



18111 - Ultraviolet Spectroscopy and Optical Imaging of 4 Local Broad-Line Blue Compact Galaxies, Which Resemble Distant Little Red Dots

Cycle: 33, Proposal Category: GO

(UV Initiative)

(Availability Mode: SUPPORTED)

INVESTIGATORS

<i>Name</i>	<i>Institution</i>
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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	(2) WISEA-J102530.29+140207.4	COS/FUV COS/NUV	4	12-Jun-2026 10:01:07.0	yes
02	(2) WISEA-J102530.29+140207.4	WFC3/UVIS	2	12-Jun-2026 10:01:08.0	yes
22	(2) WISEA-J102530.29+140207.4	WFC3/UVIS	1	12-Jun-2026 10:01:09.0	yes
03	(3) SHOC-029	COS/FUV COS/NUV	4	12-Jun-2026 10:01:10.0	yes
04	(3) SHOC-029	WFC3/UVIS	2	12-Jun-2026 10:01:11.0	yes
05	(4) WISEA-J122245.69+360218.6	COS/FUV COS/NUV	4	12-Jun-2026 10:01:13.0	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>
06	(4) WISEA-J122245.69+360218.6	WFC3/UVIS	2	12-Jun-2026 10:01:14.0	yes
07	(1) WISEA-J104755.92+073951.2	COS/FUV COS/NUV	4	12-Jun-2026 10:01:15.0	yes
08	(1) WISEA-J104755.92+073951.2	WFC3/UVIS	2	12-Jun-2026 10:01:17.0	yes

25 Total Orbits Used

ABSTRACT

Blue Compact Dwarf (BCD) galaxies are a unique class of low-mass, low-metallicity, gas-rich, high star formation rate systems. A small subset have been found in the local Universe ($z=0.1-0.3$) to exhibit persistent broad emission lines (BL-BCDs) and concave SEDs indicative of hosting obscured AGN, potentially with overmassive supermassive black holes. These BL-BCDs lack strong hard X-ray emission, show little optical variability, and have extreme blueshifted H and He absorption features, challenging traditional AGN diagnostics. Intriguingly, many high-redshift 'little red dots' (LRDs) found by JWST show similar characteristics. We propose to acquire far-UV spectra and 3-color WFC3/UVIS imaging for a sample of four well characterized BL-BCDs. These data will better elucidate the contributions from the AGN and stellar population and potentially provide critical input on a number of uncertain properties of BL-BCDs, and by extension, distant LRDs.

OBSERVING DESCRIPTION

We propose to observe the sample of four BL-BCD with both HST COS GL130M + GL160M and WFC3 UVIS F300X, F475W, and F850LP. While high S/N optical and NIR spectral constraints on BL-BCDs can be performed from the ground, these have thus far offered ambiguous constraints, possibly due to the stronger influence from the AGN. The proposed UV spectral and spatially resolved studies of faint compact emission are well-suited to HST's capabilities in space. Based on the high Balmer decrements, low metallicities and existing rest-frame UV spectra of BL-LRDs with JWST, we may expect that the UV regime of BL-BCDs may lack most broad and/or bright lines, aside from Ly-alpha and perhaps HeI and HeII. Instead, if the UV is dominated stellar light from a nuclear star cluster, we expect to see FUV signatures of very young stellar populations, namely, stellar absorptions.

For COS, we will use the two medium-resolution gratings, G130M and G160M ($\lambda_{\text{cen}}=1291$ and 1589, respectively) to cover the almost continuous spectral coverage between Ly-alpha and HeII (1640Å), i.e., 1130--1780Å with a few (short) gaps. We adopt a combination of G130M+G160M rather than a single setup with G140L because (i) each of them provides almost a 2x better throughput, so after binning along the wavelength we will get similar quality of continuum measurements; (ii) they provide much higher spectral resolution, which is crucial for the

detection of narrow blue-shifted absorption lines associated with outflows, as we expect for our targets.

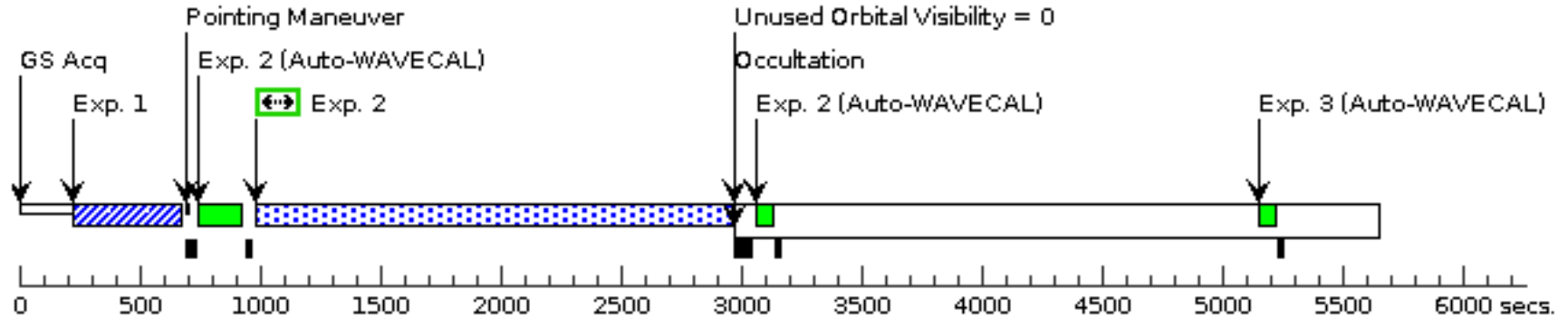
For UVIS WFC3, we will use F300X+F475W+F850LP to probe the faint extended emission associated with the underlying older stellar population, enabling constraints on the stellar mass, age, and morphology of the hosts. These particular filters were chosen so as to mitigate contamination from high-EW lines in the nucleus, the PSF of which we will need to model and remove. The latter motivates us to adopt 3 UVIS bands, which offer a somewhat better sampled PSF compared to the IR detector. Notably, F300X will probe young stars in the NUV, and is 3 times more efficient than F275W for the same exposure time. F850LP will probe a redder starlight to offer a useful upper limit on stellar mass, while avoiding H-alpha and HeI 10830A. F850LP will also serve as the primary filter for the two-dimensional light profile decomposition to estimate structural properties (dust attenuation is not considered important here vs. the bluer bands, while the width of the instrumental PSF is still small). F475W (SDSS g) will be crucial for the analysis of stellar population properties of host galaxies in a combination with F850LP, while avoiding H-beta+[O III] and only suffering minor continuum contamination from weaker Balmer lines and [O II].

Proposal 18111 - J1025+14 cos 1 (01) - Ultraviolet Spectroscopy and Optical Imaging of 4 Local Broad-Line Blue Compact Galaxies,...

Visit	Proposal 18111, J1025+14_cos_1 (01), implementation								Fri Jun 12 14:01:17 GMT 2026	
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	Scientific Instruments: COS/FUV, COS/NUV									
	Special Requirements: (none)									
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections		Fluxes		Miscellaneous		
	(2)	WISEA-J102530.29+140207.4	RA: 10 25 30.2928 (156.3762200d) Dec: +14 02 7.37 (14.03538d) Equinox: J2000	Proper Motion RA: 0 Proper Motion Dec: 0		V=19.8+/-0.1		Reference Frame: ICRS		
	Comments: This object was generated by the targetselector and retrieved from the NED database.									
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Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	acq (COS.sp.191 9964)	(2) WISEA-J102530. 29+140207.4	COS/NUV, ACQ/IMAGE, PSA	MIRRORA				120 Secs (120 Secs)	
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	2	exp1 (COS.sp.191 9964)	(2) WISEA-J102530. 29+140207.4	COS/FUV, TIME-TAG, PSA	G130M 1291 A	SEGMENT=BOTH; BUFFER-TIME=3000; FLASH=YES; FP-POS=3			2000 Secs (1924 Secs)	
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	3	exp2 (COS.sp.191 9964)	(2) WISEA-J102530. 29+140207.4	COS/FUV, TIME-TAG, PSA	G130M 1291 A	SEGMENT=BOTH; BUFFER-TIME=3000; FLASH=YES; FP-POS=4			2400 Secs (2534 Secs)	
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	4	exp3 (COS.sp.191 9964)	(2) WISEA-J102530. 29+140207.4	COS/FUV, TIME-TAG, PSA	G160M 1589 A	BUFFER-TIME=3000; FP-POS=ALL			2400 Secs (4754 Secs)	
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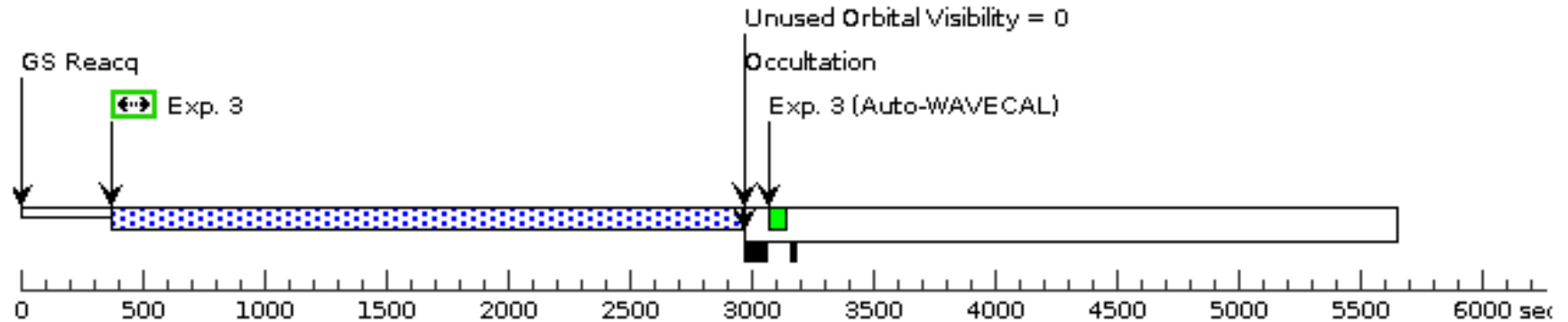
Orbit 1

