



17526 - Mega-deep UV spectroscopy of star-forming galaxies: completing the picture of the extremely metal-poor massive stars underlying high-ionization UV nebular emission

Cycle: 31, Proposal Category: GO

(UV Initiative)

(Availability Mode: SUPPORTED)

INVESTIGATORS

<i>Name</i>	<i>Institution</i>
Dr. Peter Senchyna (PI) (Contact)	Carnegie Institution of Washington
Prof. Daniel P. Stark (CoI)	University of California - Berkeley
Dr. Stephane Charlot (CoI) (ESA Member)	CNRS, Institut d'Astrophysique de Paris
Adele Plat (CoI) (ESA Member)	Ecole Polytechnique Federale de Lausanne
Dr. Danielle Berg (CoI)	University of Texas at Austin
Prof. John Chisholm (CoI)	University of Texas at Austin
Prof. Tucker Jones (CoI)	University of California - Davis
Dr. Ryan Sanders (CoI)	University of Kentucky
Dr. Jacopo Chevallard (CoI) (ESA Member)	CNRS, Institut d'Astrophysique de Paris

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) J082555.52+353232.0	COS/FUV COS/NUV	3	28-Mar-2025 07:00:15.0	yes
02	(1) J082555.52+353232.0	COS/FUV COS/NUV	3	28-Mar-2025 07:00:16.0	yes

Visit	Targets used in Visit	Configurations used in Visit	Orbits Used	Last Orbit Planner Run	OP Current with Visit?
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04	(1) J082555.52+353232.0	COS/FUV COS/NUV	3	28-Mar-2025 07:00:19.0	yes
05	(1) J082555.52+353232.0	COS/FUV COS/NUV	3	28-Mar-2025 07:00:20.0	yes
06	(1) J082555.52+353232.0	COS/FUV COS/NUV	3	28-Mar-2025 07:00:21.0	yes
07	(1) J082555.52+353232.0	COS/FUV COS/NUV	3	28-Mar-2025 07:00:23.0	yes
08	(1) J082555.52+353232.0	COS/FUV COS/NUV	3	28-Mar-2025 07:00:24.0	yes
09	(1) J082555.52+353232.0	COS/FUV COS/NUV	3	28-Mar-2025 07:00:25.0	yes
10	(1) J082555.52+353232.0	COS/FUV COS/NUV	3	28-Mar-2025 07:00:26.0	yes
11	(1) J082555.52+353232.0	COS/FUV COS/NUV	3	28-Mar-2025 07:00:28.0	yes
12	(1) J082555.52+353232.0	COS/FUV COS/NUV	3	28-Mar-2025 07:00:29.0	yes
13	(1) J082555.52+353232.0	COS/FUV COS/NUV	3	28-Mar-2025 07:00:30.0	yes
14	(1) J082555.52+353232.0	COS/FUV COS/NUV	3	28-Mar-2025 07:00:31.0	yes
15	(1) J082555.52+353232.0	COS/FUV COS/NUV	3	28-Mar-2025 07:00:32.0	yes
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<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>
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22	(2) J104457.80+035313.1	COS/FUV COS/NUV	3	28-Mar-2025 07:00:41.0	yes
23	(2) J104457.80+035313.1	COS/FUV COS/NUV	3	28-Mar-2025 07:00:42.0	yes
24	(2) J104457.80+035313.1	COS/FUV COS/NUV	3	28-Mar-2025 07:00:43.0	yes
25	(2) J104457.80+035313.1	COS/FUV COS/NUV	3	28-Mar-2025 07:00:45.0	yes
26	(2) J104457.80+035313.1	COS/FUV COS/NUV	1	28-Mar-2025 07:00:46.0	yes

77 Total Orbits Used

ABSTRACT

Local star-forming dwarf galaxies provide the only laboratory in which extremely metal-poor stellar populations like those encountered at the highest redshifts can be studied in detail. Over hundreds of orbits, Hubble has completely revolutionized our view of young star-forming systems, extending our ultraviolet vision to substantially younger ages and lower metallicities than previously seen. This exploration has revealed a rare population of

extremely metal-poor systems dominated by massive stars that power UV nebular emission lines at strengths approaching that encountered in the first JWST spectra at $z \gtrsim 9$. Unfortunately, the existing local UV spectra leave the faint continuum signatures of these massive stars effectively unconstrained in the lowest-metallicity and most extreme nebular emitters. Here we propose to remedy this by completing extraordinarily-deep 40-50 orbit spectra for the two brightest star forming regions known that are likely to harbor massive stars at or below 5% solar. These spectra will directly constrain the stellar photospheric and wind signatures imprinted on the FUV continuum which hold the key to understanding the hot stars that dominate high-ionization nebular line emission. Comparing these galaxies to stellar population synthesis prescriptions will provide our best hope of empirically calibrating the models that will continue to be used routinely at high-redshift in the coming years. Without these crucial UV observations, our understanding of the highest-redshift and lowest-mass systems that JWST and the ELTs will uncover will suffer from substantial systematic model uncertainties unaddressable without a UV space telescope.

OBSERVING DESCRIPTION

This program will acquire deep FUV spectroscopy in a single grating setting for two galaxies, which represent the UV-brightest star-forming complexes at extremely low-metallicities $< 5\%$ solar and young ages $< \sim 5$ Myr. This data will be carefully combined with previous HST/COS investment to build the highest-SNR view possible of the FUV continuum of such young metal-poor massive star populations. We leverage these previous observations and their SDSS coverage in designing this program.

Coordinates and acquisition: Each target is a compact source whose core (the target of our observations) is unresolved in ground-based imaging. The target coordinates are derived directly from the ICRS-aligned SDSS photometry. To optimize the target acquisition exposures, we examine the existing ACQ/IMAGE exposures of each taken with COS previously. We sum the countrate within $\sim 0.24''$ of the centered target coordinates in each, which we find to be reasonably constant across different images and differ by approximately the same fraction as the target fluxes in the FUV as-expected. Then, we compute a time for the new standardized acquisitions by estimating the integration necessary to build-up 3000 counts in this central core, which delivers a conservative Poisson-only SNR of 55. We confirm that these exposure times (108 and 69s) would also yield anticipated $\text{SNR} \gg 20$ assuming a perfect point source flat in AB with a target flux set to the level measured in existing FUV spectra; and note that the galaxies have been successfully acquired with similar or shorter exposure times previously.

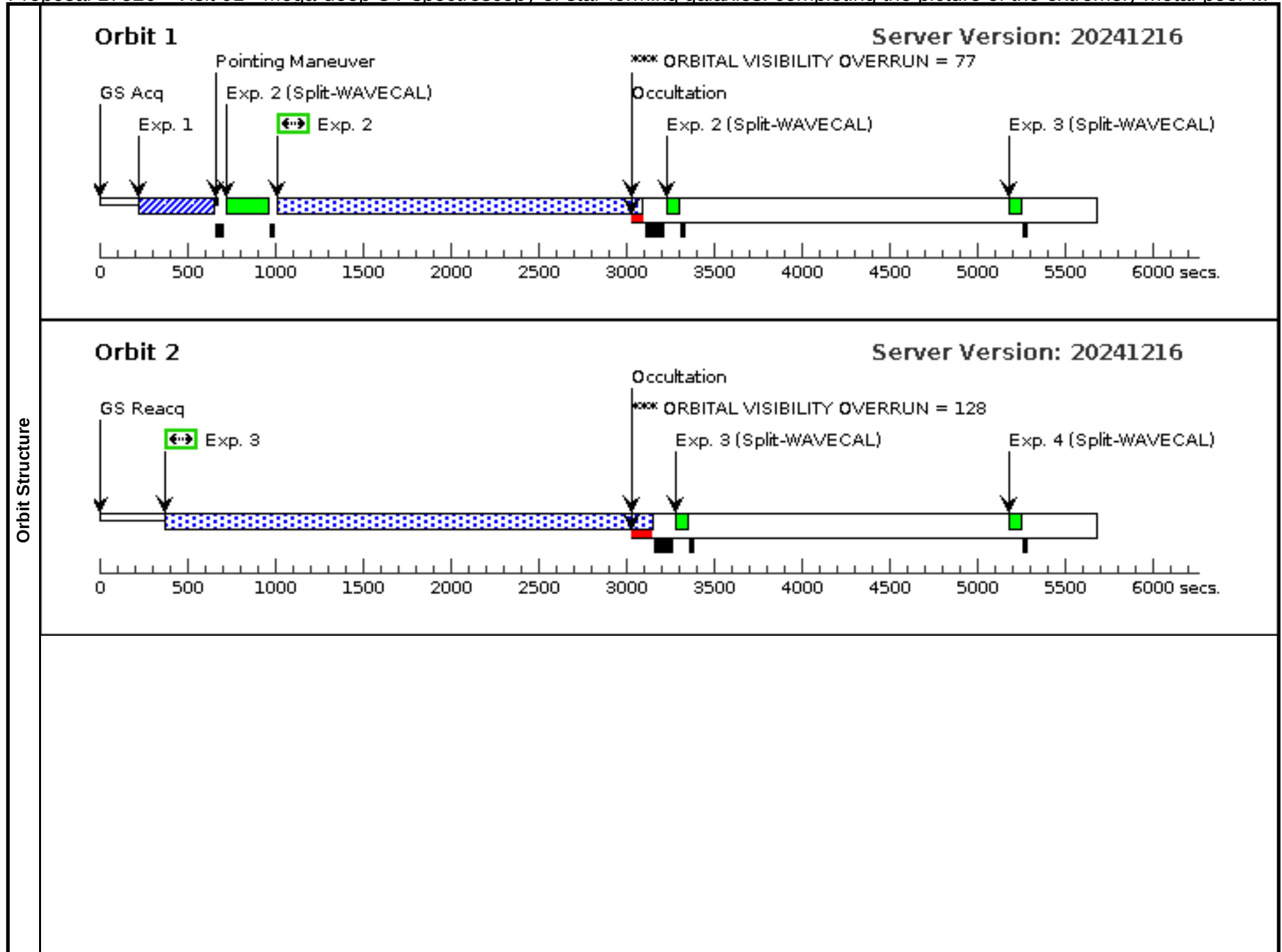
Observing plan: Our objective relies on maximizing data quality and total integration time, which will place us in the $\text{SNR} > 20$ / resel regime ($\text{SNR} \sim 30$ / resel after combination with existing data). We thus optimize for orbit-long dwells at fixed FP-POS position to minimize overheads. Full buffer dumps and auto wavecalcs are thus performed during occultation (with the exception of the first integration of a visit after the target acquisition). We block all observations into 3 orbit visits (plus two single-orbit visits to complete the allocation) for maximum schedulability while

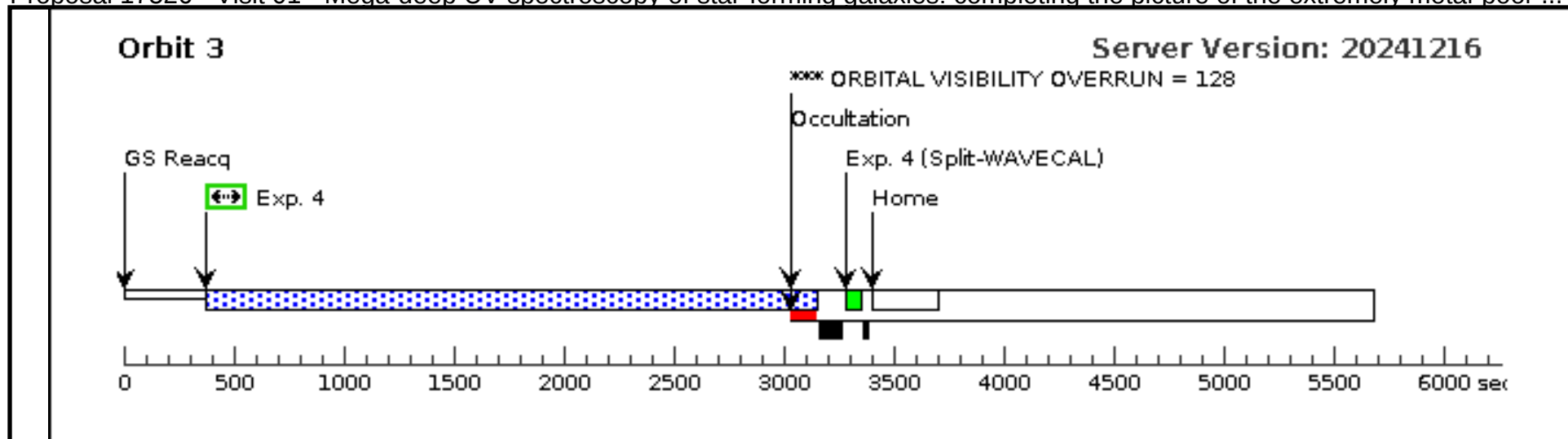
Proposal 17526 (STScI Edit Number: 0, Created: Friday, March 28, 2025, 6:00:46AM Eastern Standard Time) - Overview
minimizing overheads. FP-POS settings are cycled between visits to achieve near-uniform integration at all four settings.

Safety: Both objects have previously been observed with the exact same COS target acquisition & spectroscopic configuration without issue.

Proposal 17526 - Visit 01 - Mega-deep UV spectroscopy of star-forming galaxies: completing the picture of the extremely metal-poor ...

