



18378 - When Does Synchrotron Begin? A HST-COS Study of the Earliest Feedback Phase in Massive Stellar Clusters

Cycle: 34, Proposal Category: GO

(Availability Mode: SUPPORTED)

INVESTIGATORS

<i>Name</i>	<i>Institution</i>
Mr. Hamid Hassani (PI) (CSA Member) (Contact)	University of Alberta
Dr. Erik Rosolowsky (CoI) (CSA Member) (CoPI) (Contact)	University of Alberta
Dr. David Thilker (CoI) (CoPI) (AdminUSPI) (Contact)	The Johns Hopkins University
Dr. Simon Glover (CoI) (ESA Member)	Universitat Heidelberg
Prof. Aida Wofford (CoI)	National Autonomous University of Mexico
Dr. Janice Lee (CoI)	Space Telescope Science Institute
Dr. Sumit K Sarbadhicary (CoI)	The Johns Hopkins University
Dr. Daniel Maschmann (CoI)	University of Wyoming

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) NGC3627-1	COS/FUV COS/NUV	3	26-Aug-2026 10:00:15.0	yes
02	(2) NGC3627-2	COS/FUV COS/NUV	3	26-Aug-2026 10:00:16.0	yes
03	(3) NGC3627-3	COS/FUV COS/NUV	3	26-Aug-2026 10:00:17.0	yes

Visit	Targets used in Visit	Configurations used in Visit	Orbits Used	Last Orbit Planner Run	OP Current with Visit?
04	(4) NGC3627-4	COS/FUV COS/NUV	3	26-Aug-2026 10:00:17.0	yes
05	(5) NGC4254-1	COS/FUV COS/NUV	3	26-Aug-2026 10:00:18.0	yes
06	(6) NGC4254-2	COS/FUV COS/NUV	3	26-Aug-2026 10:00:18.0	yes
07	(7) NGC4254-3	COS/FUV COS/NUV	3	26-Aug-2026 10:00:19.0	yes
08	(8) NGC4254-4	COS/FUV COS/NUV	3	26-Aug-2026 10:00:19.0	yes
09	(9) NGC4254-5	COS/FUV COS/NUV	3	26-Aug-2026 10:00:20.0	yes
10	(10) NGC4254-6	COS/FUV COS/NUV	4	26-Aug-2026 10:00:20.0	yes
11	(11) NGC4254-7	COS/FUV COS/NUV	3	26-Aug-2026 10:00:21.0	yes
12	(12) NGC4254-8	COS/FUV COS/NUV	4	26-Aug-2026 10:00:22.0	yes
13	(13) NGC4254-9	COS/FUV COS/NUV	3	26-Aug-2026 10:00:22.0	yes
14	(14) NGC4254-10	COS/FUV COS/NUV	4	26-Aug-2026 10:00:23.0	yes
15	(15) NGC4254-11	COS/FUV COS/NUV	3	26-Aug-2026 10:00:23.0	yes
16	(16) NGC4254-12	COS/FUV COS/NUV	3	26-Aug-2026 10:00:24.0	yes
17	(17) NGC4254-13	COS/FUV COS/NUV	3	26-Aug-2026 10:00:24.0	yes

54 Total Orbits Used

ABSTRACT

We propose 54 orbits with the Hubble Space Telescope Cosmic Origins Spectrograph (HST/COS) to observe two nearby massive spiral galaxies hosting young massive stellar clusters with resolved 0.9 arcsec (60pc) VLA 3 GHz radio counterparts. Stellar SEDs indicate that some clusters in these two galaxies are very young (<3 Myr) and likely still in the pre-supernova phase, yet they already exhibit synchrotron emission, suggesting that cosmic-ray acceleration is already underway. This raises a fundamental question: what phase of massive-star evolution powers the earliest cosmic rays in young clusters? Cosmic rays are an important but poorly constrained form of stellar feedback, and radio synchrotron emission is one of the few direct probes of them. Stellar winds may be efficient particle accelerators, but it remains unclear whether the emission is powered by O/B-star winds, emerging Wolf-Rayet stars, or underestimated ages that already allow the first superovae. We aim to answer this question with COS far-ultraviolet spectroscopy, which provides direct constraints on the massive-star population through stellar-wind and age diagnostics, while also probing the surrounding gas through ISM absorption lines that measure kinematics, column density, and ionization state. By linking these UV diagnostics to resolved non-thermal radio emission, we will test which young stellar populations are most closely associated with the onset of synchrotron emission and place empirical constraints on the timing of early cosmic ray feedback.

OBSERVING DESCRIPTION

We adopt COS/G140L with the 800A central-wavelength setting to avoid the detector gap near 1200A and provide continuous coverage of the principal far-UV diagnostics, including N V, Si IV, C IV, and He II. Each science target will be acquired directly using COS/NUV ACQ/IMAGE through the PSA. Our targets span NUV magnitudes of approximately 19-21 AB, with a median of 20.4 AB. Exposure times were estimated using Starburst99 spectra folded through the G140L response and normalized to the observed NUV fluxes. We adopt an exposure strategy comparable to the CLUES survey of Sirressi et al. (2022), which obtained COS FUV spectroscopy of young massive clusters out to about 13 Mpc, similar to the distance of NGC 4254, using exposures of order 8 ks for some targets.

For an 8000 s exposure and a representative 1 Myr Starburst99 spectrum normalized to the median NUV magnitude of our sample, 20.4 AB, the COS ETC predicts S/N of about 12 per resolution element at N V 1240A (ETC: COS.sp.2366495) and about 5.9 at C IV 1550A (ETC: COS.sp.2366497). Reducing the integration to about 7000 s lowers the expected S/N by only about 0.5 at both wavelengths. Because a full 8000 s integration cannot be efficiently accommodated within three HST orbits while retaining all four FP-POS positions, most targets will be observed for approximately 6.7-7.0 ks. The four G140L/800 exposures will sample FP-POS 1 through 4, with two shorter exposures sharing the second orbit.

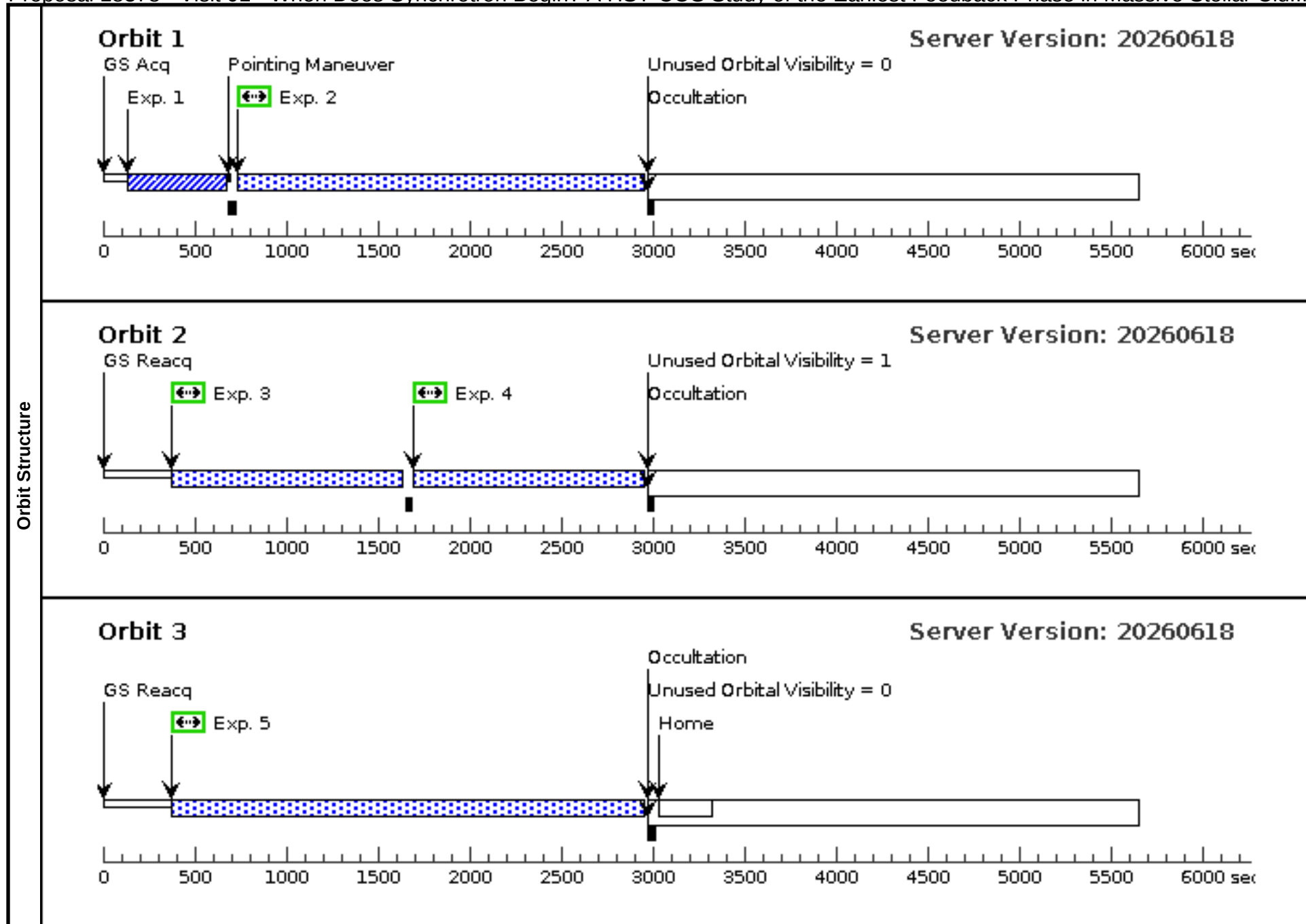
We make two exceptions. NGC3627-3 is substantially brighter in the UV, with an NUV magnitude of 18.94 AB. An 8000 s ETC calculation produced a HARD warning and $S/N = 24.9$ at 1240Å, so this target will be limited to 6000 s while retaining all four FP-POS positions. The three faintest NGC 4254 targets, NGC4254-6, NGC4254-8, and NGC4254-10, will instead be assigned four orbits each, allowing approximately 9 ks of FUV integration while preserving complete FP-POS coverage. For example, NGC4254-6 will receive 8985 s over four orbits. This allocation uses the full 54-orbit program, with 14 three-orbit visits and three four-orbit visits.

For bright-object safety, we performed a conservative COS ETC calculation for the brightest source in the sample, NGC3627-3, assuming an unreddened Kurucz O5V point-source spectrum normalized to its measured F275W flux of 96 microJy. For an 8000 s G140L/800 exposure, the ETC predicts a brightest-pixel count rate of 0.036 counts per second per pixel, corresponding to 289 counts in the brightest pixel, and a total detector count rate of 203 counts per second on Segment A (ETC: COS.sp.2367718). These rates are well below the COS/FUV bright-object screening limits. The ETC predicts $S/N = 30.4$ per resolution element at 1240 Angstrom. The only warning is that this S/N exceeds the nominal maximum achievable assuming two FP-POS positions; our observations use all four FP-POS positions, so this warning does not indicate a bright-object safety violation.

As an additional safety check, we repeated the calculation for the second-brightest source, with an F275W flux of 43uJy, using an 8000 s exposure. This calculation gives $S/N = 20.3$ at 1240Å and produces no warnings (ETC: COS.sp.2367711). Since all remaining targets have lower F275W fluxes, these calculations demonstrate that the full sample satisfies the COS bright-object safety requirements under the same conservative unreddened O5V assumption.

Proposal 18378 - Visit 01 - When Does Synchrotron Begin? A HST-COS Study of the Earliest Feedback Phase in Massive Stellar Clu...

Visit	Proposal 18378, Visit 01										Wed Aug 26 14:00:25 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)	NGC3627-1	RA: 11 20 16.8034 (170.0700142d) Dec: +12 58 43.49 (12.97875d) Equinox: J2000					V=18.94 F275W=43.55uJy (19.8AB mag)		Reference Frame: ICRS		
Comments: Category=EXT-CLUSTER Description=[SPIRAL ARM] Extended=NO												
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture		Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]		Orbit
	1	(COS.ta.236 (1) NGC3627-1 7691)	(1) NGC3627-1	COS/NUV, ACQ/IMAGE, PSA		MIRRORB				115 Secs (115 Secs)		
										[==>]		[1]
	2	(COS.sp.236 (1) NGC3627-1 7692)	(1) NGC3627-1	COS/FUV, TIME-TAG, PSA		G140L 800 A	LIFETIME-POS=LP 11; BUFFER-TIME=10 352; FP-POS=1			2200 Secs (2015 Secs)		
										[==>2015.0 Secs]		[1]
	3	(COS.sp.236 (1) NGC3627-1 7692)	(1) NGC3627-1	COS/FUV, TIME-TAG, PSA		G140L 800 A	LIFETIME-POS=LP 11; BUFFER-TIME=10 352; FP-POS=2			1400 Secs (1207 Secs)		
										[==>1207.0 Secs]		[2]
	4	(COS.sp.236 (1) NGC3627-1 7692)	(1) NGC3627-1	COS/FUV, TIME-TAG, PSA		G140L 800 A	LIFETIME-POS=LP 11; BUFFER-TIME=10 352; FP-POS=3			1400 Secs (1207 Secs)		
										[==>1207.0 Secs]		[2]
	5	(COS.sp.236 (1) NGC3627-1 7692)	(1) NGC3627-1	COS/FUV, TIME-TAG, PSA		G140L 800 A	LIFETIME-POS=LP 11; BUFFER-TIME=10 352; FP-POS=4			2600 Secs (2530 Secs)		
									[==>2530.0 Secs]		[3]	

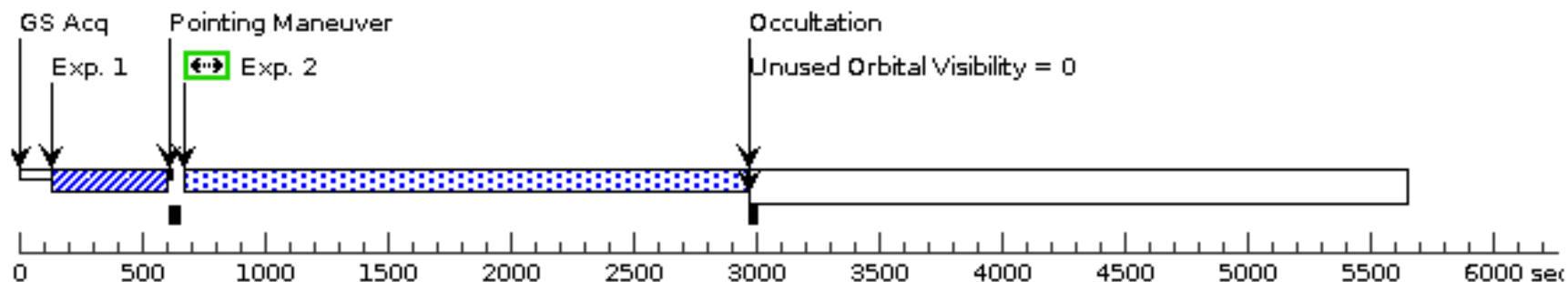


Proposal 18378 - Visit 02 - When Does Synchrotron Begin? A HST-COS Study of the Earliest Feedback Phase in Massive Stellar Clu...

