



18367 - Individual He II emitting stars - origin and contribution to galactic He II emission

Cycle: 34, 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	(3) SUMS-76.92797-69.49482	COS/FUV COS/NUV	3	17-Aug-2026 14:00:35.0	yes
02	(4) SUMS-85.63226-68.82262	COS/FUV COS/NUV	2	17-Aug-2026 14:00:36.0	yes
03	(4) SUMS-85.63226-68.82262	COS/FUV COS/NUV	2	17-Aug-2026 14:00:37.0	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) SUMS-85.63226-68.82262	COS/FUV COS/NUV	1	17-Aug-2026 14:00:37.0	yes
05	(2) SUMS-81.05679-69.79004	COS/FUV COS/NUV	2	17-Aug-2026 14:00:38.0	yes
06	(2) SUMS-81.05679-69.79004	COS/FUV COS/NUV	2	17-Aug-2026 14:00:39.0	yes
07	(2) SUMS-81.05679-69.79004	COS/FUV COS/NUV	1	17-Aug-2026 14:00:39.0	yes
08	(1) SUMS-83.57203-69.04600	COS/FUV COS/NUV	2	17-Aug-2026 14:00:40.0	yes
09	(1) SUMS-83.57203-69.04600	COS/FUV COS/NUV	2	17-Aug-2026 14:00:40.0	yes
10	(1) SUMS-83.57203-69.04600	COS/FUV COS/NUV	1	17-Aug-2026 14:00:41.0	yes

18 Total Orbits Used

ABSTRACT

He II emission features are ubiquitously found in low-metallicity star-forming galaxy spectra, both locally and in the early Universe. However, none of the state-of-the-art spectral population synthesis codes can explain how it is produced. This suggests that we either poorly model the stellar ionizing sources, or have not incorporated all of them. We propose to observe the UV spectra of 4 newly discovered, individual He II emitters in the Large Magellanic Cloud in order to reveal their nature and assess their importance as contributors to the He II emission from galaxies. With optical spectra at hand, we identify three likely candidate types of stars-all which are products of binary interaction: binary stripped stars, rapidly accreting white dwarfs, and accreting black holes. The far-UV continuum slope and broad variety of spectral lines will allow us to distinguish.

OBSERVING DESCRIPTION

This program will obtain UV spectra for 4 targets in the LMC whose optical spectra show HeII emission. . The goal is to obtain UV spectra that can be modelled to determine the nature of the hot ionizing source in each system.

Proposal 18367 (STScI Edit Number: 0, Created: Monday, August 17, 2026, 1:00:41PM Eastern Standard Time) - Overview

Spectra will be obtained in the FUV with the G140L grism and a center wavelength of 800 AA, providing continuous wavelength coverage between ~900-1950 AA. We will obtain 3-5 orbits per targets (separated into multiple visits of between 1-3 orbits) and use all four FP positions for each target.

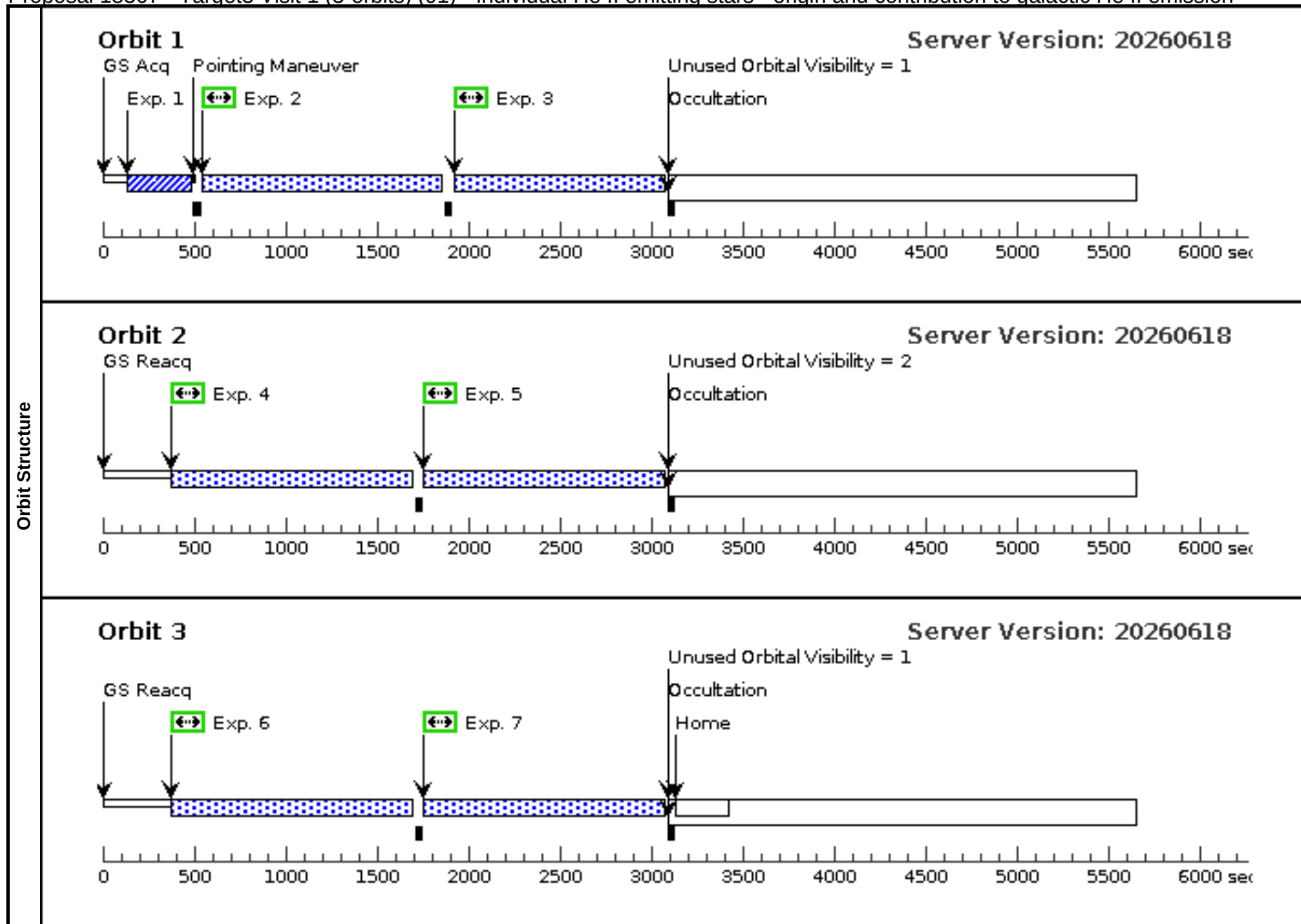
The impacts of a reduced gyro operations on this program are primarily reduced schedulability due to the smaller field of regard, as well as possible impacts of roll angle constraints when avoiding placement of bright field objects in the second COS aperture. Slightly longer acquisition times have only a small effect on the S/N of our observations.