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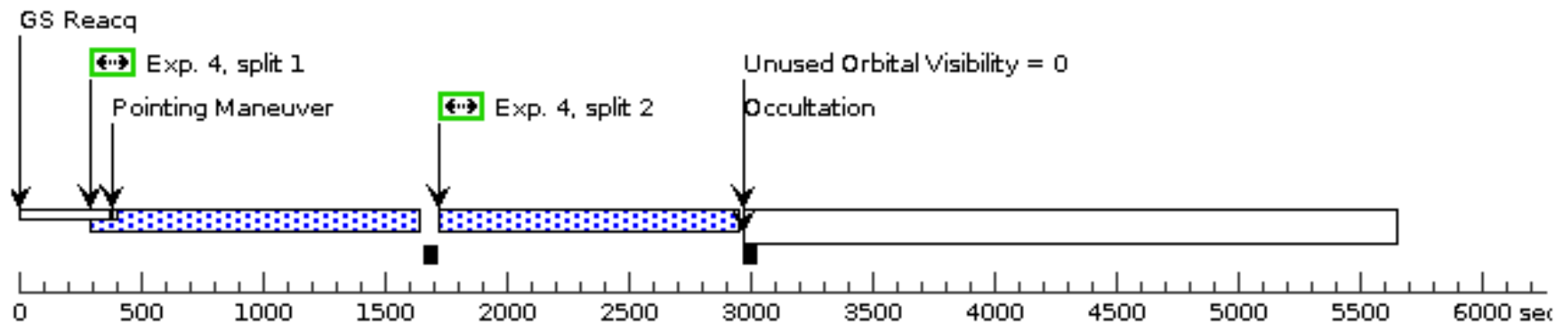
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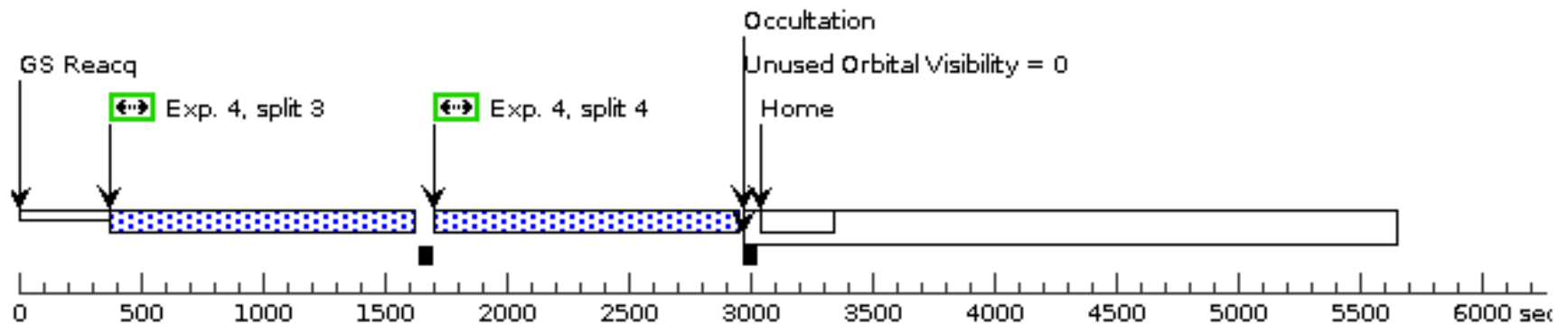
Orbit 3