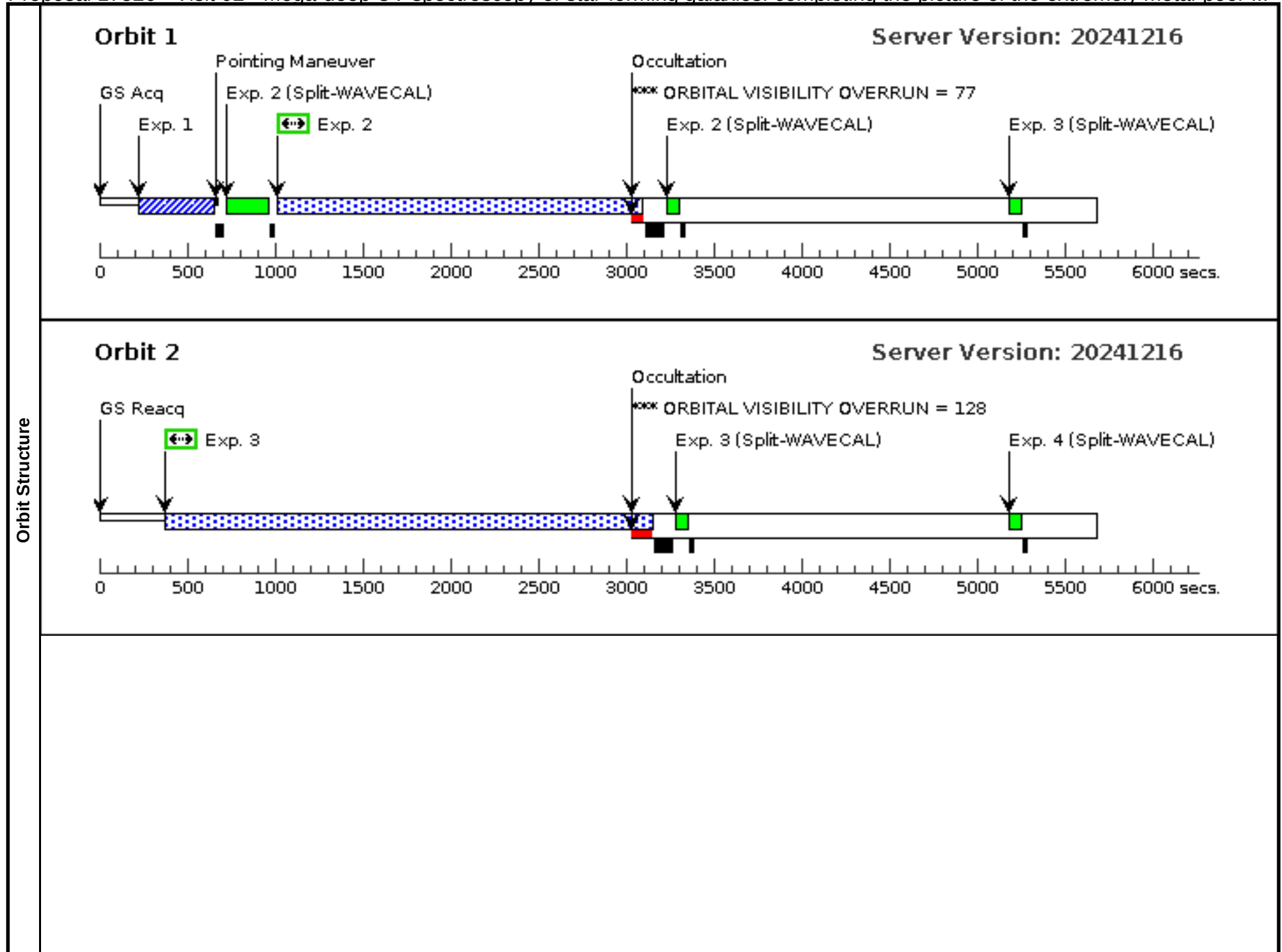
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									[==>]		[1]
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									[==>]		[2]
	4	(COS.sp.189 1409)	(1) J082555.52+353 232.0	COS/FUV, TIME-TAG, PSA	G160M 1533 A	BUFFER-TIME=27 27; FP-POS=3			2727 Secs (2727 Secs)		
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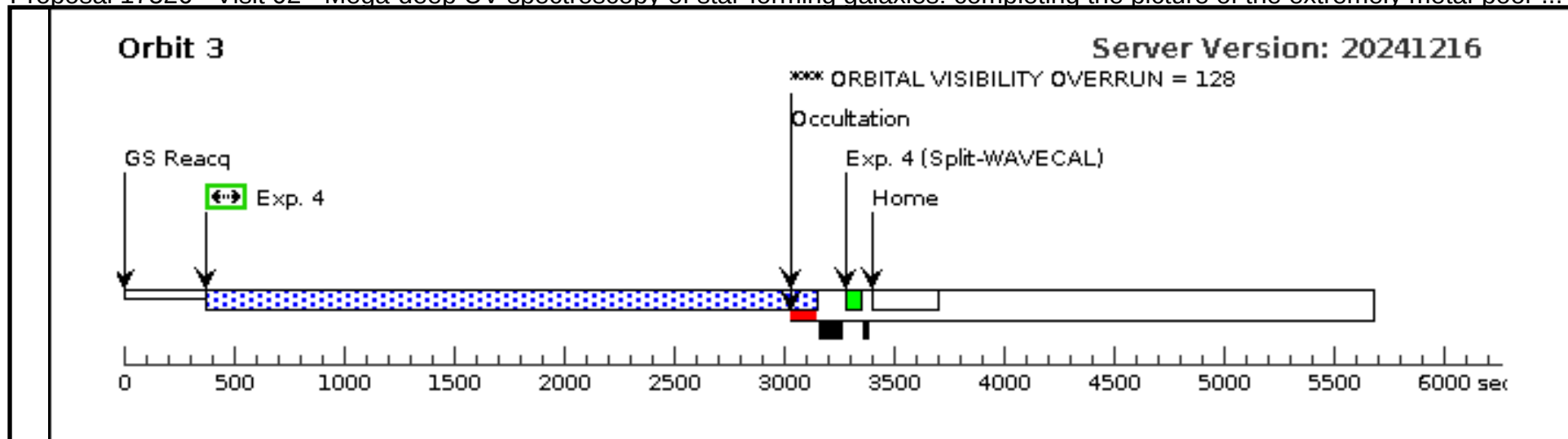




Proposal 17526 - Visit 02 - Mega-deep UV spectroscopy of star-forming galaxies: completing the picture of the extremely metal-poor ...

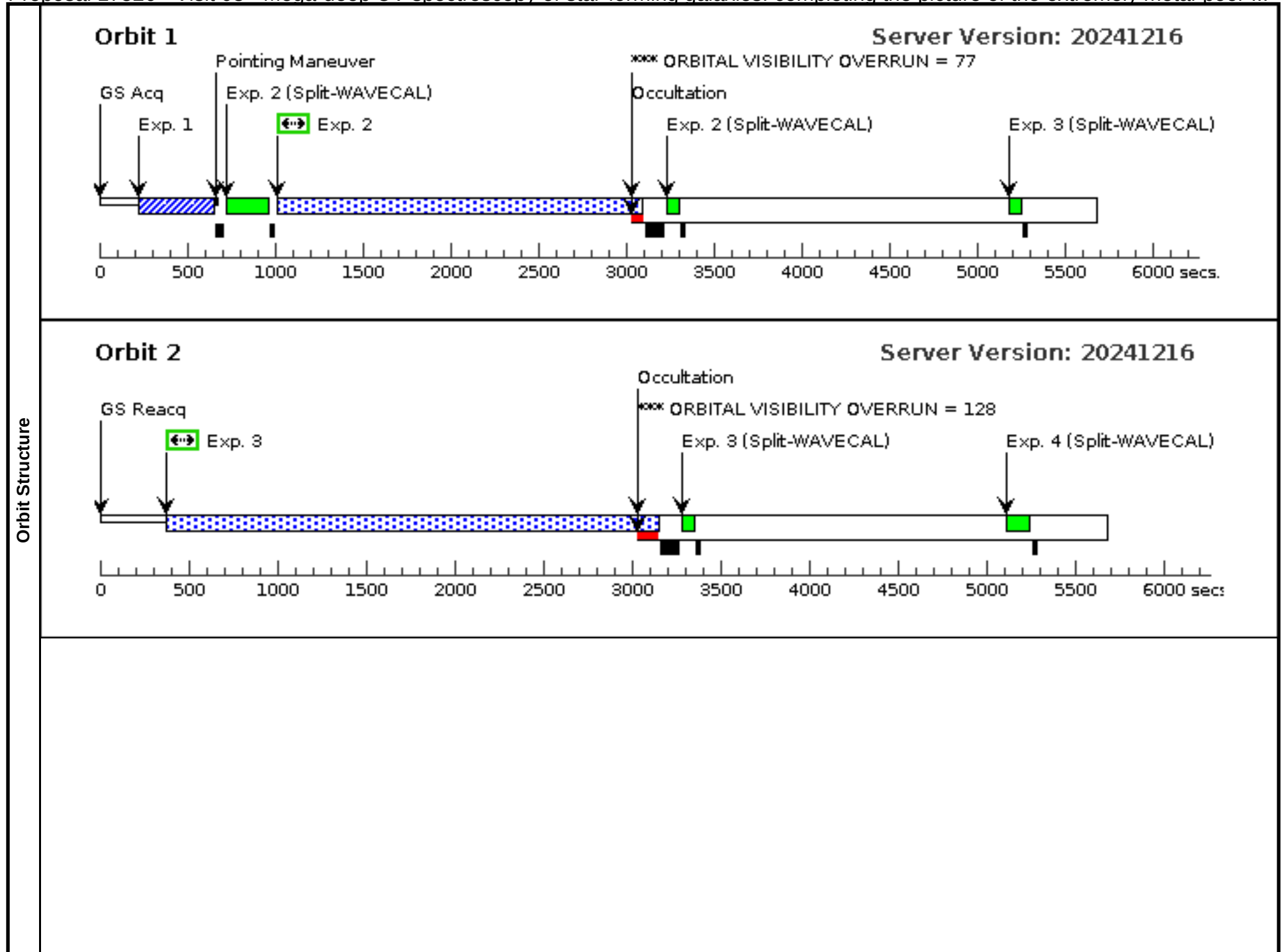
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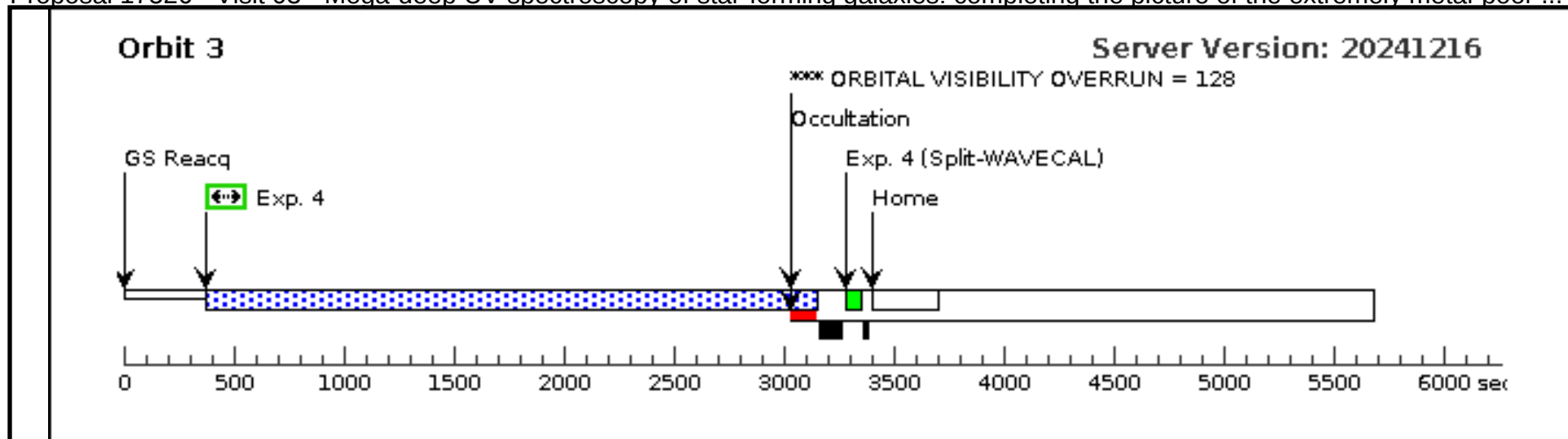




Proposal 17526 - Visit 03 - Mega-deep UV spectroscopy of star-forming galaxies: completing the picture of the extremely metal-poor ...

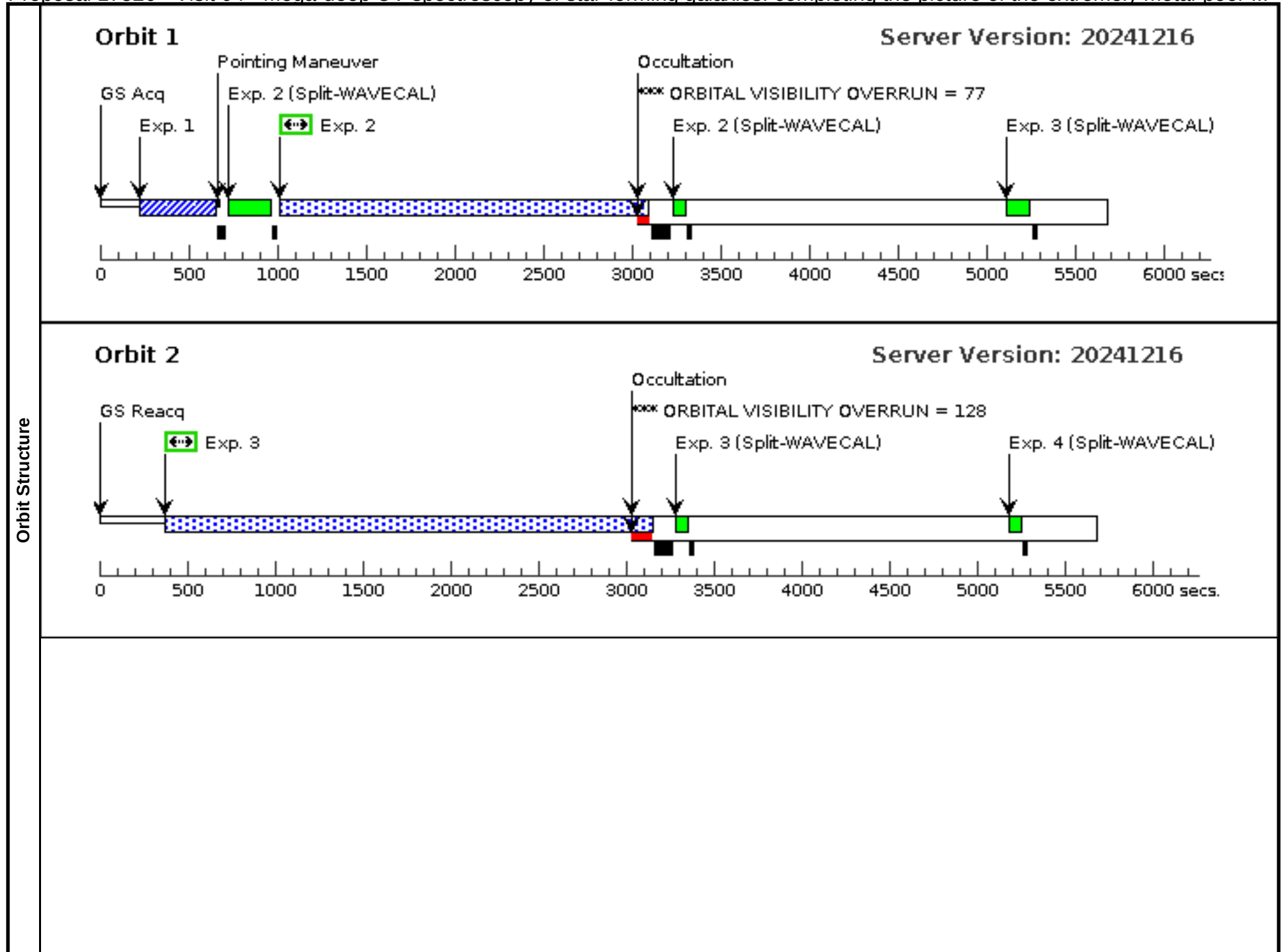
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	4	(COS.sp.189 1409)	(1) J082555.52+353 232.0	COS/FUV, TIME-TAG, PSA	G160M 1533 A	BUFFER-TIME=27 27; FP-POS=1			2727 Secs (2727 Secs)		
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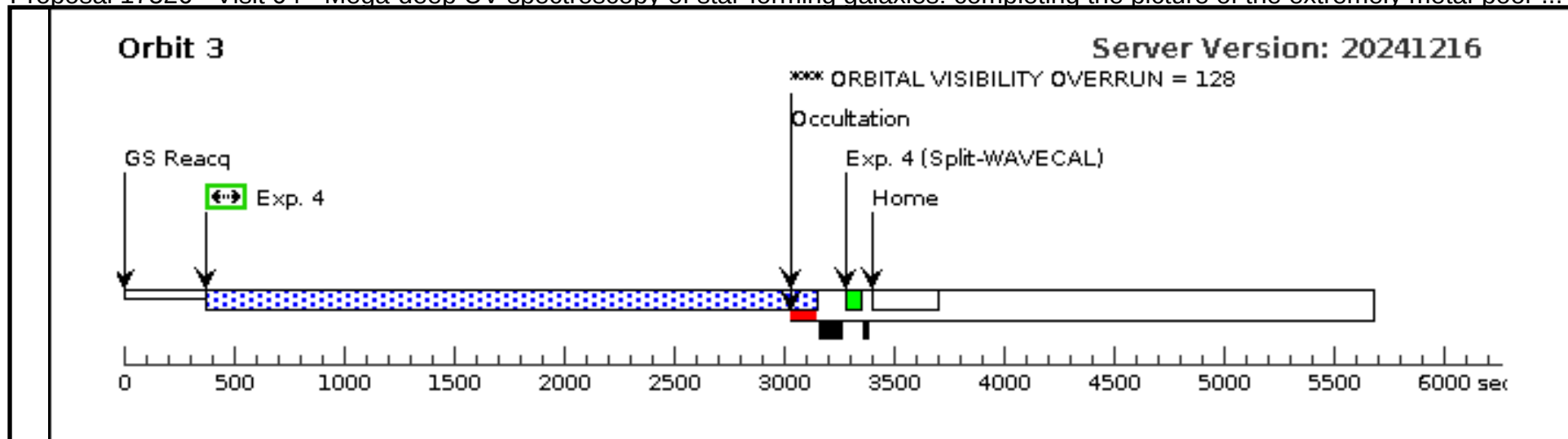




Proposal 17526 - Visit 04 - Mega-deep UV spectroscopy of star-forming galaxies: completing the picture of the extremely metal-poor ...