Visit	Proposal 18378, Visit 02										Wed Aug 26 14:00:25 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)	NGC3627-2		RA: 11 20 12.9716 (170.0540483d)				V=19.45		Reference Frame: ICRS		
				Dec: +13 00 33.49 (13.00930d)				F275W= 22.34 (20.53 AB mag)				
				Equinox: J2000								
	Comments: Category=EXT-CLUSTER Description=[SPIRAL ARM] Extended=NO											
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture		Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]		Orbit
	1	(COS.ta.236 7713)	(2) NGC3627-2	COS/NUV, ACQ/IMAGE, PSA		MIRRORB				82 Secs (82 Secs)		
										[==>]	[1]	
	2	(COS.sp.236 7714)	(2) NGC3627-2	COS/FUV, TIME-TAG, PSA		G140L 800 A	LIFETIME-POS=LP 11; BUFFER-TIME=11 114; FP-POS=1			2200 Secs (2081 Secs)		
										[==>2081.0 Secs]	[1]	
	3	(COS.sp.236 7714)	(2) NGC3627-2	COS/FUV, TIME-TAG, PSA		G140L 800 A	LIFETIME-POS=LP 11; BUFFER-TIME=11 114; FP-POS=2			1400 Secs (1212 Secs)		
										[==>1212.0 Secs]	[2]	
	4	(COS.sp.236 7714)	(2) NGC3627-2	COS/FUV, TIME-TAG, PSA		G140L 800 A	LIFETIME-POS=LP 11; BUFFER-TIME=11 114; FP-POS=3			1400 Secs (1212 Secs)		
										[==>1212.0 Secs]	[2]	
	5	(COS.sp.236 7714)	(2) NGC3627-2	COS/FUV, TIME-TAG, PSA		G140L 800 A	LIFETIME-POS=LP 11; BUFFER-TIME=11 114; FP-POS=4			2600 Secs (2530 Secs)		
										[==>2530.0 Secs]	[3]	

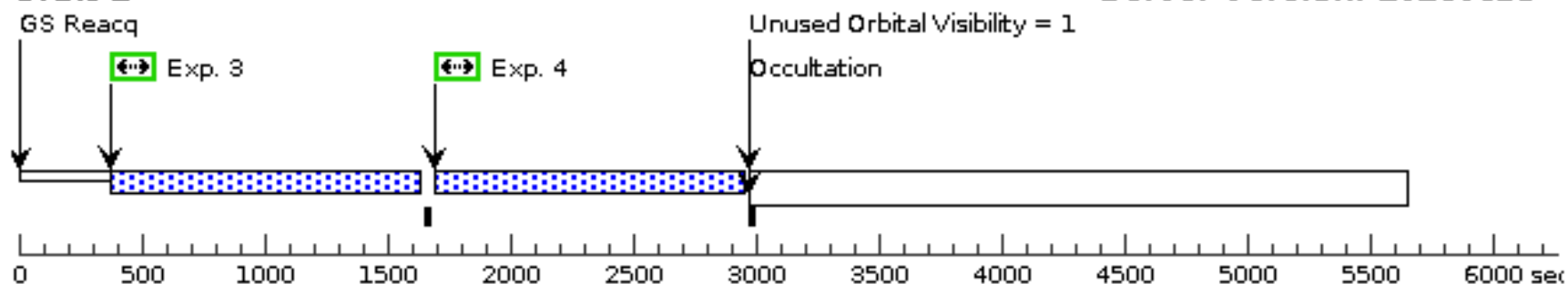
Orbit 1

Server Version: 20260618



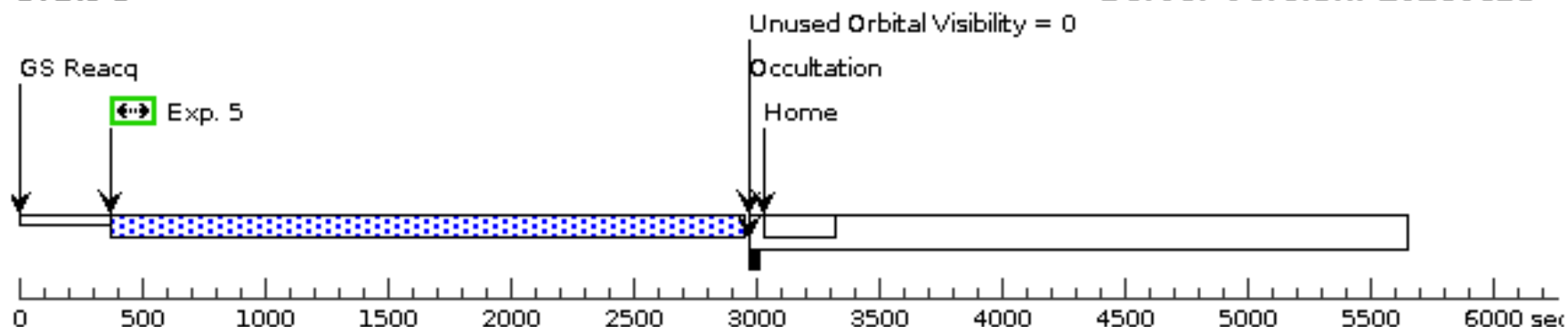
Orbit 2

Server Version: 20260618



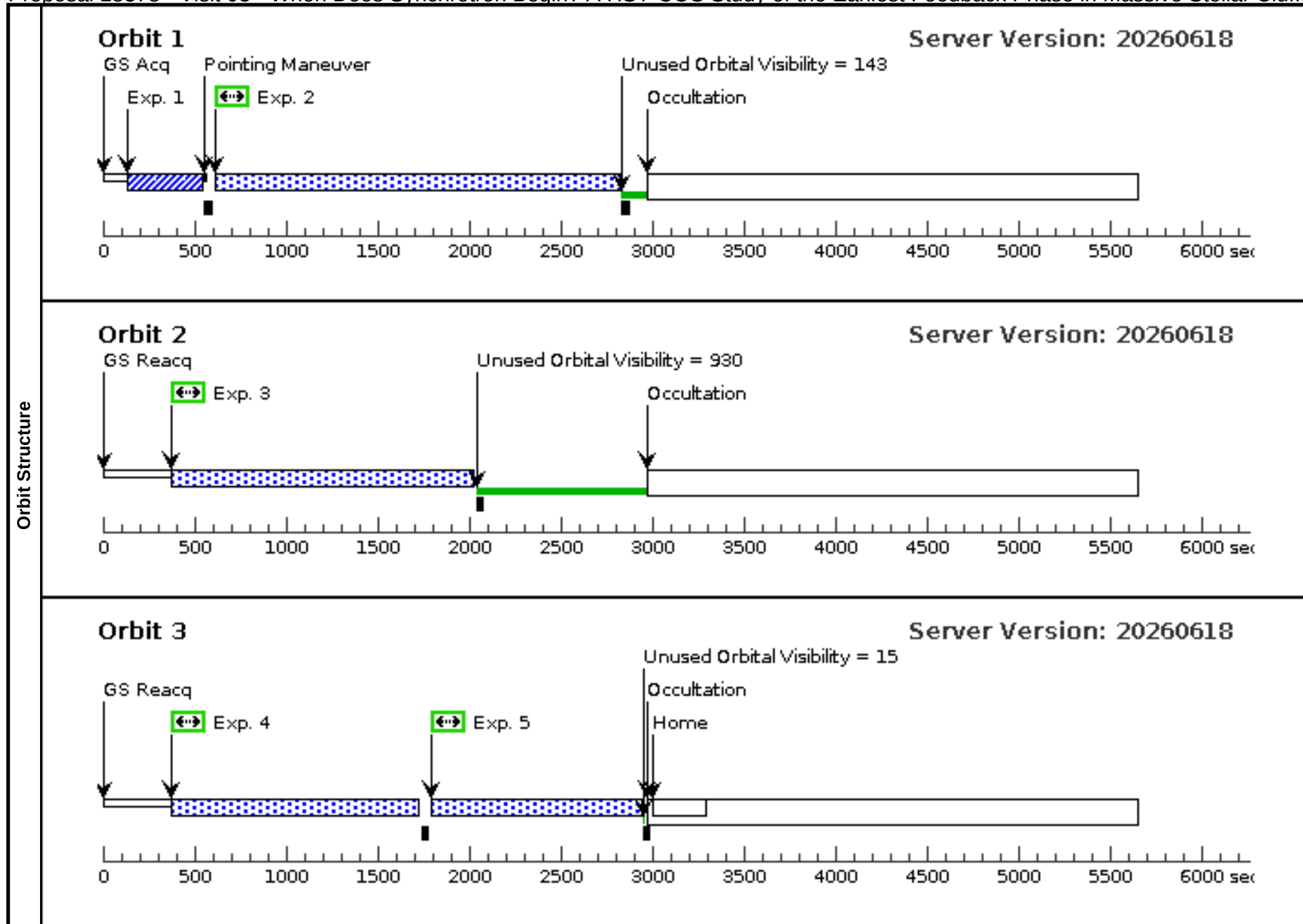
Orbit 3

Server Version: 20260618



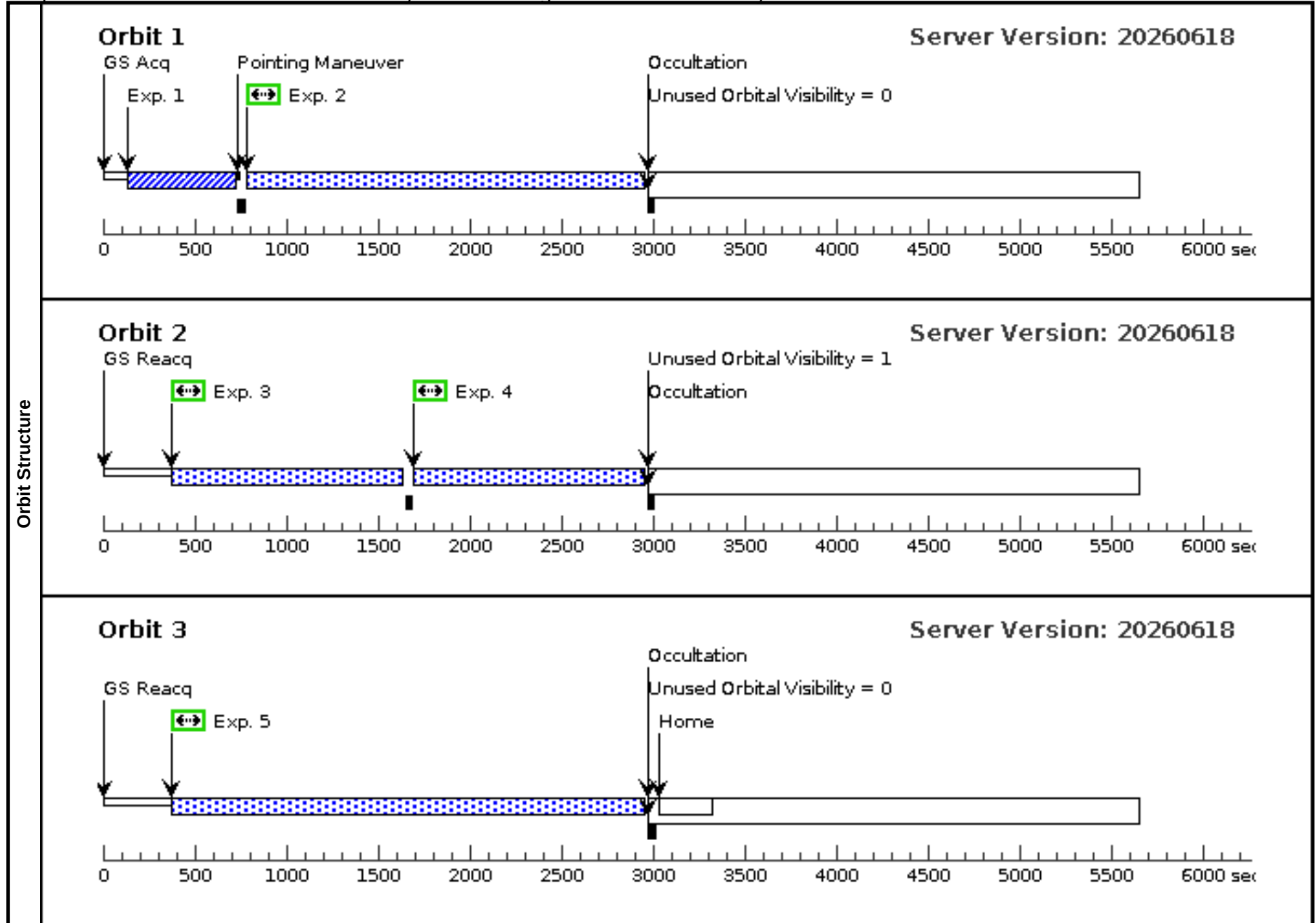
Proposal 18378 - Visit 03 - When Does Synchrotron Begin? A HST-COS Study of the Earliest Feedback Phase in Massive Stellar Clu...

