



18076 - Unveiling the Circumgalactic Medium of M33: A Study of Satellite-Host Interactions in the Local Group

Cycle: 33, Proposal Category: GO

(UV Initiative)

(Availability Mode: SUPPORTED)

INVESTIGATORS

<i>Name</i>	<i>Institution</i>
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Dr. Frances H. Cashman (CoI)	Presbyterian College
Dr. Nicolas Lehner (CoI)	University of Notre Dame
Dr. Scott Lucchini (CoI)	Center for Astrophysics Harvard & Smithsonian
Dr. Adam Smercina (CoI)	Space Telescope Science Institute
Cameron Trapp (CoI)	University of California - San Diego
Dr. Jason Tumlinson (CoI)	Space Telescope Science Institute
Dr. Anna Wright (CoI)	The Johns Hopkins University

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) SDSSJ013803.57+304026.1	COS/FUV COS/NUV	3	31-Oct-2025 15:00:51.0	yes
02	(1) SDSSJ013803.57+304026.1	COS/FUV COS/NUV	3	31-Oct-2025 15:00:52.0	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>
03	(1) SDSSJ013803.57+304026.1	COS/FUV COS/NUV	3	31-Oct-2025 15:00:53.0	yes
04	(2) SDSSJ012657.02+315353.0	COS/FUV COS/NUV	3	31-Oct-2025 15:00:55.0	yes
05	(2) SDSSJ012657.02+315353.0	COS/FUV COS/NUV	2	31-Oct-2025 15:00:56.0	yes
06	(2) SDSSJ012657.02+315353.0	COS/FUV COS/NUV	2	31-Oct-2025 15:00:56.0	yes
07	(3) SDSSJ012007.00+285826.6	COS/FUV COS/NUV	3	31-Oct-2025 15:00:57.0	yes
08	(3) SDSSJ012007.00+285826.6	COS/FUV COS/NUV	3	31-Oct-2025 15:00:58.0	yes
09	(3) SDSSJ012007.00+285826.6	COS/FUV COS/NUV	3	31-Oct-2025 15:01:00.0	yes
10	(4) SDSSJ015356.31+305306.4	COS/FUV COS/NUV	3	31-Oct-2025 15:01:01.0	yes
11	(4) SDSSJ015356.31+305306.4	COS/FUV COS/NUV	2	31-Oct-2025 15:01:02.0	yes

30 Total Orbits Used

ABSTRACT

Satellite galaxies are cosmic storytellers, revealing how galaxies collide, evolve, and grow. Interactions with their hosts through ram-pressure and tidal stripping--can rapidly quench star formation. However, the circumgalactic medium (CGM), which serves as a protective outer envelope, remains largely unexplored for satellite galaxies, with the Large Magellanic Cloud (LMC) being the only well-studied case. We propose to study the CGM of the Triangulum Galaxy (M33), the most massive satellite of Andromeda (M31) and an analog to the LMC. We request 30 orbits of HST/COS G130M spectroscopy to observe four new quasars. Combining with two archival sightlines, we will map M33's inner CGM (within 0.5 Rvir). Our goals are to: (1) determine if M33 hosts its own CGM or it has merged into M31's CGM, (2) compare it with the LMC to assess how environment and infall history shape CGM evolution, and (3) test predictions from simulations of satellite CGM evolution. This research offers a

unique opportunity to advance our understanding of how feedback, host mass, and orbit influence satellite CGMs through direct observational constraints beyond the Milky Way.

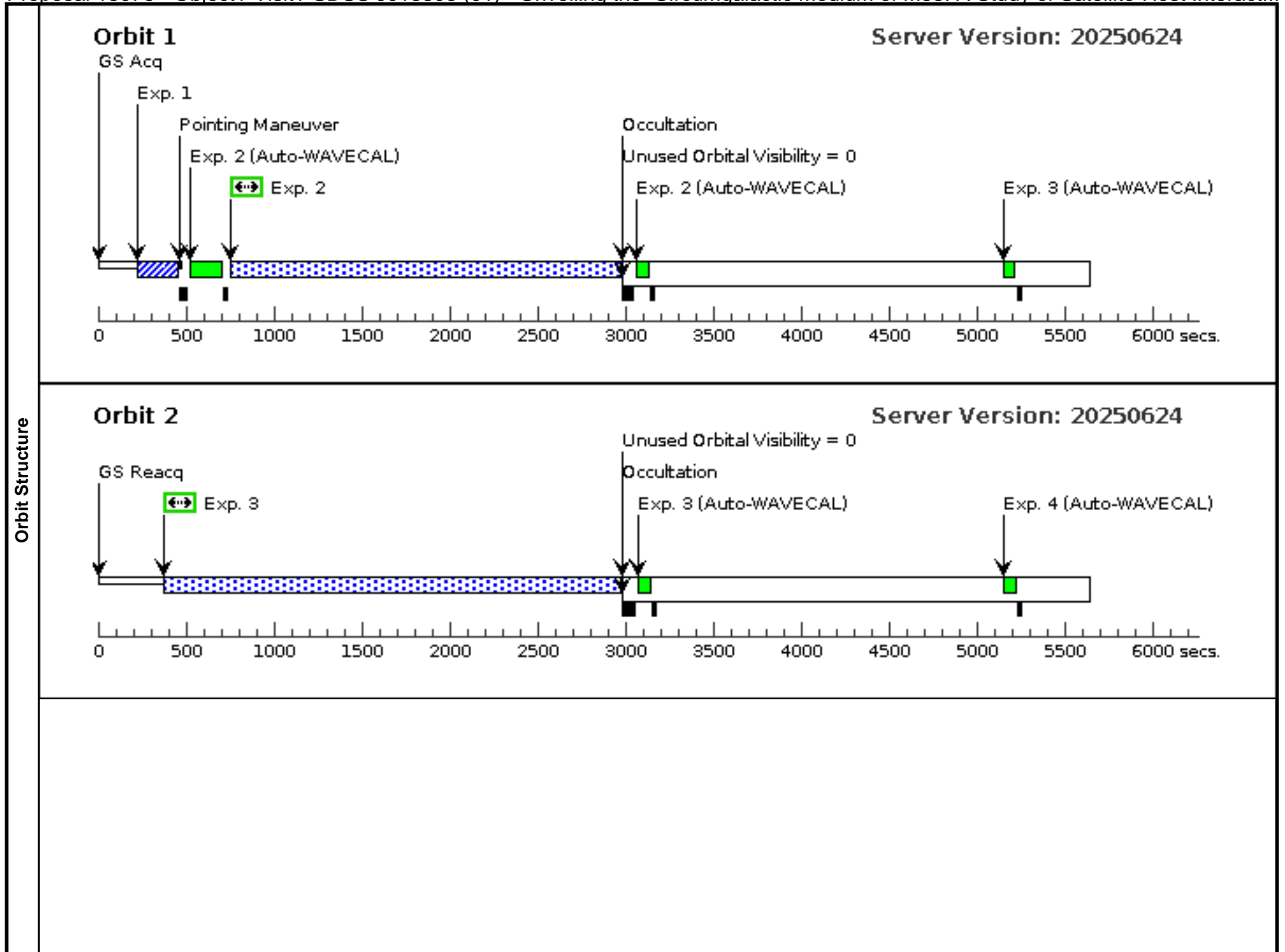
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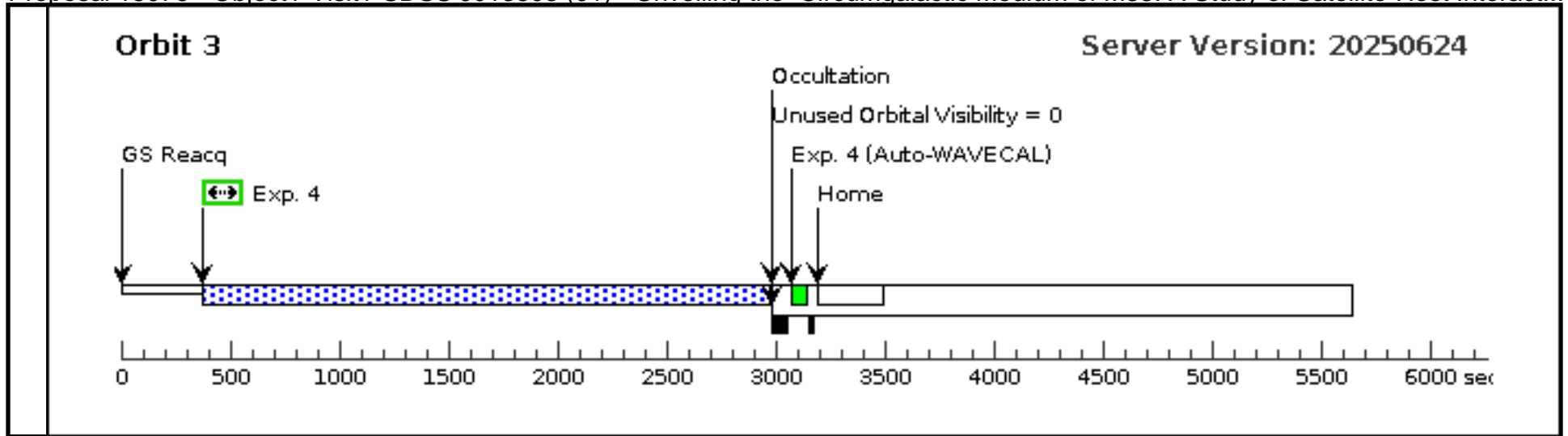
This is a COS FUV program to observe four QSO targets probing the halo of the M33 galaxy. The science goal is find out if M33 has its own CGM or it is merged with that of M31. I will use UV metal absorption lines in the spectra of G130M spectra of these quasars. The targets will be acquired with a NUV ACQ/IMAGE with the PSA and MIRRORA (object 1,2, 4) MIRRORB (object 4), followed by science observations with the G130M/1291 setting. We used two FP-POS 3 and 4 in each visit. These four objects are spread across 11 visits. All visits are up to 3 orbits in length, following the guidance from the PC.