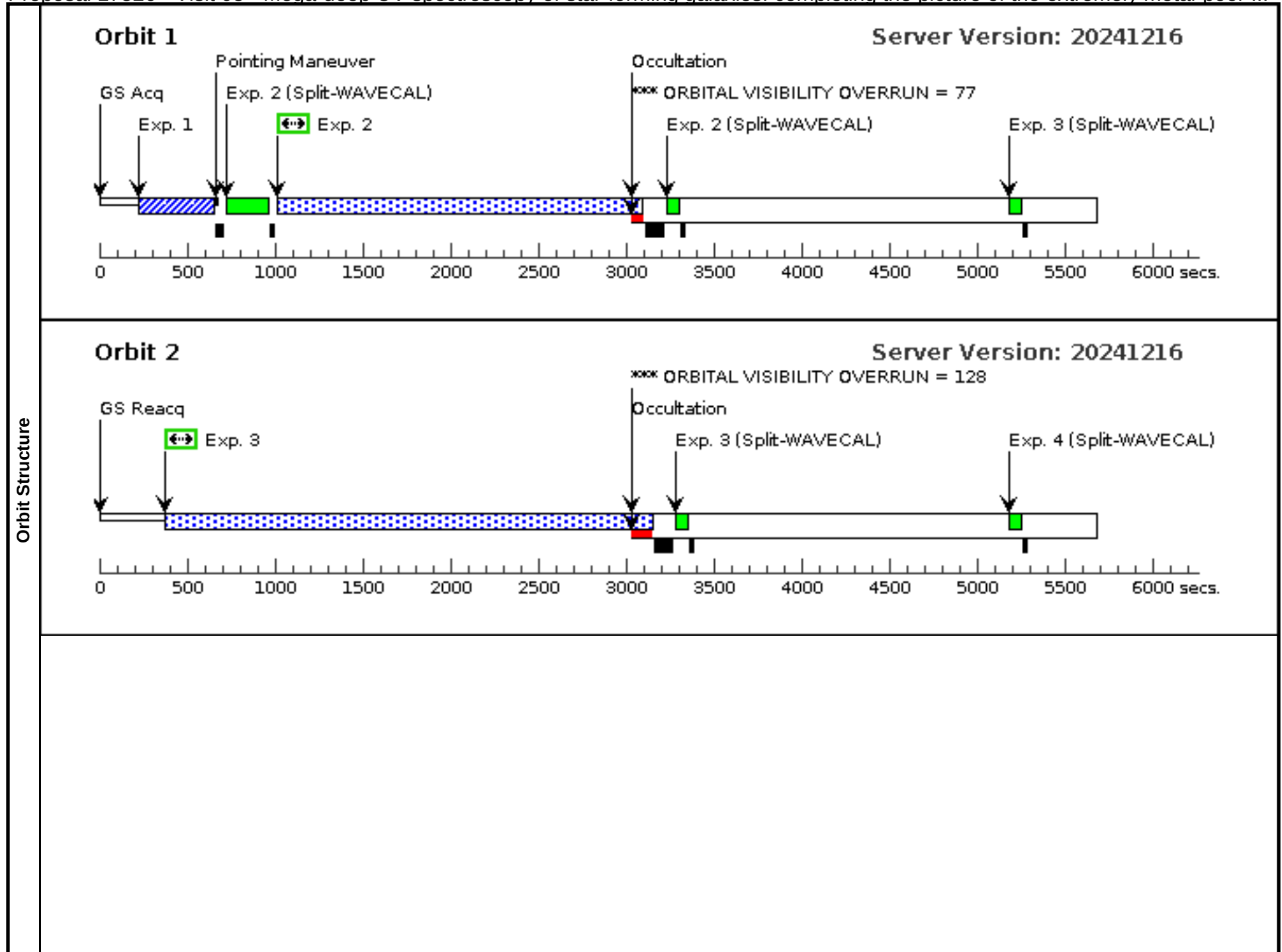
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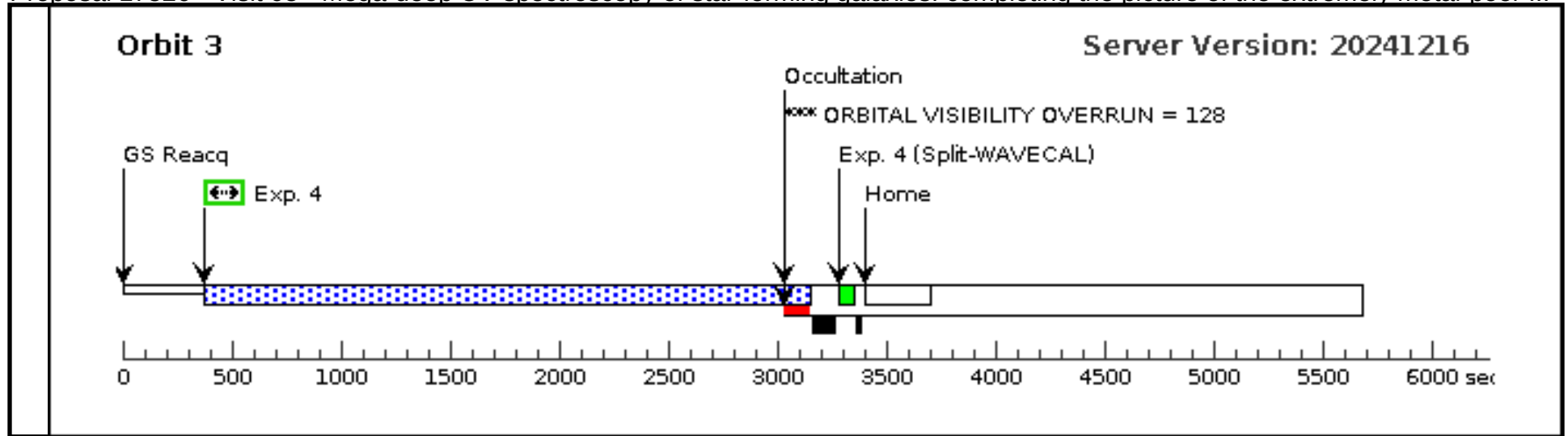




Proposal 17526 - Visit 05 - Mega-deep UV spectroscopy of star-forming galaxies: completing the picture of the extremely metal-poor ...

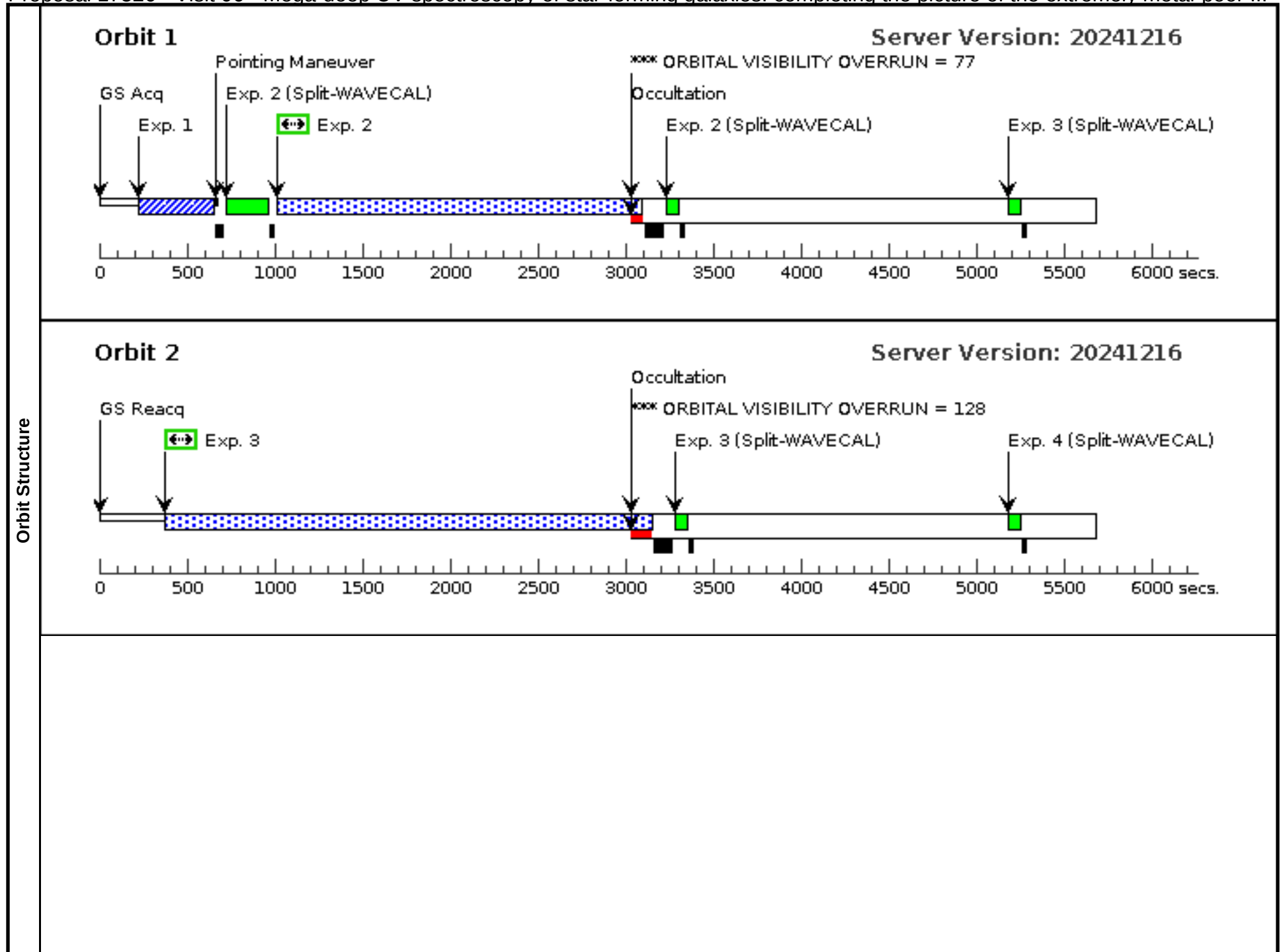
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Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections			Fluxes		Miscellaneous			
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	2	(COS.sp.189 1409)	(1) J082555.52+353 232.0	COS/FUV, TIME-TAG, PSA	G160M 1533 A	BUFFER-TIME=20 34; FP-POS=1			2034 Secs (2034 Secs)			
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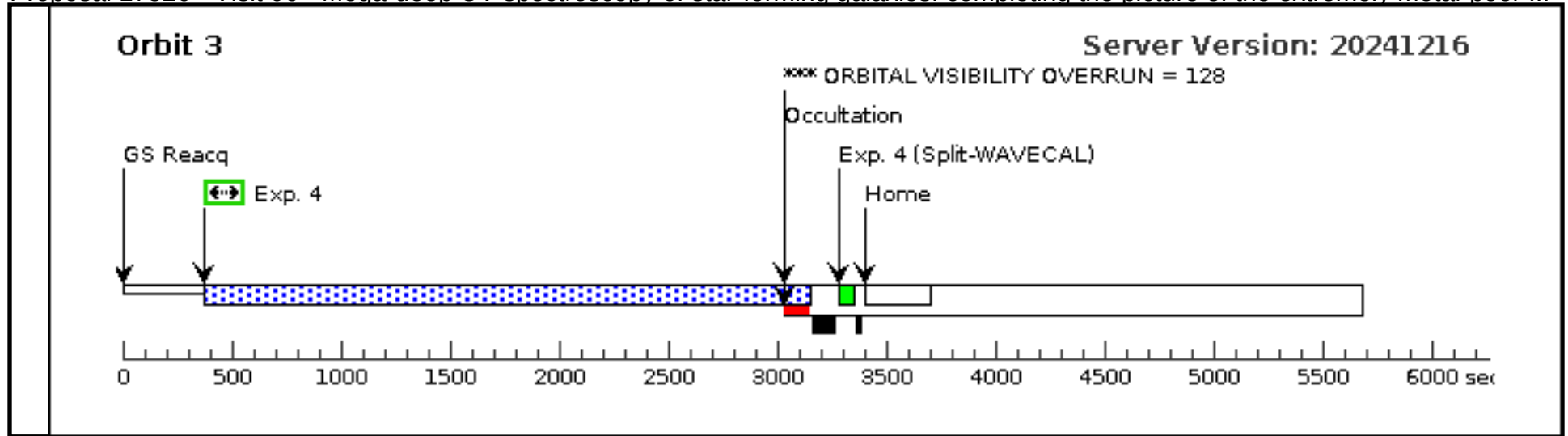




Proposal 17526 - Visit 06 - Mega-deep UV spectroscopy of star-forming galaxies: completing the picture of the extremely metal-poor ...