Visit	Proposal 18378, Visit 03										Wed Aug 26 14:00:25 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		
	(3)	NGC3627-3	RA: 11 20 18.0348 (170.0751450d) Dec: +12 59 6.90 (12.98525d) Equinox: J2000					V=18.84 F275W= 96.33uJy (18.94 AB mag)		Reference Frame: ICRS		
	Comments: Category=EXT-CLUSTER Description=[SPIRAL ARM] Extended=NO											
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture		Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]		Orbit
	1	(COS.ta.236 6400)	(3) NGC3627-3	COS/NUV, ACQ/IMAGE, PSA		MIRRORB				51 Secs (51 Secs)		
										[==>]		[1]
	2	(COS.sp.236 6405)	(3) NGC3627-3	COS/FUV, TIME-TAG, PSA		G140L 800 A	LIFETIME-POS=LP 11; BUFFER-TIME=88 54; FP-POS=1			2000 Secs (2000 Secs)		
										[==>]		[1]
	Comments: With an 8000 s exposure, this source produced a HARD warning in the ETC calculation, with an S/N of 24.9 at 1240A. Therefore, we aim to detect this source using a total exposure time of 6000 s.											
	3	(COS.sp.236 6405)	(3) NGC3627-3	COS/FUV, TIME-TAG, PSA		G140L 800 A	LIFETIME-POS=LP 11; BUFFER-TIME=88 54; FP-POS=2			1600 Secs (1600 Secs)		
										[==>]		[2]
	Comments: With an 8000 s exposure, this source produced a HARD warning in the ETC calculation, with an S/N of 24.9 at 1240A. Therefore, we aim to detect this source using a total exposure time of 6000 s.											
	4	(COS.sp.236 6405)	(3) NGC3627-3	COS/FUV, TIME-TAG, PSA		G140L 800 A	LIFETIME-POS=LP 11; BUFFER-TIME=88 54; FP-POS=3			1300 Secs (1300 Secs)		
										[==>]		[3]
	Comments: With an 8000 s exposure, this source produced a HARD warning in the ETC calculation, with an S/N of 24.9 at 1240A. Therefore, we aim to detect this source using a total exposure time of 6000 s.											
	5	(COS.sp.236 6405)	(3) NGC3627-3	COS/FUV, TIME-TAG, PSA		G140L 800 A	LIFETIME-POS=LP 11; BUFFER-TIME=88 54; FP-POS=4			1100 Secs (1100 Secs)		
										[==>]		[3]
	Comments: With an 8000 s exposure, this source produced a HARD warning in the ETC calculation, with an S/N of 24.9 at 1240A. Therefore, we aim to detect this source using a total exposure time of 6000 s.											



Proposal 18378 - Visit 04 - When Does Synchrotron Begin? A HST-COS Study of the Earliest Feedback Phase in Massive Stellar Clu...

Visit	Proposal 18378, Visit 04										Wed Aug 26 14:00:25 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)	NGC3627-4		RA: 11 20 18.2674 (170.0761142d) Dec: +12 59 14.90 (12.98747d) Equinox: J2000				V=20.72 F275W = 36.0 uJy (20.01 AB mag)		Reference Frame: ICRS		
	Comments: Category=EXT-CLUSTER Description=[SPIRAL ARM] Extended=NO											
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture		Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]		Orbit
	1	(COS.ta.236 6411)	(4) NGC3627-4	COS/NUV, ACQ/IMAGE, PSA		MIRRORB				140 Secs (140 Secs)		
										[==>]		[1]
	2	(COS.sp.236 6413)	(4) NGC3627-4	COS/FUV, TIME-TAG, PSA		G140L 800 A	LIFETIME-POS=LP 11; BUFFER-TIME=10 614; FP-POS=1			2200 Secs (1965 Secs)		
										[==>1965.0 Secs]		[1]
	3	(COS.sp.236 6413)	(4) NGC3627-4	COS/FUV, TIME-TAG, PSA		G140L 800 A	LIFETIME-POS=LP 11; BUFFER-TIME=10 614; FP-POS=2			1400 Secs (1207 Secs)		
										[==>1207.0 Secs]		[2]
	4	(COS.sp.236 6413)	(4) NGC3627-4	COS/FUV, TIME-TAG, PSA		G140L 800 A	LIFETIME-POS=LP 11; BUFFER-TIME=10 614; FP-POS=3			1400 Secs (1207 Secs)		
										[==>1207.0 Secs]		[2]
	5	(COS.sp.236 6413)	(4) NGC3627-4	COS/FUV, TIME-TAG, PSA		G140L 800 A	LIFETIME-POS=LP 11; BUFFER-TIME=10 614; FP-POS=4			2600 Secs (2530 Secs)		
									[==>2530.0 Secs]		[3]	

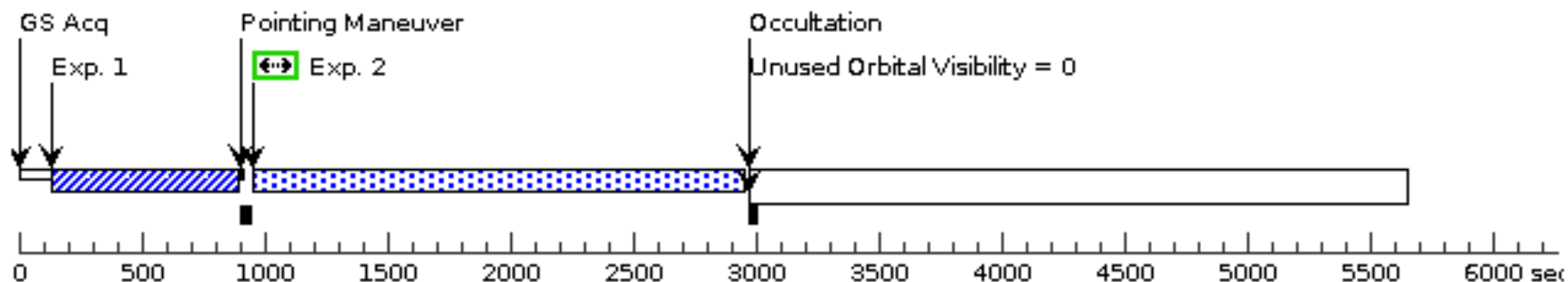


Proposal 18378 - Visit 05 - When Does Synchrotron Begin? A HST-COS Study of the Earliest Feedback Phase in Massive Stellar Clu...

Visit	Proposal 18378, Visit 05 Diagnostic Status: No Diagnostics Scientific Instruments: COS/FUV, COS/NUV Special Requirements: (none)										Wed Aug 26 14:00:25 GMT 2026	
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections		Fluxes		Miscellaneous				
	(5)	NGC4254-1	RA: 12 18 49.0363 (184.7043179d) Dec: +14 23 57.78 (14.39938d) Equinox: J2000			V=20.12 F275W= 22.82 uJy (20.5 AB mag)		Reference Frame: ICRS				
Comments: Category=EXT-CLUSTER Description=[SPIRAL ARM] Extended=NO												
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]		Orbit	
	1	(COS.ta.236 (5) NGC4254-1 6436)	(5) NGC4254-1	COS/NUV, ACQ/IMAGE, PSA	MIRRORB				224 Secs (224 Secs)			
									[==>]		[1]	
	2	(COS.sp.236 (5) NGC4254-1 6437)	(5) NGC4254-1	COS/FUV, TIME-TAG, PSA	G140L 800 A	LIFETIME-POS=LP 11; BUFFER-TIME=11 091; FP-POS=1			2200 Secs (1797 Secs)			
									[==>1797.0 Secs]		[1]	
	3	(COS.sp.236 (5) NGC4254-1 6437)	(5) NGC4254-1	COS/FUV, TIME-TAG, PSA	G140L 800 A	LIFETIME-POS=LP 11; BUFFER-TIME=11 091; FP-POS=2			1400 Secs (1212 Secs)			
									[==>1212.0 Secs]		[2]	
	4	(COS.sp.236 (5) NGC4254-1 6437)	(5) NGC4254-1	COS/FUV, TIME-TAG, PSA	G140L 800 A	LIFETIME-POS=LP 11; BUFFER-TIME=11 091; FP-POS=3			1400 Secs (1212 Secs)			
								[==>1212.0 Secs]		[2]		
	5	(COS.sp.236 (5) NGC4254-1 6437)	(5) NGC4254-1	COS/FUV, TIME-TAG, PSA	G140L 800 A	LIFETIME-POS=LP 11; BUFFER-TIME=11 091; FP-POS=4			2600 Secs (2530 Secs)			
									[==>2530.0 Secs]		[3]	