Proposal 18076 - Object1-Visit1-SDSS J013803 (01) - Unveiling the Circumgalactic Medium of M33: A Study of Satellite-Host Interact...

Fri Oct 31 19:01:02 GMT 2025

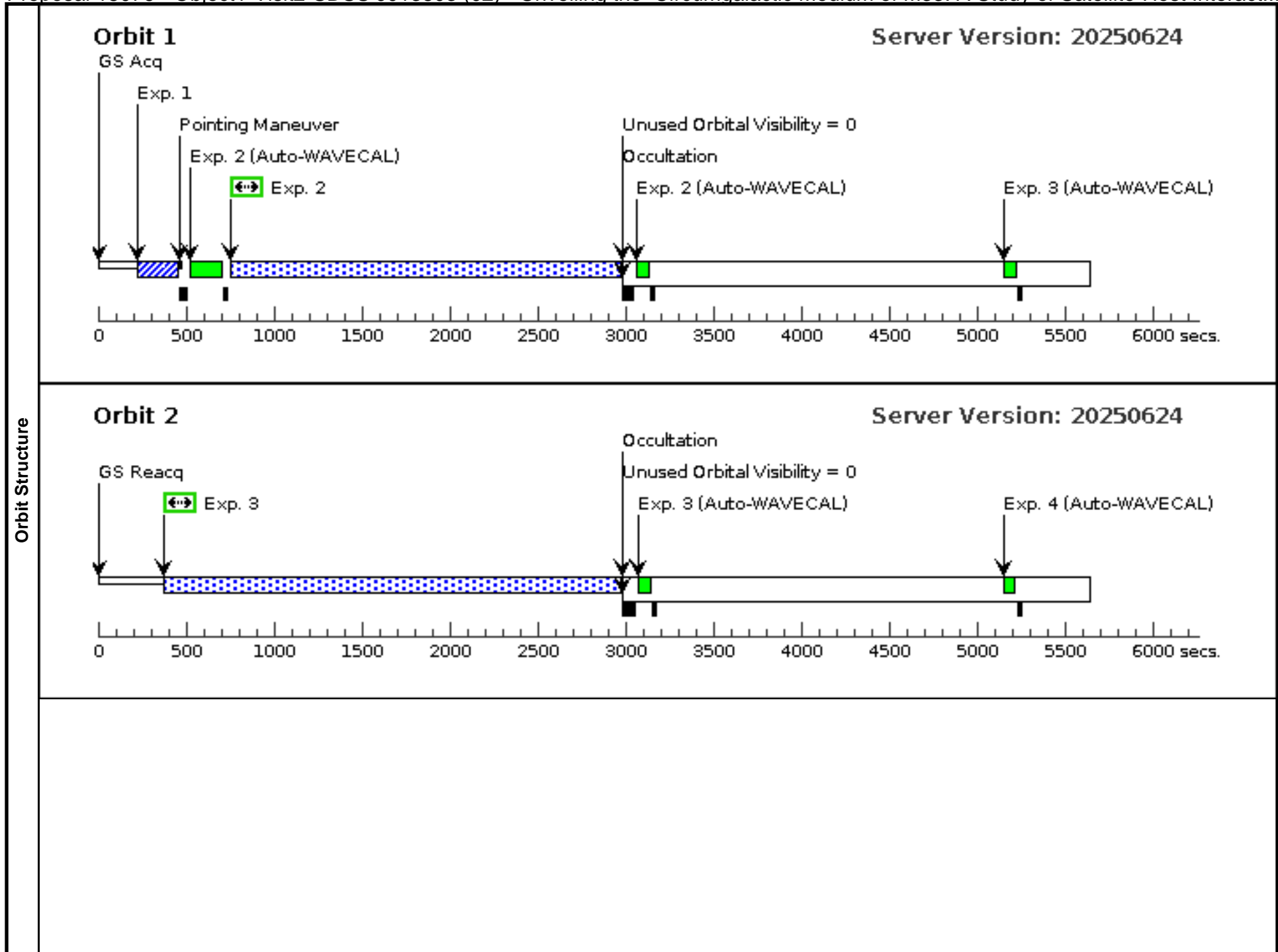
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	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous			
		(1)	SDSSJ013803.57+304026.1	RA: 01 38 3.5794 (24.5149142d) Dec: +30 40 26.21 (30.67395d) Equinox: J2000	Epoch of Position: 2000 Redshift: 0.335	V=18.132710 19.09 (FUV)	Reference Frame: ICRS			
	<i>Comments: magnitude is in G-band</i> <i>Category=ISM</i> <i>Description=[ABSORPTION LINE SYSTEM, ABSORPTION LINE SYSTEM - EXTRAGALACTIC, ABSORPTION LINE SYSTEM - GALACTIC, HALO]</i> <i>Extended=NO</i>									
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	ACQ/IMAG (2216189)	(1) SDSSJ013803.57 +304026.1	COS/NUV, ACQ/IMAGE, PSA	MIRRORA				6 Secs (6 Secs) [==>]	[1]
	<i>Comments: NUV mag = 18.9134</i>									
	2	G130M/129 1-FPPOS3 (1961024)	(1) SDSSJ013803.57 +304026.1	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=3; BUFFER-TIME=43 07			2165 Secs (2165 Secs) [==>]	[1]
	3	G130M/129 1-FPPOS3 (1961024)	(1) SDSSJ013803.57 +304026.1	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=3; BUFFER-TIME=43 07			2547 Secs (2547 Secs) [==>]	[2]
4	G130M/129 1-FPPOS4 (1961024)	(1) SDSSJ013803.57 +304026.1	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=4; BUFFER-TIME=43 07			2547 Secs (2547 Secs) [==>]	[3]	

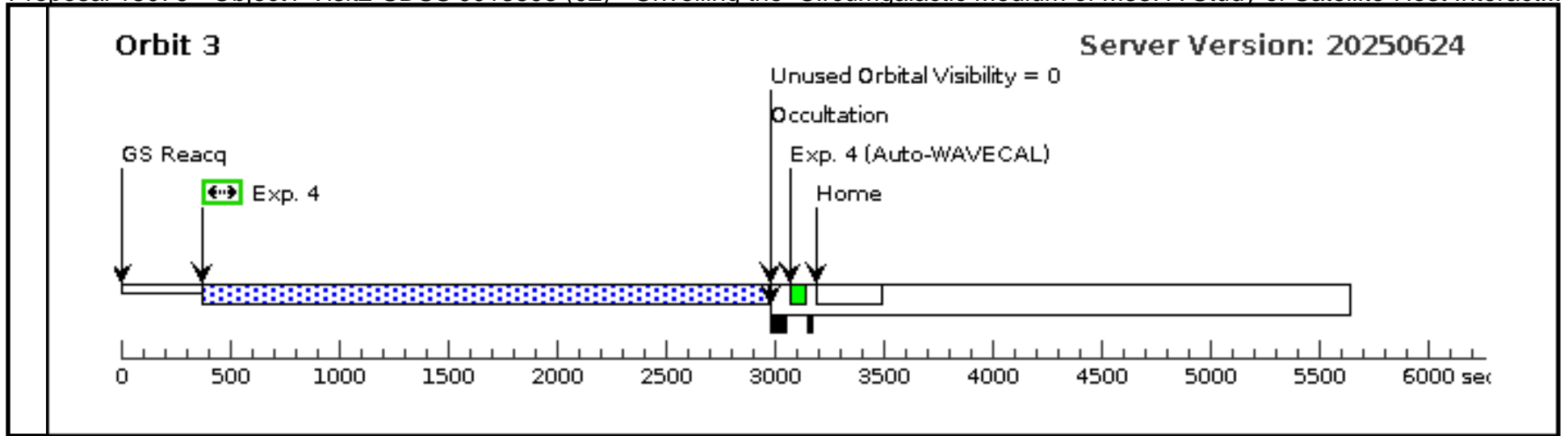




Proposal 18076 - Object1-Visit2-SDSS J013803 (02) - Unveiling the Circumgalactic Medium of M33: A Study of Satellite-Host Interact...