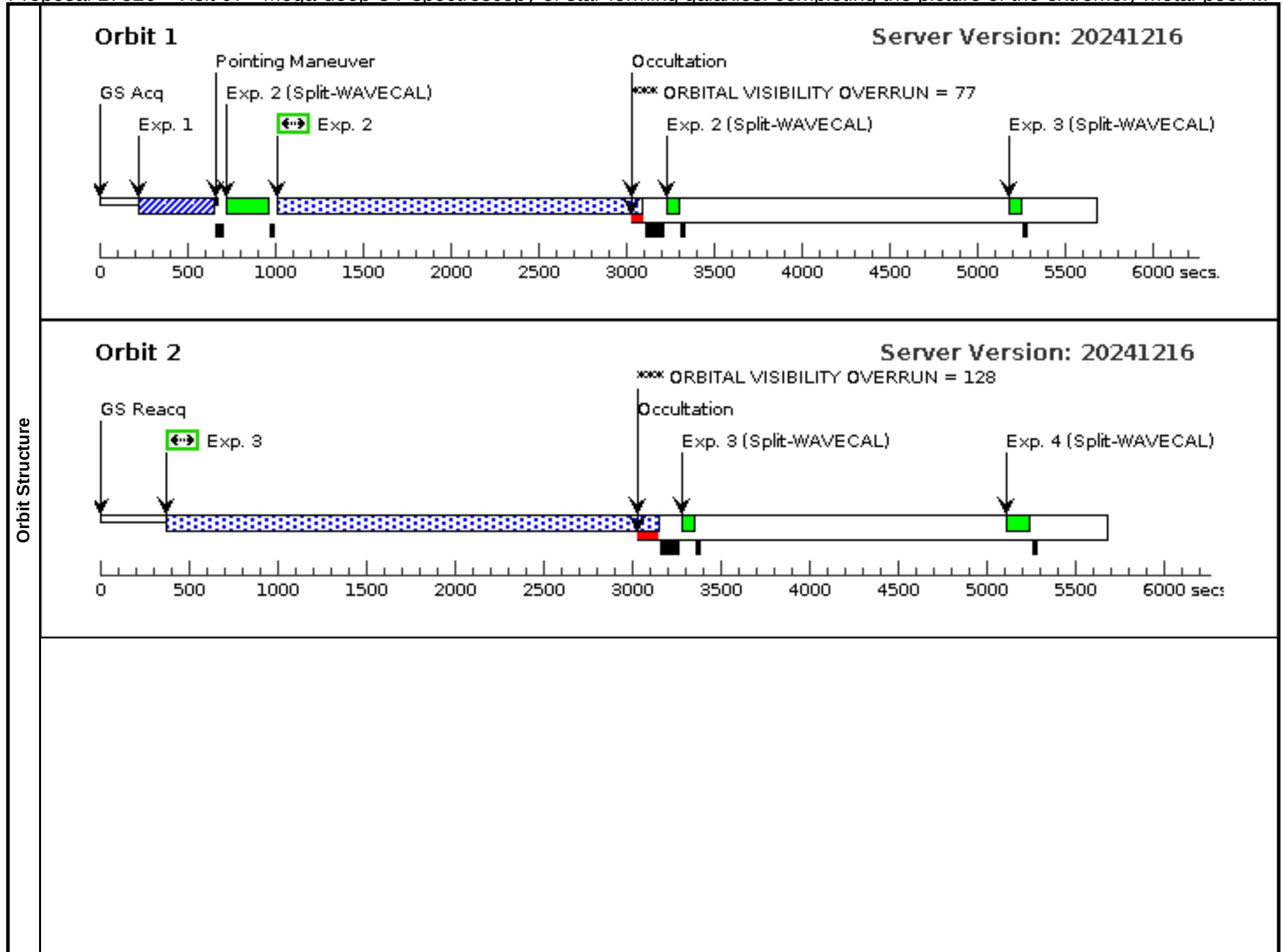
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			Dec: +35 32 31.96 (35.54221d)									
			Equinox: J2000									
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Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture		Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]		Orbit
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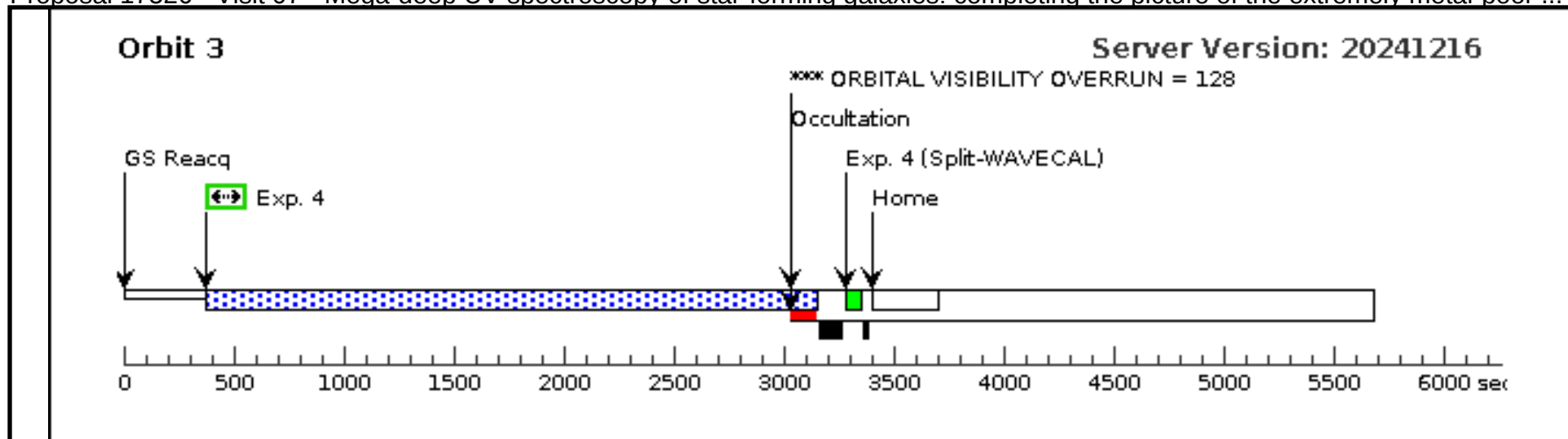




Proposal 17526 - Visit 07 - Mega-deep UV spectroscopy of star-forming galaxies: completing the picture of the extremely metal-poor ...

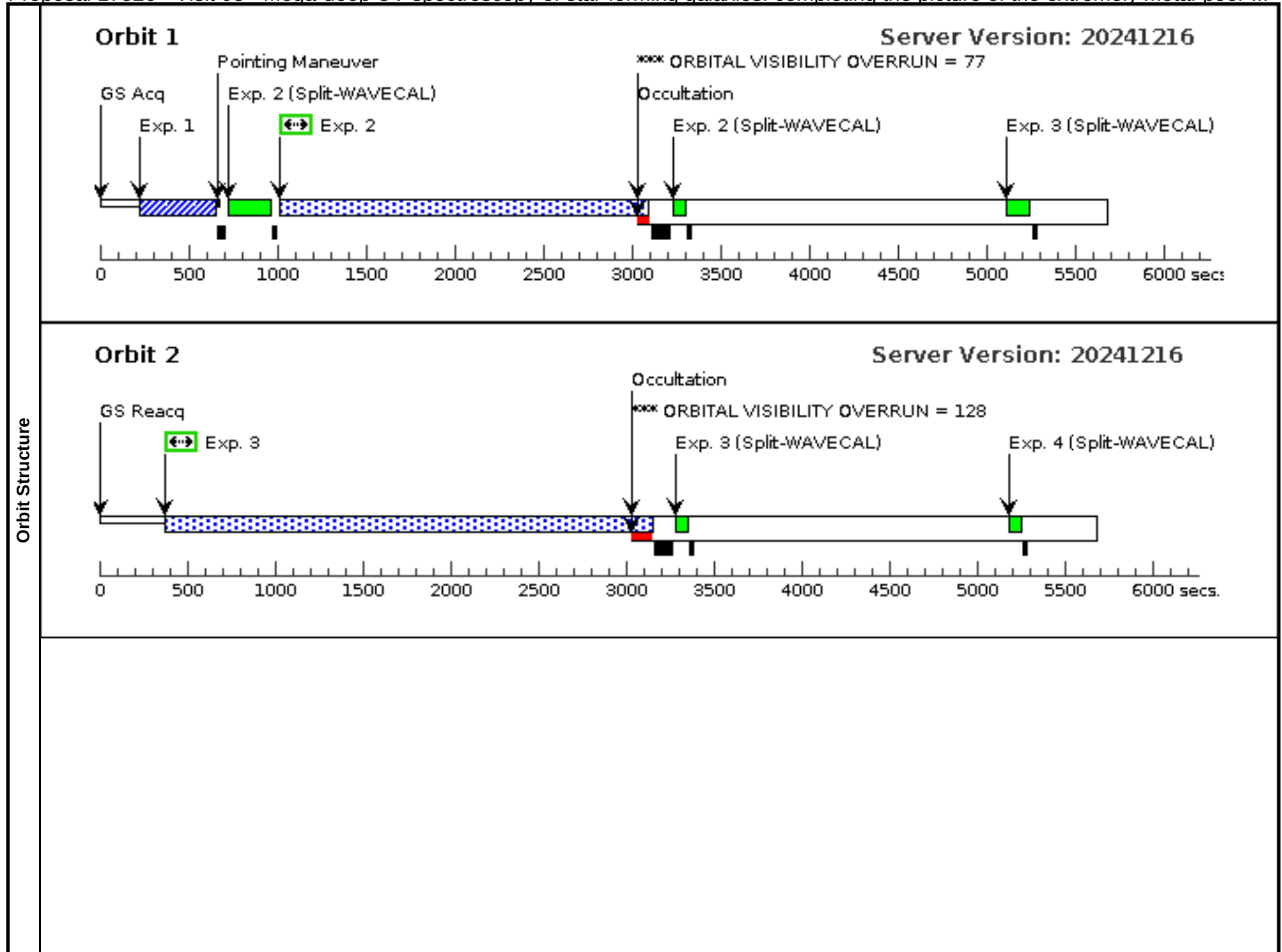
Visit	Proposal 17526, Visit 07, completed										Fri Mar 28 11:00:46 GMT 2025
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	Scientific Instruments: COS/FUV, COS/NUV										
	Special Requirements: (none)										
Diagnostics	(Visit 07) Warning (Orbit Planner): INEFFICIENT ORDERING OF FP-POS POSITIONS										
	(Visit 07) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN										
	(Visit 07) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN										
	(Visit 07) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN										
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections			Fluxes	Miscellaneous			
	(1)	J082555.52+353232.0	RA: 08 25 55.5207 (126.4813362d) Dec: +35 32 31.96 (35.54221d) Equinox: J2000				V=18.5	Reference Frame: ICRS			
	Comments: Category=GALAXY Description=[DWARF COMPACT, STAR FORMING REGION] 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.189 1407)	(1) J082555.52+353 232.0	COS/NUV, ACQ/IMAGE, PSA	MIRRORA				108 Secs (108 Secs)		
									[==>]	[1]	
	2	(COS.sp.189 1409)	(1) J082555.52+353 232.0	COS/FUV, TIME-TAG, PSA	G160M 1533 A	BUFFER-TIME=20 34; FP-POS=3			2034 Secs (2034 Secs)		
									[==>]	[1]	
	3	(COS.sp.189 1409)	(1) J082555.52+353 232.0	COS/FUV, TIME-TAG, PSA	G160M 1533 A	BUFFER-TIME=27 27; FP-POS=4			2727 Secs (2727 Secs)		
									[==>]	[2]	
	4	(COS.sp.189 1409)	(1) J082555.52+353 232.0	COS/FUV, TIME-TAG, PSA	G160M 1533 A	BUFFER-TIME=27 27; FP-POS=1			2727 Secs (2727 Secs)		
									[==>]	[3]	

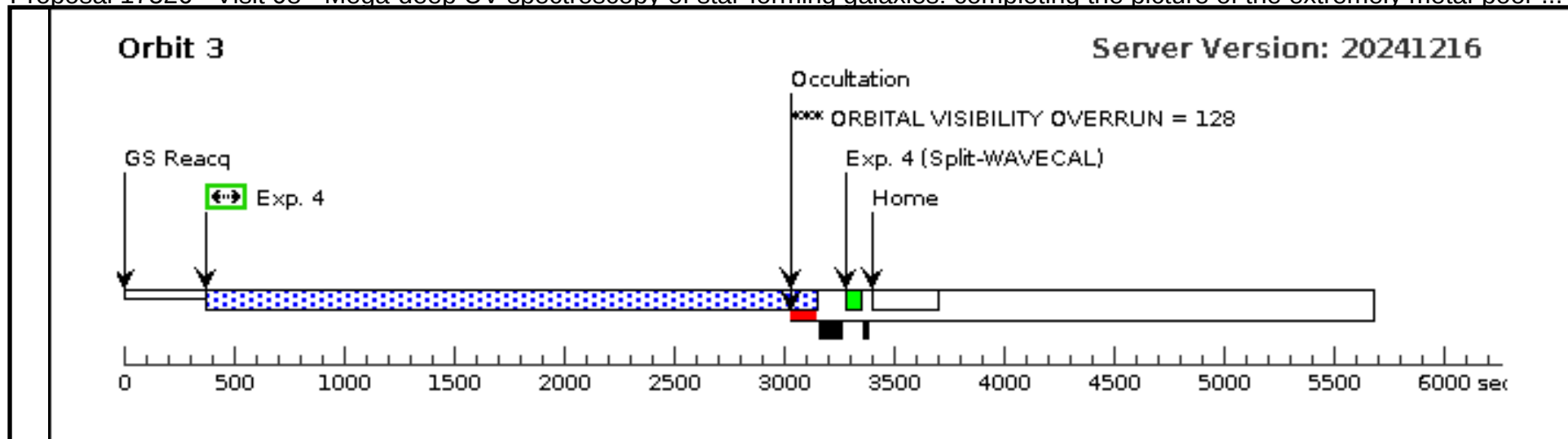




Proposal 17526 - Visit 08 - Mega-deep UV spectroscopy of star-forming galaxies: completing the picture of the extremely metal-poor ...

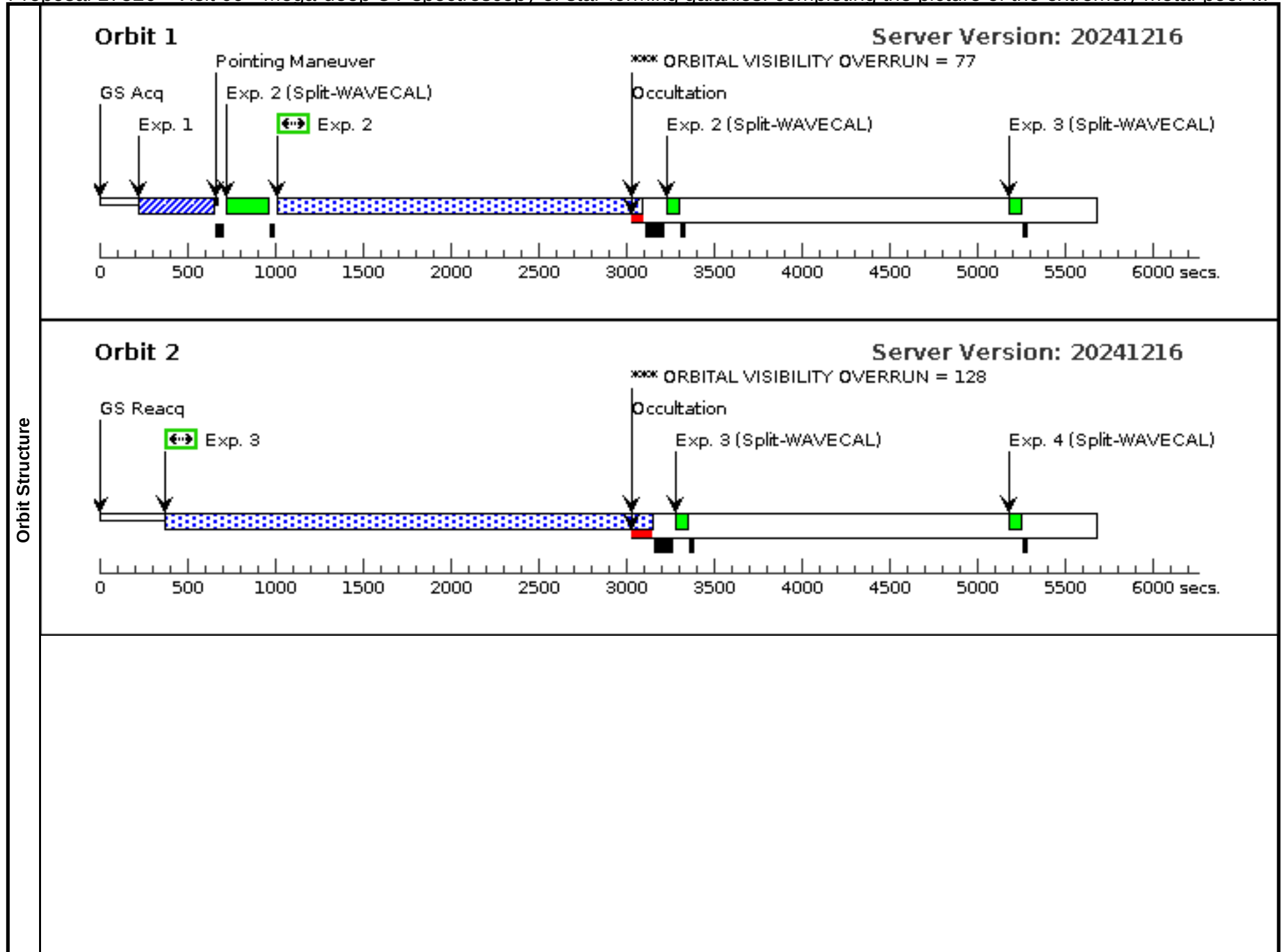
Visit	Proposal 17526, Visit 08, completed										Fri Mar 28 11:00:46 GMT 2025	
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	Scientific Instruments: COS/FUV, COS/NUV											
	Special Requirements: (none)											
Diagnostics	(Visit 08) Warning (Orbit Planner): INEFFICIENT ORDERING OF FP-POS POSITIONS											
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	(Visit 08) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN											
	(Visit 08) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN											
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections			Fluxes		Miscellaneous			
	(1)	J082555.52+353232.0	RA: 08 25 55.5207 (126.4813362d) Dec: +35 32 31.96 (35.54221d) Equinox: J2000				V=18.5		Reference Frame: ICRS			
	Comments: Category=GALAXY Description=[DWARF COMPACT, STAR FORMING REGION] 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.189 1407)	(1) J082555.52+353 232.0	COS/NUV, ACQ/IMAGE, PSA	MIRRORA				108 Secs (108 Secs)			
									[==>]		[1]	
	2	(COS.sp.189 1409)	(1) J082555.52+353 232.0	COS/FUV, TIME-TAG, PSA	G160M 1533 A	BUFFER-TIME=20 34; FP-POS=4			2034 Secs (2034 Secs)			
									[==>]		[1]	
	3	(COS.sp.189 1409)	(1) J082555.52+353 232.0	COS/FUV, TIME-TAG, PSA	G160M 1533 A	BUFFER-TIME=27 27; FP-POS=1			2727 Secs (2727 Secs)			
									[==>]		[2]	
	4	(COS.sp.189 1409)	(1) J082555.52+353 232.0	COS/FUV, TIME-TAG, PSA	G160M 1533 A	BUFFER-TIME=27 27; FP-POS=2			2727 Secs (2727 Secs)			
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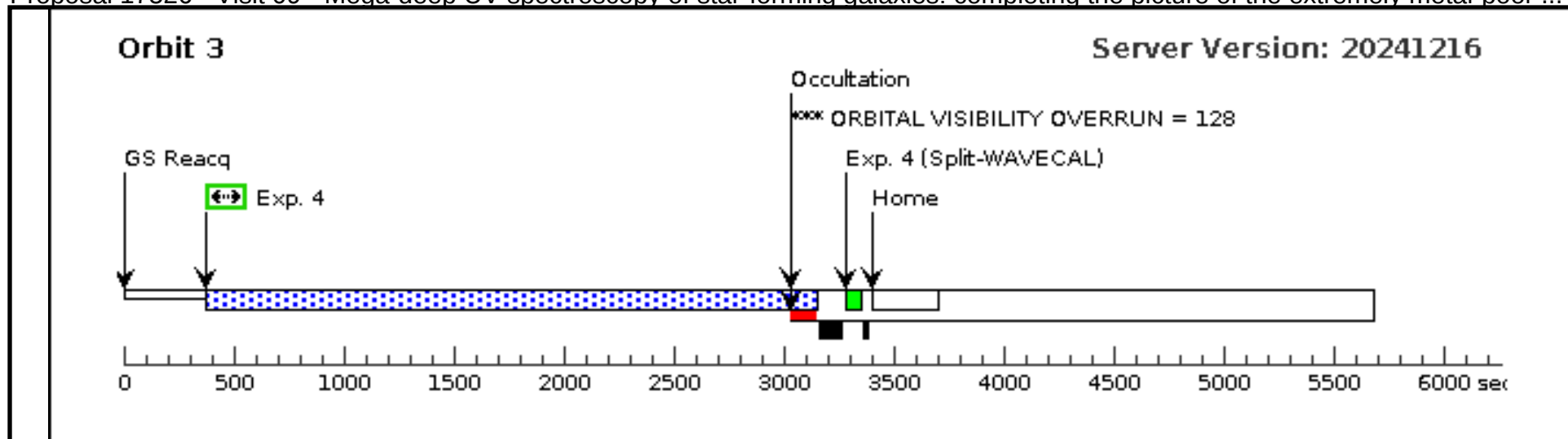