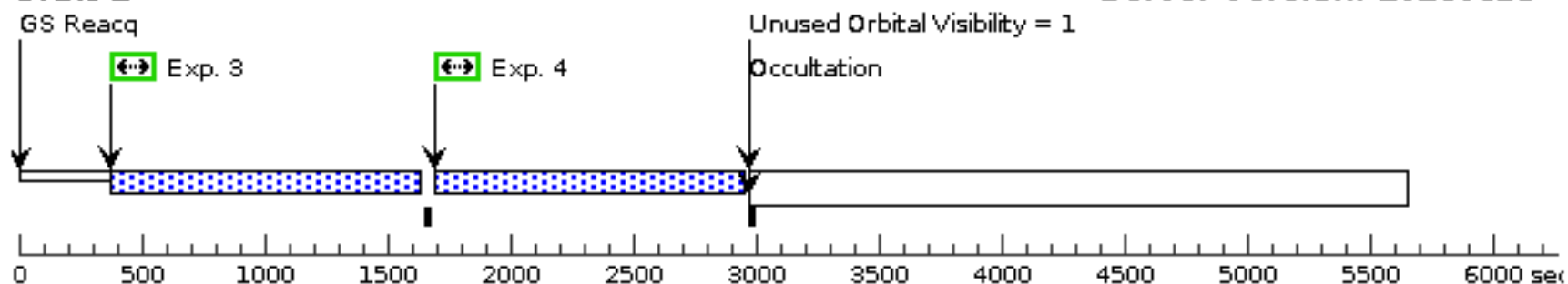
Orbit 1

Server Version: 20260618



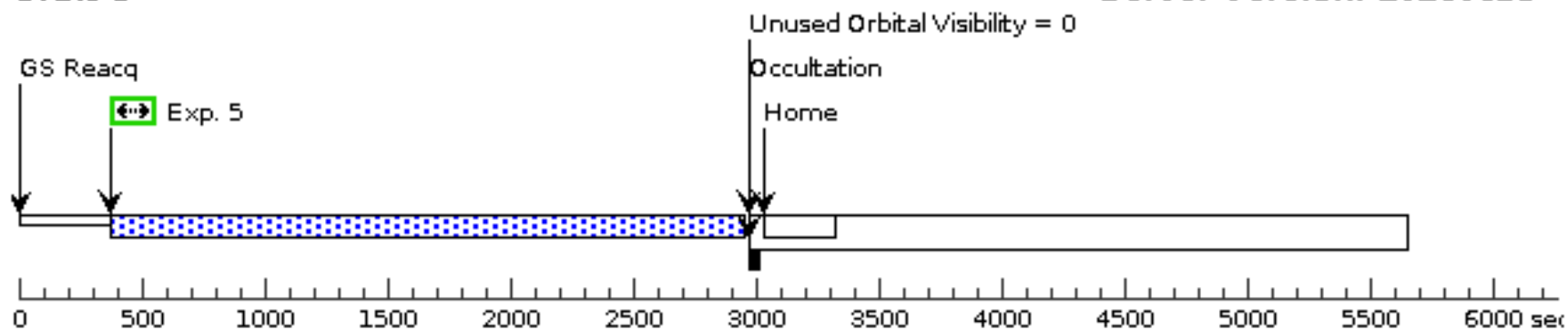
Orbit 2

Server Version: 20260618



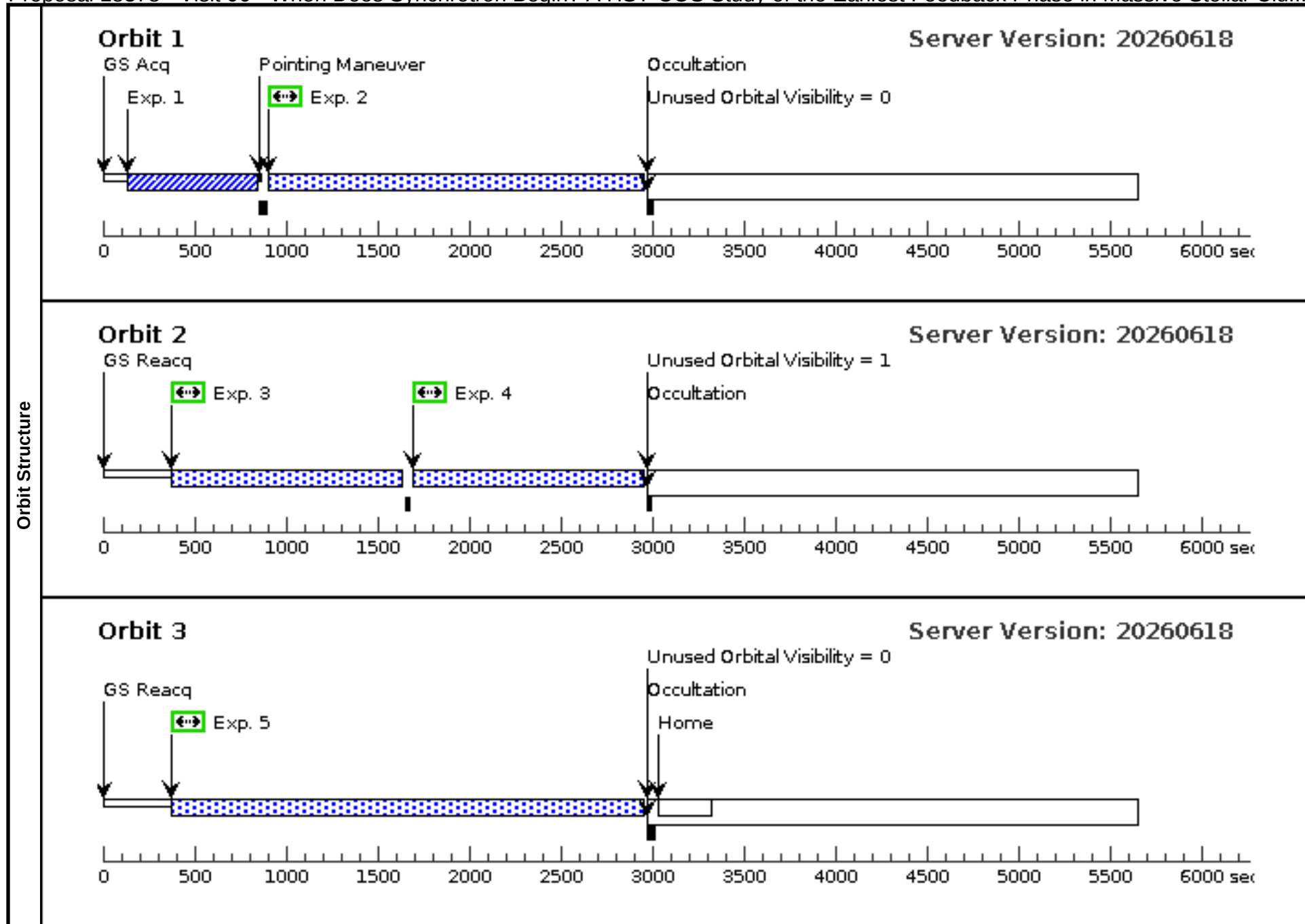
Orbit 3

Server Version: 20260618



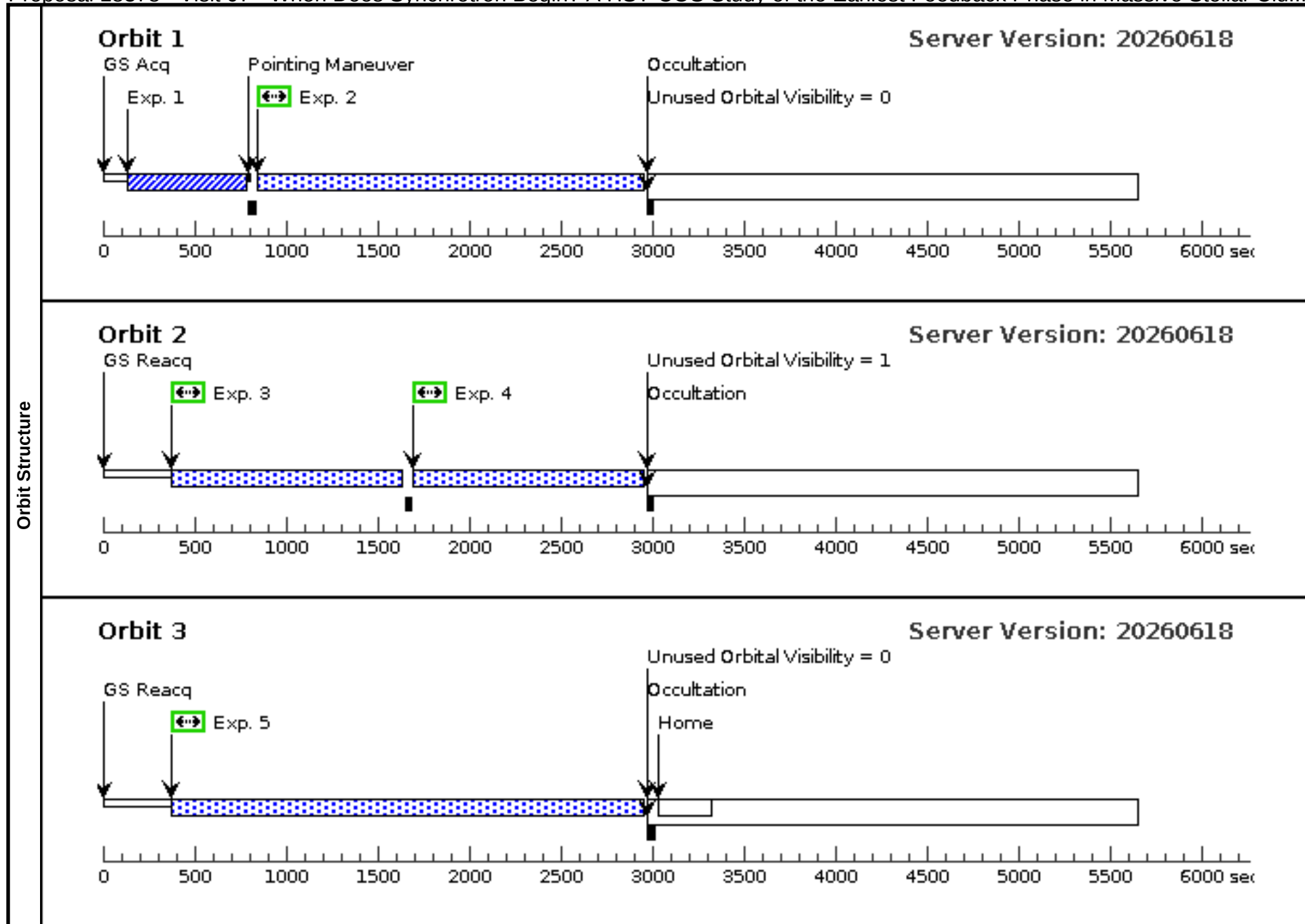
Proposal 18378 - Visit 06 - When Does Synchrotron Begin? A HST-COS Study of the Earliest Feedback Phase in Massive Stellar Clu...

Visit	Proposal 18378, Visit 06										Wed Aug 26 14:00:25 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		
	(6)	NGC4254-2		RA: 12 18 49.9447 (184.7081029d)				V= 20.25		Reference Frame: ICRS		
				Dec: +14 24 12.18 (14.40338d)				F275W= 25.63uJy (20.38 AB mag)				
				Equinox: J2000								
	Comments: Category=EXT-CLUSTER Description=[SPIRAL ARM] Extended=NO											
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture		Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]		Orbit
	1	(COS.ta.236 6443)	(6) NGC4254-2	COS/NUV, ACQ/IMAGE, PSA		MIRRORB				200 Secs (200 Secs)		
										[==>]		[1]
	2	(COS.sp.236 6446)	(6) NGC4254-2	COS/FUV, TIME-TAG, PSA		G140L 800 A	LIFETIME-POS=LP 11; BUFFER-TIME=10 990; FP-POS=1			2200 Secs (1845 Secs)		
										[==>1845.0 Secs]		[1]
	3	(COS.sp.236 6446)	(6) NGC4254-2	COS/FUV, TIME-TAG, PSA		G140L 800 A	LIFETIME-POS=LP 11; BUFFER-TIME=10 990; FP-POS=2			1400 Secs (1212 Secs)		
										[==>1212.0 Secs]		[2]
	4	(COS.sp.236 6446)	(6) NGC4254-2	COS/FUV, TIME-TAG, PSA		G140L 800 A	LIFETIME-POS=LP 11; BUFFER-TIME=10 990; FP-POS=3			1400 Secs (1212 Secs)		
										[==>1212.0 Secs]		[2]
	5	(COS.sp.236 6446)	(6) NGC4254-2	COS/FUV, TIME-TAG, PSA		G140L 800 A	LIFETIME-POS=LP 11; BUFFER-TIME=10 990; FP-POS=4			2600 Secs (2530 Secs)		
										[==>2530.0 Secs]		[3]



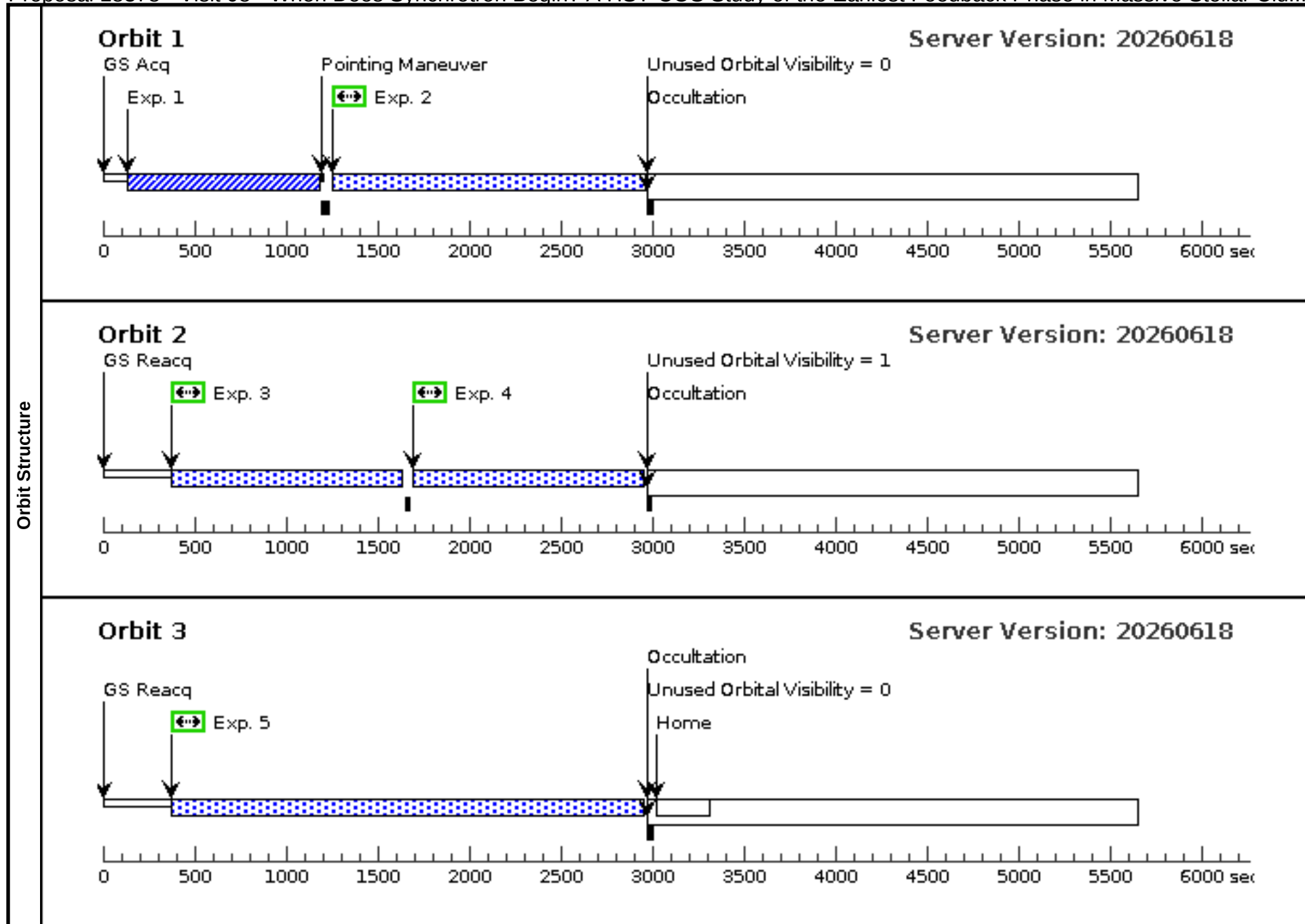
Proposal 18378 - Visit 07 - When Does Synchrotron Begin? A HST-COS Study of the Earliest Feedback Phase in Massive Stellar Clu...

Visit	Proposal 18378, Visit 07										Wed Aug 26 14:00:25 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		
	(7)	NGC4254-3		RA: 12 18 50.1788 (184.7090783d)				V=19.58		Reference Frame: ICRS		
				Dec: +14 24 18.18 (14.40505d)				F275W= 29.99uJy (20.21 AB mag)				
				Equinox: J2000								
	Comments: Category=EXT-CLUSTER Description=[SPIRAL ARM] Extended=NO											
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture		Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]		Orbit
	1	(COS.ta.236 (7) NGC4254-3 6449)		COS/NUV, ACQ/IMAGE, PSA		MIRRORB				170 Secs (170 Secs)		
										[==>]		[1]
	2	(COS.sp.236 (7) NGC4254-3 6450)		COS/FUV, TIME-TAG, PSA		G140L 800 A	LIFETIME-POS=LP 11; BUFFER-TIME=10 830; FP-POS=1			2200 Secs (1905 Secs)		
										[==>1905.0 Secs]		[1]
	3	(COS.sp.236 (7) NGC4254-3 6450)		COS/FUV, TIME-TAG, PSA		G140L 800 A	LIFETIME-POS=LP 11; BUFFER-TIME=10 830; FP-POS=2			1400 Secs (1207 Secs)		
										[==>1207.0 Secs]		[2]
	4	(COS.sp.236 (7) NGC4254-3 6450)		COS/FUV, TIME-TAG, PSA		G140L 800 A	LIFETIME-POS=LP 11; BUFFER-TIME=10 830; FP-POS=3			1400 Secs (1207 Secs)		
										[==>1207.0 Secs]		[2]
	5	(COS.sp.236 (7) NGC4254-3 6450)		COS/FUV, TIME-TAG, PSA		G140L 800 A	LIFETIME-POS=LP 11; BUFFER-TIME=10 830; FP-POS=4			2600 Secs (2530 Secs)		
										[==>2530.0 Secs]		[3]



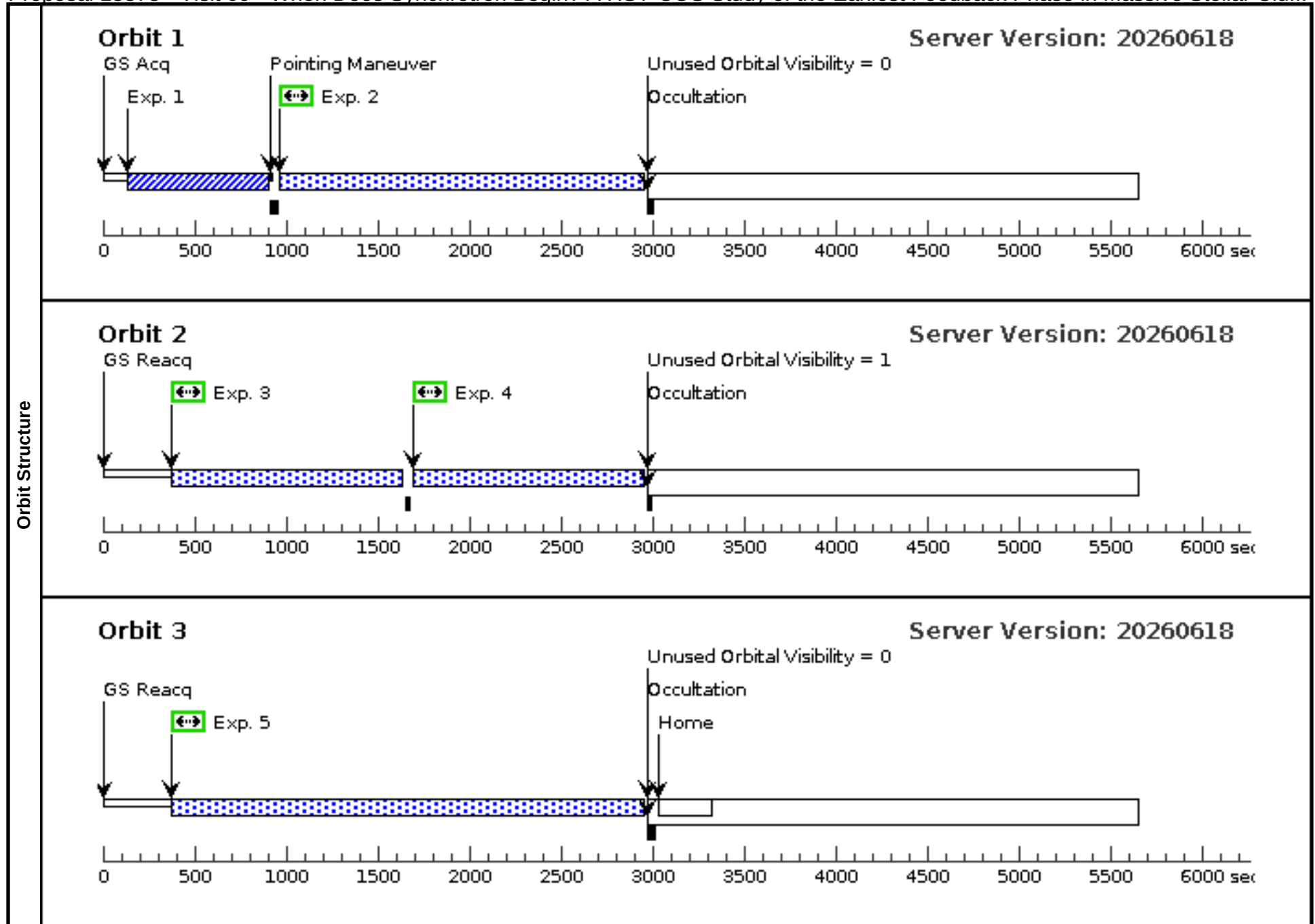
Proposal 18378 - Visit 08 - When Does Synchrotron Begin? A HST-COS Study of the Earliest Feedback Phase in Massive Stellar Clu...