Server Version: 20260319



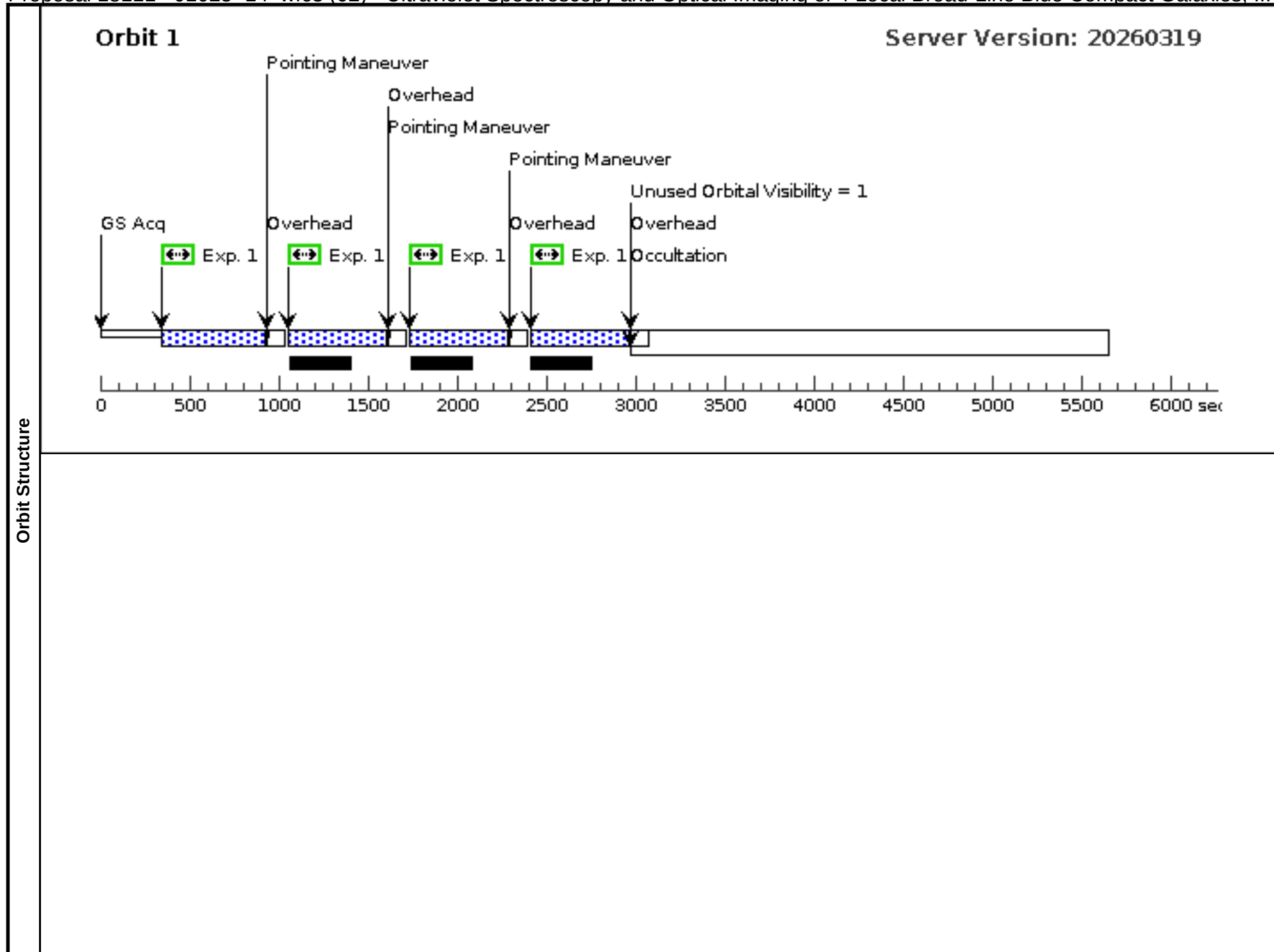
Orbit 4

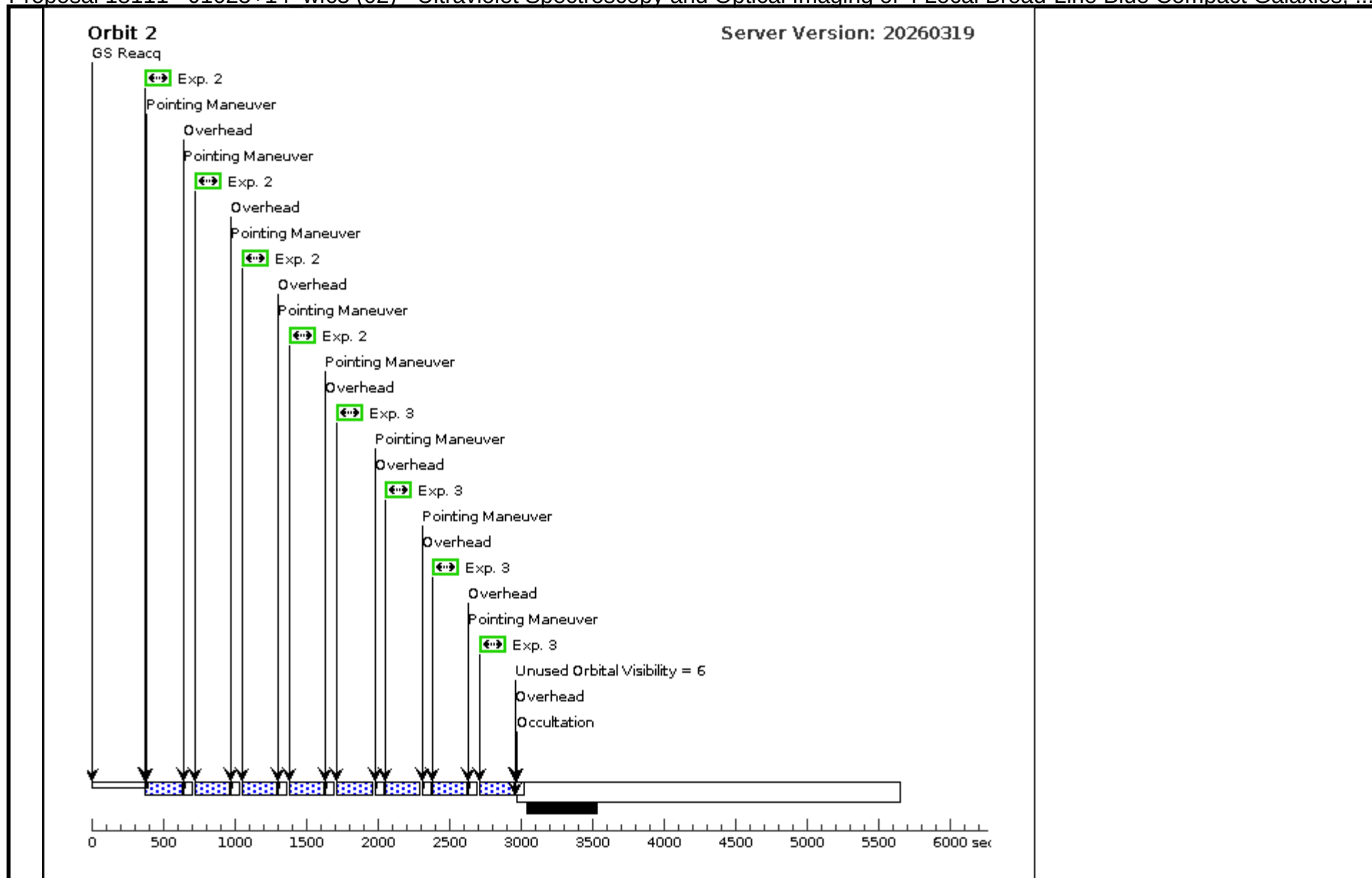
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Proposal 18111 - J1025+14_wfc3 (02) - Ultraviolet Spectroscopy and Optical Imaging of 4 Local Broad-Line Blue Compact Galaxies, ...

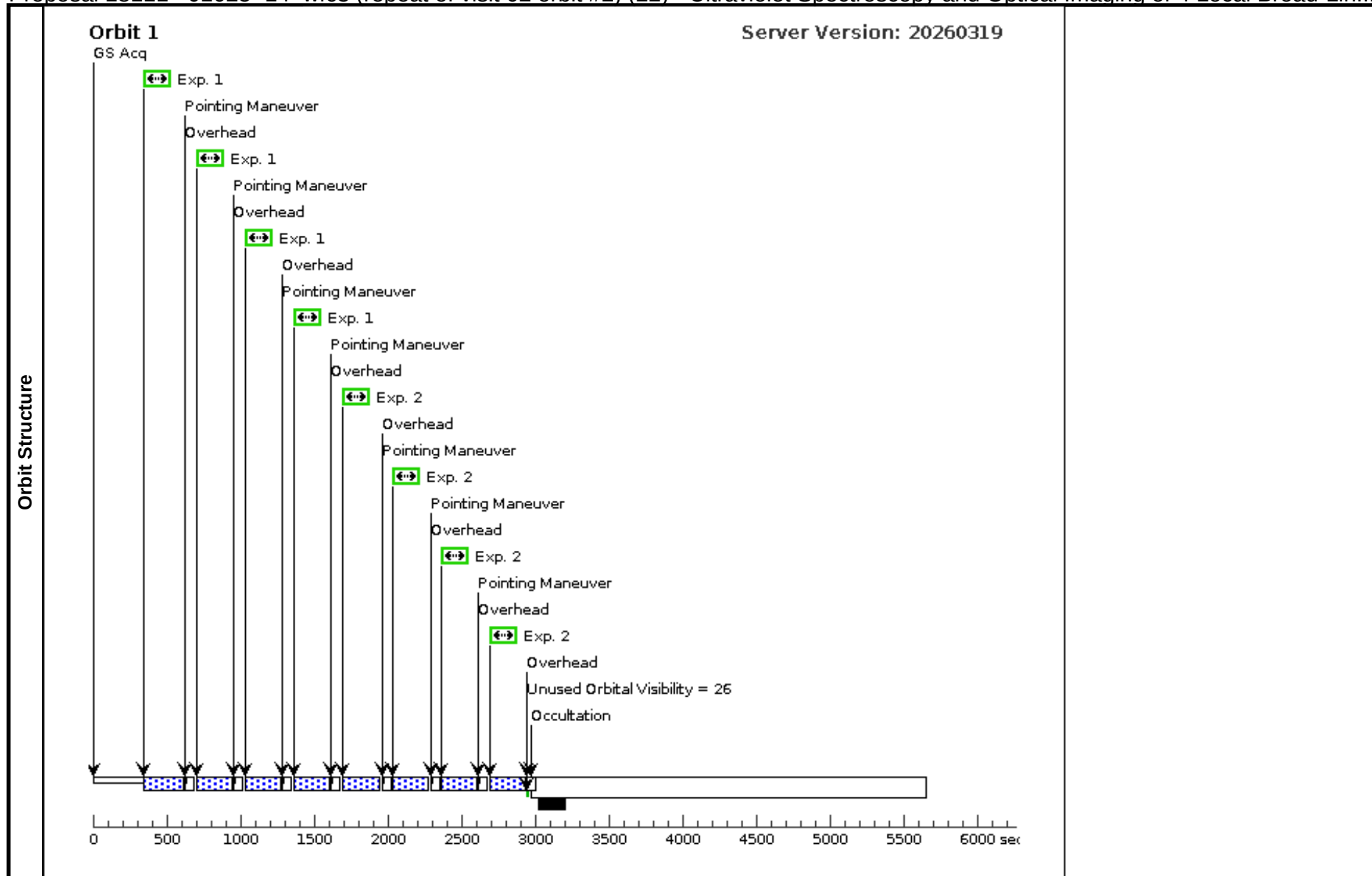
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Fixed Targets	#	Name	Target Coordinates			Targ. Coord. Corrections			Fluxes		Miscellaneous		
	(2)	WISEA-J102530.29+140207.4	RA: 10 25 30.2928 (156.3762200d) Dec: +14 02 7.37 (14.03538d) Equinox: J2000			Proper Motion RA: 0 Proper Motion Dec: 0			V=19.8+/-0.1		Reference Frame: ICRS		
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Exposures	#	Label	Target	Config,Mode,Aperture		Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]		Orbit	
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										[==>548 Secs (Pattern 1)] [==>548 Secs (Pattern 2)] [==>548 Secs (Pattern 3)] [==>548 Secs (Pattern 4)]		[1]	
	2		(2) WISEA-J102530.29+140207.4	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB		F475W	FLASH=14		Pattern 2, Exps 2-2 in J1025+14_wfc3 (02) (2)	236 Secs (960 Secs)			
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	3		(2) WISEA-J102530.29+140207.4	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB		F850LP	FLASH=21		Pattern 2, Exps 3-3 in J1025+14_wfc3 (02) (2)	236 Secs (960 Secs)			
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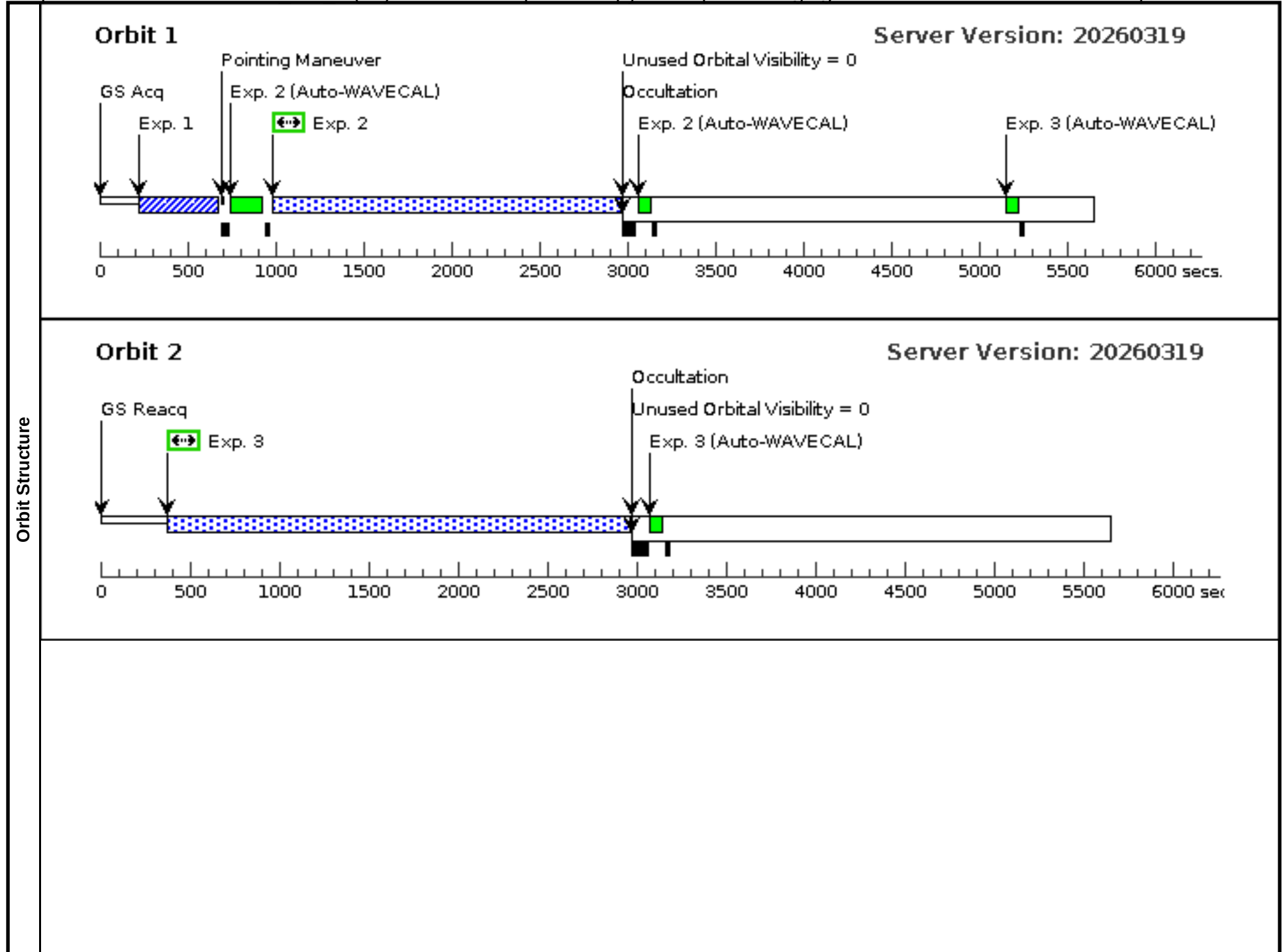
Proposal 18111 - J1025+14_wfc3 (repeat of visit 02 orbit #2) (22) - Ultraviolet Spectroscopy and Optical Imaging of 4 Local Broad-Lin...