Proposal 17526 - Visit 09 - Mega-deep UV spectroscopy of star-forming galaxies: completing the picture of the extremely metal-poor ...

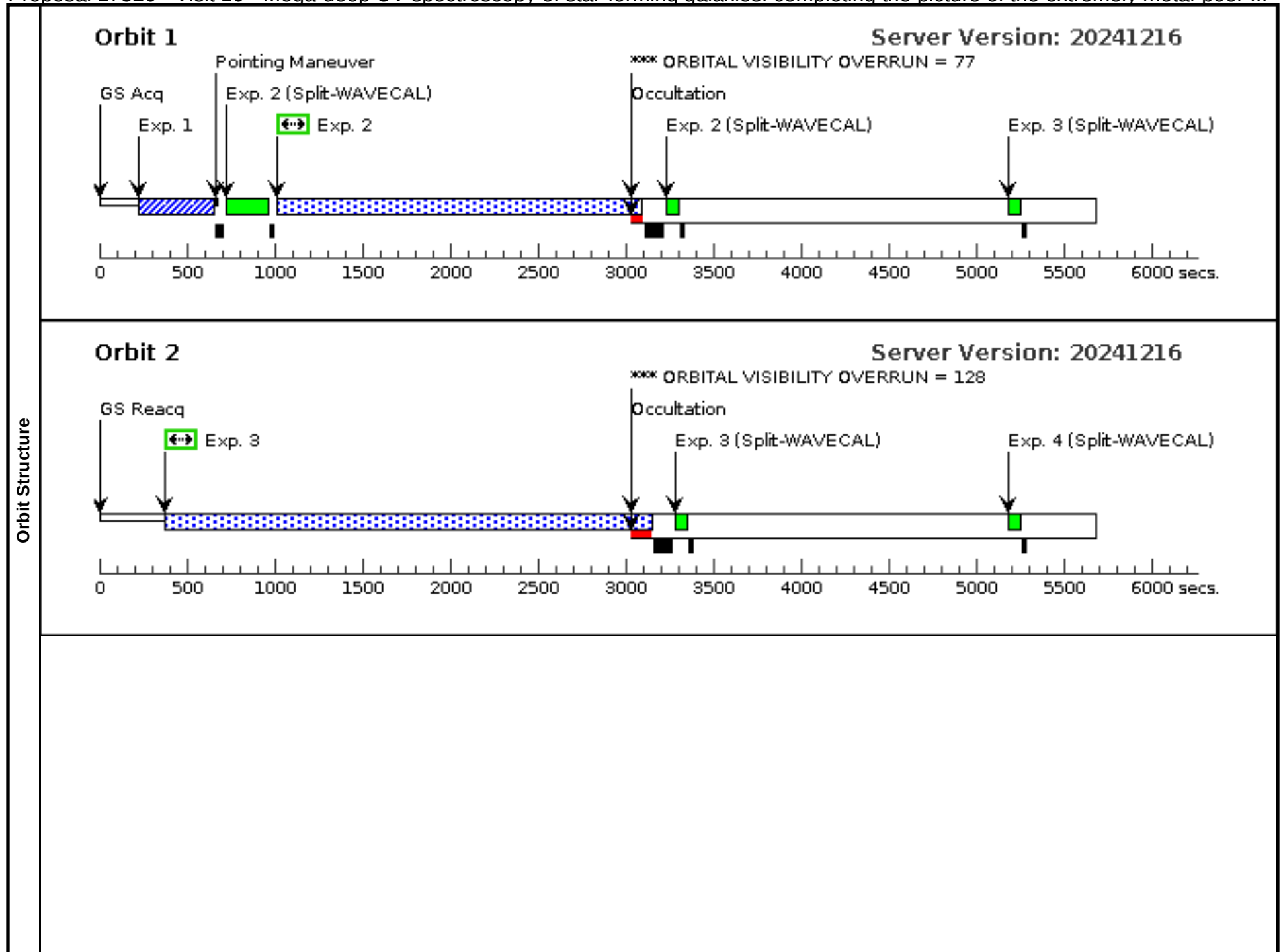
Visit	Proposal 17526, Visit 09, completed										Fri Mar 28 11:00:47 GMT 2025
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	Scientific Instruments: COS/FUV, COS/NUV										
	Special Requirements: (none)										
Diagnostics	(Visit 09) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN										
	(Visit 09) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN										
	(Visit 09) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN										
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections			Fluxes		Miscellaneous		
	(1)	J082555.52+353232.0	RA: 08 25 55.5207 (126.4813362d) Dec: +35 32 31.96 (35.54221d) Equinox: J2000				V=18.5		Reference Frame: ICRS		
	Comments: Category=GALAXY Description=[DWARF COMPACT, STAR FORMING REGION] 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.189 1407)	(1) J082555.52+353 232.0	COS/NUV, ACQ/IMAGE, PSA	MIRRORA				108 Secs (108 Secs)		
									[==>]		[1]
	2	(COS.sp.189 1409)	(1) J082555.52+353 232.0	COS/FUV, TIME-TAG, PSA	G160M 1533 A	BUFFER-TIME=20 34; FP-POS=1			2034 Secs (2034 Secs)		
									[==>]		[1]
	3	(COS.sp.189 1409)	(1) J082555.52+353 232.0	COS/FUV, TIME-TAG, PSA	G160M 1533 A	BUFFER-TIME=27 27; FP-POS=2			2727 Secs (2727 Secs)		
									[==>]		[2]
	4	(COS.sp.189 1409)	(1) J082555.52+353 232.0	COS/FUV, TIME-TAG, PSA	G160M 1533 A	BUFFER-TIME=27 27; FP-POS=3			2727 Secs (2727 Secs)		
									[==>]		[3]

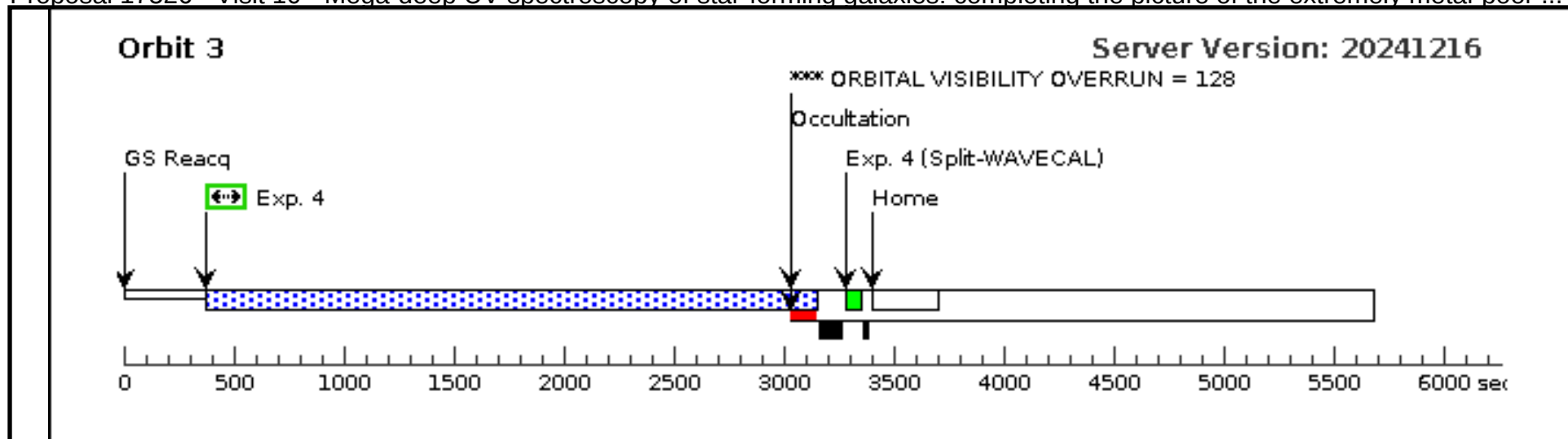




Proposal 17526 - Visit 10 - Mega-deep UV spectroscopy of star-forming galaxies: completing the picture of the extremely metal-poor ...

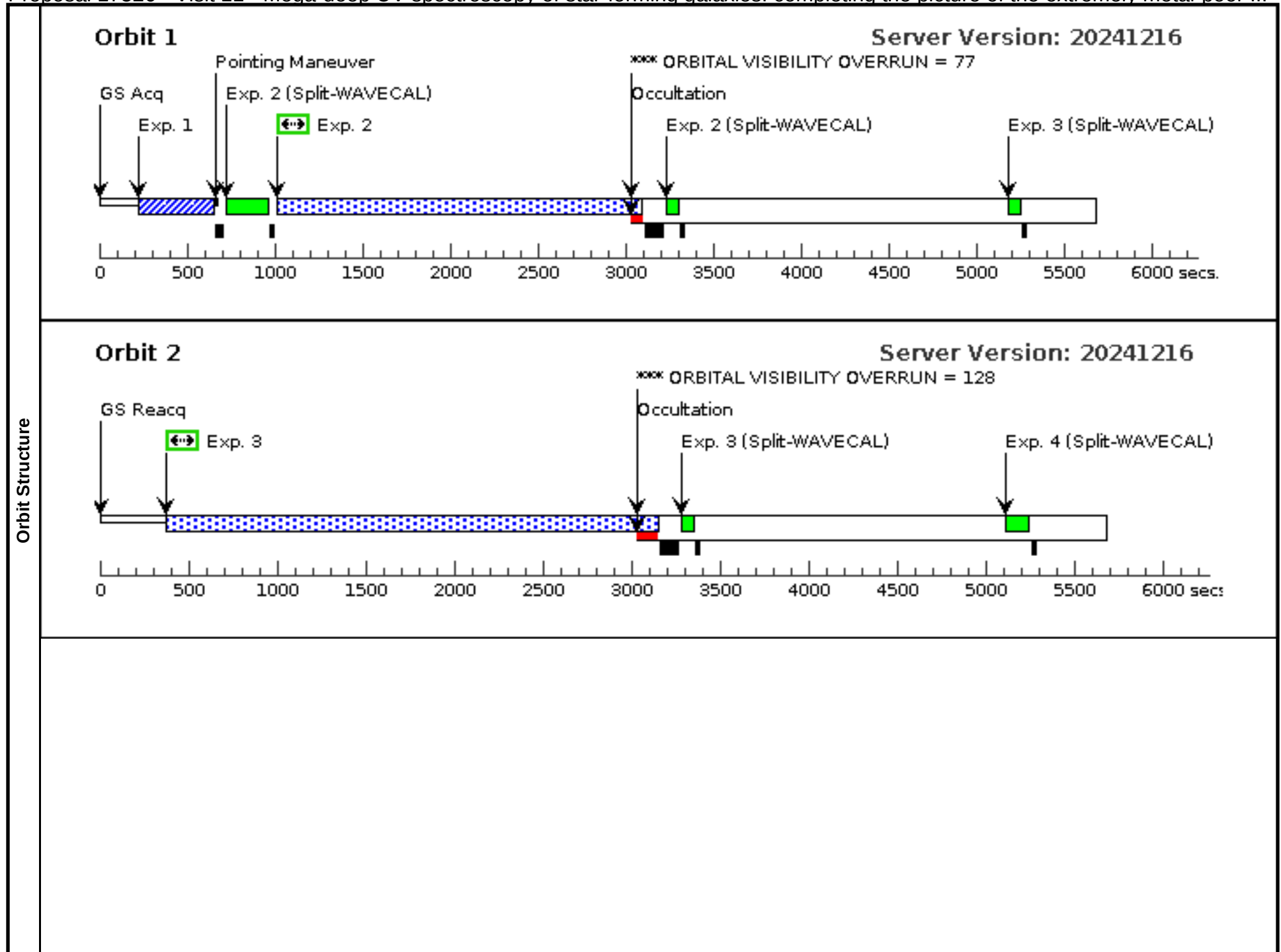
Visit	Proposal 17526, Visit 10, completed										Fri Mar 28 11:00:47 GMT 2025
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	Scientific Instruments: COS/FUV, COS/NUV										
	Special Requirements: (none)										
Diagnostics	(Visit 10) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN										
	(Visit 10) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN										
	(Visit 10) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN										
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections			Fluxes	Miscellaneous			
	(1)	J082555.52+353232.0	RA: 08 25 55.5207 (126.4813362d) Dec: +35 32 31.96 (35.54221d) Equinox: J2000				V=18.5	Reference Frame: ICRS			
	Comments: Category=GALAXY Description=[DWARF COMPACT, STAR FORMING REGION] 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.189 1407)	(1) J082555.52+353 232.0	COS/NUV, ACQ/IMAGE, PSA	MIRRORA				108 Secs (108 Secs)		
									[==>]		[1]
	2	(COS.sp.189 1409)	(1) J082555.52+353 232.0	COS/FUV, TIME-TAG, PSA	G160M 1533 A	BUFFER-TIME=20 34; FP-POS=2			2034 Secs (2034 Secs)		
									[==>]		[1]
	3	(COS.sp.189 1409)	(1) J082555.52+353 232.0	COS/FUV, TIME-TAG, PSA	G160M 1533 A	BUFFER-TIME=27 27; FP-POS=3			2727 Secs (2727 Secs)		
									[==>]		[2]
	4	(COS.sp.189 1409)	(1) J082555.52+353 232.0	COS/FUV, TIME-TAG, PSA	G160M 1533 A	BUFFER-TIME=27 27; FP-POS=4			2727 Secs (2727 Secs)		
								[==>]		[3]	