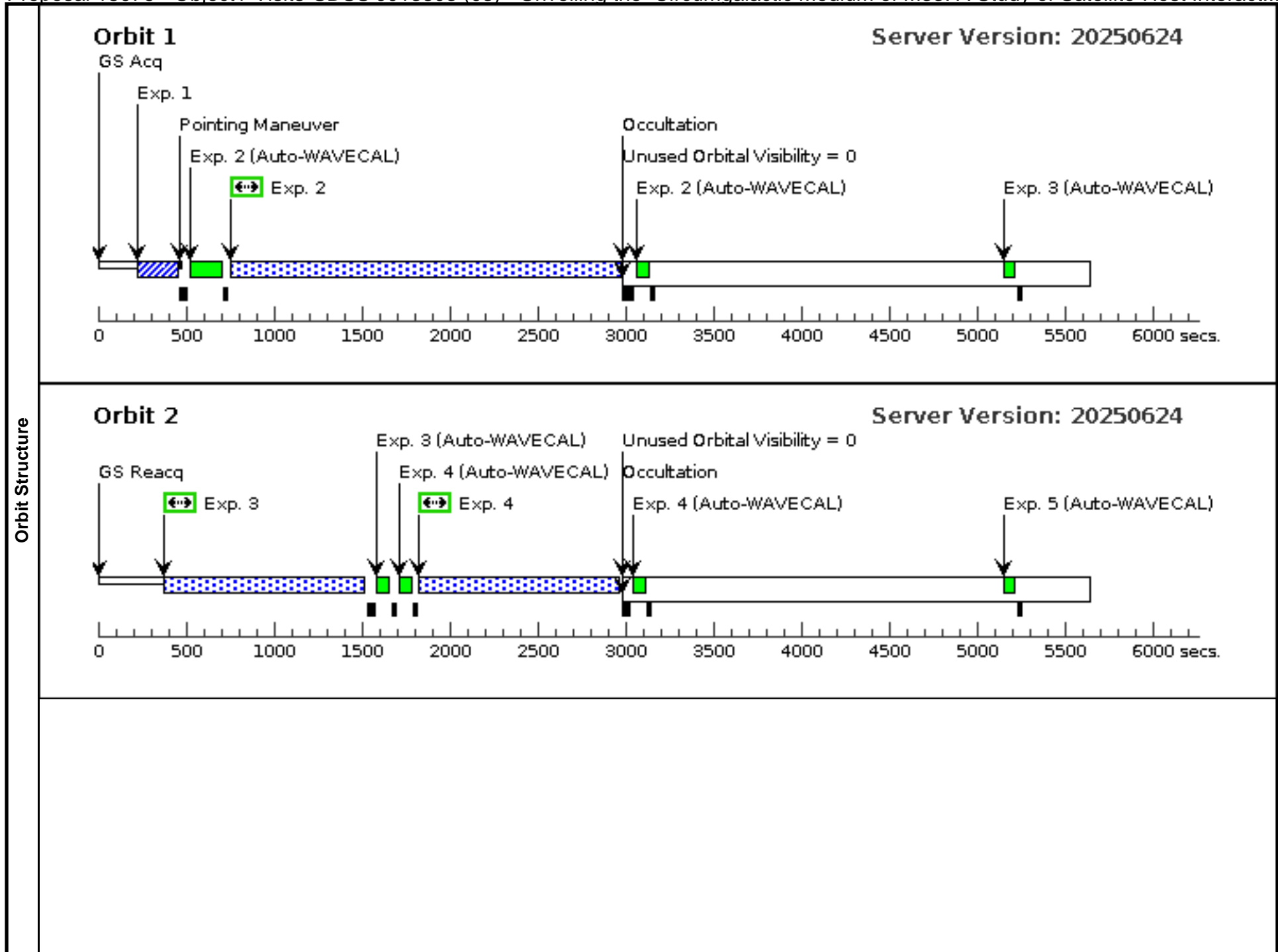
Visit	Proposal 18076, Object1-Visit2-SDSS J013803 (02), implementation Fri Oct 31 19:01:02 GMT 2025 Diagnostic Status: No Diagnostics Scientific Instruments: COS/FUV, COS/NUV Special Requirements: (none)																																																												
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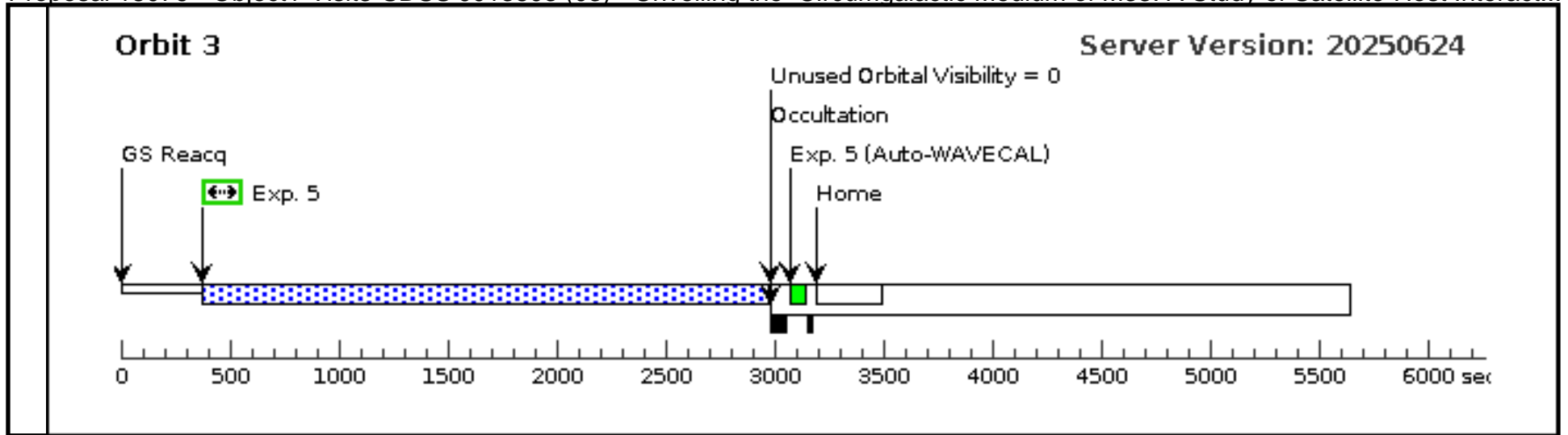




Proposal 18076 - Object1-Visit3-SDSS J013803 (03) - Unveiling the Circumgalactic Medium of M33: A Study of Satellite-Host Interact...

