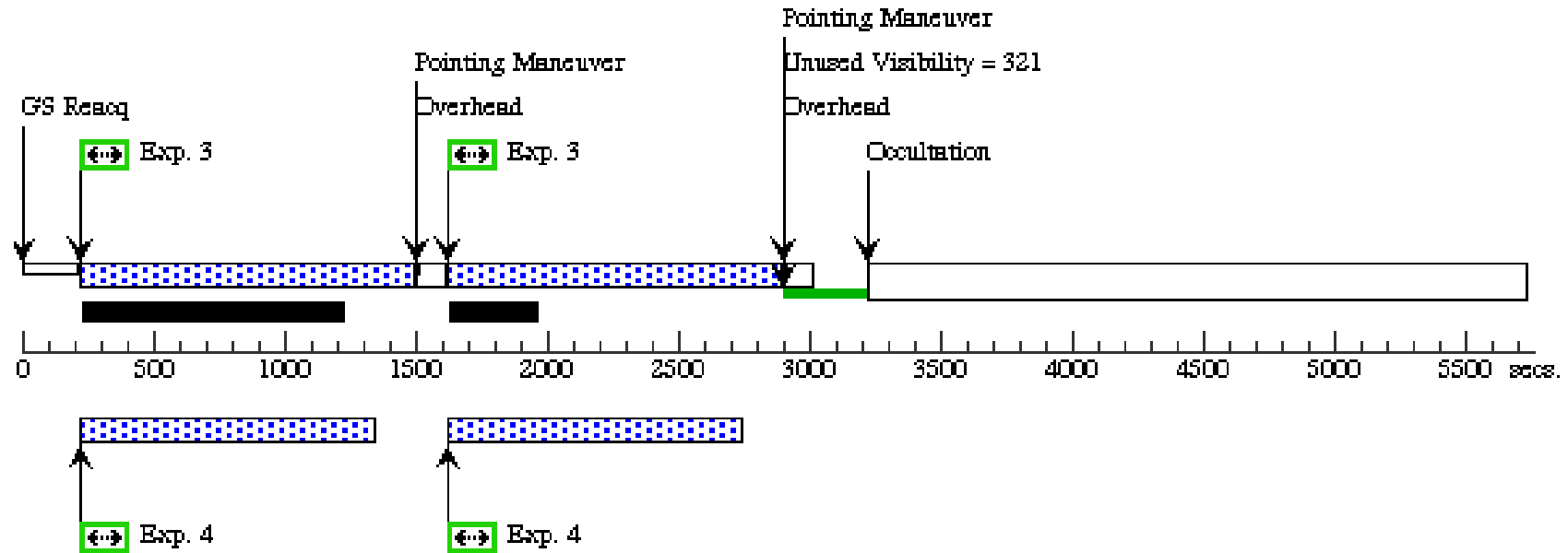
Thu Aug 09 02:07:02 GMT 2012

Visit	Proposal 12527, Visit 05, completed Diagnostic Status: Warning Scientific Instruments: WFC3/UVIS, ACS/WFC Special Requirements: ORIENT 240D TO 240 D									
	(Primary Exposure 1 (Prime + Parallel Group 1-2 in Pattern 1, Exps 1-2 in Visit 05)) Warning (Form): Light from the flash may escape from WFC3 and possibly contaminate exposures in other SIs. (Primary Exposure 3 (Prime + Parallel Group 3-4 in Pattern 1, Exps 3-4 in Visit 05)) Warning (Form): Light from the flash may escape from WFC3 and possibly contaminate exposures in other SIs.									
Diagnos										
Patterns	#	Primary Pattern			Secondary Pattern			Exposures		
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Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(2)	SSA22-2	RA: 22 17 30.3388 (334.3764117d) Dec: +00 12 18.19 (.20505d) Equinox: J2000		V=25	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(2) SSA22-2	WFC3/UVIS, ACCUM, UVIS-CENTER	F336W	FLASH=8.0	POS TARG -1.0,null ; GS ACQ SCENARIO BASE1B3	Pattern 1, Exps 1-2 in Visit 05 (1) Prime + Parallel Group 1-2 in Pattern 1, Exps 1-2 in Visit 05	1270 Secs [=>(Pattern 1)] [=>(Pattern 2)] [=>(Pattern 3)] [=>(Pattern 4)]	[1] [2]
	2		ANY	ACS/WFC, ACCUM, WFC-FIX	F814W			Pattern 1, Exps 1-2 in Visit 05 (1) Prime + Parallel Group 1-2 in Pattern 1, Exps 1-2 in Visit 05	1000 Secs [=>(Pattern 1)] [=>(Pattern 2)] [=>(Pattern 3)] [=>(Pattern 4)]	[1] [2]
	3		(2) SSA22-2	WFC3/UVIS, ACCUM, UVIS-CENTER	F336W	FLASH=8.0	POS TARG -0.5,null	Pattern 1, Exps 3-4 in Visit 05 (1) Prime + Parallel Group 3-4 in Pattern 1, Exps 3-4 in Visit 05	1270 Secs [=>(Pattern 1)] [=>(Pattern 2)] [=>(Pattern 3)] [=>(Pattern 4)]	[3] [4]
	4		ANY	ACS/WFC, ACCUM, WFC-FIX	F814W			Pattern 1, Exps 3-4 in Visit 05 (1) Prime + Parallel Group 3-4 in Pattern 1, Exps 3-4 in Visit 05	1000 Secs [=>(Pattern 1)] [=>(Pattern 2)] [=>(Pattern 3)] [=>(Pattern 4)]	[3] [4]