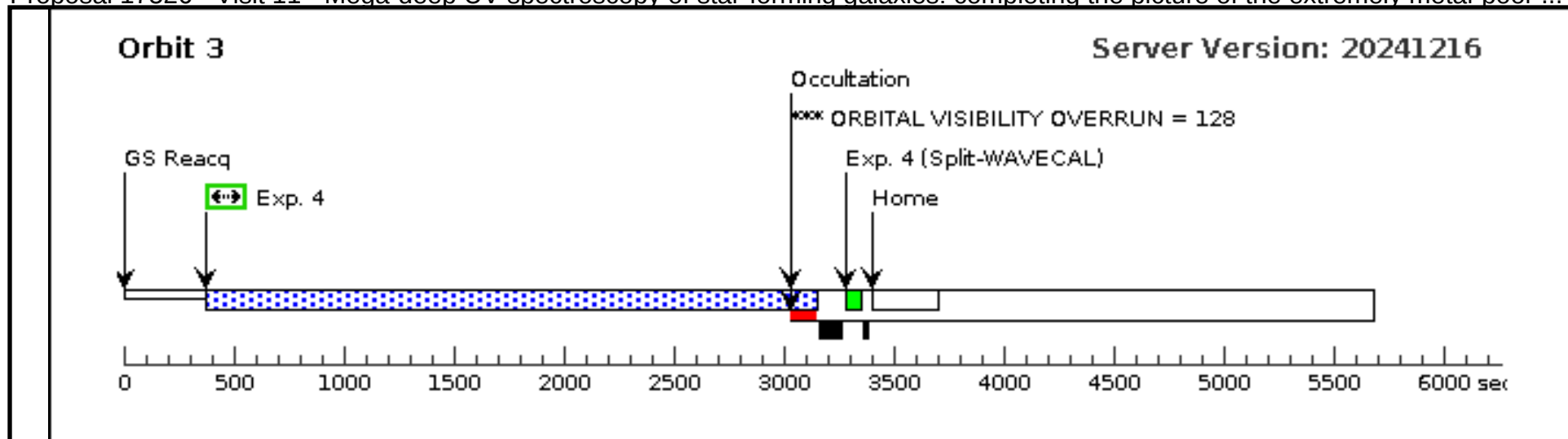




Proposal 17526 - Visit 11 - Mega-deep UV spectroscopy of star-forming galaxies: completing the picture of the extremely metal-poor ...

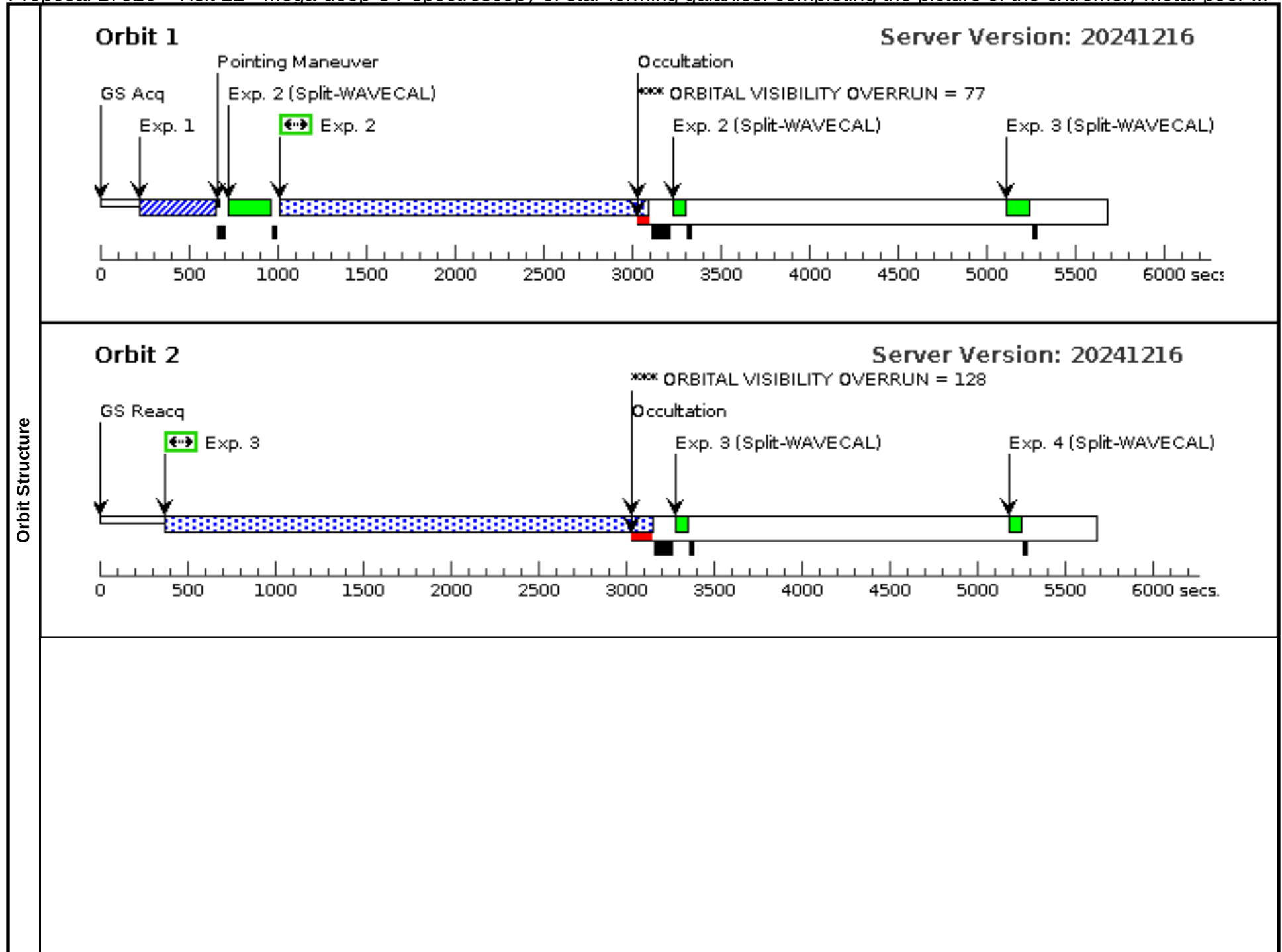
Visit	Proposal 17526, Visit 11, completed										Fri Mar 28 11:00:47 GMT 2025	
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	Special Requirements: (none)											
Diagnostics	(Visit 11) Warning (Orbit Planner): INEFFICIENT ORDERING OF FP-POS POSITIONS											
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	(Visit 11) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN											
	(Visit 11) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN											
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections		Fluxes		Miscellaneous				
	(1)	J082555.52+353232.0	RA: 08 25 55.5207 (126.4813362d) Dec: +35 32 31.96 (35.54221d) Equinox: J2000			V=18.5		Reference Frame: ICRS				
	Comments: Category=GALAXY Description=[DWARF COMPACT, STAR FORMING REGION] 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.189 1407)	(1) J082555.52+353 232.0	COS/NUV, ACQ/IMAGE, PSA	MIRRORA				108 Secs (108 Secs)			
									[==>]		[1]	
	2	(COS.sp.189 1409)	(1) J082555.52+353 232.0	COS/FUV, TIME-TAG, PSA	G160M 1533 A	BUFFER-TIME=20 34; FP-POS=3			2034 Secs (2034 Secs)			
									[==>]		[1]	
	3	(COS.sp.189 1409)	(1) J082555.52+353 232.0	COS/FUV, TIME-TAG, PSA	G160M 1533 A	BUFFER-TIME=27 27; FP-POS=4			2727 Secs (2727 Secs)			
									[==>]		[2]	
	4	(COS.sp.189 1409)	(1) J082555.52+353 232.0	COS/FUV, TIME-TAG, PSA	G160M 1533 A	BUFFER-TIME=27 27; FP-POS=1			2727 Secs (2727 Secs)			
									[==>]		[3]	

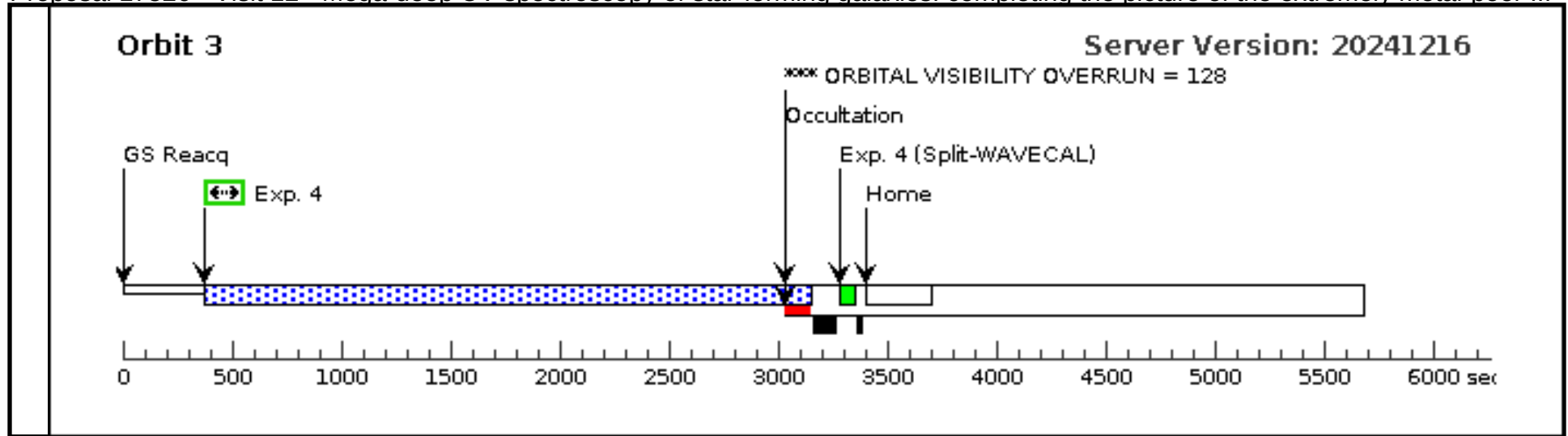




Proposal 17526 - Visit 12 - Mega-deep UV spectroscopy of star-forming galaxies: completing the picture of the extremely metal-poor ...

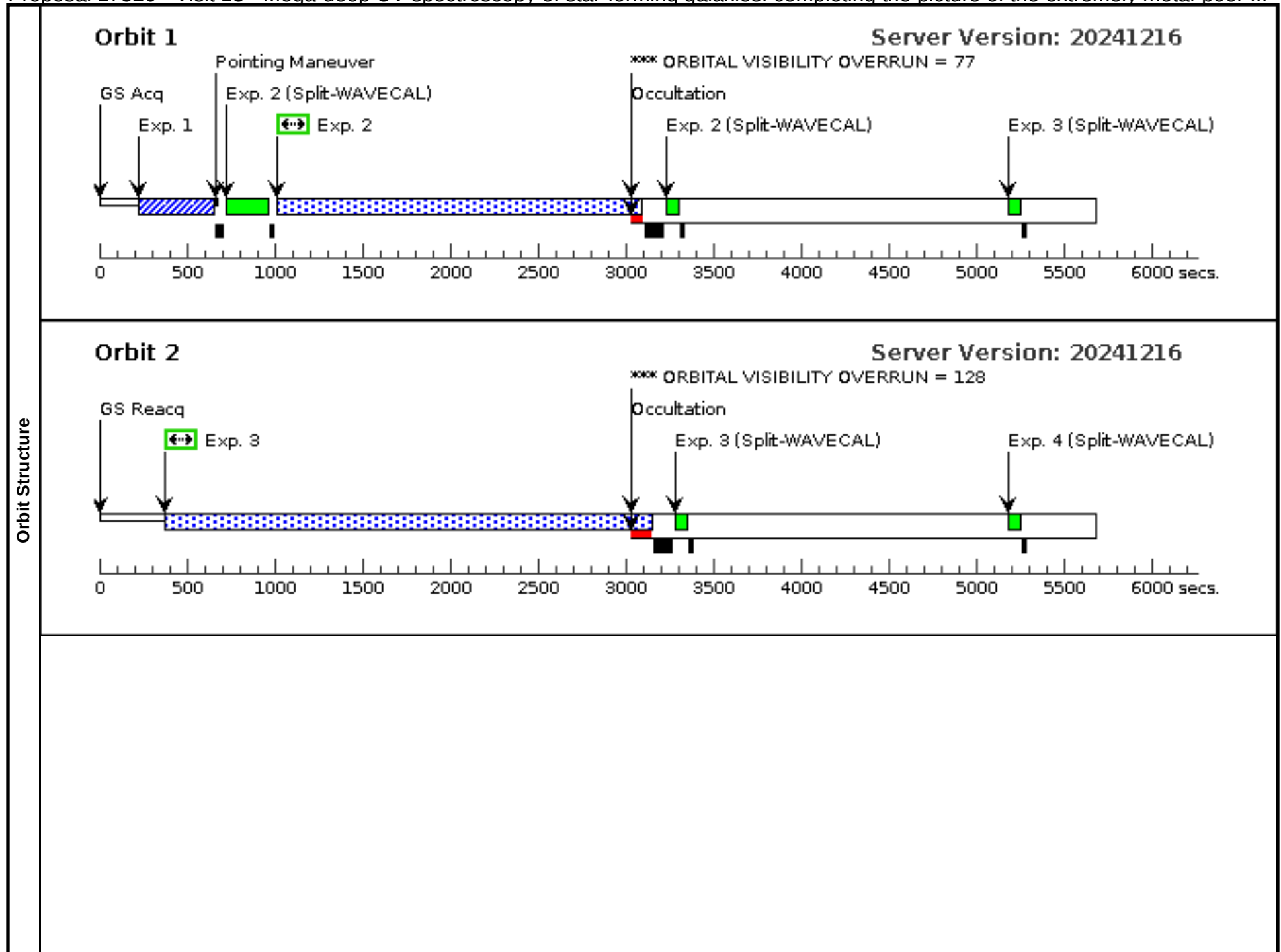
Visit	Proposal 17526, Visit 12, completed										Fri Mar 28 11:00:47 GMT 2025	
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	Scientific Instruments: COS/FUV, COS/NUV											
	Special Requirements: (none)											
Diagnostics	(Visit 12) Warning (Orbit Planner): INEFFICIENT ORDERING OF FP-POS POSITIONS											
	(Visit 12) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN											
	(Visit 12) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN											
	(Visit 12) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN											
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections			Fluxes		Miscellaneous			
	(1)	J082555.52+353232.0	RA: 08 25 55.5207 (126.4813362d) Dec: +35 32 31.96 (35.54221d) Equinox: J2000				V=18.5		Reference Frame: ICRS			
	Comments: Category=GALAXY Description=[DWARF COMPACT, STAR FORMING REGION] 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.189 1407)	(1) J082555.52+353 232.0	COS/NUV, ACQ/IMAGE, PSA	MIRRORA				108 Secs (108 Secs)			
									[==>]		[1]	
	2	(COS.sp.189 1409)	(1) J082555.52+353 232.0	COS/FUV, TIME-TAG, PSA	G160M 1533 A	BUFFER-TIME=20 34; FP-POS=4			2034 Secs (2034 Secs)			
									[==>]		[1]	
	3	(COS.sp.189 1409)	(1) J082555.52+353 232.0	COS/FUV, TIME-TAG, PSA	G160M 1533 A	BUFFER-TIME=27 27; FP-POS=1			2727 Secs (2727 Secs)			
									[==>]		[2]	
	4	(COS.sp.189 1409)	(1) J082555.52+353 232.0	COS/FUV, TIME-TAG, PSA	G160M 1533 A	BUFFER-TIME=27 27; FP-POS=2			2727 Secs (2727 Secs)			
									[==>]		[3]	