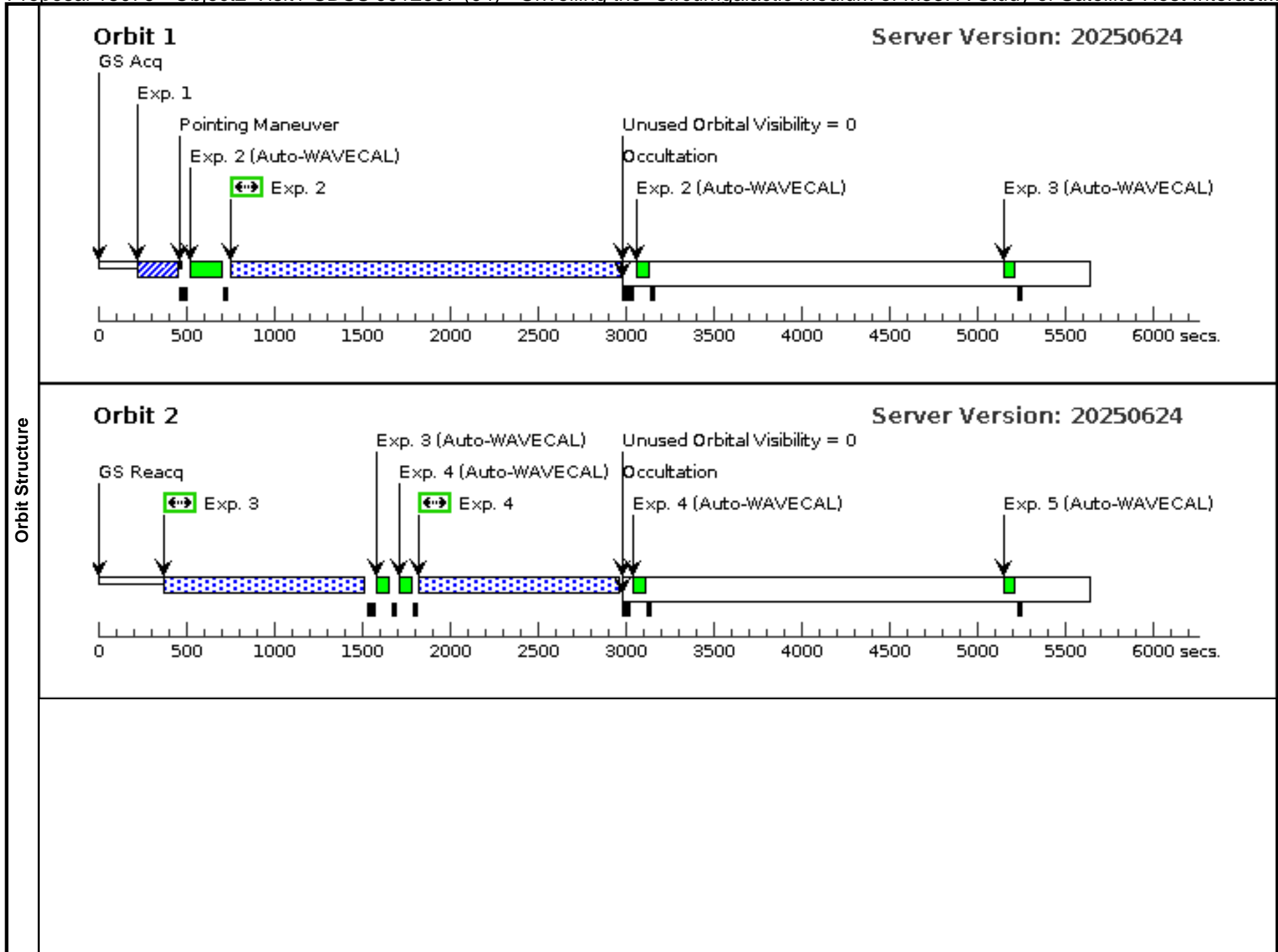
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Fixed Targets		Diagnostic Status: No Diagnostics Scientific Instruments: COS/FUV, COS/NUV Special Requirements: (none)									
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		<i>Comments: NUV mag = 18.9134</i>									
		2	G130M/129 1-FPPOS3 (1961024)	(1) SDSSJ013803.57 +304026.1	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=3; BUFFER-TIME=43 07			2165 Secs (2165 Secs) [==>]	[1]
		3	G130M/129 1-FPPOS3 (1961024)	(1) SDSSJ013803.57 +304026.1	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=3; BUFFER-TIME=43 07			1092 Secs (1092 Secs) [==>]	[2]
		4	G130M/129 1-FPPOS4 (1961024)	(1) SDSSJ013803.57 +304026.1	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=4; BUFFER-TIME=43 07			1092 Secs (1092 Secs) [==>]	[2]
		5	G130M/129 1-FPPOS4 (1961024)	(1) SDSSJ013803.57 +304026.1	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=4; BUFFER-TIME=43 07			2547 Secs (2547 Secs) [==>]	[3]

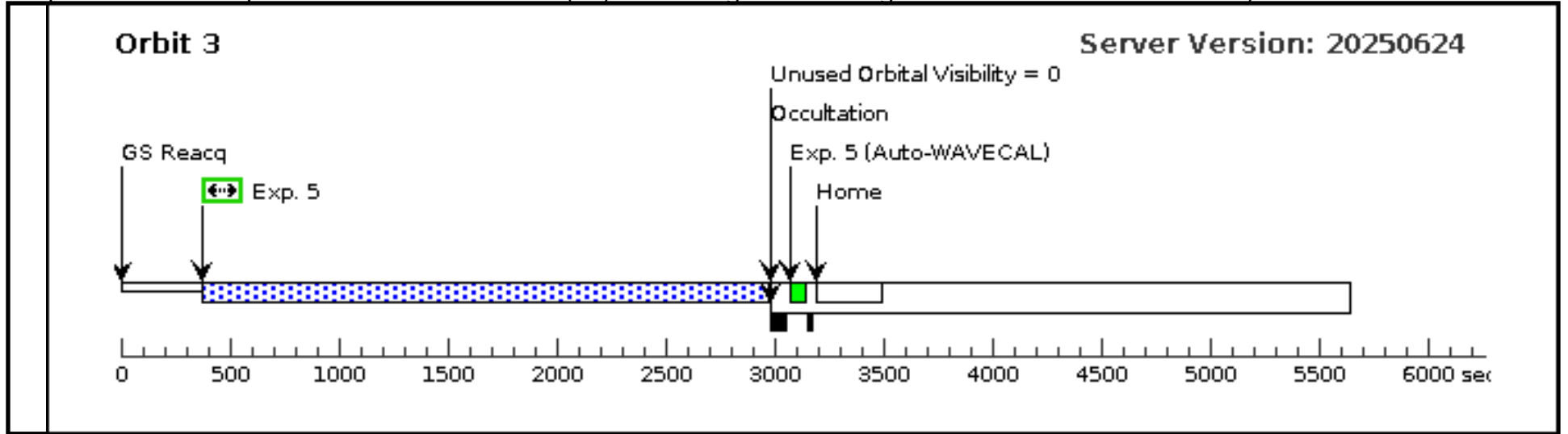




Proposal 18076 - Object2-Visit1-SDSS J012657 (04) - Unveiling the Circumgalactic Medium of M33: A Study of Satellite-Host Interact...