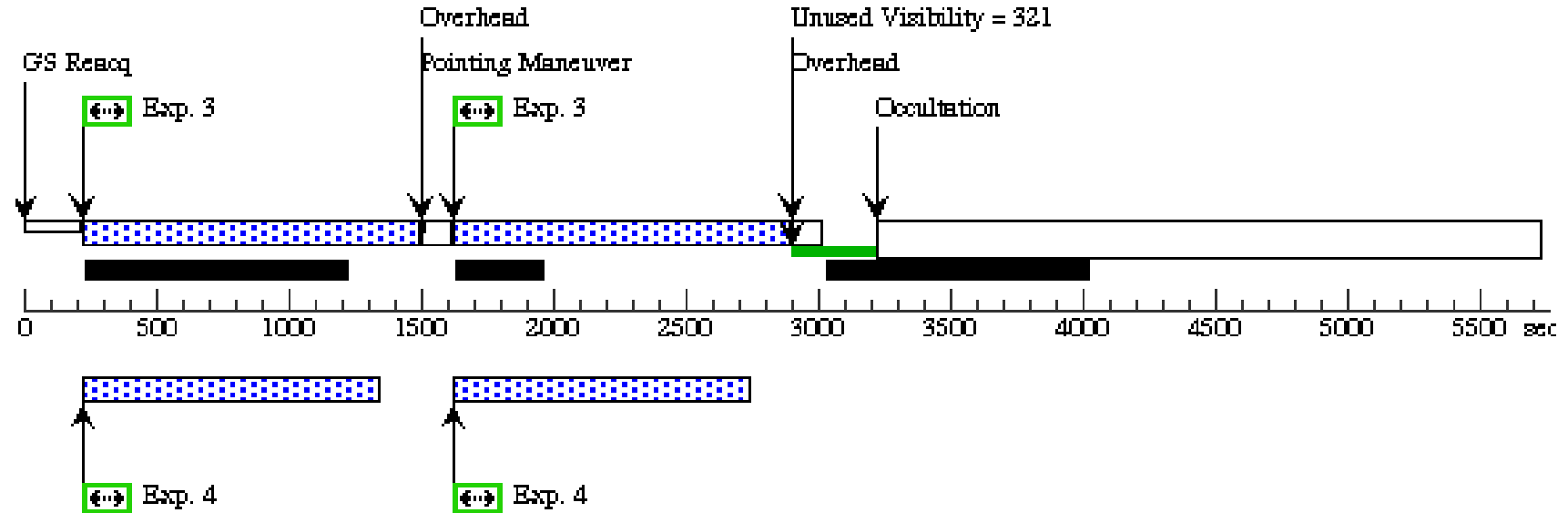
Orbit 3

Server Version: 20120712



Orbit 4

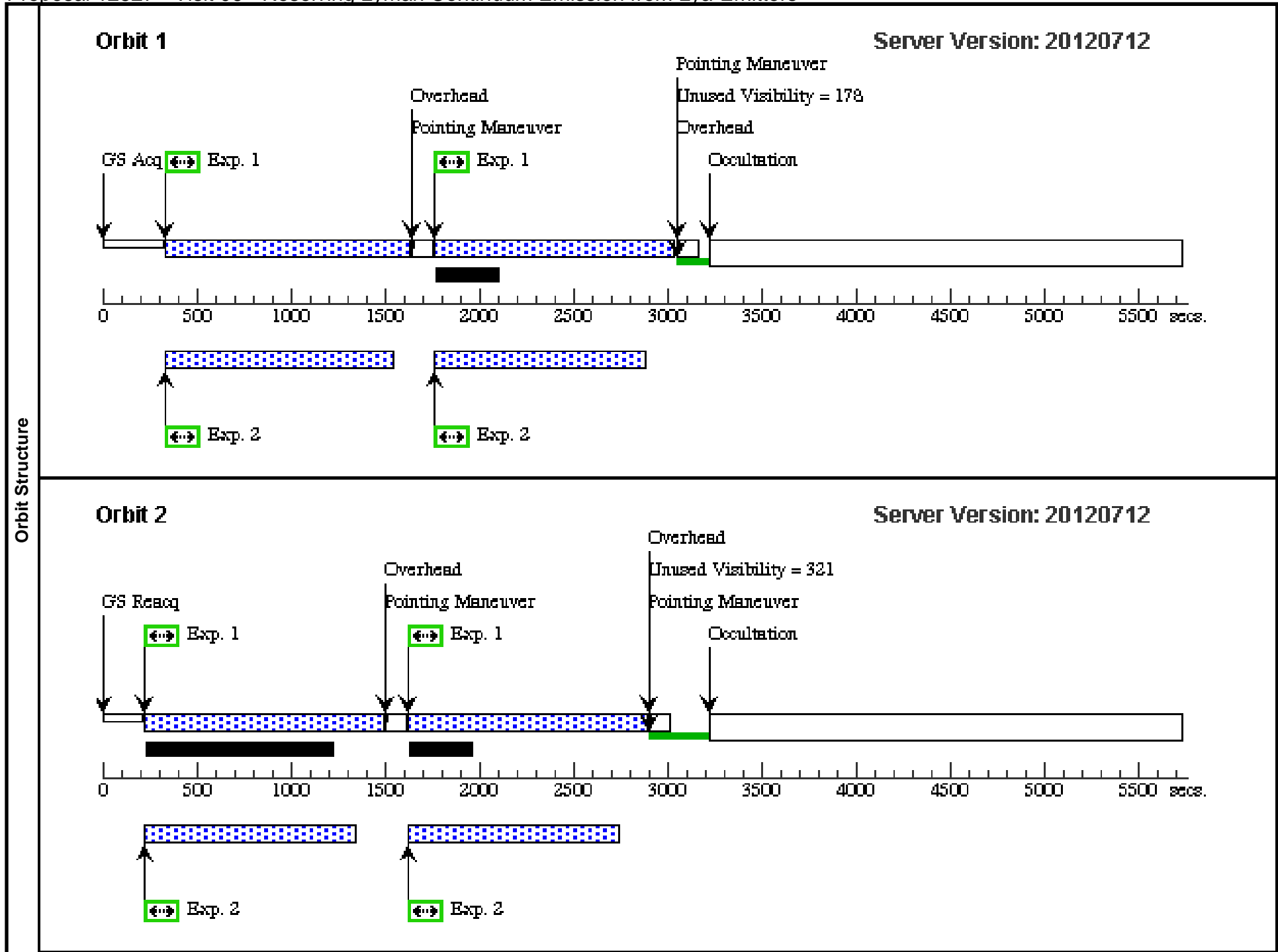
Server Version: 20120712



Proposal 12527 - Visit 06 - Resolving Lyman Continuum Emission from Lya-Emitters

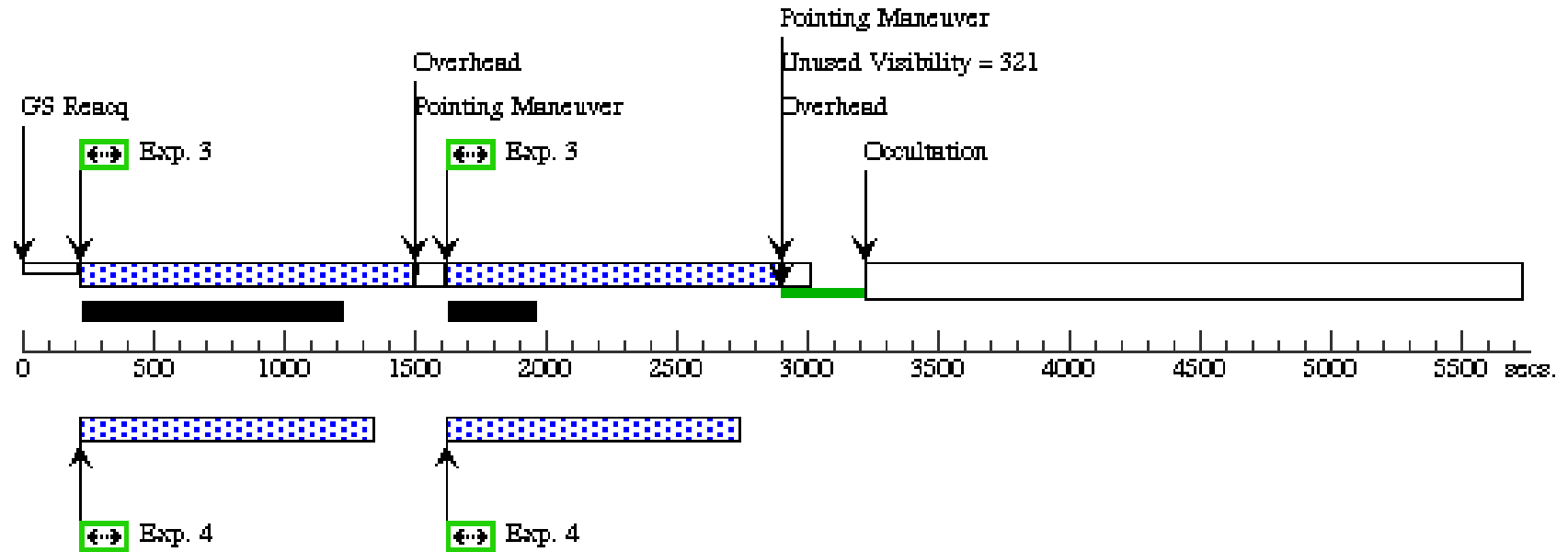
Thu Aug 09 02:07:06 GMT 2012

Visit	Proposal 12527, Visit 06, completed Diagnostic Status: Warning Scientific Instruments: WFC3/UVIS, ACS/WFC Special Requirements: SAME ORIENT AS 05									
	(Primary Exposure 1 (Prime + Parallel Group 1-2 in Pattern 1, Exps 1-2 in Visit 06)) Warning (Form): Light from the flash may escape from WFC3 and possibly contaminate exposures in other SIs. (Primary Exposure 3 (Prime + Parallel Group 3-4 in Pattern 1, Exps 3-4 in Visit 06)) Warning (Form): Light from the flash may escape from WFC3 and possibly contaminate exposures in other SIs.									