Visit	Proposal 18378, Visit 08										Wed Aug 26 14:00:25 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		
	(8)	NGC4254-4		RA: 12 18 47.8247 (184.6992696d) Dec: +14 24 35.78 (14.40994d) Equinox: J2000				V=20.87 F275W = 14.21uJy (21.02 AB mag)		Reference Frame: ICRS		
	Comments: Category=EXT-CLUSTER Description=[SPIRAL ARM] Extended=NO											
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture		Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]		Orbit
	1	(COS.ta.236 6452)	(8) NGC4254-4	COS/NUV, ACQ/IMAGE, PSA		MIRRORB				373 Secs (373 Secs)		
										[==>]		[1]
	2	(COS.sp.236 6453)	(8) NGC4254-4	COS/FUV, TIME-TAG, PSA		G140L 800 A	LIFETIME-POS=LP 11; BUFFER-TIME=11 434; FP-POS=1			2200 Secs (1499 Secs)		
										[==>1499.0 Secs]		[1]
	3	(COS.sp.236 6453)	(8) NGC4254-4	COS/FUV, TIME-TAG, PSA		G140L 800 A	LIFETIME-POS=LP 11; BUFFER-TIME=11 434; FP-POS=2			1400 Secs (1212 Secs)		
										[==>1212.0 Secs]		[2]
	4	(COS.sp.236 6453)	(8) NGC4254-4	COS/FUV, TIME-TAG, PSA		G140L 800 A	LIFETIME-POS=LP 11; BUFFER-TIME=11 434; FP-POS=3			1400 Secs (1212 Secs)		
										[==>1212.0 Secs]		[2]
	5	(COS.sp.236 6453)	(8) NGC4254-4	COS/FUV, TIME-TAG, PSA		G140L 800 A	LIFETIME-POS=LP 11; BUFFER-TIME=11 434; FP-POS=4			2600 Secs (2530 Secs)		
									[==>2530.0 Secs]		[3]	



Proposal 18378 - Visit 09 - When Does Synchrotron Begin? A HST-COS Study of the Earliest Feedback Phase in Massive Stellar Clu...

Visit	Proposal 18378, Visit 09										Wed Aug 26 14:00:25 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			
	(9)	NGC4254-5	RA: 12 18 48.6369 (184.7026537d) Dec: +14 24 40.58 (14.41127d) Equinox: J2000				V=20.17 F275W= 22.44uJy (20.52 AB mag)		Reference Frame: ICRS			
	Comments: Category=EXT-CLUSTER Description=[SPIRAL ARM] Extended=NO											
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]		Orbit	
	1	(COS.ta.236 6455)	(9) NGC4254-5	COS/NUV, ACQ/IMAGE, PSA	MIRRORB				229 Secs (229 Secs)			
									[==>]		[1]	
	2	(COS.sp.236 6456)	(9) NGC4254-5	COS/FUV, TIME-TAG, PSA	G140L 800 A	LIFETIME-POS=LP 11; BUFFER-TIME=11 107; FP-POS=1			2200 Secs (1787 Secs)			
									[==>1787.0 Secs]		[1]	
	3	(COS.sp.236 6456)	(9) NGC4254-5	COS/FUV, TIME-TAG, PSA	G140L 800 A	LIFETIME-POS=LP 11; BUFFER-TIME=11 107; FP-POS=2			1400 Secs (1212 Secs)			
									[==>1212.0 Secs]		[2]	
	4	(COS.sp.236 6456)	(9) NGC4254-5	COS/FUV, TIME-TAG, PSA	G140L 800 A	LIFETIME-POS=LP 11; BUFFER-TIME=11 107; FP-POS=3			1400 Secs (1212 Secs)			
									[==>1212.0 Secs]		[2]	
	5	(COS.sp.236 6456)	(9) NGC4254-5	COS/FUV, TIME-TAG, PSA	G140L 800 A	LIFETIME-POS=LP 11; BUFFER-TIME=11 107; FP-POS=4			2600 Secs (2530 Secs)			
									[==>2530.0 Secs]		[3]	

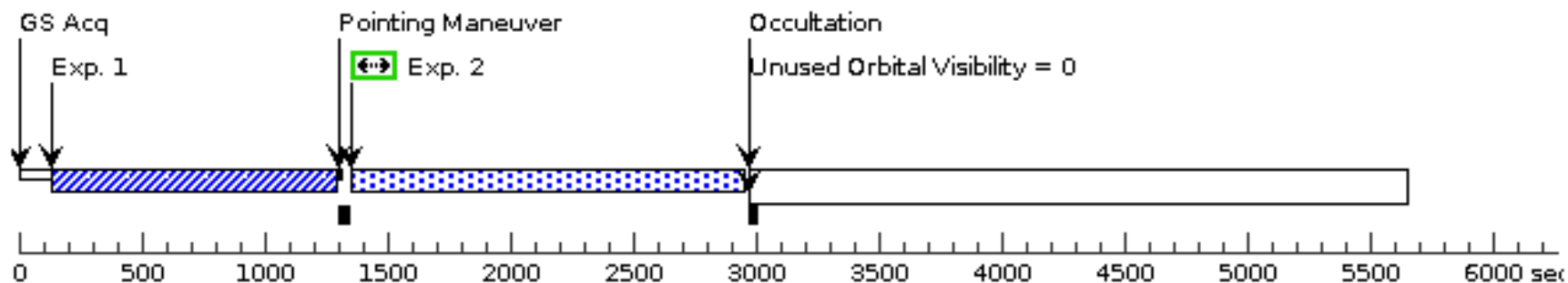


Proposal 18378 - Visit 10 - When Does Synchrotron Begin? A HST-COS Study of the Earliest Feedback Phase in Massive Stellar Clu...

Visit	Proposal 18378, Visit 10										Wed Aug 26 14:00:25 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			
	(10)	NGC4254-6	RA: 12 18 47.4805 (184.6978354d) Dec: +14 24 41.98 (14.41166d) Equinox: J2000				V=20.18 F275W = 12.64uJy (21.15 AB mag)	Reference Frame: ICRS			
Comments: Category=EXT-CLUSTER Description=[SPIRAL ARM] Extended=NO											
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]		Orbit
	1	(COS.ta.236 6462)	(10) NGC4254-6	COS/NUV, ACQ/IMAGE, PSA	MIRRORB				425 Secs (425 Secs)		
									[==>]		[1]
	2	(COS.sp.236 6463)	(10) NGC4254-6	COS/FUV, TIME-TAG, PSA	G140L 800 A	LIFETIME-POS=LP 11; BUFFER-TIME=11 499; FP-POS=1			2000 Secs (1395 Secs)		
									[==>1395.0 Secs]		[1]
	3	(COS.sp.236 6463)	(10) NGC4254-6	COS/FUV, TIME-TAG, PSA	G140L 800 A	LIFETIME-POS=LP 11; BUFFER-TIME=11 499; FP-POS=2			2000 Secs (2530 Secs)		
									[==>2530.0 Secs]		[2]
	4	(COS.sp.236 6463)	(10) NGC4254-6	COS/FUV, TIME-TAG, PSA	G140L 800 A	LIFETIME-POS=LP 11; BUFFER-TIME=11 499; FP-POS=3			2000 Secs (2530 Secs)		
									[==>2530.0 Secs]		[3]
	5	(COS.sp.236 6463)	(10) NGC4254-6	COS/FUV, TIME-TAG, PSA	G140L 800 A	LIFETIME-POS=LP 11; BUFFER-TIME=11 499; FP-POS=4			2000 Secs (2530 Secs)		
								[==>2530.0 Secs]		[4]	

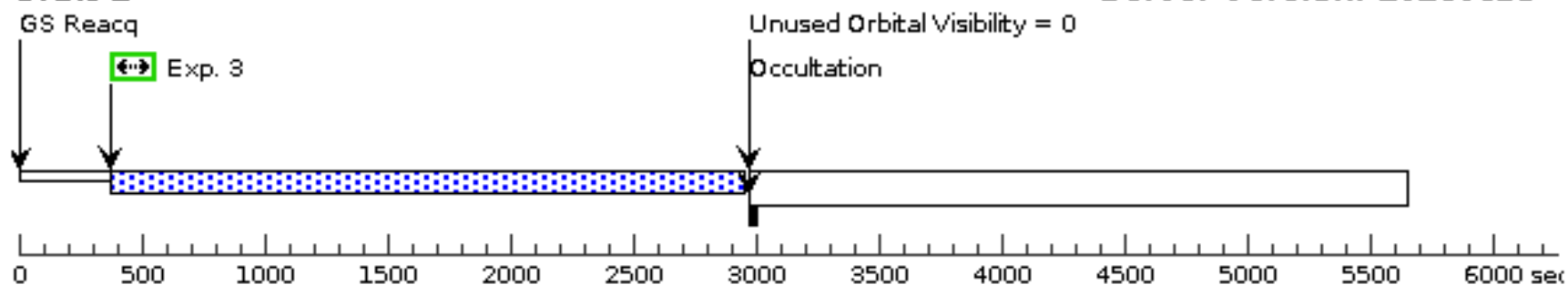
Orbit 1

Server Version: 20260618



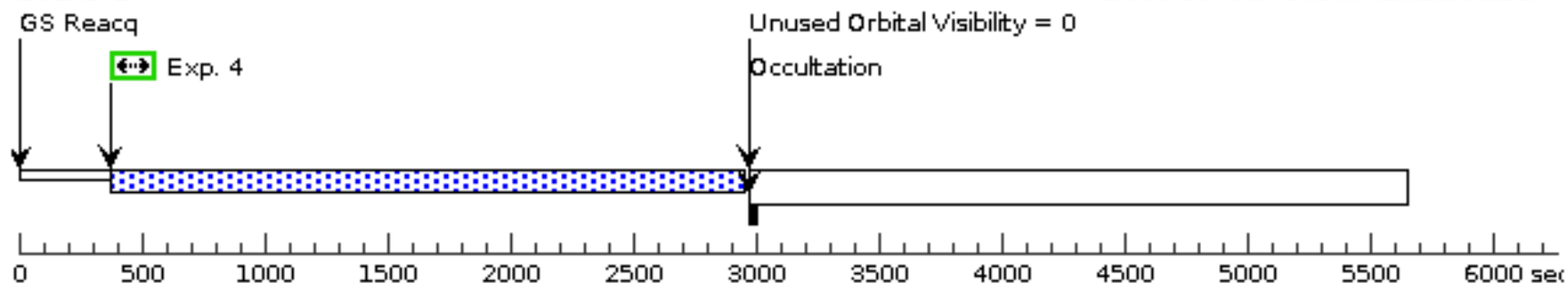
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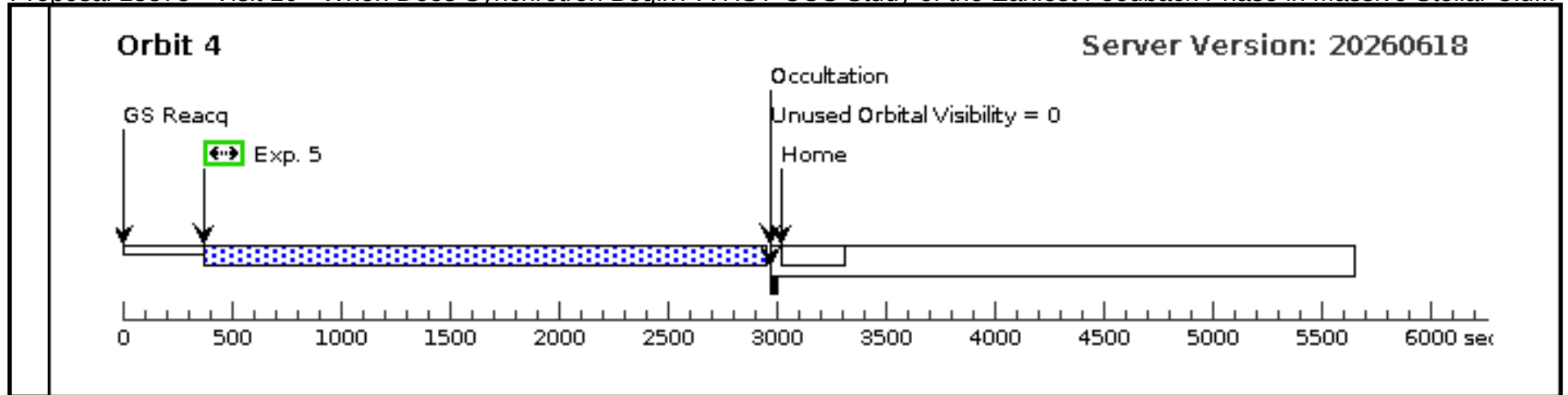
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Orbit 3