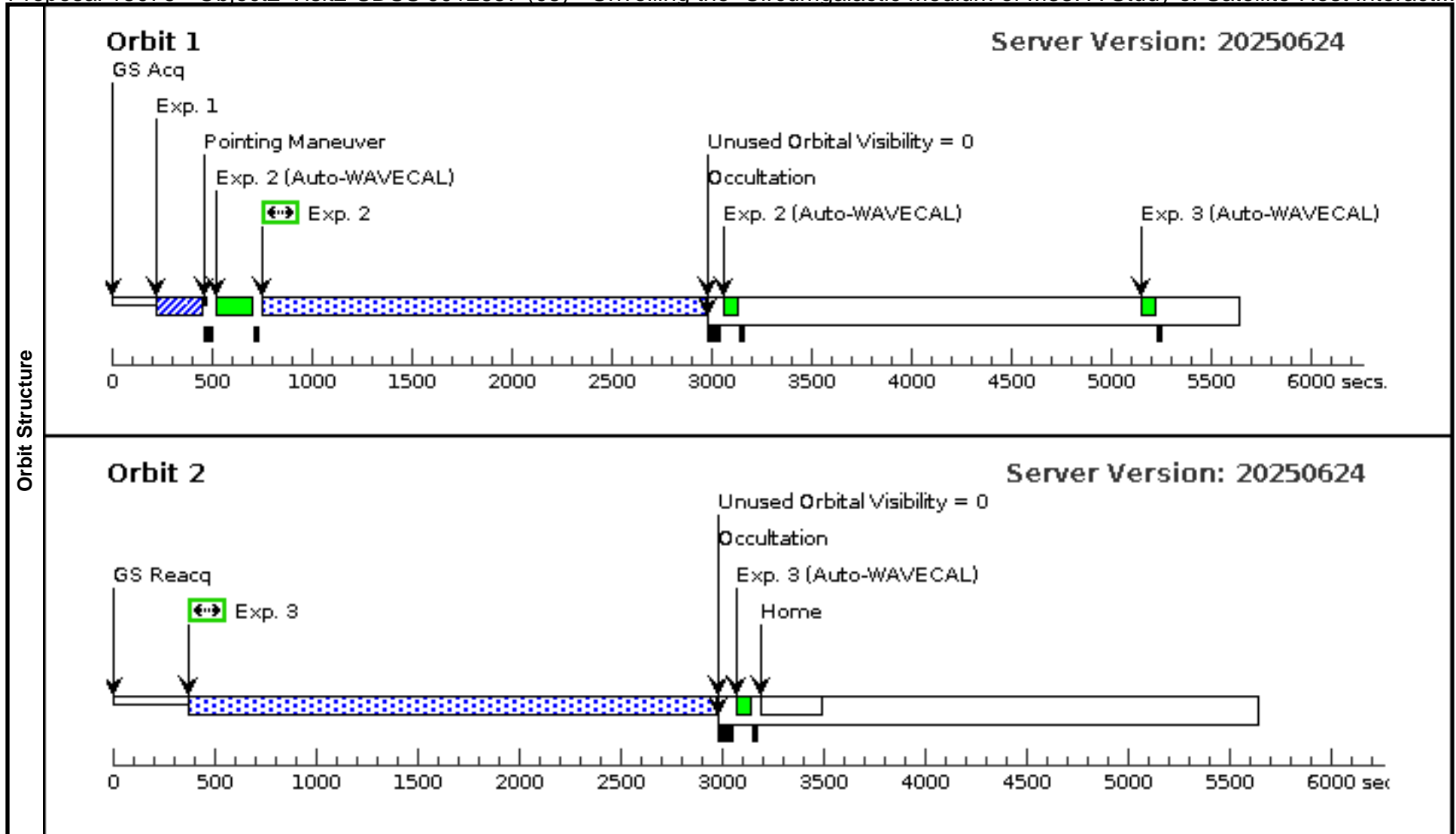
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		1	ACQ/IMAG (2216194)	(2) SDSSJ012657.02 +315353.0	COS/NUV, ACQ/IMAGE, PSA	MIRRORA				6 Secs (6 Secs) [==>]	[1]
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		3	G130M/129 1-FPPOS3 (1961026)	(2) SDSSJ012657.02 +315353.0	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=3; BUFFER-TIME=42 86			1092 Secs (1092 Secs) [==>]	[2]
		4	G130M/129 1-FPPOS4 (1961026)	(2) SDSSJ012657.02 +315353.0	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=4; BUFFER-TIME=42 86			1092 Secs (1092 Secs) [==>]	[2]
		5	G130M/129 1-FPPOS4 (1961026)	(2) SDSSJ012657.02 +315353.0	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=4; BUFFER-TIME=42 86			2547 Secs (2547 Secs) [==>]	[3]





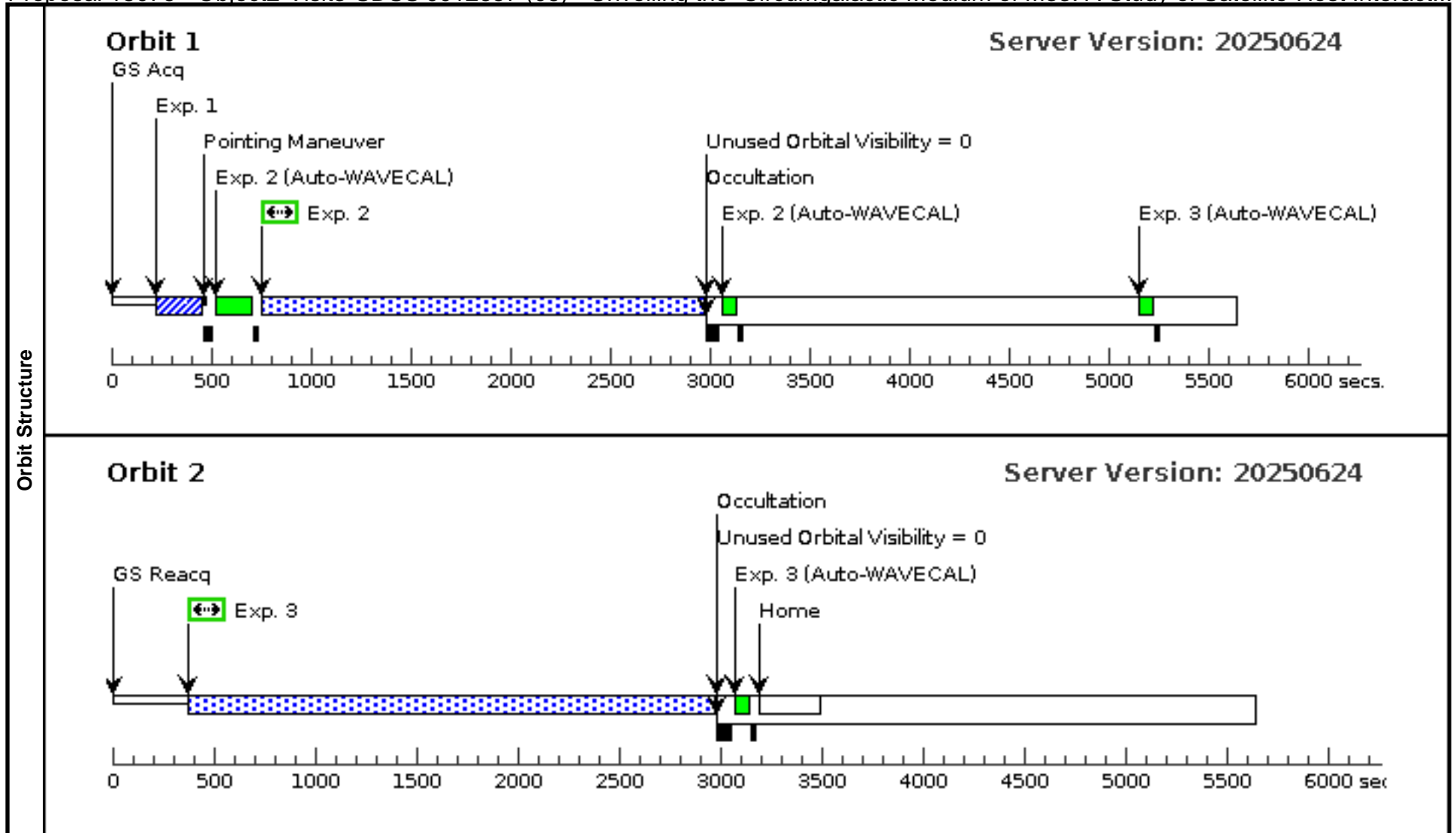
Proposal 18076 - Object2-Visit2-SDSS J012657 (05) - Unveiling the Circumgalactic Medium of M33: A Study of Satellite-Host Interact...

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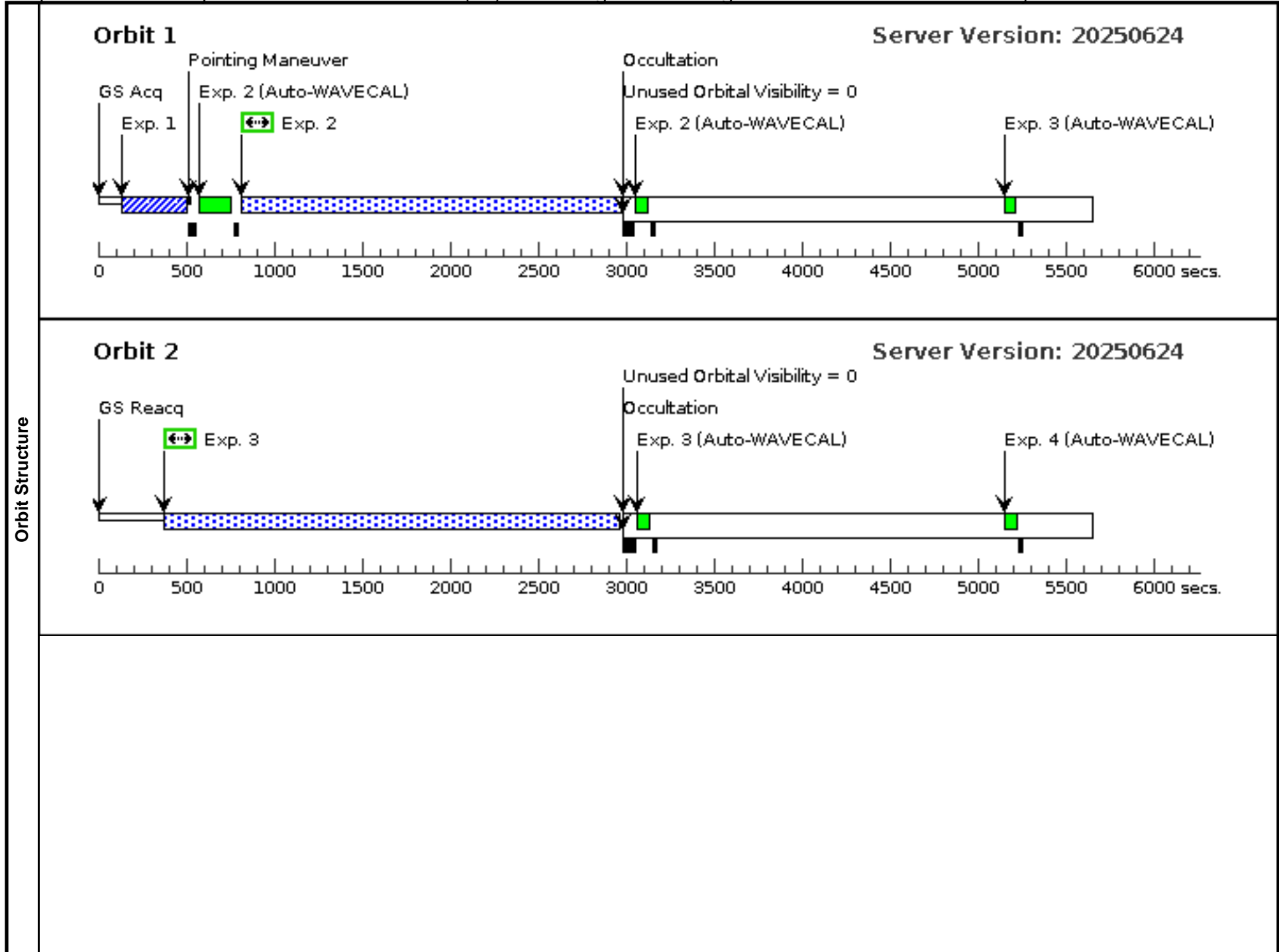
Proposal 18076 - Object2-Visit3-SDSS J012657 (06) - Unveiling the Circumgalactic Medium of M33: A Study of Satellite-Host Interact...