Diagnos										
Patterns	#	Primary Pattern				Secondary Pattern			Exposures	
	(1)	Pattern Type=WFC3-UVIS-DITHER-BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.173 Line Spacing=0.112				Coordinate Frame=POS-TARG Pattern Orientation=23.884 Angle Between Sides=81.785 Center Pattern=false			(1-2), (3-4)	
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(2)	SSA22-2	RA: 22 17 30.3388 (334.3764117d) Dec: +00 12 18.19 (.20505d) Equinox: J2000		V=25	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(2) SSA22-2	WFC3/UVIS, ACCUM, UVIS-CENTER	F336W	FLASH=8.0	POS TARG 0.5,null; GS ACQ SCENARI O BASE1B3	Pattern 1, Exps 1-2 in Visit 06 (1) Prime + Parallel Group 1-2 in Pattern 1, Exps 1-2 in Visit 06	1270 Secs [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[1] [2]
	2		ANY	ACS/WFC, ACCUM, WFC-FIX	F814W			Pattern 1, Exps 1-2 in Visit 06 (1) Prime + Parallel Group 1-2 in Pattern 1, Exps 1-2 in Visit 06	1000 Secs [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[1] [2]
	3		(2) SSA22-2	WFC3/UVIS, ACCUM, UVIS-CENTER	F336W	FLASH=8.0	POS TARG 1.0,null	Pattern 1, Exps 3-4 in Visit 06 (1) Prime + Parallel Group 3-4 in Pattern 1, Exps 3-4 in Visit 06	1270 Secs [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[3] [4]
	4		ANY	ACS/WFC, ACCUM, WFC-FIX	F814W			Pattern 1, Exps 3-4 in Visit 06 (1) Prime + Parallel Group 3-4 in Pattern 1, Exps 3-4 in Visit 06	1000 Secs [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[3] [4]