Proposal 18367 - Target3 Visit 1 (3-orbits) (01) - Individual He II emitting stars - origin and contribution to galactic He II emission

Visit	Proposal 18367, Target3 Visit 1 (3-orbits) (01) Mon Aug 17 18:00:41 GMT 2026				
	Diagnostic Status: No Diagnostics Scientific Instruments: COS/FUV, COS/NUV Special Requirements: (none)				
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes
	(3)	SUMS-76.92797-69.49482	RA: 05 07 42.6986 (76.9279108d) Dec: -69 29 41.72 (-69.49492d) Equinox: J2000	Proper Motion RA: 1.98 mas/yr Proper Motion Dec: -0.006 mas/yr Epoch of Position: 2016	V=18.1
Miscellaneous Reference Frame: ICRS					
Comments: Category=EXT-STAR Description=[DISK, EMISSION LINE STAR] Extended=NO					

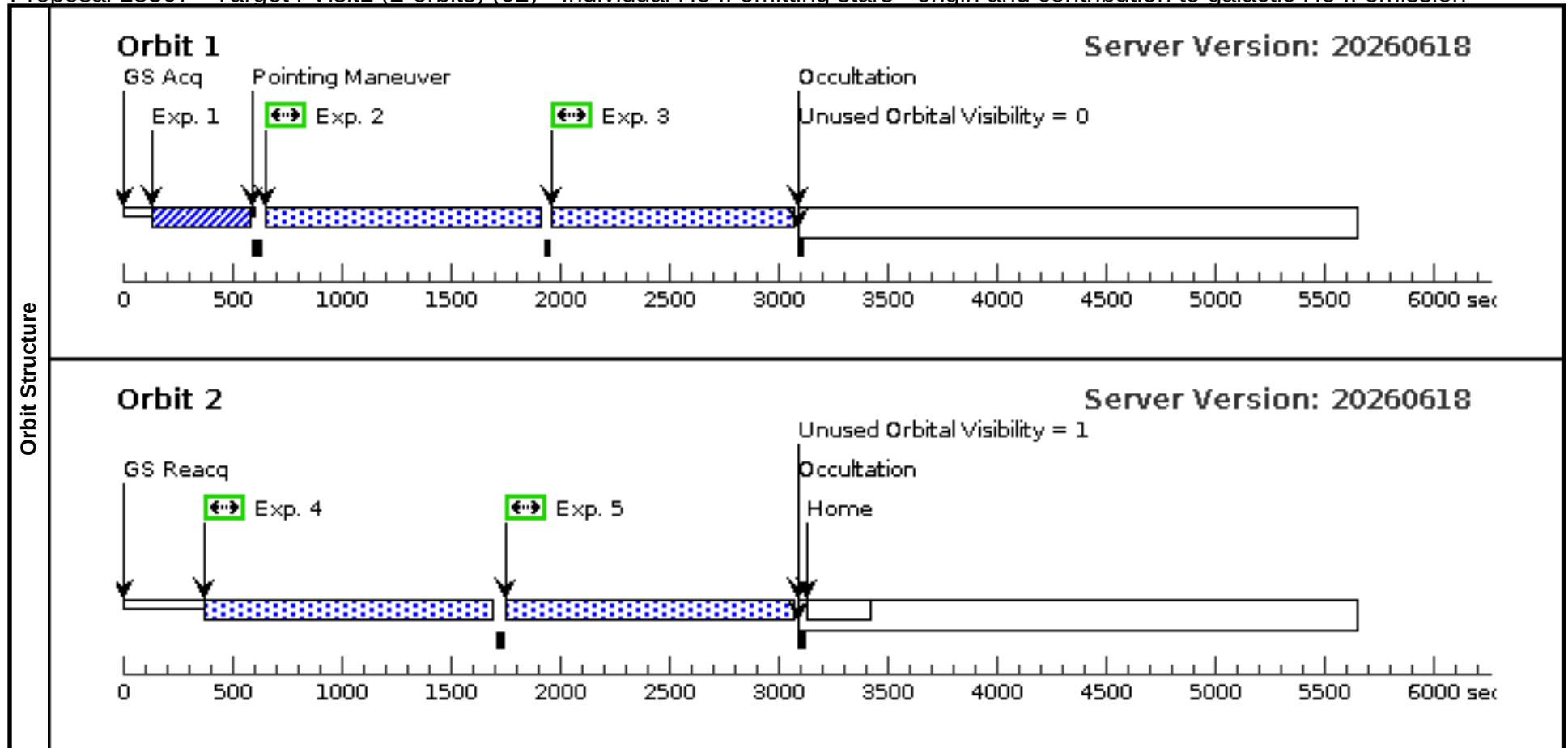
Proposal 18367 - Target3 Visit 1 (3-orbits) (01) - Individual He II emitting stars - origin and contribution to galactic He II emission

Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	Target3/AC Q-IMAGE (COS.ta.236 4852)	(3) SUMS-76.92797- 69.49482	COS/NUV, ACQ/IMAGE, PSA	MIRRORB				20 Secs (20 Secs) [==>]	[1]
	2	Target3/FP1 (COS.sp.236 4857)	(3) SUMS-76.92797- 69.49482	COS/FUV, TIME-TAG, PSA	G140L 800 A	BUFFER-TIME=61 56; FLASH=YES; FP-POS=1; SEGMENT=A; LIFETIME-POS=L P11			1105 Secs (1105 Secs) [==>]	[1]
	3	Target3/FP1 (COS.sp.236 4857)	(3) SUMS-76.92797- 69.49482	COS/FUV, TIME-TAG, PSA	G140L 800 A	BUFFER-TIME=61 56; FLASH=YES; FP-POS=1; SEGMENT=A; LIFETIME-POS=L P11			1105 Secs (1105 Secs) [==>]	[1]
	4	Target3/FP2 (COS.sp.236 4857)	(3) SUMS-76.92797- 69.49482	COS/FUV, TIME-TAG, PSA	G140L 800 A	BUFFER-TIME=61 56; FLASH=YES; FP-POS=2; SEGMENT=A; LIFETIME-POS=L P11			1267 Secs (1267 Secs) [==>]	[2]
	5	Target3/FP2 (COS.sp.236 4857)	(3) SUMS-76.92797- 69.49482	COS/FUV, TIME-TAG, PSA	G140L 800 A	BUFFER-TIME=61 56; FLASH=YES; FP-POS=2; SEGMENT=A; LIFETIME-POS=L P11			1267 Secs (1267 Secs) [==>]	[2]
	6	Target3/FP3 (COS.sp.236 4857)	(3) SUMS-76.92797- 69.49482	COS/FUV, TIME-TAG, PSA	G140L 800 A	BUFFER-TIME=61 56; FLASH=YES; FP-POS=3; SEGMENT=A; LIFETIME-POS=L P11			1266 Secs (1266 Secs) [==>]	[3]
	7	Target3/FP4 (COS.sp.236 4857)	(3) SUMS-76.92797- 69.49482	COS/FUV, TIME-TAG, PSA	G140L 800 A	BUFFER-TIME=61 56; FLASH=YES; FP-POS=4; SEGMENT=A; LIFETIME-POS=L P11			1266 Secs (1266 Secs) [==>]	[3]