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	Scientific Instruments: WFC3/UVIS												
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Patterns	#	Primary Pattern					Secondary Pattern					Exposures	
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Fixed Targets	#	Name		Target Coordinates		Targ. Coord. Corrections		Fluxes		Miscellaneous			
	(2)	WISEA-J102530.29+140207.4		RA: 10 25 30.2928 (156.3762200d) Dec: +14 02 7.37 (14.03538d) Equinox: J2000		Proper Motion RA: 0 Proper Motion Dec: 0		V=19.8+/-0.1		Reference Frame: ICRS			
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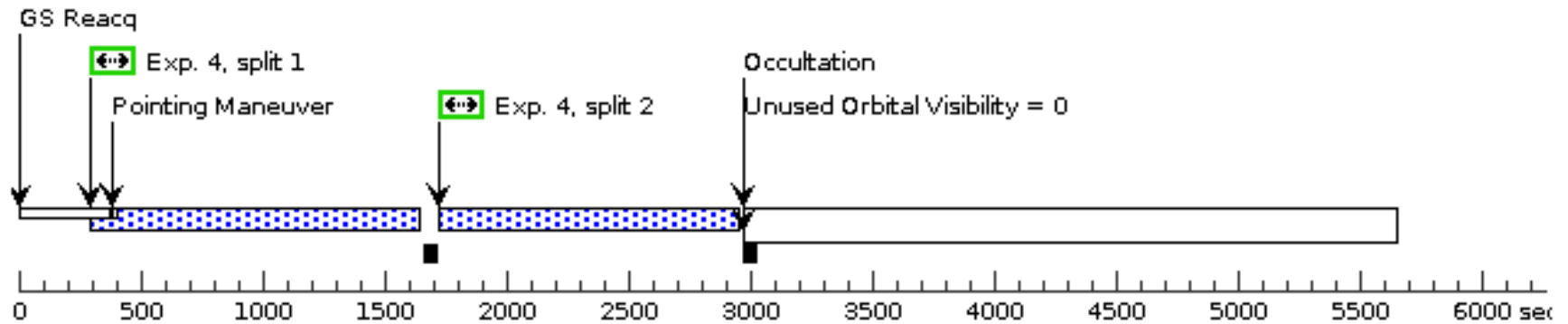
Proposal 18111 - SHOC-029 cos 1 (03) - Ultraviolet Spectroscopy and Optical Imaging of 4 Local Broad-Line Blue Compact Galaxies...

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	(3)	SHOC-029	RA: 00 45 29.1456 (11.3714400d) Dec: +13 39 8.68 (13.65241d) Equinox: J2000	Proper Motion RA: 0 Proper Motion Dec: 0		V=21.1+/-0.1		Reference Frame: ICRS		
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Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
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	4	exp3 (COS.sp.191 9964)	(3) SHOC-029	COS/FUV, TIME-TAG, PSA	G160M 1589 A	BUFFER-TIME=3000; FP-POS=ALL			2400 Secs (4754 Secs)	
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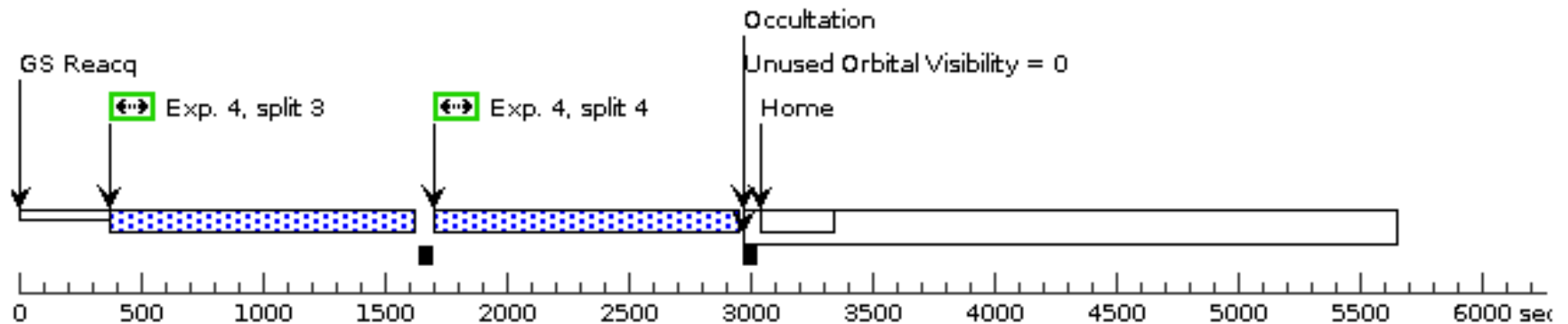
Orbit 3