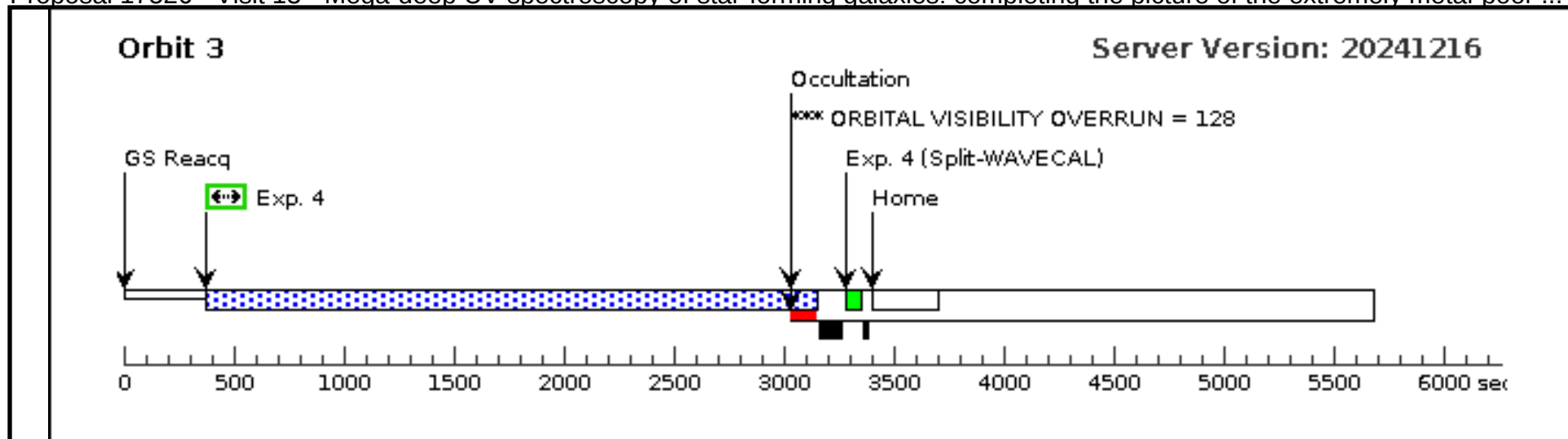




Proposal 17526 - Visit 13 - Mega-deep UV spectroscopy of star-forming galaxies: completing the picture of the extremely metal-poor ...

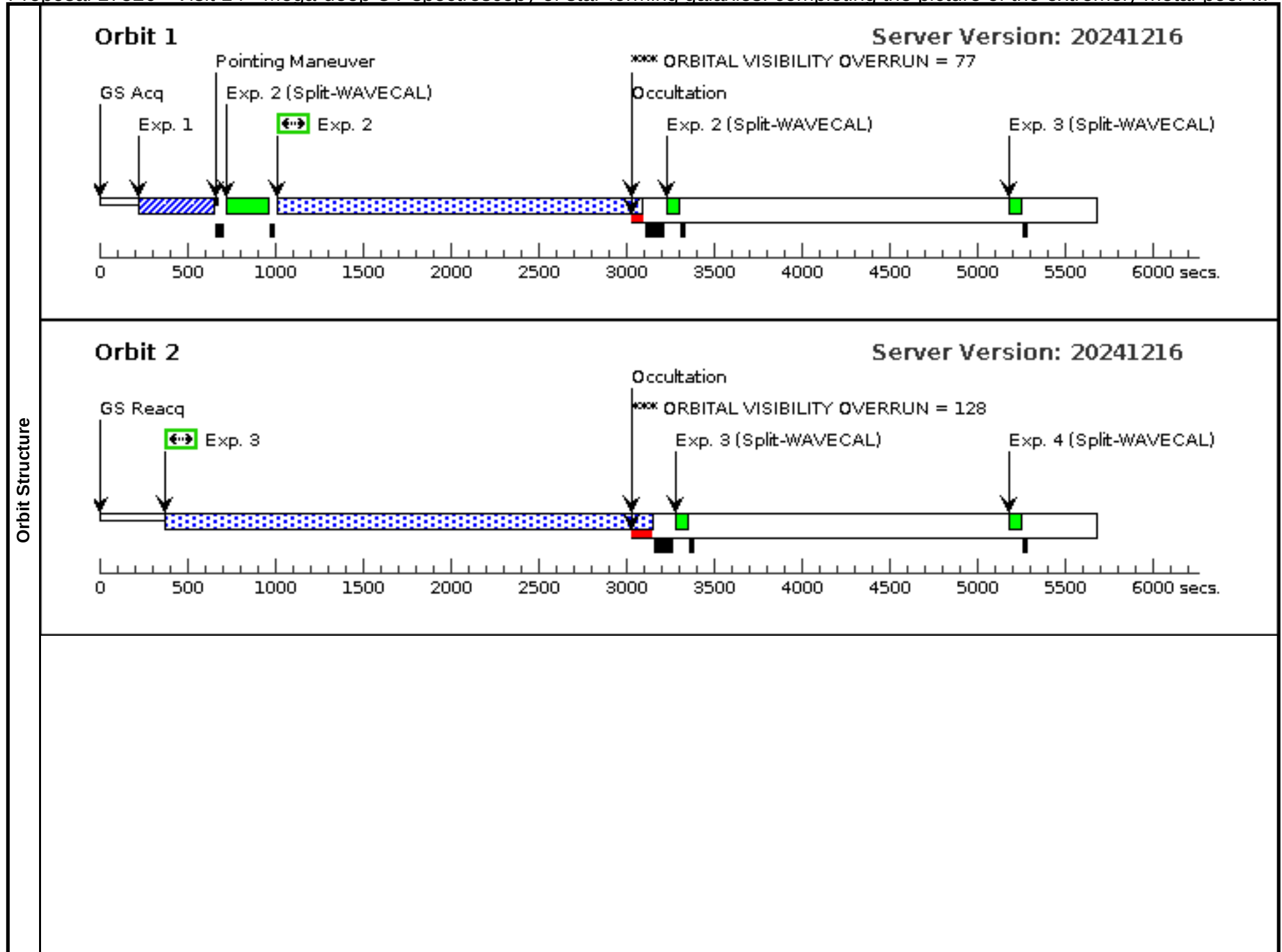
Visit	Proposal 17526, Visit 13, completed										Fri Mar 28 11:00:47 GMT 2025
	Diagnostic Status: Warning										
	Scientific Instruments: COS/FUV, COS/NUV										
	Special Requirements: (none)										
Diagnostics	(Visit 13) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN										
	(Visit 13) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN										
	(Visit 13) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN										
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections			Fluxes		Miscellaneous		
	(1)	J082555.52+353232.0	RA: 08 25 55.5207 (126.4813362d) Dec: +35 32 31.96 (35.54221d) Equinox: J2000				V=18.5		Reference Frame: ICRS		
	Comments: Category=GALAXY Description=[DWARF COMPACT, STAR FORMING REGION] 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.189 1407)	(1) J082555.52+353 232.0	COS/NUV, ACQ/IMAGE, PSA	MIRRORA				108 Secs (108 Secs)		
									[==>]		[1]
	2	(COS.sp.189 1409)	(1) J082555.52+353 232.0	COS/FUV, TIME-TAG, PSA	G160M 1533 A	BUFFER-TIME=20 34; FP-POS=1			2034 Secs (2034 Secs)		
									[==>]		[1]
	3	(COS.sp.189 1409)	(1) J082555.52+353 232.0	COS/FUV, TIME-TAG, PSA	G160M 1533 A	BUFFER-TIME=27 27; FP-POS=2			2727 Secs (2727 Secs)		
									[==>]		[2]
	4	(COS.sp.189 1409)	(1) J082555.52+353 232.0	COS/FUV, TIME-TAG, PSA	G160M 1533 A	BUFFER-TIME=27 27; FP-POS=3			2727 Secs (2727 Secs)		
									[==>]		[3]

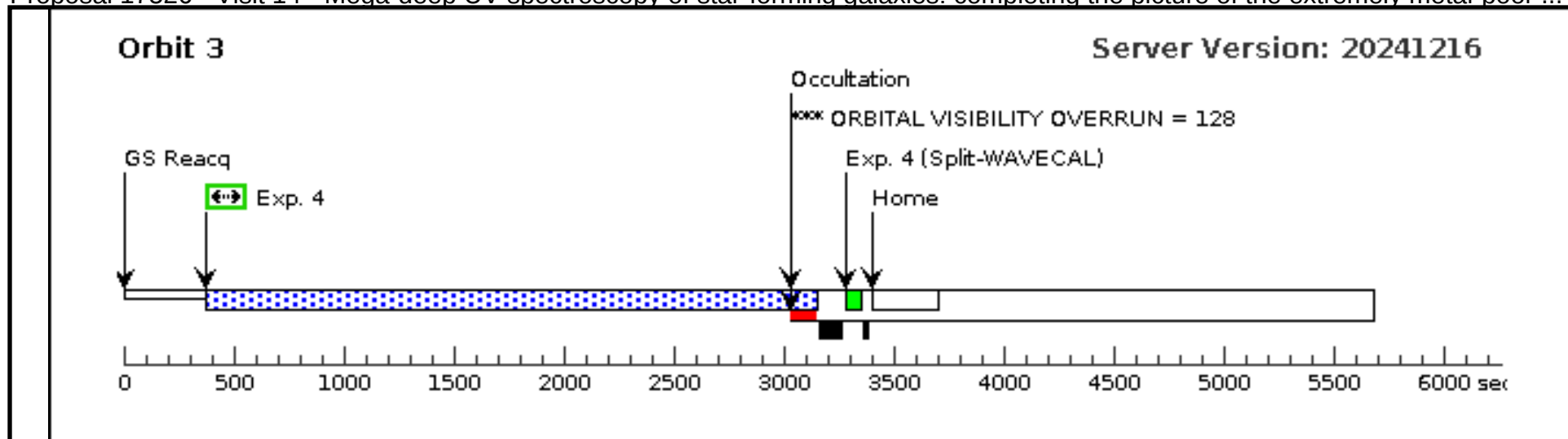




Proposal 17526 - Visit 14 - Mega-deep UV spectroscopy of star-forming galaxies: completing the picture of the extremely metal-poor ...

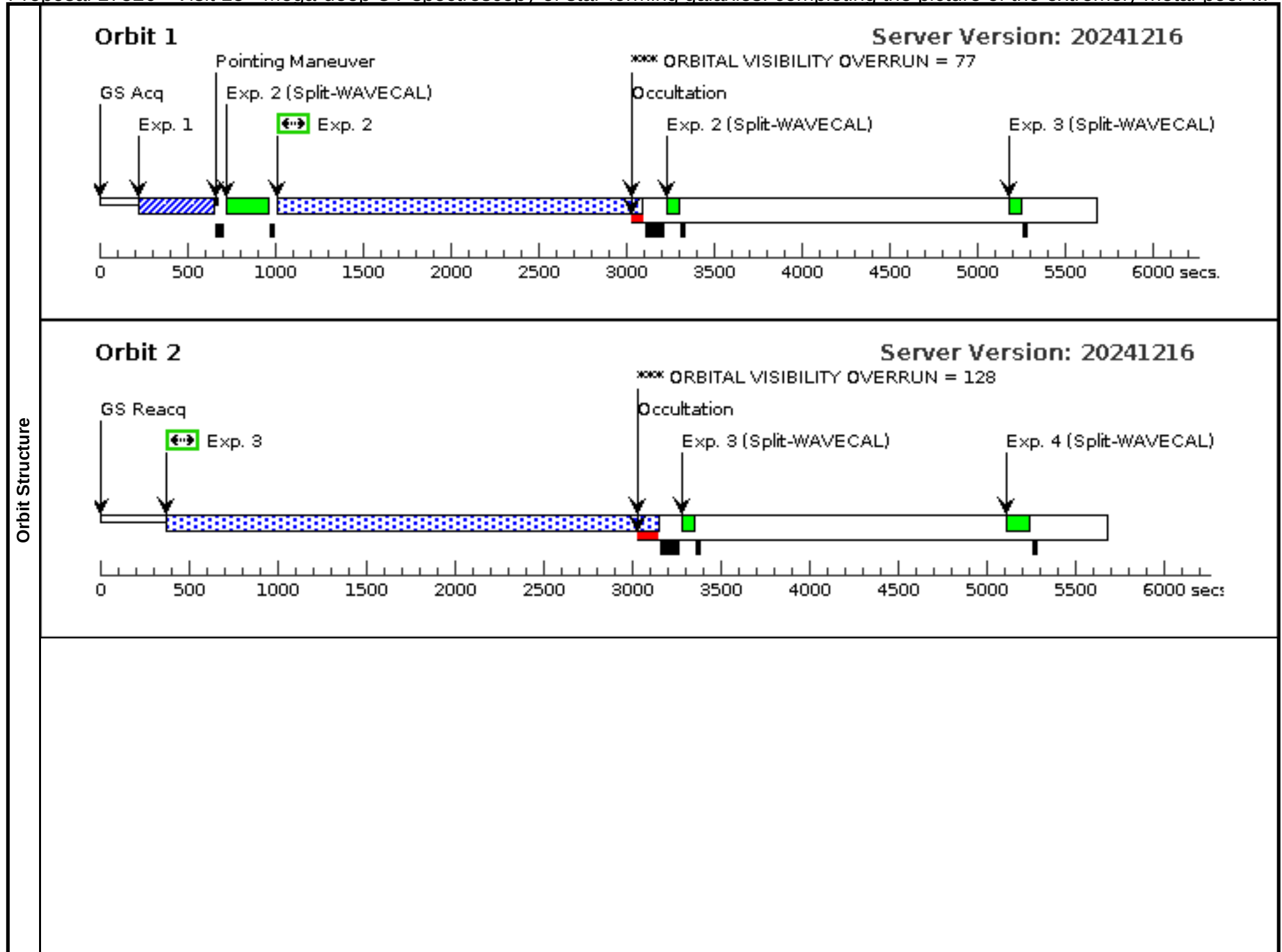
Visit	Proposal 17526, Visit 14, scheduling										Fri Mar 28 11:00:47 GMT 2025
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	Scientific Instruments: COS/FUV, COS/NUV										
	Special Requirements: (none)										
Diagnostics	(Visit 14) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN										
	(Visit 14) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN										
	(Visit 14) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN										
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections			Fluxes	Miscellaneous			
	(1)	J082555.52+353232.0	RA: 08 25 55.5207 (126.4813362d) Dec: +35 32 31.96 (35.54221d) Equinox: J2000				V=18.5	Reference Frame: ICRS			
	Comments: Category=GALAXY Description=[DWARF COMPACT, STAR FORMING REGION] 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.189 1407)	(1) J082555.52+353 232.0	COS/NUV, ACQ/IMAGE, PSA	MIRRORA				108 Secs (108 Secs)		
									[==>]	[1]	
	2	(COS.sp.189 1409)	(1) J082555.52+353 232.0	COS/FUV, TIME-TAG, PSA	G160M 1533 A	BUFFER-TIME=20 34; FP-POS=2			2034 Secs (2034 Secs)		
									[==>]	[1]	
	3	(COS.sp.189 1409)	(1) J082555.52+353 232.0	COS/FUV, TIME-TAG, PSA	G160M 1533 A	BUFFER-TIME=27 27; FP-POS=3			2727 Secs (2727 Secs)		
									[==>]	[2]	
	4	(COS.sp.189 1409)	(1) J082555.52+353 232.0	COS/FUV, TIME-TAG, PSA	G160M 1533 A	BUFFER-TIME=27 27; FP-POS=4			2727 Secs (2727 Secs)		
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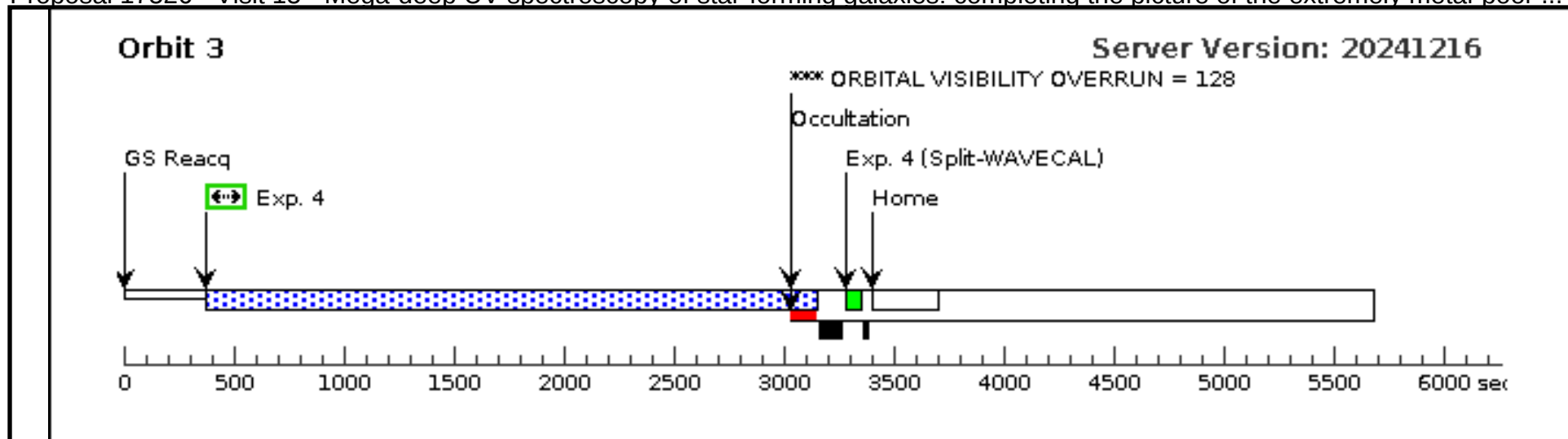




Proposal 17526 - Visit 15 - Mega-deep UV spectroscopy of star-forming galaxies: completing the picture of the extremely metal-poor ...