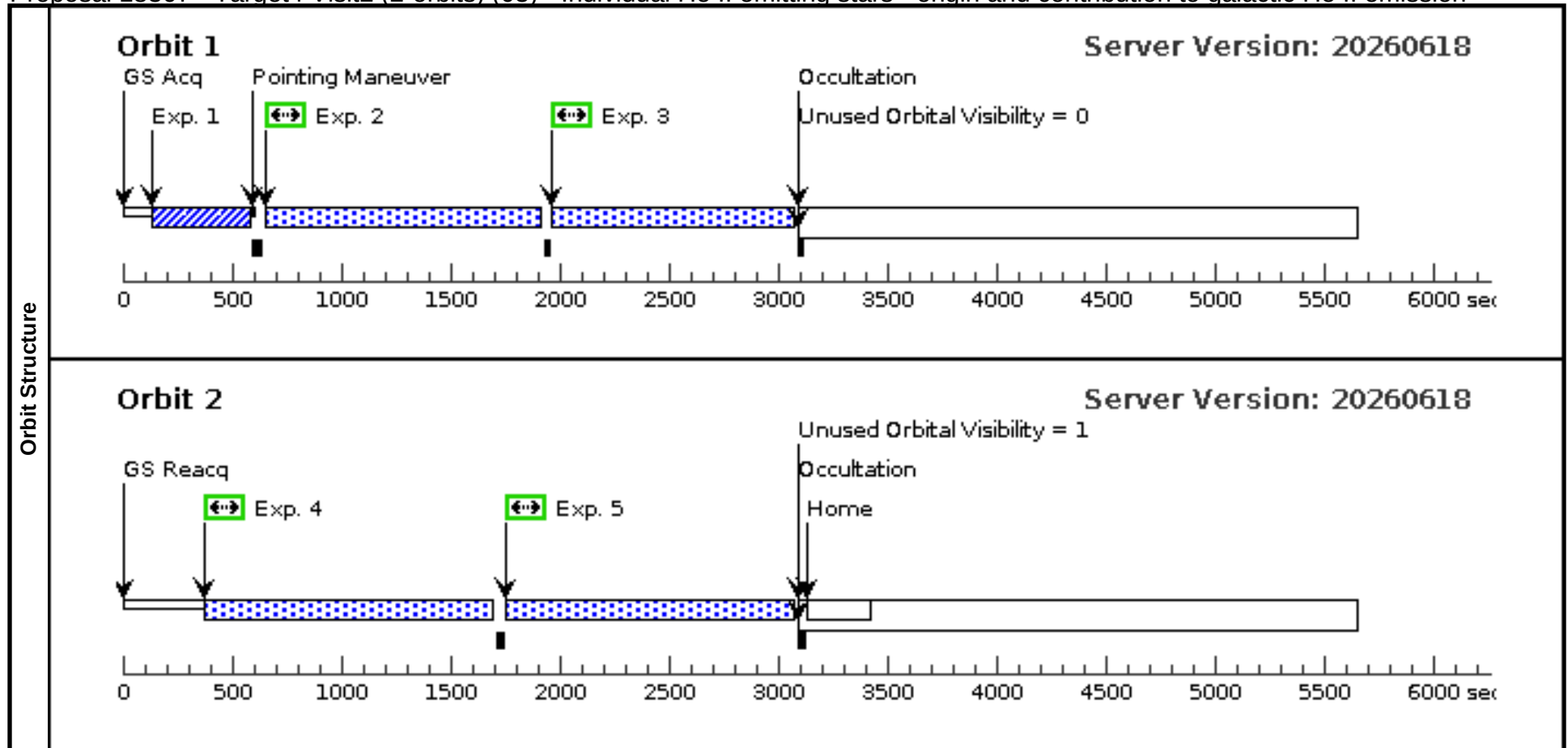
Proposal 18367 - Target4 Visit1 (2-orbits) (02) - Individual He II emitting stars - origin and contribution to galactic He II emission

Visit	Proposal 18367, Target4 Visit1 (2-orbits) (02)										Mon Aug 17 18:00:42 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		
	(4)	SUMS-85.63226-68.82262		RA: 05 42 31.6953 (85.6320638d) Dec: -68 49 21.61 (-68.82267d) Equinox: J2000		Proper Motion RA: 1.75 mas/yr Proper Motion Dec: 0.49 mas/yr Epoch of Position: 2016		V=18.8		Reference Frame: ICRS		
	Comments: Category=EXT-STAR Description=[EMISSION LINE STAR, WOLF RAYET] Extended=NO											
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture		Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]		Orbit
	1	Target4/AC Q-IMAGE (COS.ta.236 4853)	(4) SUMS-85.63226-68.82262	COS/NUV, ACQ/IMAGE, PSA		MIRRORB				73 Secs (73 Secs)		
										[==>]		[1]
	2	Target4/FP1 (COS.sp.236 4858)	(4) SUMS-85.63226-68.82262	COS/FUV, TIME-TAG, PSA		G140L 800 A	BUFFER-TIME=95 30; FLASH=YES; FP-POS=1; SEGMENT=A; LIFETIME-POS=L P11			1056 Secs (1056 Secs)		
										[==>]		[1]
	3	Target4/FP2 (COS.sp.236 4858)	(4) SUMS-85.63226-68.82262	COS/FUV, TIME-TAG, PSA		G140L 800 A	BUFFER-TIME=95 30; FLASH=YES; FP-POS=2; SEGMENT=A; LIFETIME-POS=L P11			1056 Secs (1056 Secs)		
										[==>]		[1]
	4	Target4/FP3 (COS.sp.236 4858)	(4) SUMS-85.63226-68.82262	COS/FUV, TIME-TAG, PSA		G140L 800 A	BUFFER-TIME=95 30; FLASH=YES; FP-POS=3; SEGMENT=A; LIFETIME-POS=L P11			1266 Secs (1266 Secs)		
										[==>]		[2]
	5	Target4/FP4 (COS.sp.236 4858)	(4) SUMS-85.63226-68.82262	COS/FUV, TIME-TAG, PSA		G140L 800 A	BUFFER-TIME=95 30; FLASH=YES; FP-POS=4; SEGMENT=A; LIFETIME-POS=L P11			1266 Secs (1266 Secs)		
									[==>]		[2]	



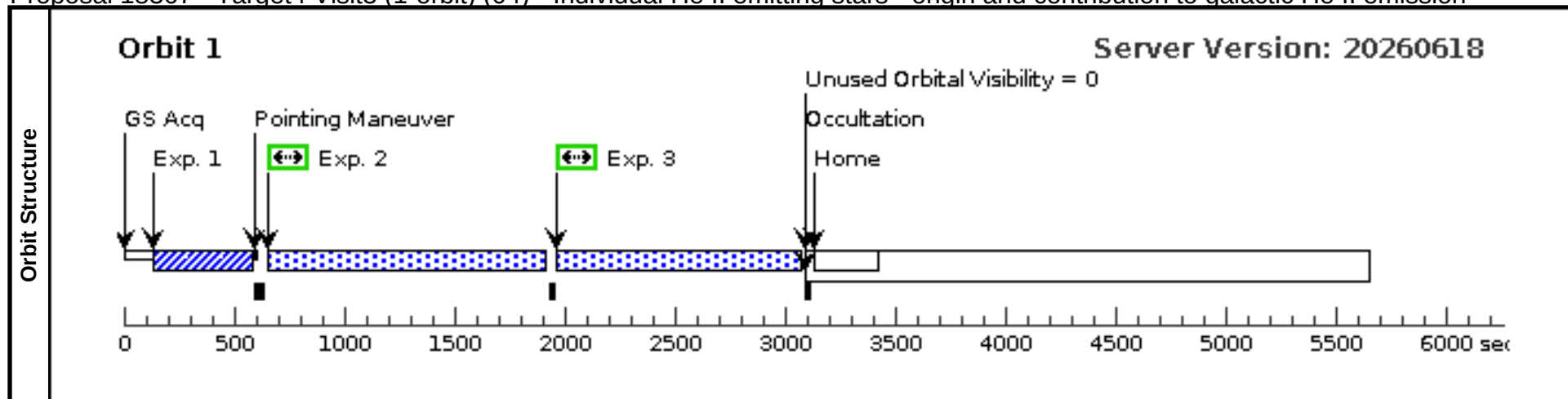
Proposal 18367 - Target4 Visit2 (2-orbits) (03) - Individual He II emitting stars - origin and contribution to galactic He II emission