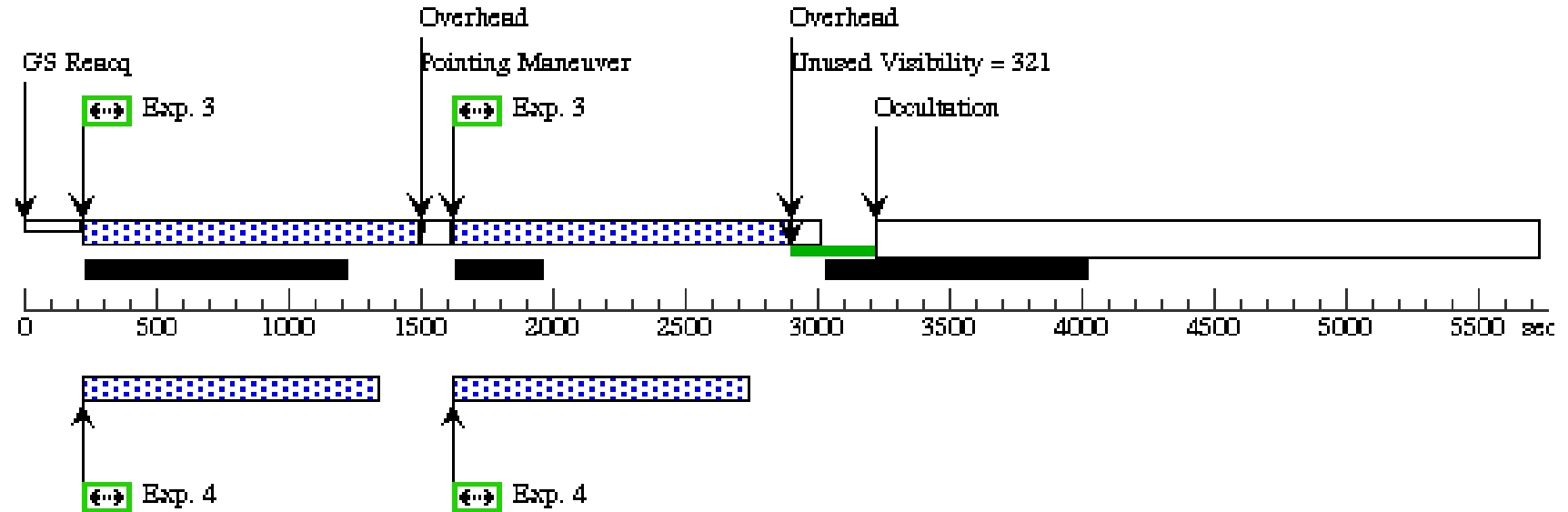
Orbit 3

Server Version: 20120712



Orbit 4

Server Version: 20120712



Proposal 12527 - Visit 07 - Resolving Lyman Continuum Emission from Lya-Emitters

Thu Aug 09 02:07:09 GMT 2012

Visit	Proposal 12527, Visit 07, completed Diagnostic Status: No Diagnostics Scientific Instruments: ACS/WFC Special Requirements: ORIENT 252D TO 252 D									
	Patterns	#	Primary Pattern	Secondary Pattern	Exposures					
		(2)	Pattern Type=ACS-WFC-DITHER-BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.265 Line Spacing=0.187	Coordinate Frame=POS-TARG Pattern Orientation=20.67 Angle Between Sides=69.05 Center Pattern=false		(1), (2), (3)				
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(3)	SSA22-2-ACS	RA: 22 17 24.6496 (334.3527067d) Dec: +00 14 15.04 (.23751d) Equinox: J2000		V=25	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	(3) SSA22-2-ACS		ACS/WFC, ACCUM, WFCENTER	F814W		GS ACQ SCENARIO BASE1B3	Pattern 2, Exps 1-1 in Visit 07 (2)	540 Secs	
									[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[1]
	2	(3) SSA22-2-ACS		ACS/WFC, ACCUM, WFCENTER	F814W		POS TARG 4.025,4.025	Pattern 2, Exps 2-2 in Visit 07 (2)	588 Secs	
								[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[2]	
3	(3) SSA22-2-ACS		ACS/WFC, ACCUM, WFCENTER	F814W		POS TARG -4.025,-4.025	Pattern 2, Exps 3-3 in Visit 07 (2)	588 Secs		
								[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[3]	