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Orbit 4

Server Version: 20260319

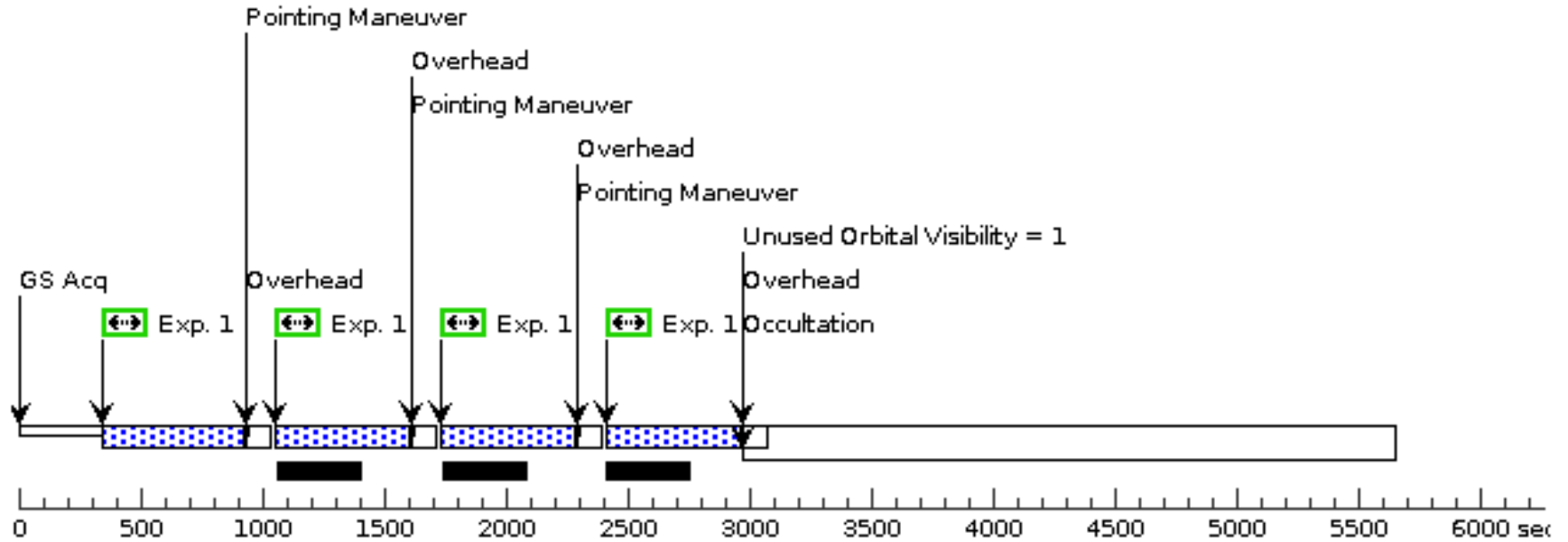


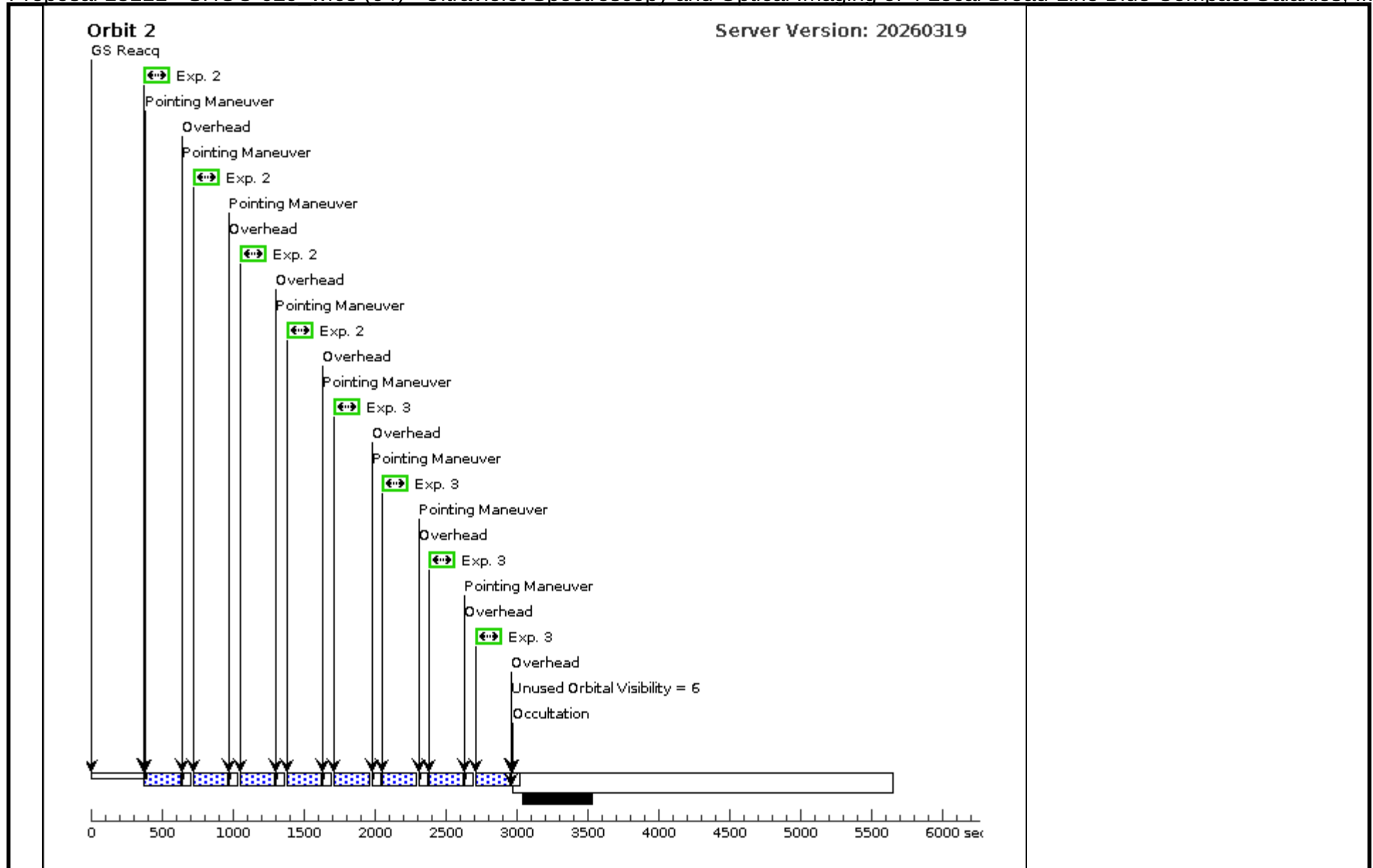
Proposal 18111 - SHOC-029 wfc3 (04) - Ultraviolet Spectroscopy and Optical Imaging of 4 Local Broad-Line Blue Compact Galaxies, ...

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Fixed Targets	#	Name	Target Coordinates		Targ. Coord. Corrections		Fluxes		Miscellaneous	
	(3)	SHOC-029	RA: 00 45 29.1456 (11.3714400d) Dec: +13 39 8.68 (13.65241d) Equinox: J2000		Proper Motion RA: 0 Proper Motion Dec: 0		V=21.1+/-0.1		Reference Frame: ICRS	
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	1		(3) SHOC-029	WFC3/UVIS, ACCUM, UVIS2-C1K1C-CTE	F300X	FLASH=14		Pattern 2, Exps 1-1 in SHOC-029_wfc3 (04) (2)	500 Secs (2192 Secs)	
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	2		(3) SHOC-029	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F475W	FLASH=14		Pattern 2, Exps 2-2 in SHOC-029_wfc3 (04) (2)	500 Secs (960 Secs)	
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3		(3) SHOC-029	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F850LP	FLASH=21		Pattern 2, Exps 3-3 in SHOC-029_wfc3 (04) (2)	500 Secs (960 Secs)		
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Orbit 1