Visit	Proposal 18367, Target4 Visit2 (2-orbits) (03)										Mon Aug 17 18:00:42 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		
	(4)	SUMS-85.63226-68.82262	RA: 05 42 31.6953 (85.6320638d) Dec: -68 49 21.61 (-68.82267d) Equinox: J2000		Proper Motion RA: 1.75 mas/yr Proper Motion Dec: 0.49 mas/yr Epoch of Position: 2016		V=18.8		Reference Frame: ICRS		
	Comments: Category=EXT-STAR Description=[EMISSION LINE STAR, WOLF RAYET] Extended=NO										
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]		Orbit
	1	Target4/AC Q-IMAGE (COS.ta.236 4853)	(4) SUMS-85.63226-68.82262	COS/NUV, ACQ/IMAGE, PSA	MIRRORB				73 Secs (73 Secs)		
									[==>]		[1]
	2	Target4/FP1 (COS.sp.236 4858)	(4) SUMS-85.63226-68.82262	COS/FUV, TIME-TAG, PSA	G140L 800 A	BUFFER-TIME=95 30; FLASH=YES; FP-POS=1; SEGMENT=A; LIFETIME-POS=L P11			1056 Secs (1056 Secs)		
									[==>]		[1]
	3	Target4/FP2 (COS.sp.236 4858)	(4) SUMS-85.63226-68.82262	COS/FUV, TIME-TAG, PSA	G140L 800 A	BUFFER-TIME=95 30; FLASH=YES; FP-POS=2; SEGMENT=A; LIFETIME-POS=L P11			1056 Secs (1056 Secs)		
									[==>]		[1]
	4	Target4/FP3 (COS.sp.236 4858)	(4) SUMS-85.63226-68.82262	COS/FUV, TIME-TAG, PSA	G140L 800 A	BUFFER-TIME=95 30; FLASH=YES; FP-POS=3; SEGMENT=A; LIFETIME-POS=L P11			1266 Secs (1266 Secs)		
									[==>]		[2]
	5	Target4/FP4 (COS.sp.236 4858)	(4) SUMS-85.63226-68.82262	COS/FUV, TIME-TAG, PSA	G140L 800 A	BUFFER-TIME=95 30; FLASH=YES; FP-POS=4; SEGMENT=A; LIFETIME-POS=L P11			1266 Secs (1266 Secs)		
								[==>]		[2]	



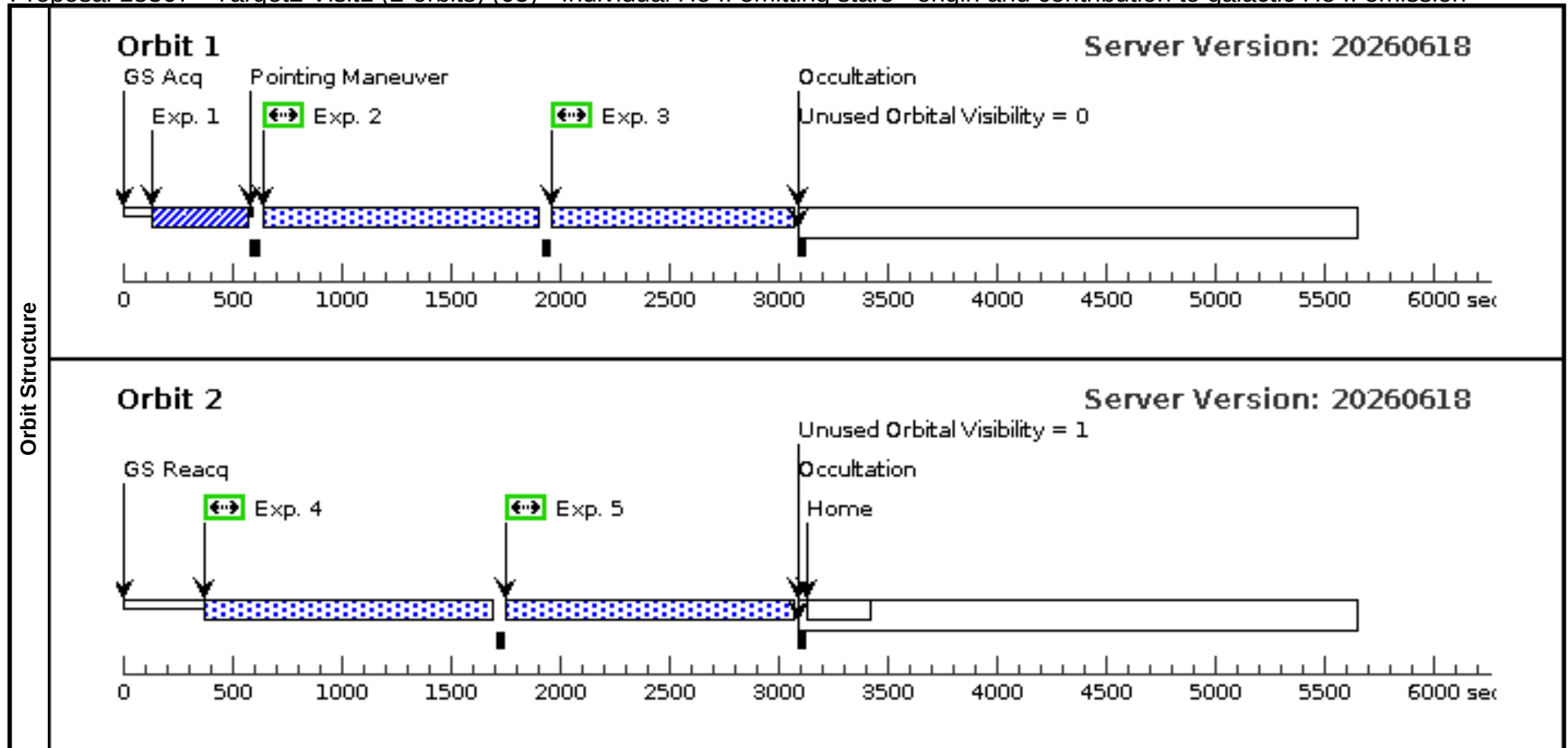
Proposal 18367 - Target4 Visit3 (1-orbit) (04) - Individual He II emitting stars - origin and contribution to galactic He II emission