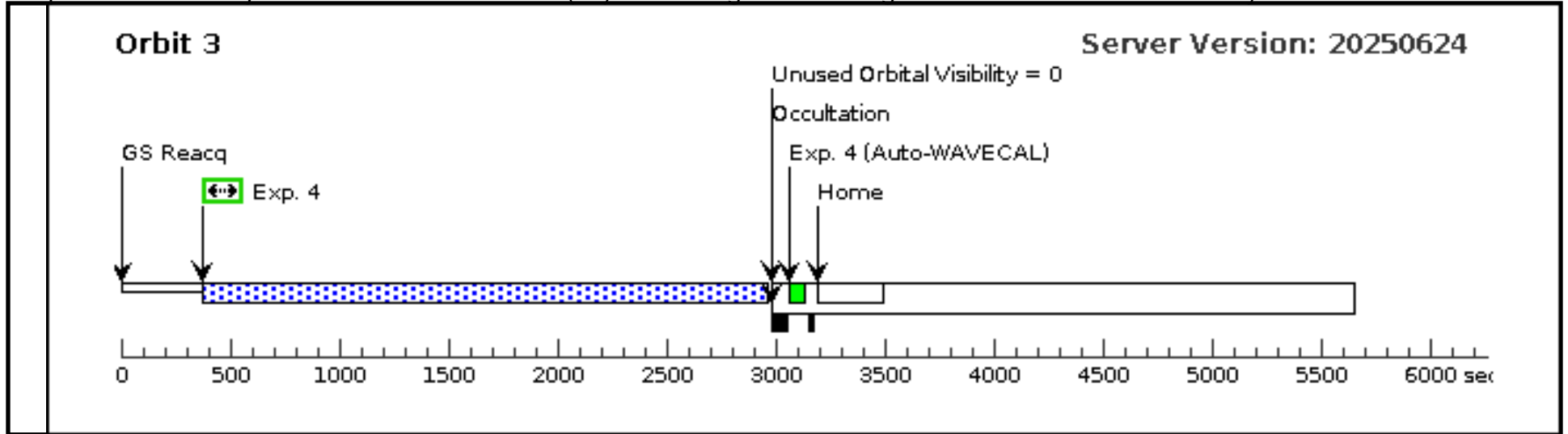
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Proposal 18076 - Object3-Visit1-SDSS J012007 (07) - Unveiling the Circumgalactic Medium of M33: A Study of Satellite-Host Interact...

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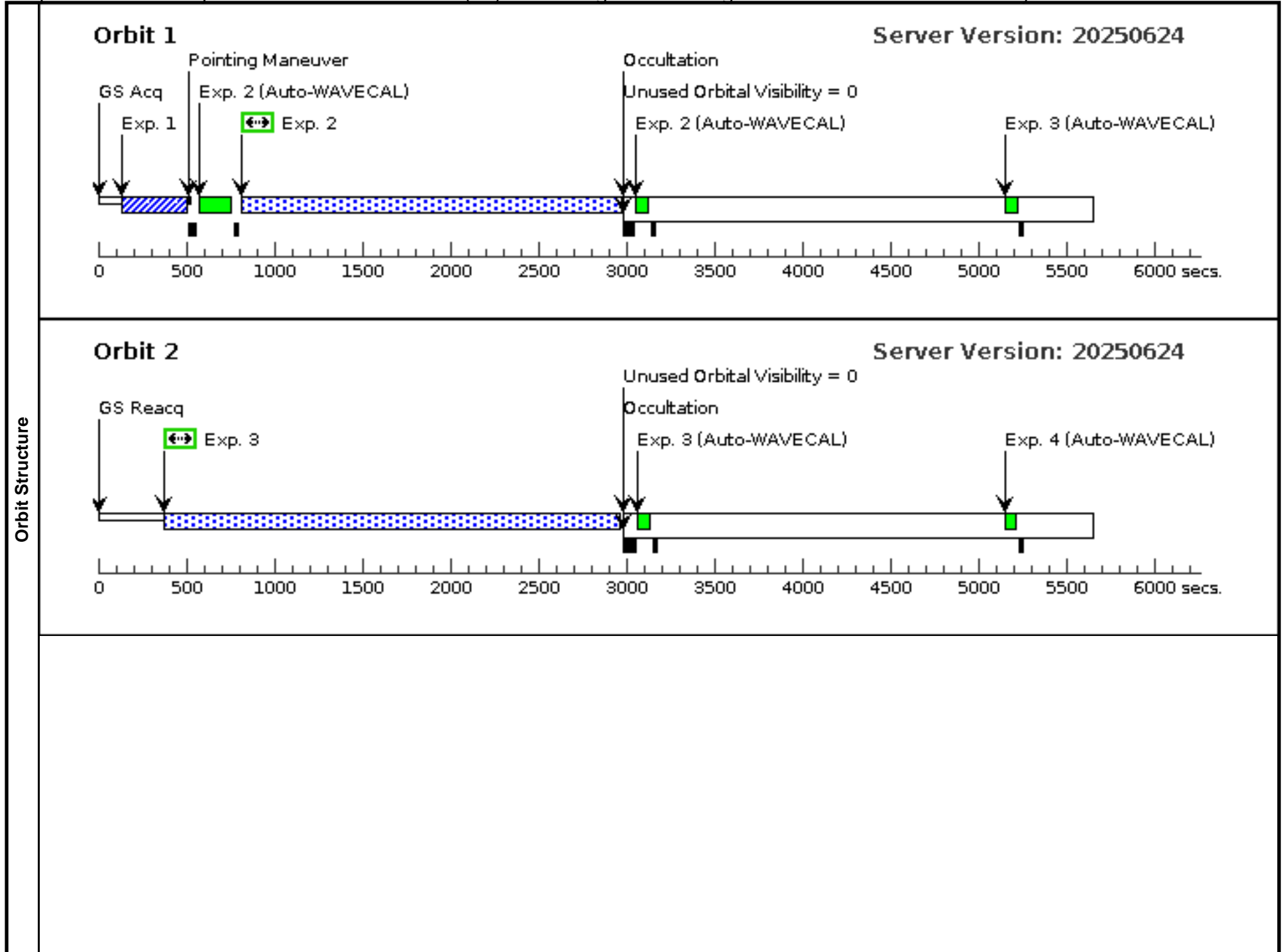