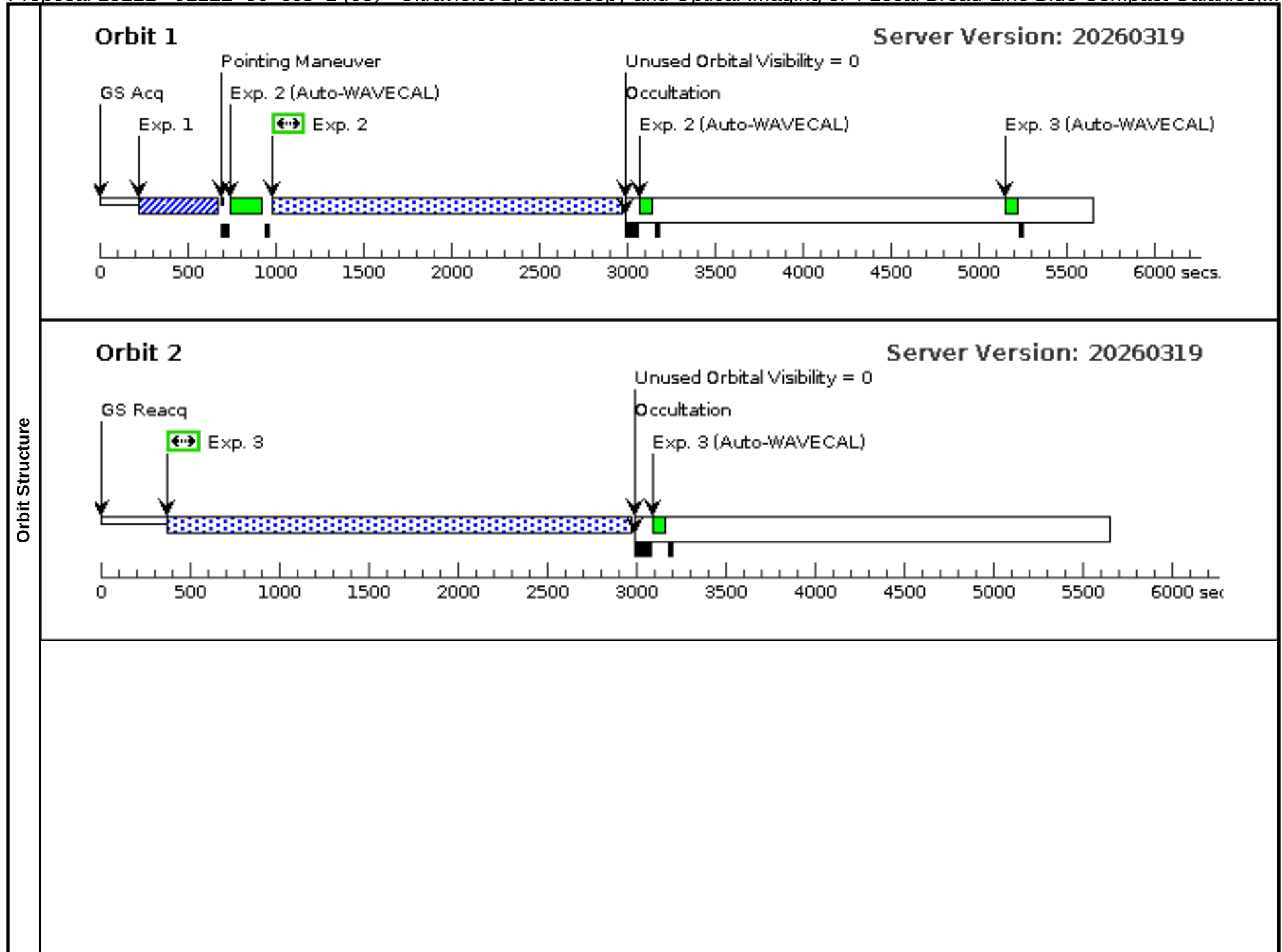
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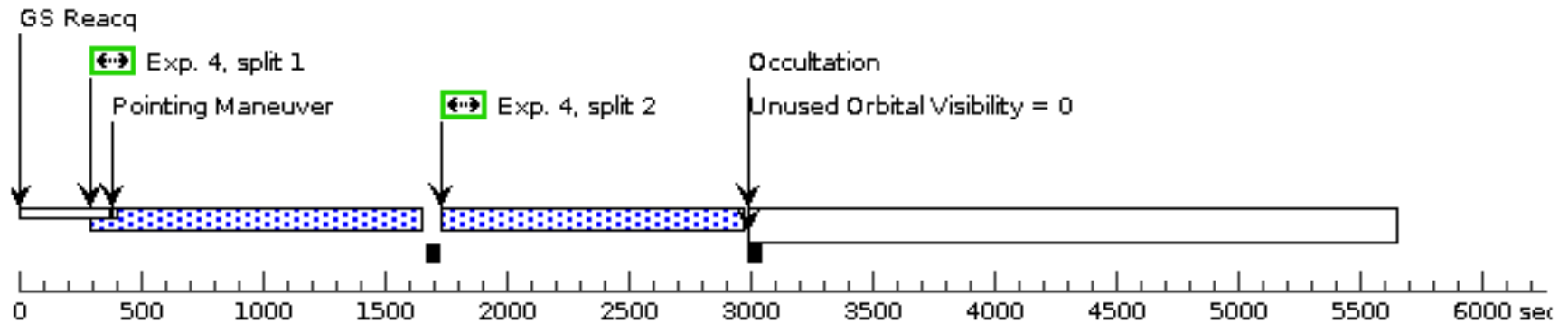
Proposal 18111 - J1222+36 cos 1 (05) - Ultraviolet Spectroscopy and Optical Imaging of 4 Local Broad-Line Blue Compact Galaxies,...

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	(4)	WISEA-J122245.69+360218.6	RA: 12 22 45.7200 (185.6905000d) Dec: +36 02 18.42 (36.03845d) Equinox: J2000	Proper Motion RA: 0 Proper Motion Dec: 0	V=20.6+/-0.1	Reference Frame: ICRS				
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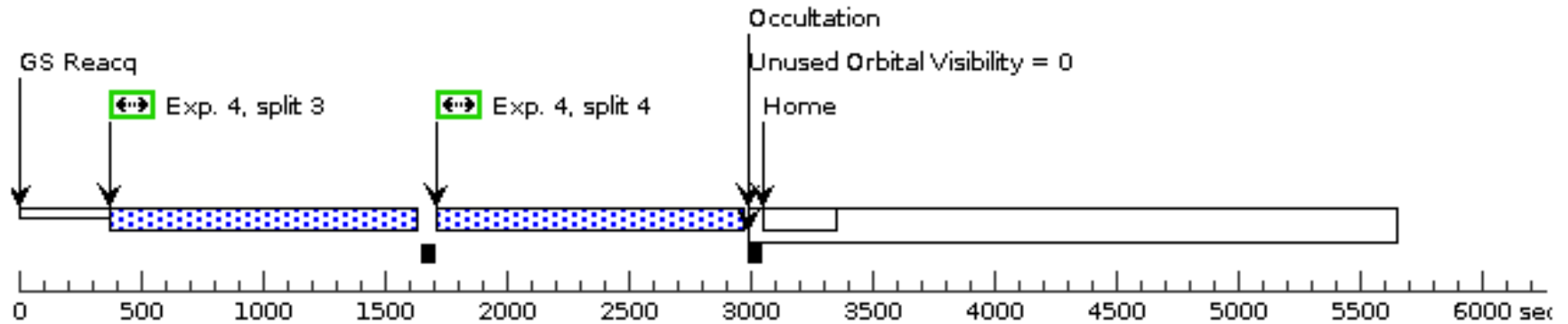
Orbit 3

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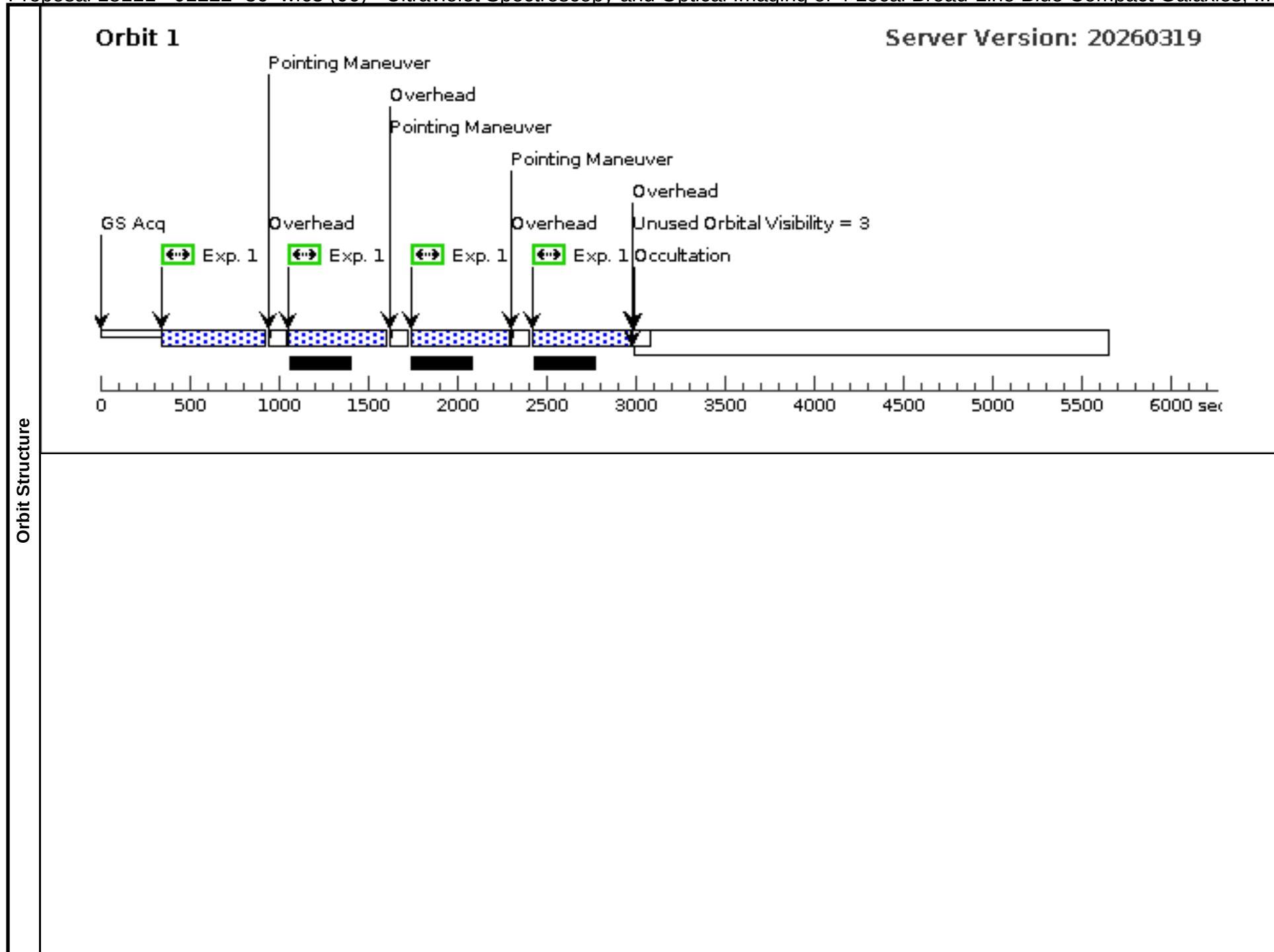
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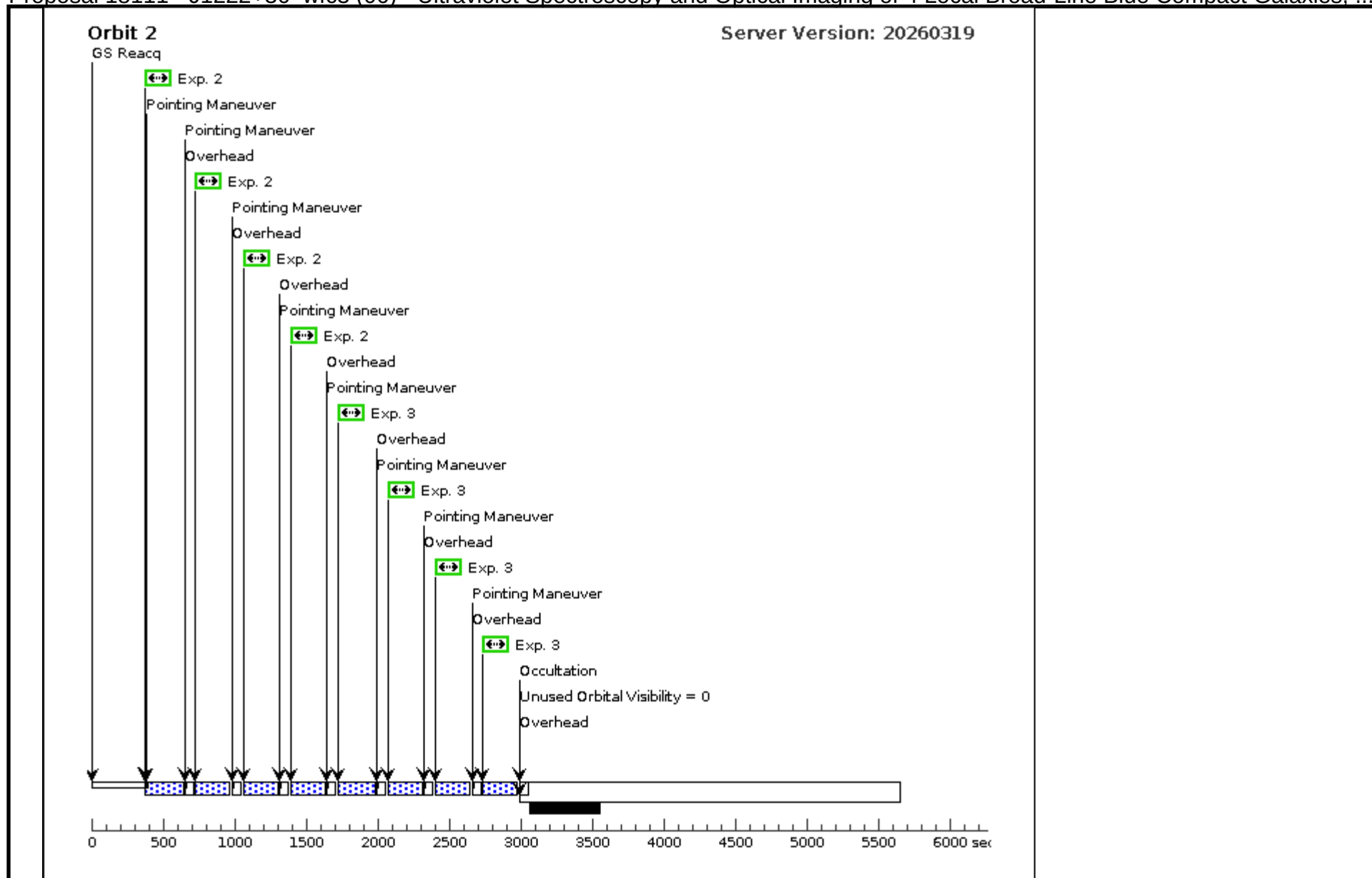
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Proposal 18111 - J1222+36_wfc3 (06) - Ultraviolet Spectroscopy and Optical Imaging of 4 Local Broad-Line Blue Compact Galaxies, ...