Visit	Proposal 18367, Target4 Visit3 (1-orbit) (04)										Mon Aug 17 18:00:42 GMT 2026	
	Diagnostic Status: Warning											
	Scientific Instruments: COS/FUV, COS/NUV											
	Special Requirements: (none)											
Diagnosics	(Target4 Visit3 (1-orbit) (04)) Warning (Form): For the best data quality, it is generally required to use all four FP-POS positions at a given COS cenwave (or 2 positions for certain exception cases). See extended explanation in the diagnostic browser.											
Fixed Targets	#	Name	Target Coordinates		Targ. Coord. Corrections		Fluxes		Miscellaneous			
	(4)	SUMS-85.63226-68.82262	RA: 05 42 31.6953 (85.6320638d) Dec: -68 49 21.61 (-68.82267d) Equinox: J2000		Proper Motion RA: 1.75 mas/yr Proper Motion Dec: 0.49 mas/yr Epoch of Position: 2016		V=18.8		Reference Frame: ICRS			
	Comments: Category=EXT-STAR Description=[EMISSION LINE STAR, WOLF RAYET] Extended=NO											
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture		Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]		Orbit
	1	Target4/AC Q-IMAGE (COS.ta.236 4853)	(4) SUMS-85.63226-68.82262	COS/NUV, ACQ/IMAGE, PSA		MIRRORB				73 Secs (73 Secs)		
										[==>]		[1]
	2	Target4/FP1 (COS.sp.236 4858)	(4) SUMS-85.63226-68.82262	COS/FUV, TIME-TAG, PSA		G140L 800 A	BUFFER-TIME=95 30; FLASH=YES; FP-POS=1; SEGMENT=A; LIFETIME-POS=L P11			1056 Secs (1056 Secs)		
										[==>]		[1]
	3	Target4/FP2 (COS.sp.236 4858)	(4) SUMS-85.63226-68.82262	COS/FUV, TIME-TAG, PSA		G140L 800 A	BUFFER-TIME=95 30; FLASH=YES; FP-POS=2; SEGMENT=A; LIFETIME-POS=L P11			1056 Secs (1056 Secs)		
										[==>]		[1]



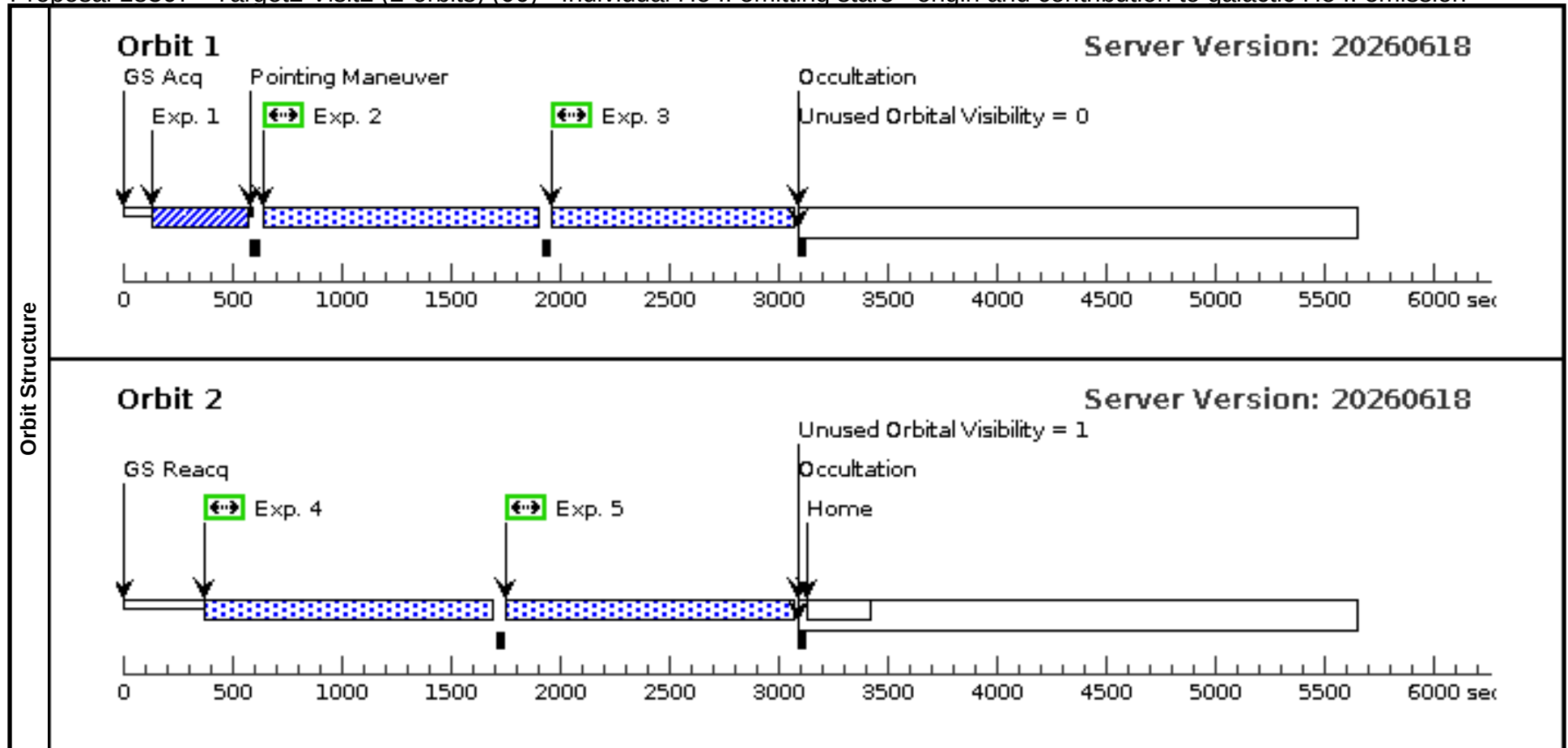
Proposal 18367 - Target2 Visit1 (2-orbits) (05) - Individual He II emitting stars - origin and contribution to galactic He II emission

Visit	Proposal 18367, Target2 Visit1 (2-orbits) (05)										Mon Aug 17 18:00:42 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			
	(2)	SUMS-81.05679-69.79004	RA: 05 24 13.6296 (81.0567900d) Dec: -69 47 24.14 (-69.79004d) Equinox: J2000					V=19.3	Reference Frame: ICRS			
	Comments: Category=EXT-STAR Description=[BE, COMPOSITE SPECTRAL TYPE, EMISSION LINE NEBULA] Extended=NO											
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture		Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]		Orbit
	1	Target2/AC Q-IMAGE (COS.ta.236 4849)	(2) SUMS-81.05679-69.79004	COS/NUV, ACQ/IMAGE, PSA		MIRRORB				68 Secs (68 Secs)		
										[==>]	[1]	
	2	Target2/FP1 (COS.sp.236 4856)	(2) SUMS-81.05679-69.79004	COS/FUV, TIME-TAG, PSA		G140L 800 A	BUFFER-TIME=94 00; FLASH=YES; FP-POS=1; SEGMENT=A; LIFETIME-POS=L P11				1056 Secs (1056 Secs)	
										[==>]	[1]	
	3	Target2/FP2 (COS.sp.236 4856)	(2) SUMS-81.05679-69.79004	COS/FUV, TIME-TAG, PSA		G140L 800 A	BUFFER-TIME=94 00; FLASH=YES; FP-POS=2; SEGMENT=A; LIFETIME-POS=L P11				1056 Secs (1056 Secs)	
										[==>]	[1]	
	4	Target2/FP3 (COS.sp.236 4856)	(2) SUMS-81.05679-69.79004	COS/FUV, TIME-TAG, PSA		G140L 800 A	BUFFER-TIME=94 00; FLASH=YES; FP-POS=3; SEGMENT=A; LIFETIME-POS=L P11				1266 Secs (1266 Secs)	
										[==>]	[2]	
	5	Target2/FP4 (COS.sp.236 4856)	(2) SUMS-81.05679-69.79004	COS/FUV, TIME-TAG, PSA		G140L 800 A	BUFFER-TIME=94 00; FLASH=YES; FP-POS=4; SEGMENT=A; LIFETIME-POS=L P11				1266 Secs (1266 Secs)	
									[==>]	[2]		