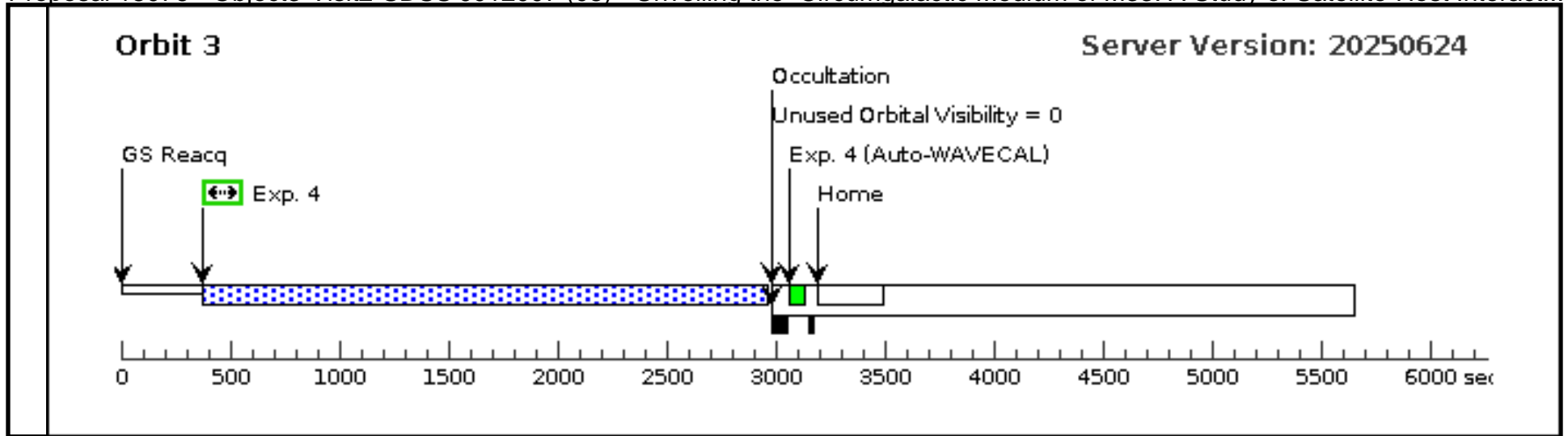


Proposal 18076 - Object3-Visit2-SDSS J012007 (08) - Unveiling the Circumgalactic Medium of M33: A Study of Satellite-Host Interact...

Fri Oct 31 19:01:03 GMT 2025

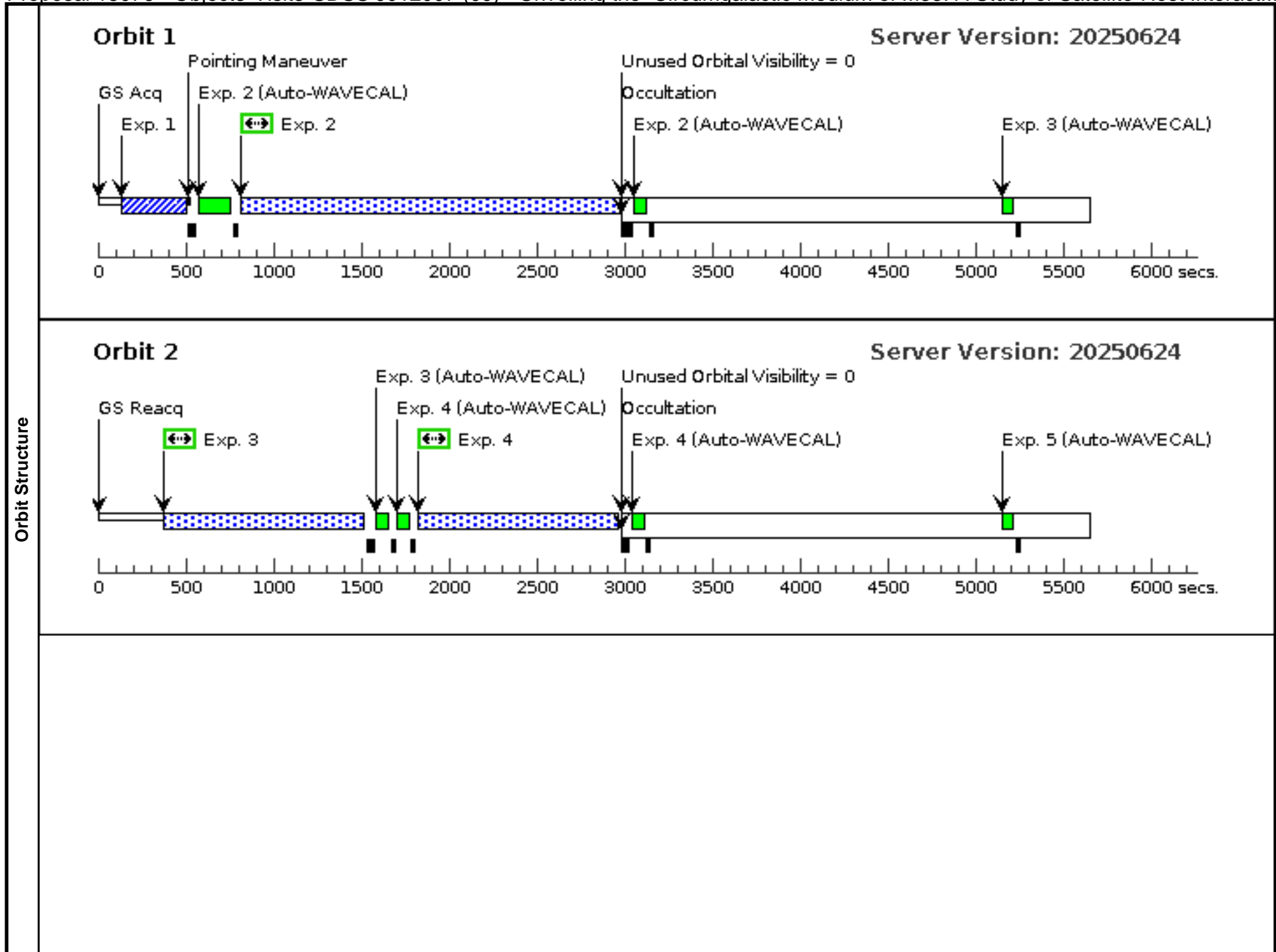
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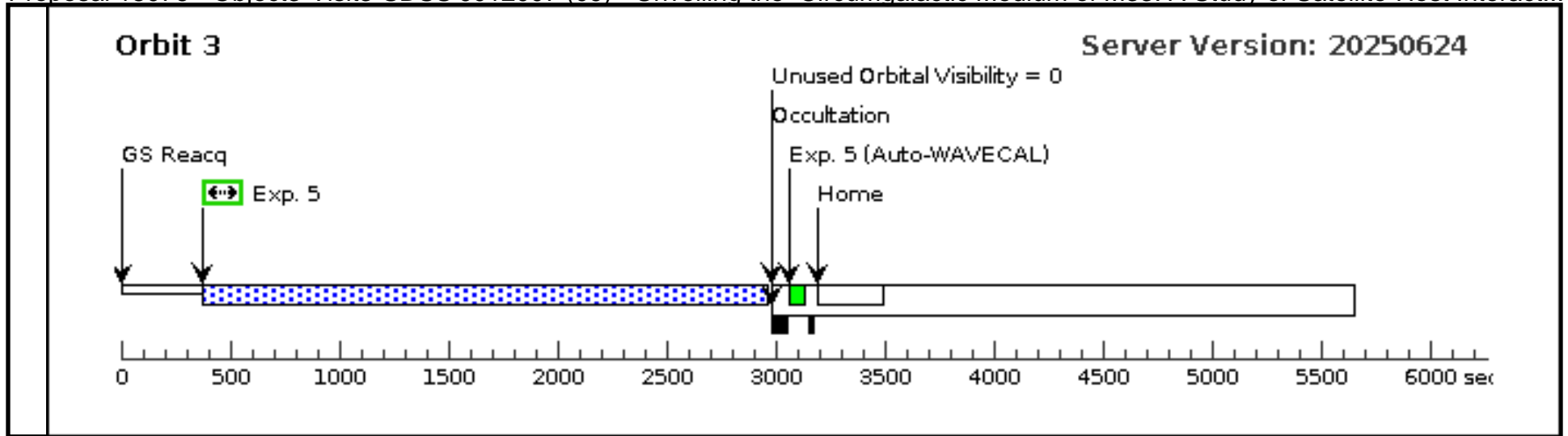