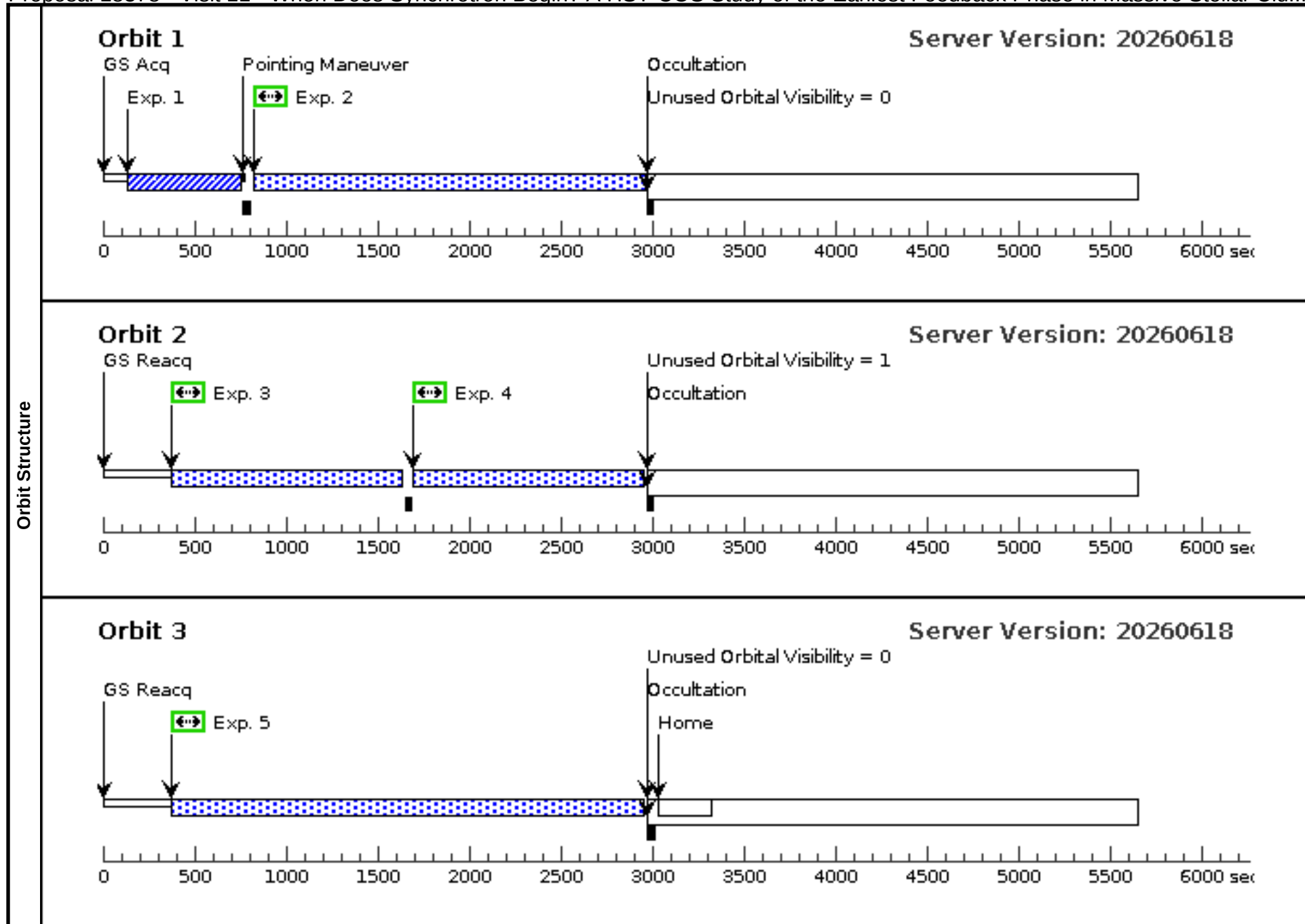
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Proposal 18378 - Visit 11 - When Does Synchrotron Begin? A HST-COS Study of the Earliest Feedback Phase in Massive Stellar Clu...

Visit	Proposal 18378, Visit 11										Wed Aug 26 14:00:25 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		
	(11)	NGC4254-7	RA: 12 18 50.6606 (184.7110858d) Dec: +14 24 45.58 (14.41266d) Equinox: J2000					V=19.44 F275W= 32.13uJy (20.13 AB mag)		Reference Frame: ICRS		
	Comments: Category=EXT-CLUSTER Description=[SPIRAL ARM] Extended=NO											
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture		Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]		Orbit
	1	(COS.ta.236 6464)	(11) NGC4254-7	COS/NUV, ACQ/IMAGE, PSA		MIRRORB				157 Secs (157 Secs)		
										[==>]		[1]
	2	(COS.sp.236 6466)	(11) NGC4254-7	COS/FUV, TIME-TAG, PSA		G140L 800 A	LIFETIME-POS=LP 11; BUFFER-TIME=10 747; FP-POS=1			2200 Secs (1931 Secs)		
										[==>1931.0 Secs]		[1]
	3	(COS.sp.236 6466)	(11) NGC4254-7	COS/FUV, TIME-TAG, PSA		G140L 800 A	LIFETIME-POS=LP 11; BUFFER-TIME=10 747; FP-POS=2			1400 Secs (1207 Secs)		
										[==>1207.0 Secs]		[2]
	4	(COS.sp.236 6466)	(11) NGC4254-7	COS/FUV, TIME-TAG, PSA		G140L 800 A	LIFETIME-POS=LP 11; BUFFER-TIME=10 747; FP-POS=3			1400 Secs (1207 Secs)		
										[==>1207.0 Secs]		[2]
	5	(COS.sp.236 6466)	(11) NGC4254-7	COS/FUV, TIME-TAG, PSA		G140L 800 A	LIFETIME-POS=LP 11; BUFFER-TIME=10 747; FP-POS=4			2600 Secs (2530 Secs)		
									[==>2530.0 Secs]		[3]	

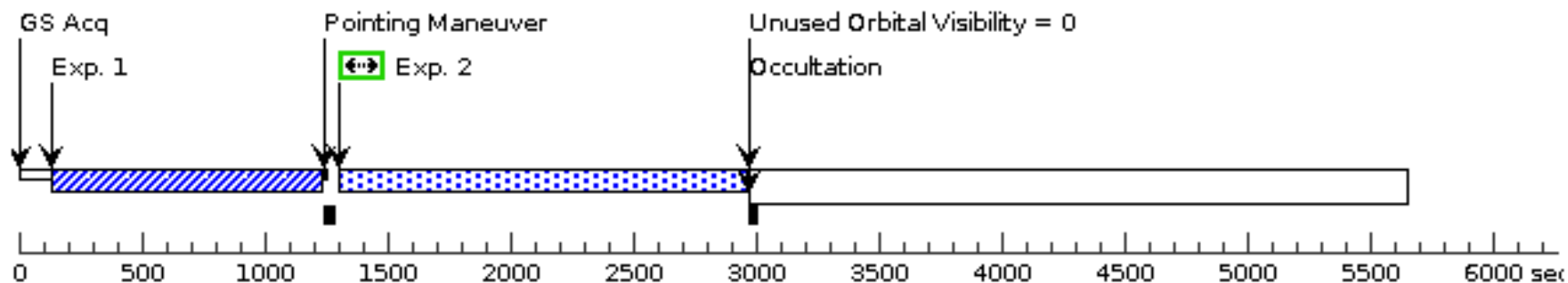


Proposal 18378 - Visit 12 - When Does Synchrotron Begin? A HST-COS Study of the Earliest Feedback Phase in Massive Stellar Clu...

Visit	Proposal 18378, Visit 12										Wed Aug 26 14:00:25 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		
	(12)	NGC4254-8	RA: 12 18 52.3814 (184.7182558d)					V=20.12		Reference Frame: ICRS		
			Dec: +14 25 1.18 (14.41699d)					F275W= 13.39 uJy (21.08 AB mag)				
			Equinox: J2000									
	Comments: Category=EXT-CLUSTER Description=[SPIRAL ARM] Extended=NO											
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture		Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]		Orbit
	1	(COS.ta.236 6468)	(12) NGC4254-8	COS/NUV, ACQ/IMAGE, PSA		MIRRORB				396 Secs (396 Secs)		
										[==>]		[1]
	2	(COS.sp.236 6470)	(12) NGC4254-8	COS/FUV, TIME-TAG, PSA		G140L 800 A	LIFETIME-POS=LP 11; BUFFER-TIME=11 464; FP-POS=1			2000 Secs (1453 Secs)		
										[==>1453.0 Secs]		[1]
	3	(COS.sp.236 6470)	(12) NGC4254-8	COS/FUV, TIME-TAG, PSA		G140L 800 A	LIFETIME-POS=LP 11; BUFFER-TIME=11 464; FP-POS=2			2000 Secs (2530 Secs)		
										[==>2530.0 Secs]		[2]
	4	(COS.sp.236 6470)	(12) NGC4254-8	COS/FUV, TIME-TAG, PSA		G140L 800 A	LIFETIME-POS=LP 11; BUFFER-TIME=11 464; FP-POS=3			2000 Secs (2530 Secs)		
										[==>2530.0 Secs]		[3]
	5	(COS.sp.236 6470)	(12) NGC4254-8	COS/FUV, TIME-TAG, PSA		G140L 800 A	LIFETIME-POS=LP 11; BUFFER-TIME=11 464; FP-POS=4			2000 Secs (2530 Secs)		
										[==>2530.0 Secs]		[4]

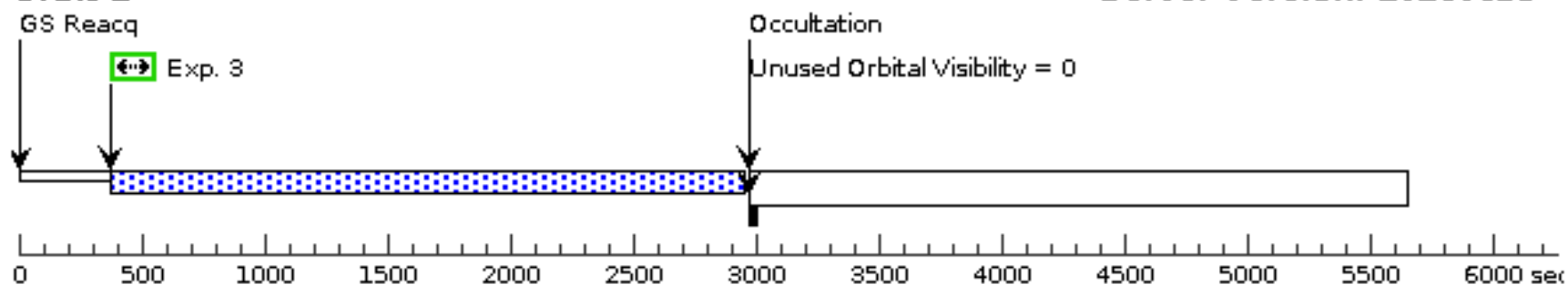
Orbit 1

Server Version: 20260618



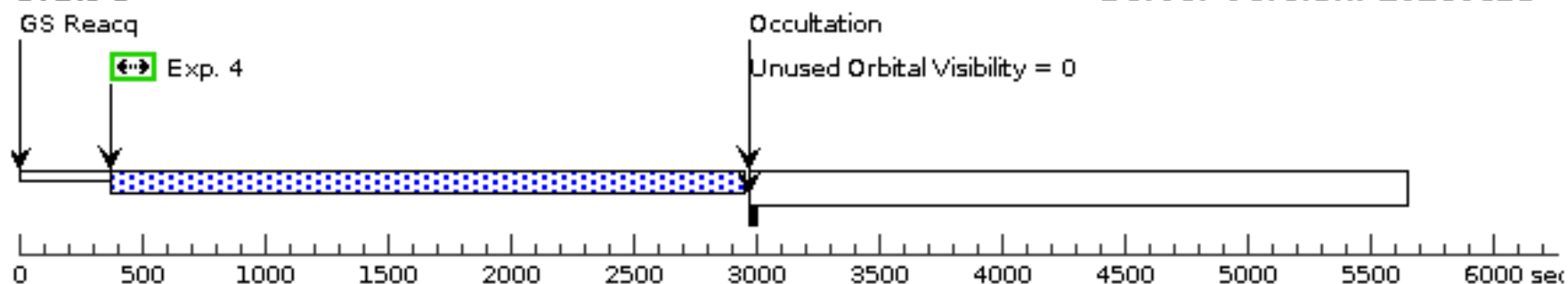
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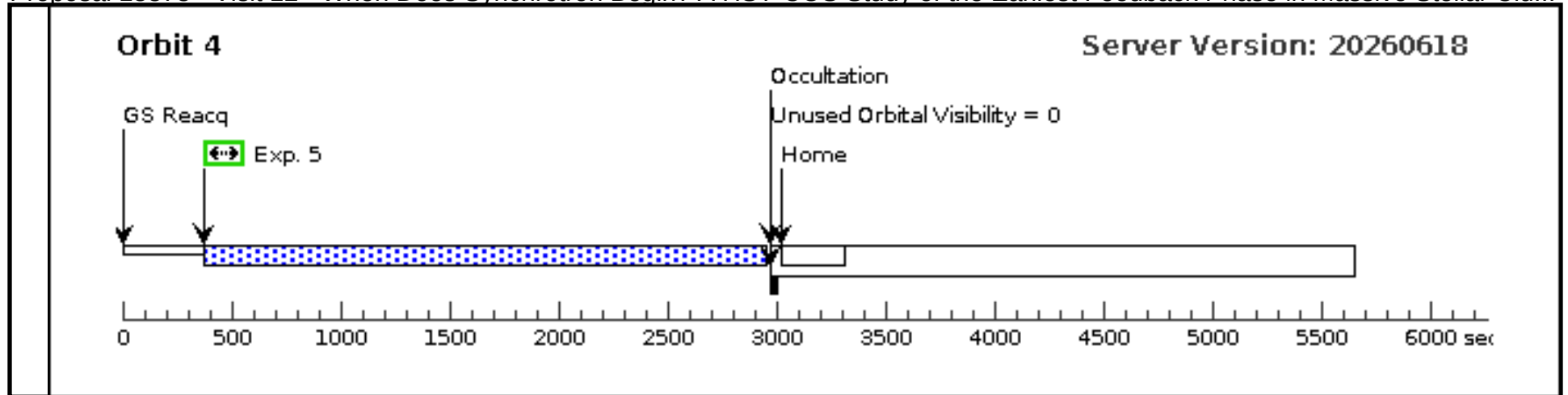
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Orbit 3