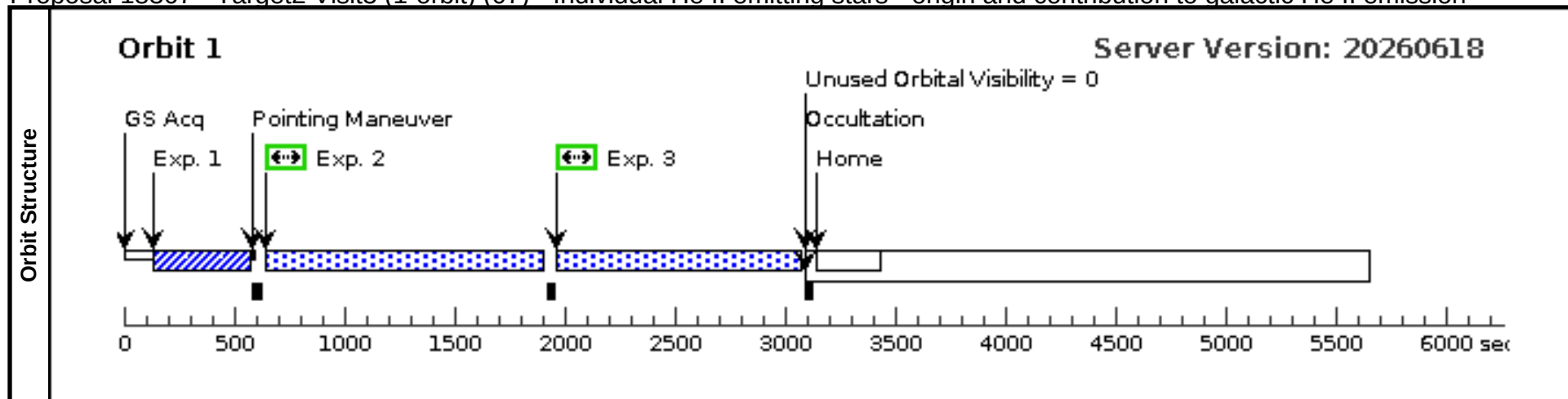
Proposal 18367 - Target2 Visit2 (2-orbits) (06) - Individual He II emitting stars - origin and contribution to galactic He II emission

Visit	Proposal 18367, Target2 Visit2 (2-orbits) (06)										Mon Aug 17 18:00:42 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			
	(2)	SUMS-81.05679-69.79004	RA: 05 24 13.6296 (81.0567900d) Dec: -69 47 24.14 (-69.79004d) Equinox: J2000				V=19.3		Reference Frame: ICRS			
	Comments: Category=EXT-STAR Description=[BE, COMPOSITE SPECTRAL TYPE, EMISSION LINE NEBULA] Extended=NO											
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture		Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]		Orbit
	1	Target2/AC Q-IMAGE (COS.ta.236 4849)	(2) SUMS-81.05679-69.79004	COS/NUV, ACQ/IMAGE, PSA		MIRRORB				68 Secs (68 Secs)		
										[==>]	[1]	
	2	Target2/FP1 (COS.sp.236 4856)	(2) SUMS-81.05679-69.79004	COS/FUV, TIME-TAG, PSA		G140L 800 A	BUFFER-TIME=94 00; FLASH=YES; FP-POS=1; SEGMENT=A; LIFETIME-POS=L P11				1056 Secs (1056 Secs)	
										[==>]	[1]	
	3	Target2/FP2 (COS.sp.236 4856)	(2) SUMS-81.05679-69.79004	COS/FUV, TIME-TAG, PSA		G140L 800 A	BUFFER-TIME=94 00; FLASH=YES; FP-POS=2; SEGMENT=A; LIFETIME-POS=L P11				1056 Secs (1056 Secs)	
										[==>]	[1]	
	4	Target2/FP3 (COS.sp.236 4856)	(2) SUMS-81.05679-69.79004	COS/FUV, TIME-TAG, PSA		G140L 800 A	BUFFER-TIME=94 00; FLASH=YES; FP-POS=3; SEGMENT=A; LIFETIME-POS=L P11				1266 Secs (1266 Secs)	
										[==>]	[2]	
	5	Target2/FP4 (COS.sp.236 4856)	(2) SUMS-81.05679-69.79004	COS/FUV, TIME-TAG, PSA		G140L 800 A	BUFFER-TIME=94 00; FLASH=YES; FP-POS=4; SEGMENT=A; LIFETIME-POS=L P11				1266 Secs (1266 Secs)	
									[==>]	[2]		



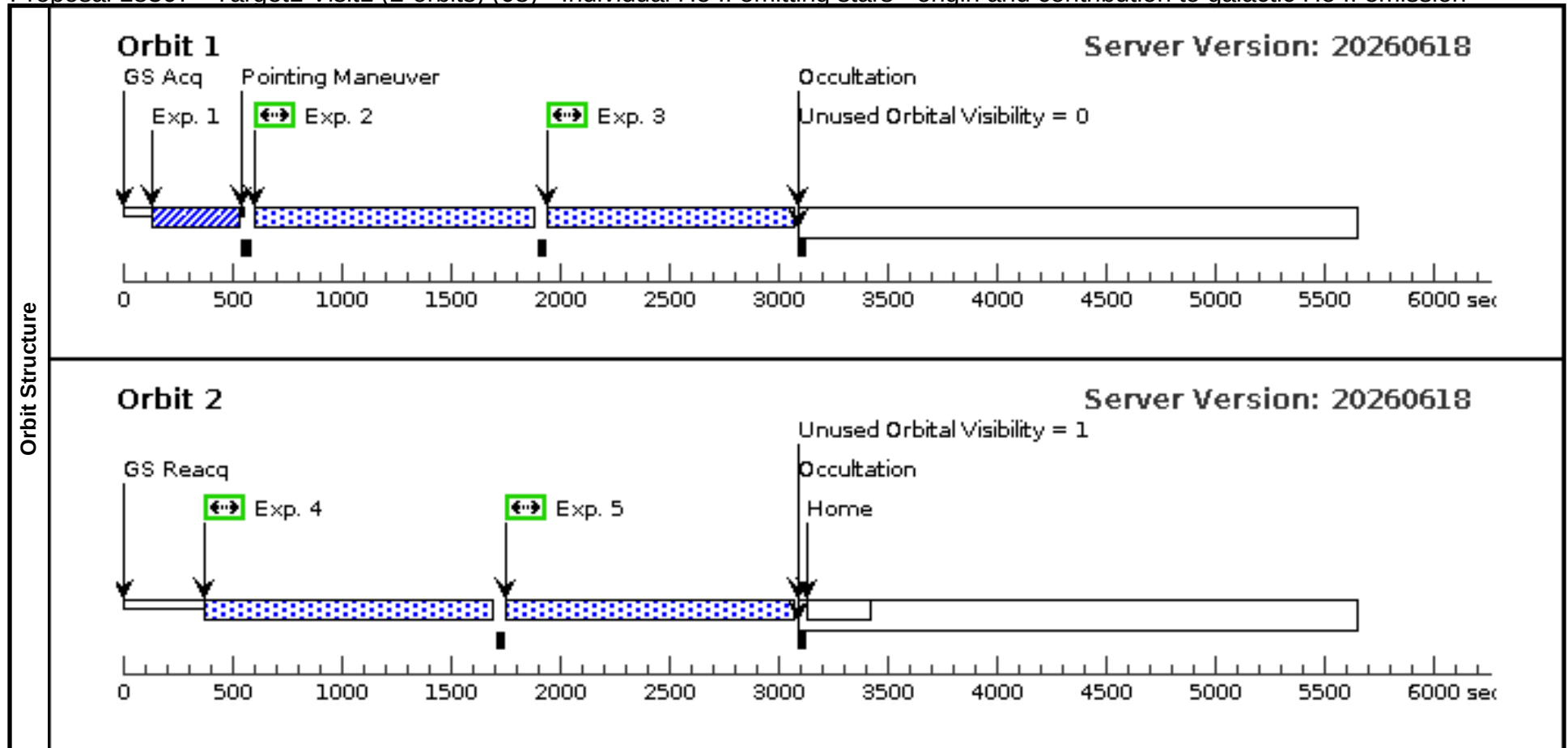
Proposal 18367 - Target2 Visit3 (1-orbit) (07) - Individual He II emitting stars - origin and contribution to galactic He II emission