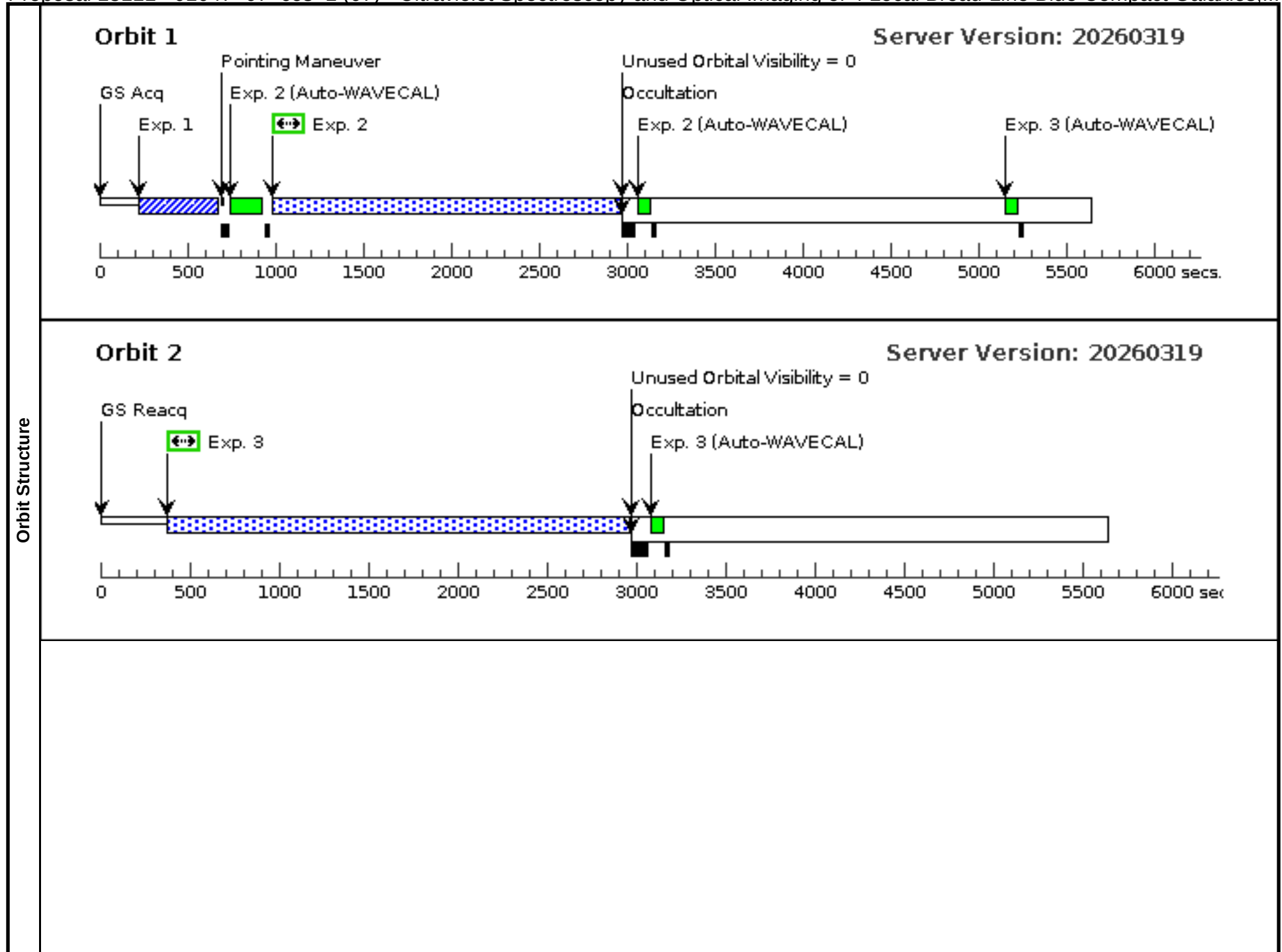
Visit	Proposal 18111, J1222+36_wfc3 (06), scheduling					Fri Jun 12 14:01:18 GMT 2026						
	Diagnostic Status: No Diagnostics											
	Scientific Instruments: WFC3/UVIS											
	Special Requirements: (none)											
Patterns	#	Primary Pattern				Secondary Pattern				Exposures		
	(2)	Pattern 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)		
Fixed Targets	#	Name	Target Coordinates		Targ. Coord. Corrections		Fluxes		Miscellaneous			
	(4)	WISEA-J122245.69+360218.6	RA: 12 22 45.7200 (185.6905000d) Dec: +36 02 18.42 (36.03845d) Equinox: J2000		Proper Motion RA: 0 Proper Motion Dec: 0		V=20.6+/-0.1		Reference Frame: ICRS			
	Comments: This object was generated by the targetselector and retrieved from the NED database.											
	Category=GALAXY Description=[DWARF COMPACT] Extended=NO											
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]		Orbit	
	1		(4) WISEA-J122245.69+360218.6	WFC3/UVIS, ACCUM, UVIS2-C1K1C-CTE	F300X	FLASH=14		Pattern 2, Exps 1-1 in J1222+36_wfc3 (06) (2)	500 Secs (2208 Secs)		[1]	
									[==>552.0 Secs (Pattern 1)]			
									[==>552.0 Secs (Pattern 2)]			
									[==>552.0 Secs (Pattern 3)]			
									[==>552.0 Secs (Pattern 4)]			
	2		(4) WISEA-J122245.69+360218.6	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F475W	FLASH=14		Pattern 2, Exps 2-2 in J1222+36_wfc3 (06) (2)	500 Secs (972 Secs)		[2]	
								[==>243.0 Secs (Pattern 1)]				
								[==>243.0 Secs (Pattern 2)]				
								[==>243.0 Secs (Pattern 3)]				
								[==>243.0 Secs (Pattern 4)]				
3		(4) WISEA-J122245.69+360218.6	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F850LP	FLASH=21		Pattern 2, Exps 3-3 in J1222+36_wfc3 (06) (2)	500 Secs (972 Secs)		[2]		
								[==>243.0 Secs (Pattern 1)]				
								[==>243.0 Secs (Pattern 2)]				
								[==>243.0 Secs (Pattern 3)]				
								[==>243.0 Secs (Pattern 4)]				