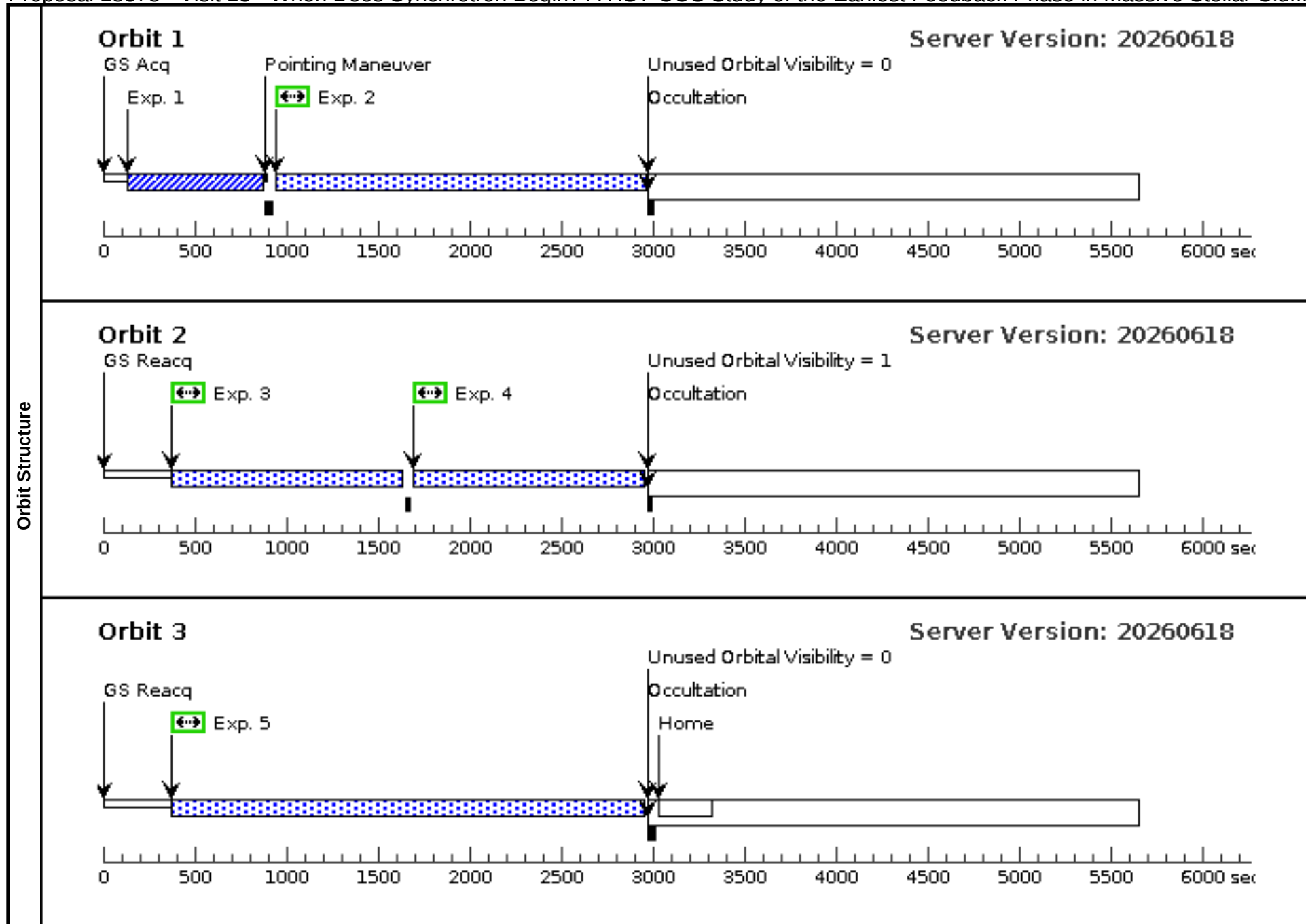
Server Version: 20260618





Proposal 18378 - Visit 13 - When Does Synchrotron Begin? A HST-COS Study of the Earliest Feedback Phase in Massive Stellar Clu...

Visit	Proposal 18378, Visit 13										Wed Aug 26 14:00:25 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		
	(13)	NGC4254-9	RA: 12 18 53.0285 (184.7209521d) Dec: +14 25 2.38 (14.41733d) Equinox: J2000					V=20.19 F275W= 23.48uJy (20.47 AB mag)		Reference Frame: ICRS		
	Comments: Category=EXT-CLUSTER Description=[SPIRAL ARM] Extended=NO											
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture		Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]		Orbit
	1	(COS.ta.236 6471)	(13) NGC4254-9	COS/NUV, ACQ/IMAGE, PSA		MIRRORB				218 Secs (218 Secs)		
										[==>]		[1]
	2	(COS.sp.236 6472)	(13) NGC4254-9	COS/FUV, TIME-TAG, PSA		G140L 800 A	LIFETIME-POS=LP 11; BUFFER-TIME=11 066; FP-POS=1			2200 Secs (1809 Secs)		
										[==>1809.0 Secs]		[1]
	3	(COS.sp.236 6472)	(13) NGC4254-9	COS/FUV, TIME-TAG, PSA		G140L 800 A	LIFETIME-POS=LP 11; BUFFER-TIME=11 066; FP-POS=2			1400 Secs (1212 Secs)		
										[==>1212.0 Secs]		[2]
	4	(COS.sp.236 6472)	(13) NGC4254-9	COS/FUV, TIME-TAG, PSA		G140L 800 A	LIFETIME-POS=LP 11; BUFFER-TIME=11 066; FP-POS=3			1400 Secs (1212 Secs)		
										[==>1212.0 Secs]		[2]
	5	(COS.sp.236 6472)	(13) NGC4254-9	COS/FUV, TIME-TAG, PSA		G140L 800 A	LIFETIME-POS=LP 11; BUFFER-TIME=11 066; FP-POS=4			2600 Secs (2530 Secs)		
										[==>2530.0 Secs]		[3]

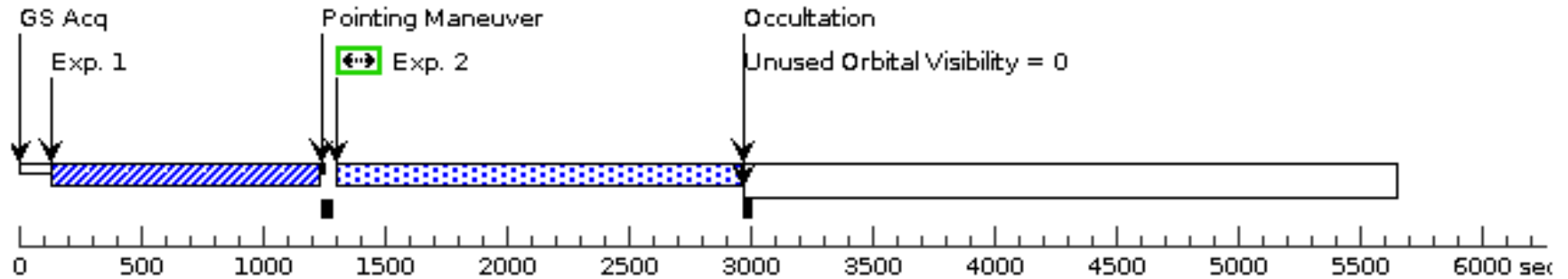


Proposal 18378 - Visit 14 - When Does Synchrotron Begin? A HST-COS Study of the Earliest Feedback Phase in Massive Stellar Clu...

Visit	Proposal 18378, Visit 14										Wed Aug 26 14:00:25 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					
	(14)	NGC4254-10	RA: 12 18 56.8284 (184.7367850d) Dec: +14 25 52.58 (14.43127d) Equinox: J2000			V=20.42 F275W= 13.45uJy (21.08 AB mag)		Reference Frame: ICRS					
Comments: Category=EXT-CLUSTER Description=[SPIRAL ARM] Extended=NO													
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]		Orbit		
	1	(COS.ta.236 6473)	(14) NGC4254-10	COS/NUV, ACQ/IMAGE, PSA	MIRRORB				396 Secs (396 Secs)				
										[==>]	[1]		
	2	(COS.sp.236 6476)	(14) NGC4254-10	COS/FUV, TIME-TAG, PSA	G140L 800 A	LIFETIME-POS=LP 11; BUFFER-TIME=11 464; FP-POS=1				2000 Secs (1453 Secs)			
										[==>1453.0 Secs]	[1]		
	3	(COS.sp.236 6476)	(14) NGC4254-10	COS/FUV, TIME-TAG, PSA	G140L 800 A	LIFETIME-POS=LP 11; BUFFER-TIME=11 464; FP-POS=2				2000 Secs (2530 Secs)			
										[==>2530.0 Secs]	[2]		
	4	(COS.sp.236 6476)	(14) NGC4254-10	COS/FUV, TIME-TAG, PSA	G140L 800 A	LIFETIME-POS=LP 11; BUFFER-TIME=11 464; FP-POS=3				2000 Secs (2530 Secs)			
										[==>2530.0 Secs]	[3]		
	5	(COS.sp.236 6476)	(14) NGC4254-10	COS/FUV, TIME-TAG, PSA	G140L 800 A	LIFETIME-POS=LP 11; BUFFER-TIME=11 464; FP-POS=4				2000 Secs (2530 Secs)			
									[==>2530.0 Secs]	[4]			

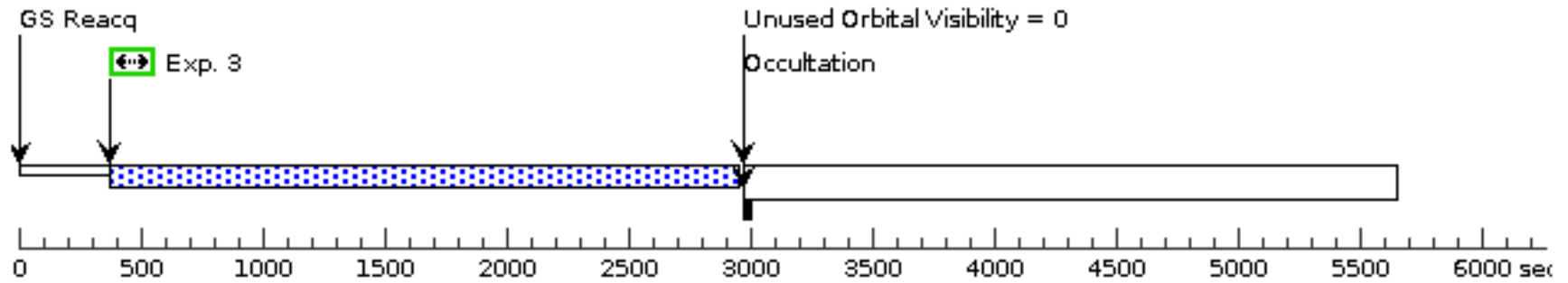
Orbit 1

Server Version: 20260618



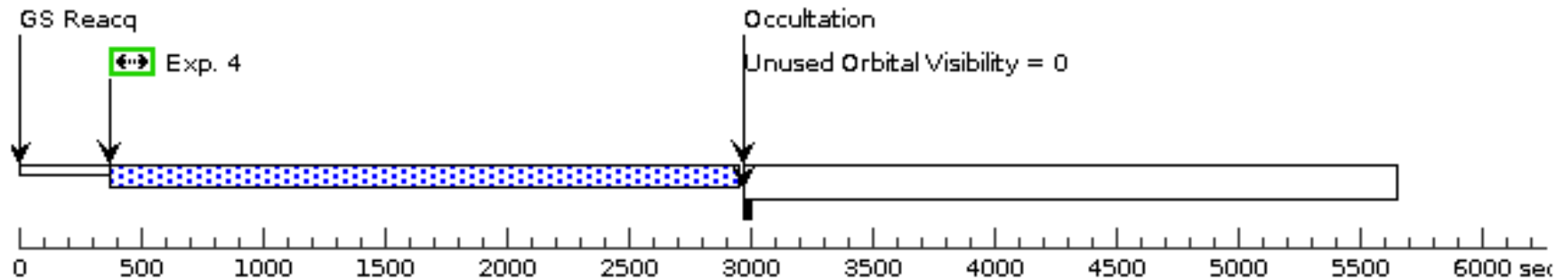
Orbit 2

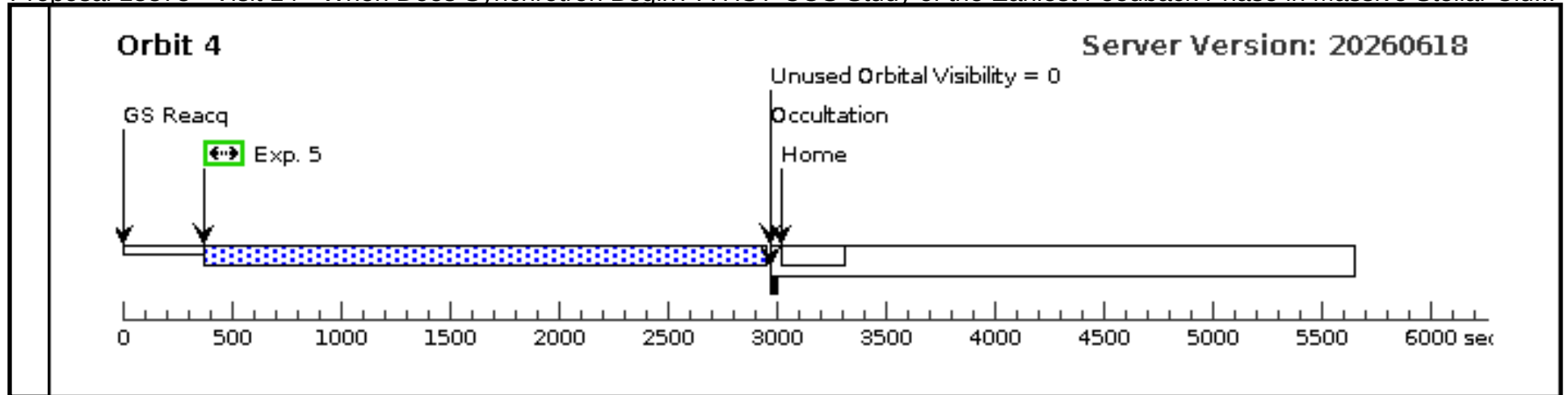
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Orbit 3