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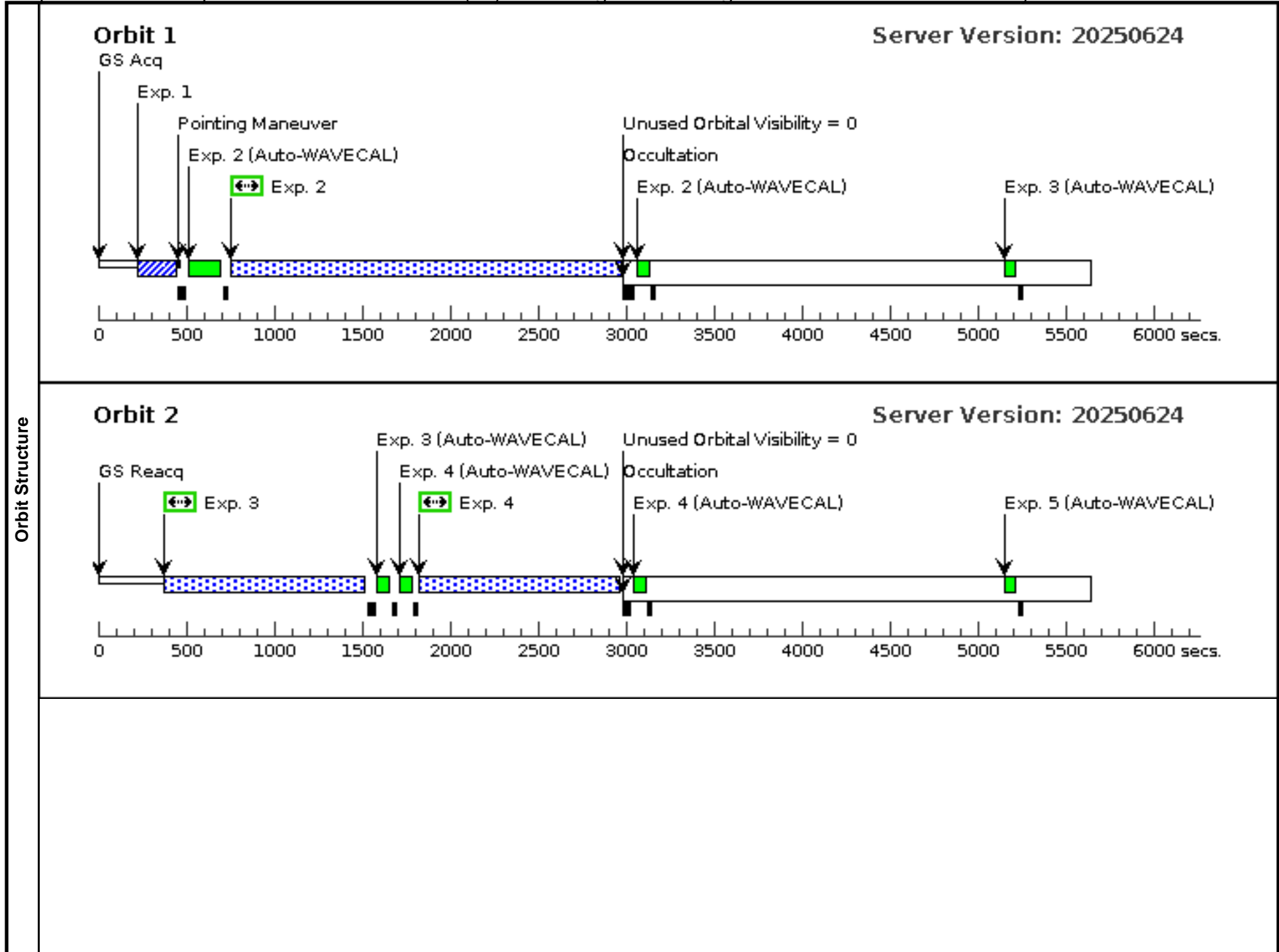
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(3)	SDSSJ012007.00+285826.6	RA: 01 20 7.0032 (20.0291800d) Dec: +28 58 26.63 (28.97406d) Equinox: J2000	Epoch of Position: 2000 Redshift: 0.685	V=17.849812 18.81 (FUV)	Reference Frame: ICRS																																																																		
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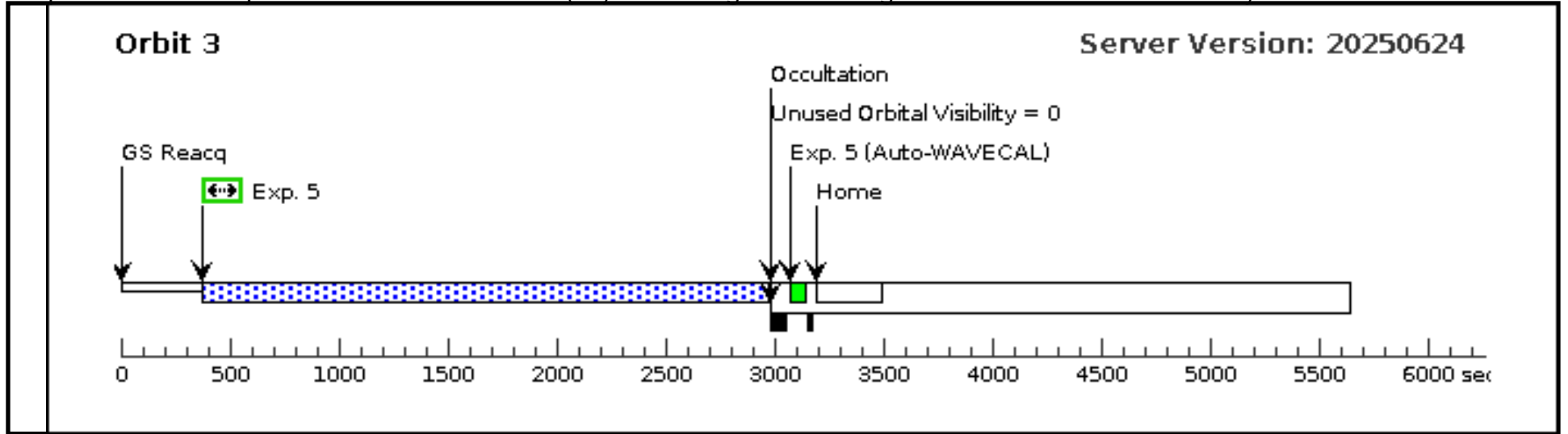




Proposal 18076 - Object4-Visit1-SDSS J015356 (10) - Unveiling the Circumgalactic Medium of M33: A Study of Satellite-Host Interact...

Visit		Proposal 18076, Object4-Visit1-SDSS J015356 (10), implementation							Fri Oct 31 19:01:03 GMT 2025		
Fixed Targets		Diagnostic Status: No Diagnostics Scientific Instruments: COS/FUV, COS/NUV Special Requirements: (none)									
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous						
(4)	SDSSJ015356.31+305306.4	RA: 01 53 56.3146 (28.4846442d) Dec: +30 53 6.49 (30.88514d) Equinox: J2000	Epoch of Position: 2000 Redshift: 0.259	V=17.03390 18.06 (FUV)	Reference Frame: ICRS						
Comments: magnitude is in G band Category=ISM Description=[ABSORPTION LINE SYSTEM, ABSORPTION LINE SYSTEM - EXTRAGALACTIC, ABSORPTION LINE SYSTEM - GALACTIC, HALO] 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/IMAG (2224581)	(4) SDSSJ015356.31 +305306.4	COS/NUV, ACQ/IMAGE, PSA	MIRRORA				3 Secs (3 Secs) [==>]	[1]
Comments: NUV mag = 17.7972											
		2	G130M/129 1-FPPOS3 (1961020)	(4) SDSSJ015356.31 +305306.4	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=3; BUFFER-TIME=39 48			2171 Secs (2171 Secs) [==>]	[1]
		3	G130M/129 1-FPPOS3 (1961020)	(4) SDSSJ015356.31 +305306.4	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=3; BUFFER-TIME=39 48			1092 Secs (1092 Secs) [==>]	[2]
		4	G130M/129 1-FPPOS4 (1961020)	(4) SDSSJ015356.31 +305306.4	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=4; BUFFER-TIME=39 48			1092 Secs (1092 Secs) [==>]	[2]
		5	G130M/129 1-FPPOS4 (1961020)	(4) SDSSJ015356.31 +305306.4	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=4; BUFFER-TIME=39 48			2547 Secs (2547 Secs) [==>]	[3]





Proposal 18076 - Object4-Visit2-SDSS J015356 (11) - Unveiling the Circumgalactic Medium of M33: A Study of Satellite-Host Interact...

Visit	Proposal 18076, Object4-Visit2-SDSS J015356 (11), implementation Fri Oct 31 19:01:03 GMT 2025 Diagnostic Status: No Diagnostics Scientific Instruments: COS/FUV, COS/NUV Special Requirements: (none)																																																											
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