Visit	Proposal 18367, Target2 Visit3 (1-orbit) (07)										Mon Aug 17 18:00:42 GMT 2026	
	Diagnostic Status: Warning											
	Scientific Instruments: COS/FUV, COS/NUV											
	Special Requirements: (none)											
Diagnosics	(Target2 Visit3 (1-orbit) (07)) Warning (Form): For the best data quality, it is generally required to use all four FP-POS positions at a given COS cenwave (or 2 positions for certain exception cases). See extended explanation in the diagnostic browser.											
Fixed Targets	#	Name	Target Coordinates		Targ. Coord. Corrections		Fluxes		Miscellaneous			
	(2)	SUMS-81.05679-69.79004	RA: 05 24 13.6296 (81.0567900d) Dec: -69 47 24.14 (-69.79004d) Equinox: J2000				V=19.3		Reference Frame: ICRS			
Comments: Category=EXT-STAR Description=[BE, COMPOSITE SPECTRAL TYPE, EMISSION LINE NEBULA] Extended=NO												
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture		Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]		Orbit
	1	Target2/AC Q-IMAGE (COS.ta.236 4849)	(2) SUMS-81.05679-69.79004	COS/NUV, ACQ/IMAGE, PSA		MIRRORB				68 Secs (68 Secs)		
										[==>]		[1]
	2	Target2/FP1 (COS.sp.236 4856)	(2) SUMS-81.05679-69.79004	COS/FUV, TIME-TAG, PSA		G140L 800 A	BUFFER-TIME=9400; FLASH=YES; FP-POS=1; SEGMENT=A; LIFETIME-POS=L P11			1056 Secs (1056 Secs)		
										[==>]		[1]
	3	Target2/FP2 (COS.sp.236 4856)	(2) SUMS-81.05679-69.79004	COS/FUV, TIME-TAG, PSA		G140L 800 A	BUFFER-TIME=9400; FLASH=YES; FP-POS=2; SEGMENT=A; LIFETIME-POS=L P11			1056 Secs (1056 Secs)		
										[==>]		[1]



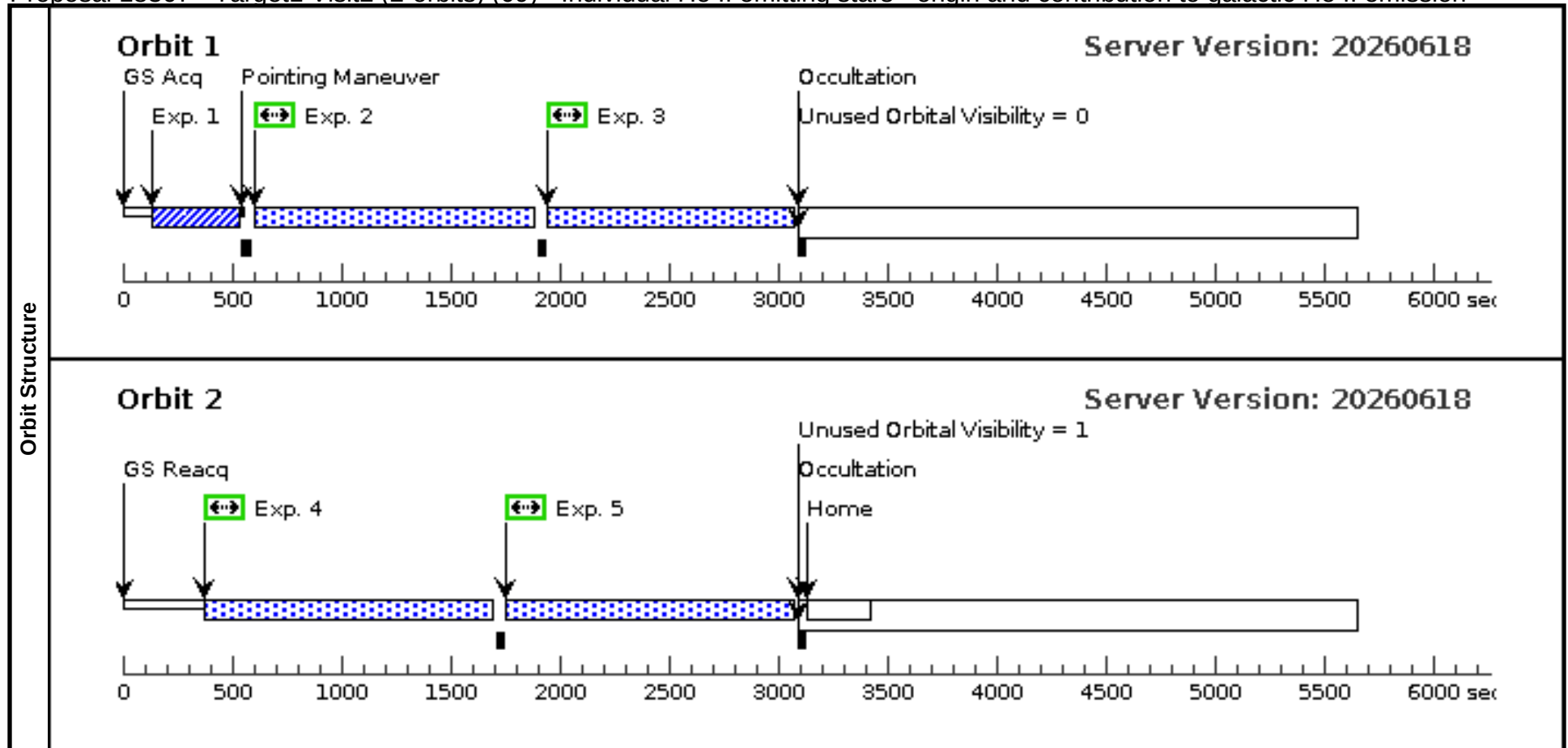
Proposal 18367 - Target1 Visit1 (2-orbits) (08) - Individual He II emitting stars - origin and contribution to galactic He II emission