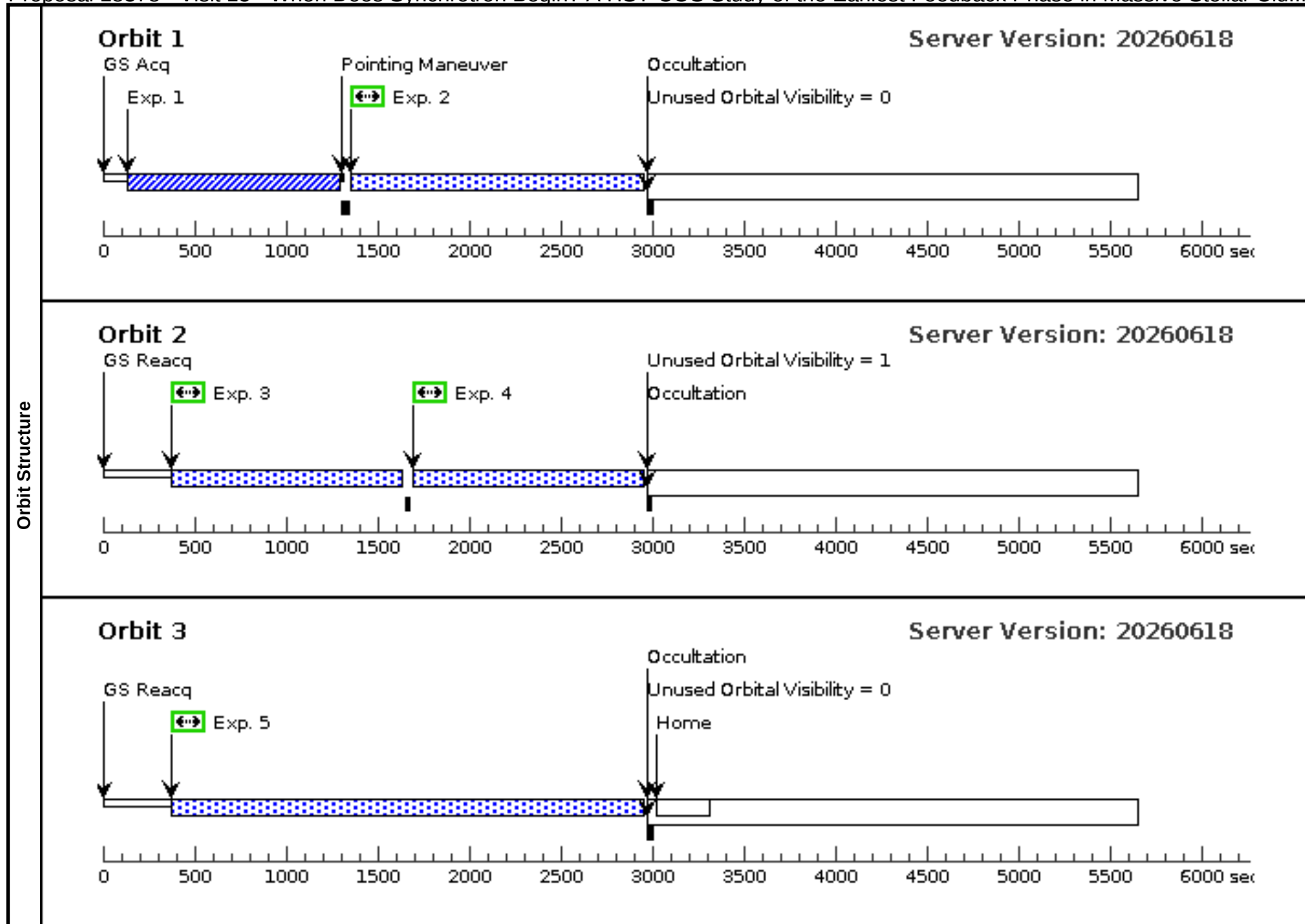
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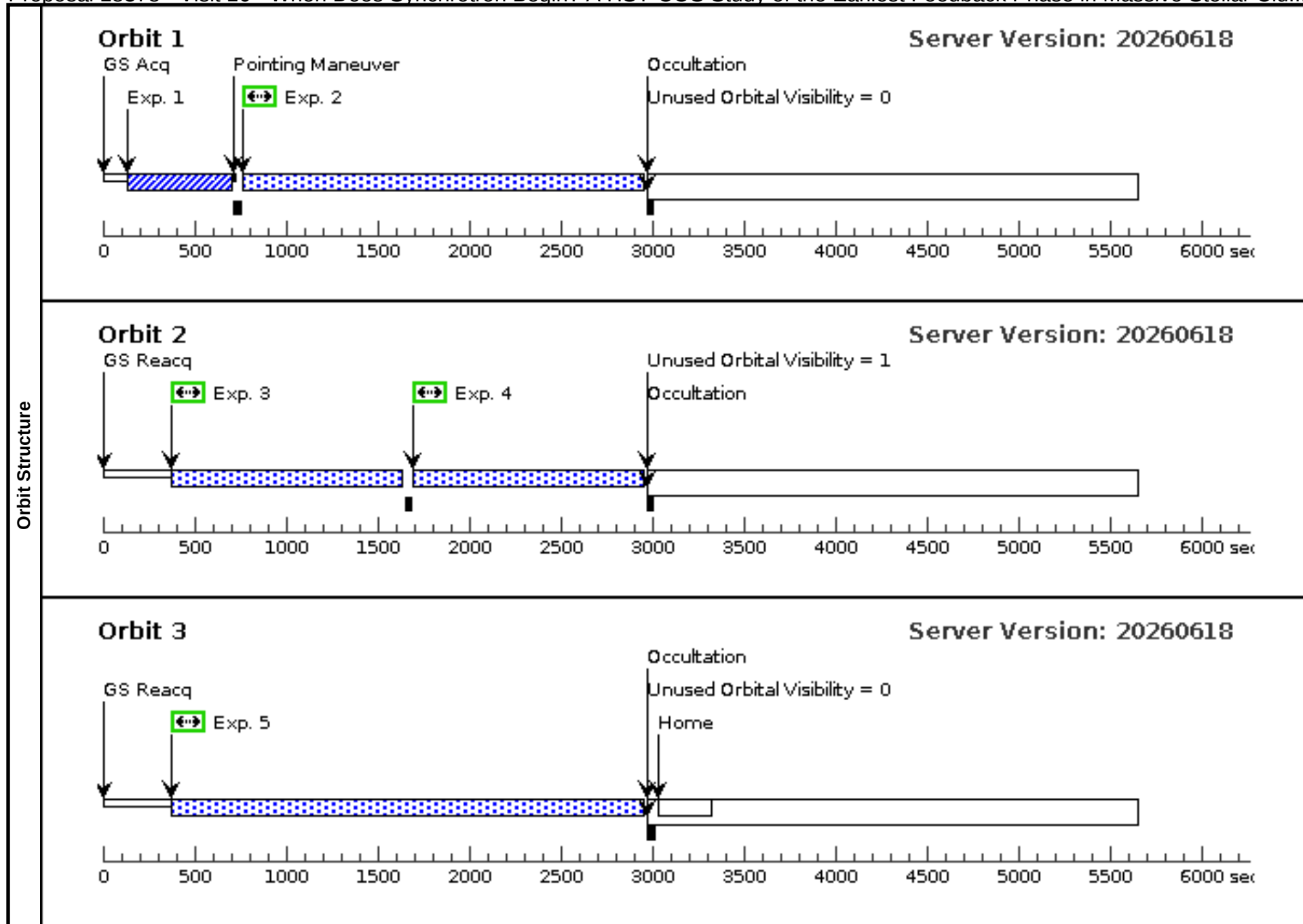
Proposal 18378 - Visit 15 - When Does Synchrotron Begin? A HST-COS Study of the Earliest Feedback Phase in Massive Stellar Clu...

Visit	Proposal 18378, Visit 15										Wed Aug 26 14:00:25 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		
	(15)	NGC4254-11	RA: 12 18 47.4805 (184.6978354d) Dec: +14 24 41.98 (14.41166d) Equinox: J2000					V=20.18 F275W= 12.64 uJY (21.15 A B mag)		Reference Frame: ICRS		
Comments: Category=EXT-CLUSTER Description=[SPIRAL ARM] Extended=NO												
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture		Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]		Orbit
	1	(COS.ta.236 (15) NGC4254-11 7715)	(15) NGC4254-11	COS/NUV, ACQ/IMAGE, PSA		MIRRORB				425 Secs (425 Secs)		
										[==>]		[1]
	2	(COS.sp.236 (15) NGC4254-11 7716)	(15) NGC4254-11	COS/FUV, TIME-TAG, PSA		G140L 800 A	LIFETIME-POS=LP 11; BUFFER-TIME=11 499; FP-POS=1			2200 Secs (1395 Secs)		
										[==>1395.0 Secs]		[1]
	3	(COS.sp.236 (15) NGC4254-11 7716)	(15) NGC4254-11	COS/FUV, TIME-TAG, PSA		G140L 800 A	LIFETIME-POS=LP 11; BUFFER-TIME=11 499; FP-POS=2			1400 Secs (1212 Secs)		
										[==>1212.0 Secs]		[2]
	4	(COS.sp.236 (15) NGC4254-11 7716)	(15) NGC4254-11	COS/FUV, TIME-TAG, PSA		G140L 800 A	LIFETIME-POS=LP 11; BUFFER-TIME=11 499; FP-POS=3			1400 Secs (1212 Secs)		
										[==>1212.0 Secs]		[2]
	5	(COS.sp.236 (15) NGC4254-11 7716)	(15) NGC4254-11	COS/FUV, TIME-TAG, PSA		G140L 800 A	LIFETIME-POS=LP 11; BUFFER-TIME=11 499; FP-POS=4			2600 Secs (2530 Secs)		
									[==>2530.0 Secs]		[3]	



Proposal 18378 - Visit 16 - When Does Synchrotron Begin? A HST-COS Study of the Earliest Feedback Phase in Massive Stellar Clu...

Visit	Proposal 18378, Visit 16										Wed Aug 26 14:00:25 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			
	(16)	NGC4254-12	RA: 12 18 53.9785 (184.7249104d) Dec: +14 25 56.98 (14.43249d) Equinox: J2000				V=19.83 F275W= 39.16uJy (19.92 AB mag)		Reference Frame: ICRS			
	Comments: Category=EXT-CLUSTER Description=[SPIRAL ARM] Extended=NO											
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]		Orbit	
	1	(COS.ta.236 6482)	(16) NGC4254-12	COS/NUV, ACQ/IMAGE, PSA	MIRRORB				129 Secs (129 Secs)			
									[==>]		[1]	
	2	(COS.sp.236 6483)	(16) NGC4254-12	COS/FUV, TIME-TAG, PSA	G140L 800 A	LIFETIME-POS=LP 11; BUFFER-TIME=10 506; FP-POS=1			2200 Secs (1987 Secs)			
									[==>1987.0 Secs]		[1]	
	3	(COS.sp.236 6483)	(16) NGC4254-12	COS/FUV, TIME-TAG, PSA	G140L 800 A	LIFETIME-POS=LP 11; BUFFER-TIME=10 506; FP-POS=2			1400 Secs (1207 Secs)			
									[==>1207.0 Secs]		[2]	
	4	(COS.sp.236 6483)	(16) NGC4254-12	COS/FUV, TIME-TAG, PSA	G140L 800 A	LIFETIME-POS=LP 11; BUFFER-TIME=10 506; FP-POS=3			1400 Secs (1207 Secs)			
									[==>1207.0 Secs]		[2]	
	5	(COS.sp.236 6483)	(16) NGC4254-12	COS/FUV, TIME-TAG, PSA	G140L 800 A	LIFETIME-POS=LP 11; BUFFER-TIME=10 506; FP-POS=4			2600 Secs (2530 Secs)			
								[==>2530.0 Secs]		[3]		



Proposal 18378 - Visit 17 - When Does Synchrotron Begin? A HST-COS Study of the Earliest Feedback Phase in Massive Stellar Clu...

Visit	Proposal 18378, Visit 17										Wed Aug 26 14:00:26 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		
	(17)	NGC4254-13		RA: 12 18 48.9257 (184.7038571d)				V=19.74		Reference Frame: ICRS		
				Dec: +14 26 6.58 (14.43516d)				F275W= 42.48uJy (19.83 mag)				
				Equinox: J2000								
	Comments: Category=EXT-CLUSTER Description=[SPIRAL ARM] Extended=NO											
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture		Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]		Orbit
	1	(COS.ta.236 6484)	(17) NGC4254-13	COS/NUV, ACQ/IMAGE, PSA		MIRRORB				118 Secs (118 Secs)		
										[==>]		[1]
	2	(COS.sp.236 6485)	(17) NGC4254-13	COS/FUV, TIME-TAG, PSA		G140L 800 A	LIFETIME-POS=LP 11; BUFFER-TIME=10 392; FP-POS=1			2200 Secs (2009 Secs)		
										[==>2009.0 Secs]		[1]
	3	(COS.sp.236 6485)	(17) NGC4254-13	COS/FUV, TIME-TAG, PSA		G140L 800 A	LIFETIME-POS=LP 11; BUFFER-TIME=10 392; FP-POS=2			1400 Secs (1207 Secs)		
										[==>1207.0 Secs]		[2]
	4	(COS.sp.236 6485)	(17) NGC4254-13	COS/FUV, TIME-TAG, PSA		G140L 800 A	LIFETIME-POS=LP 11; BUFFER-TIME=10 392; FP-POS=3			1400 Secs (1207 Secs)		
										[==>1207.0 Secs]		[2]
	5	(COS.sp.236 6485)	(17) NGC4254-13	COS/FUV, TIME-TAG, PSA		G140L 800 A	LIFETIME-POS=LP 11; BUFFER-TIME=10 392; FP-POS=4			2600 Secs (2530 Secs)		
										[==>2530.0 Secs]		[3]