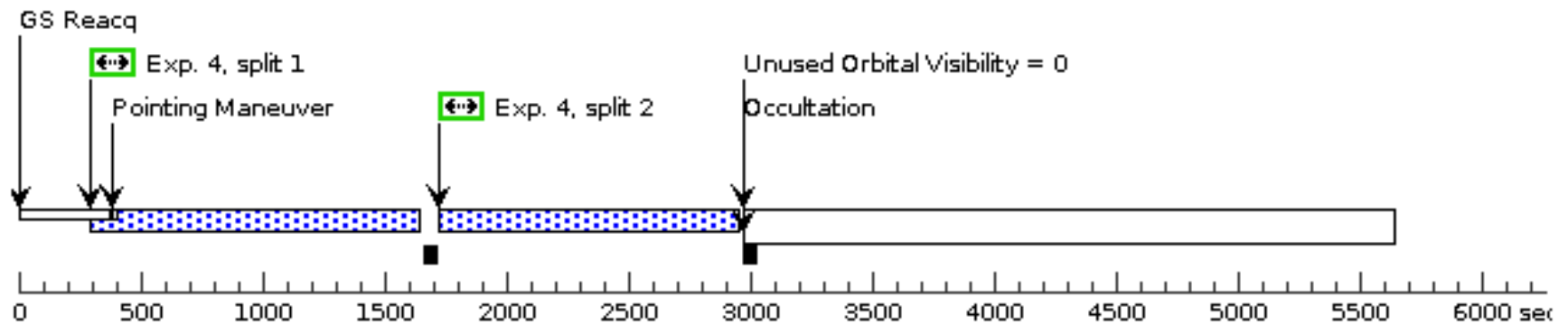
Proposal 18111 - J1047+07 cos 1 (07) - Ultraviolet Spectroscopy and Optical Imaging of 4 Local Broad-Line Blue Compact Galaxies,...

Visit	Proposal 18111, J1047+07_cos_1 (07), implementation								Fri Jun 12 14:01:18 GMT 2026	
	Diagnostic Status: No Diagnostics									
	Scientific Instruments: COS/FUV, COS/NUV									
	Special Requirements: (none)									
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(1)	WISEA-J104755.92+073951.2	RA: 10 47 55.9224 (161.9830100d) Dec: +07 39 51.23 (7.66423d) Equinox: J2000	Proper Motion RA: 0 Proper Motion Dec: 0	V=19.4+/-0.1	Reference Frame: ICRS				
	Comments: This object was generated by the targetselector and retrieved from the NED database.									
	Category=GALAXY Description=[DWARF COMPACT] Extended=NO									
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	acq (COS.sp.191 9964)	(1) WISEA-J104755. 92+073951.2	COS/NUV, ACQ/IMAGE, PSA	MIRRORA				120 Secs (120 Secs)	
									[==>]	[1]
	2	exp1 (COS.sp.191 9964)	(1) WISEA-J104755. 92+073951.2	COS/FUV, TIME-TAG, PSA	G130M 1291 A	SEGMENT=BOTH; BUFFER-TIME=3000; FLASH=YES; FP-POS=3			2000 Secs (1927 Secs)	
									[==>1927.0 Secs]	[1]
	3	exp2 (COS.sp.191 9964)	(1) WISEA-J104755. 92+073951.2	COS/FUV, TIME-TAG, PSA	G130M 1291 A	SEGMENT=BOTH; BUFFER-TIME=3000; FLASH=YES; FP-POS=4			2400 Secs (2537 Secs)	
									[==>2537.0 Secs]	[2]
	4	exp3 (COS.sp.191 9964)	(1) WISEA-J104755. 92+073951.2	COS/FUV, TIME-TAG, PSA	G160M 1589 A	BUFFER-TIME=3000; FP-POS=ALL			2400 Secs (4760 Secs)	
									[==>1180 Secs (Split 1)]	[3]
									[==>1181 Secs (Split 2)]	
								[==>1199 Secs (Split 3)]		
								[==>1200 Secs (Split 4)]	[4]	



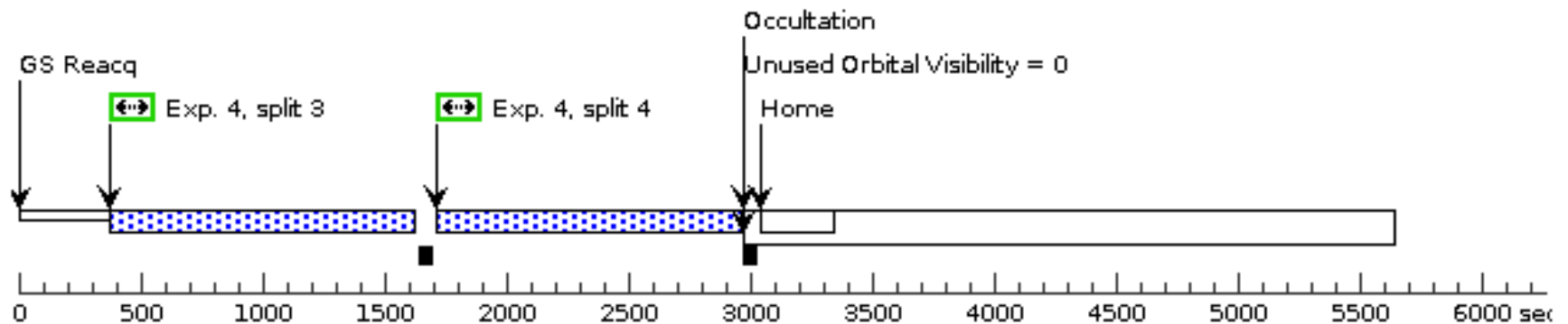
Orbit 3

Server Version: 20260319



Orbit 4

Server Version: 20260319



Proposal 18111 - J1047+07 wfc3 (08) - Ultraviolet Spectroscopy and Optical Imaging of 4 Local Broad-Line Blue Compact Galaxies, ...

Visit	Proposal 18111, J1047+07_wfc3 (08), scheduling										Fri Jun 12 14:01:18 GMT 2026		
	Diagnostic Status: No Diagnostics												
	Scientific Instruments: WFC3/UVIS												
	Special Requirements: (none)												
Patterns	#	Primary Pattern					Secondary Pattern					Exposures	
	(2)	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)	
Fixed Targets	#	Name	Target Coordinates			Targ. Coord. Corrections			Fluxes		Miscellaneous		
	(1)	WISEA-J104755.92+073951.2	RA: 10 47 55.9224 (161.9830100d) Dec: +07 39 51.23 (7.66423d) Equinox: J2000			Proper Motion RA: 0 Proper Motion Dec: 0			V=19.4+/-0.1		Reference Frame: ICRS		
	Comments: This object was generated by the targetselector and retrieved from the NED database.												
	Category=GALAXY Description=[DWARF COMPACT] Extended=NO												
Exposures	#	Label	Target	Config,Mode,Aperture		Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]		Orbit	
	1		(1) WISEA-J104755.92+073951.2	WFC3/UVIS, ACCUM, UVIS2-C1K1C-CTE		F300X	FLASH=14		Pattern 2, Exps 1-1 in J1047+07_wfc3 (08) (2)	500 Secs (2192 Secs)			
										[==>548.0 Secs (Pattern 1)] [==>548.0 Secs (Pattern 2)] [==>548.0 Secs (Pattern 3)] [==>548.0 Secs (Pattern 4)]		[1]	
	2		(1) WISEA-J104755.92+073951.2	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB		F475W	FLASH=14		Pattern 2, Exps 2-2 in J1047+07_wfc3 (08) (2)	500 Secs (964 Secs)			
										[==>241.0 Secs (Pattern 1)] [==>241.0 Secs (Pattern 2)] [==>241.0 Secs (Pattern 3)] [==>241.0 Secs (Pattern 4)]		[2]	
	3		(1) WISEA-J104755.92+073951.2	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB		F850LP	FLASH=21		Pattern 2, Exps 3-3 in J1047+07_wfc3 (08) (2)	500 Secs (964 Secs)			
										[==>241.0 Secs (Pattern 1)] [==>241.0 Secs (Pattern 2)] [==>241.0 Secs (Pattern 3)] [==>241.0 Secs (Pattern 4)]		[2]	