Visit	Proposal 18367, Target1 Visit1 (2-orbits) (08)										Mon Aug 17 18:00:42 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)	SUMS-83.57203-69.04600	RA: 05 34 17.3219 (83.5721746d) Dec: -69 02 45.72 (-69.04603d) Equinox: J2000		Proper Motion RA: 1.71 mas/yr Proper Motion Dec: 0.50 mas/yr Epoch of Position: 2016		V=18.8		Reference Frame: ICRS			
	Comments: Category=EXT-STAR Description=[BE, COMPOSITE SPECTRAL TYPE, EMISSION LINE NEBULA] Extended=NO											
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture		Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]		Orbit
	1	Target1/AC Q-IMAGE (COS.ta.236 4848)	(1) SUMS-83.57203-69.04600	COS/NUV, ACQ/IMAGE, PSA		MIRRORB				48 Secs (48 Secs)		
										[==>]	[1]	
	2	Target1/FP1 (COS.sp.236 4855)	(1) SUMS-83.57203-69.04600	COS/FUV, TIME-TAG, PSA		G140L 800 A	BUFFER-TIME=86 10; FLASH=YES; FP-POS=1; SEGMENT=A; LIFETIME-POS=L P11			1076 Secs (1076 Secs)		
										[==>]	[1]	
	3	Target1/FP2 (COS.sp.236 4855)	(1) SUMS-83.57203-69.04600	COS/FUV, TIME-TAG, PSA		G140L 800 A	BUFFER-TIME=86 10; FLASH=YES; FP-POS=2; SEGMENT=A; LIFETIME-POS=L P11			1076 Secs (1076 Secs)		
										[==>]	[1]	
	4	Target1/FP3 (COS.sp.236 4855)	(1) SUMS-83.57203-69.04600	COS/FUV, TIME-TAG, PSA		G140L 800 A	BUFFER-TIME=86 10; FLASH=YES; FP-POS=3; SEGMENT=A; LIFETIME-POS=L P11			1266 Secs (1266 Secs)		
										[==>]	[2]	
	5	Target1/FP4 (COS.sp.236 4855)	(1) SUMS-83.57203-69.04600	COS/FUV, TIME-TAG, PSA		G140L 800 A	BUFFER-TIME=86 10; FLASH=YES; FP-POS=4; SEGMENT=A; LIFETIME-POS=L P11			1266 Secs (1266 Secs)		
									[==>]	[2]		



Proposal 18367 - Target1 Visit2 (2-orbits) (09) - Individual He II emitting stars - origin and contribution to galactic He II emission

Visit	Proposal 18367, Target1 Visit2 (2-orbits) (09)										Mon Aug 17 18:00:42 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)	SUMS-83.57203-69.04600		RA: 05 34 17.3219 (83.5721746d) Dec: -69 02 45.72 (-69.04603d) Equinox: J2000		Proper Motion RA: 1.71 mas/yr Proper Motion Dec: 0.50 mas/yr Epoch of Position: 2016		V=18.8		Reference Frame: ICRS		
	Comments: Category=EXT-STAR Description=[BE, COMPOSITE SPECTRAL TYPE, EMISSION LINE NEBULA] Extended=NO											
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture		Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]		Orbit
	1	Target1/AC Q-IMAGE (COS.ta.236 4848)	(1) SUMS-83.57203-69.04600	COS/NUV, ACQ/IMAGE, PSA		MIRRORB					48 Secs (48 Secs)	
										[==>]	[1]	
	2	Target1/FP1 (COS.sp.236 4855)	(1) SUMS-83.57203-69.04600	COS/FUV, TIME-TAG, PSA		G140L 800 A	BUFFER-TIME=86 10; FLASH=YES; FP-POS=1; SEGMENT=A; LIFETIME-POS=L P11				1076 Secs (1076 Secs)	
										[==>]	[1]	
	3	Target1/FP2 (COS.sp.236 4855)	(1) SUMS-83.57203-69.04600	COS/FUV, TIME-TAG, PSA		G140L 800 A	BUFFER-TIME=86 10; FLASH=YES; FP-POS=2; SEGMENT=A; LIFETIME-POS=L P11				1076 Secs (1076 Secs)	
										[==>]	[1]	
	4	Target1/FP3 (COS.sp.236 4855)	(1) SUMS-83.57203-69.04600	COS/FUV, TIME-TAG, PSA		G140L 800 A	BUFFER-TIME=86 10; FLASH=YES; FP-POS=3; SEGMENT=A; LIFETIME-POS=L P11				1266 Secs (1266 Secs)	
										[==>]	[2]	
	5	Target1/FP4 (COS.sp.236 4855)	(1) SUMS-83.57203-69.04600	COS/FUV, TIME-TAG, PSA		G140L 800 A	BUFFER-TIME=86 10; FLASH=YES; FP-POS=4; SEGMENT=A; LIFETIME-POS=L P11				1266 Secs (1266 Secs)	
									[==>]	[2]		



Proposal 18367 - Target1 Visit3 (1-orbit) (10) - Individual He II emitting stars - origin and contribution to galactic He II emission

Visit	Proposal 18367, Target1 Visit3 (1-orbit) (10)										Mon Aug 17 18:00:42 GMT 2026	
	Diagnostic Status: Warning											
	Scientific Instruments: COS/FUV, COS/NUV											
	Special Requirements: (none)											
Diagnos	(Target1 Visit3 (1-orbit) (10)) Warning (Form): For the best data quality, it is generally required to use all four FP-POS positions at a given COS cenwave (or 2 positions for certain exception cases). See extended explanation in the diagnostic browser.											
Fixed Targets	#	Name	Target Coordinates		Targ. Coord. Corrections		Fluxes		Miscellaneous			
	(1)	SUMS-83.57203-69.04600	RA: 05 34 17.3219 (83.5721746d) Dec: -69 02 45.72 (-69.04603d) Equinox: J2000		Proper Motion RA: 1.71 mas/yr Proper Motion Dec: 0.50 mas/yr Epoch of Position: 2016		V=18.8		Reference Frame: ICRS			
	Comments: Category=EXT-STAR Description=[BE, COMPOSITE SPECTRAL TYPE, EMISSION LINE NEBULA] Extended=NO											
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture		Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]		Orbit
	1	Target1/AC Q-IMAGE (COS.ta.236 4848)	(1) SUMS-83.57203-69.04600	COS/NUV, ACQ/IMAGE, PSA		MIRRORB				48 Secs (48 Secs)		
										[==>]		[1]
	2	Target1/FP1 (COS.sp.236 4855)	(1) SUMS-83.57203-69.04600	COS/FUV, TIME-TAG, PSA		G140L 800 A	BUFFER-TIME=86 10; FLASH=YES; FP-POS=1; SEGMENT=A; LIFETIME-POS=L P11			1076 Secs (1076 Secs)		
										[==>]		[1]
	3	Target1/FP2 (COS.sp.236 4855)	(1) SUMS-83.57203-69.04600	COS/FUV, TIME-TAG, PSA		G140L 800 A	BUFFER-TIME=86 10; FLASH=YES; FP-POS=2; SEGMENT=A; LIFETIME-POS=L P11			1076 Secs (1076 Secs)		
									[==>]		[1]	