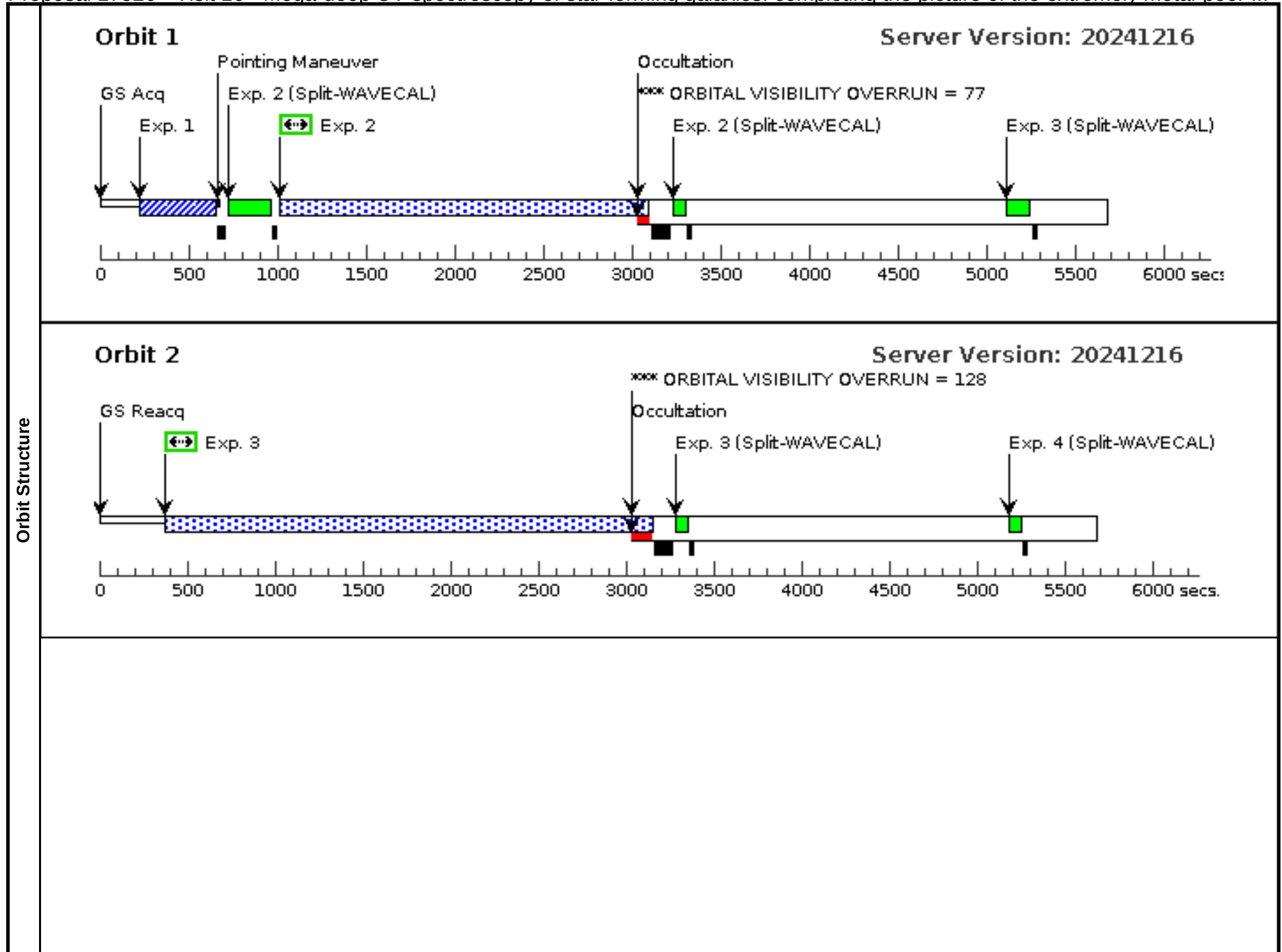
Visit	Proposal 17526, Visit 15, scheduling										Fri Mar 28 11:00:47 GMT 2025
	Diagnostic Status: Warning										
	Scientific Instruments: COS/FUV, COS/NUV										
	Special Requirements: (none)										
Diagnostics	(Visit 15) Warning (Orbit Planner): INEFFICIENT ORDERING OF FP-POS POSITIONS										
	(Visit 15) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN										
	(Visit 15) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN										
	(Visit 15) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN										
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections			Fluxes		Miscellaneous		
	(1)	J082555.52+353232.0	RA: 08 25 55.5207 (126.4813362d) Dec: +35 32 31.96 (35.54221d) Equinox: J2000				V=18.5		Reference Frame: ICRS		
	Comments: Category=GALAXY Description=[DWARF COMPACT, STAR FORMING REGION] 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.189 1407)	(1) J082555.52+353 232.0	COS/NUV, ACQ/IMAGE, PSA	MIRRORA				108 Secs (108 Secs)		
									[==>]		[1]
	2	(COS.sp.189 1409)	(1) J082555.52+353 232.0	COS/FUV, TIME-TAG, PSA	G160M 1533 A	BUFFER-TIME=20 34; FP-POS=3			2034 Secs (2034 Secs)		
									[==>]		[1]
	3	(COS.sp.189 1409)	(1) J082555.52+353 232.0	COS/FUV, TIME-TAG, PSA	G160M 1533 A	BUFFER-TIME=27 27; FP-POS=4			2727 Secs (2727 Secs)		
									[==>]		[2]
	4	(COS.sp.189 1409)	(1) J082555.52+353 232.0	COS/FUV, TIME-TAG, PSA	G160M 1533 A	BUFFER-TIME=27 27; FP-POS=1			2727 Secs (2727 Secs)		
									[==>]		[3]

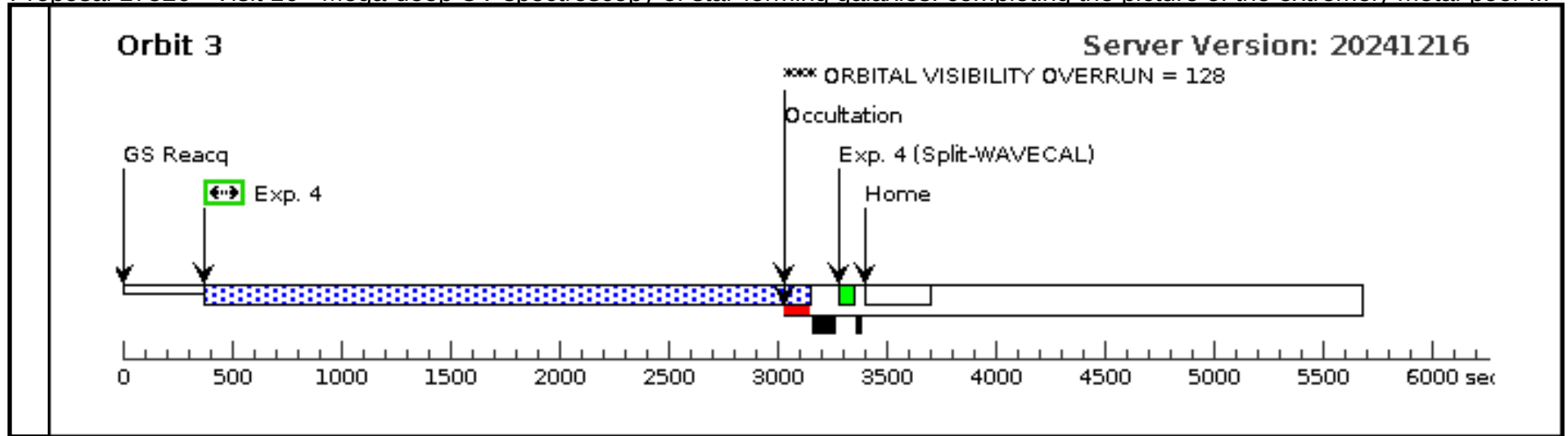




Proposal 17526 - Visit 16 - Mega-deep UV spectroscopy of star-forming galaxies: completing the picture of the extremely metal-poor ...

Visit	Proposal 17526, Visit 16, scheduling										Fri Mar 28 11:00:47 GMT 2025	
	Diagnostic Status: Warning											
	Scientific Instruments: COS/FUV, COS/NUV											
	Special Requirements: (none)											
Diagnostics	(Visit 16) Warning (Orbit Planner): INEFFICIENT ORDERING OF FP-POS POSITIONS											
	(Visit 16) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN											
	(Visit 16) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN											
	(Visit 16) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN											
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections			Fluxes		Miscellaneous			
	(1)	J082555.52+353232.0	RA: 08 25 55.5207 (126.4813362d) Dec: +35 32 31.96 (35.54221d) Equinox: J2000				V=18.5		Reference Frame: ICRS			
	Comments: Category=GALAXY Description=[DWARF COMPACT, STAR FORMING REGION] 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.189 1407)	(1) J082555.52+353 232.0	COS/NUV, ACQ/IMAGE, PSA	MIRRORA				108 Secs (108 Secs)			
									[==>]		[1]	
	2	(COS.sp.189 1409)	(1) J082555.52+353 232.0	COS/FUV, TIME-TAG, PSA	G160M 1533 A	BUFFER-TIME=20 34; FP-POS=4			2034 Secs (2034 Secs)			
									[==>]		[1]	
	3	(COS.sp.189 1409)	(1) J082555.52+353 232.0	COS/FUV, TIME-TAG, PSA	G160M 1533 A	BUFFER-TIME=27 27; FP-POS=1			2727 Secs (2727 Secs)			
									[==>]		[2]	
	4	(COS.sp.189 1409)	(1) J082555.52+353 232.0	COS/FUV, TIME-TAG, PSA	G160M 1533 A	BUFFER-TIME=27 27; FP-POS=2			2727 Secs (2727 Secs)			
								[==>]		[3]		



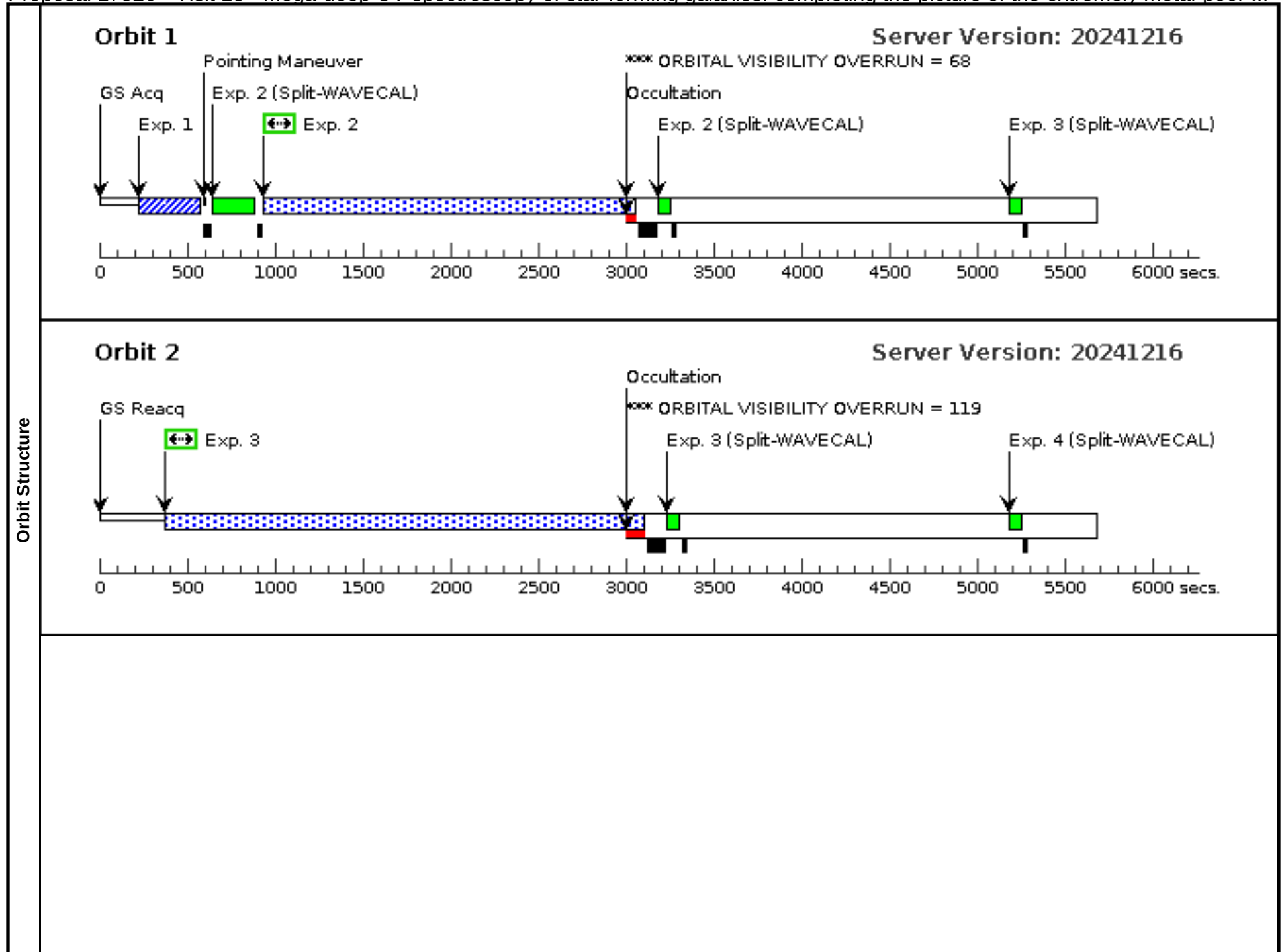


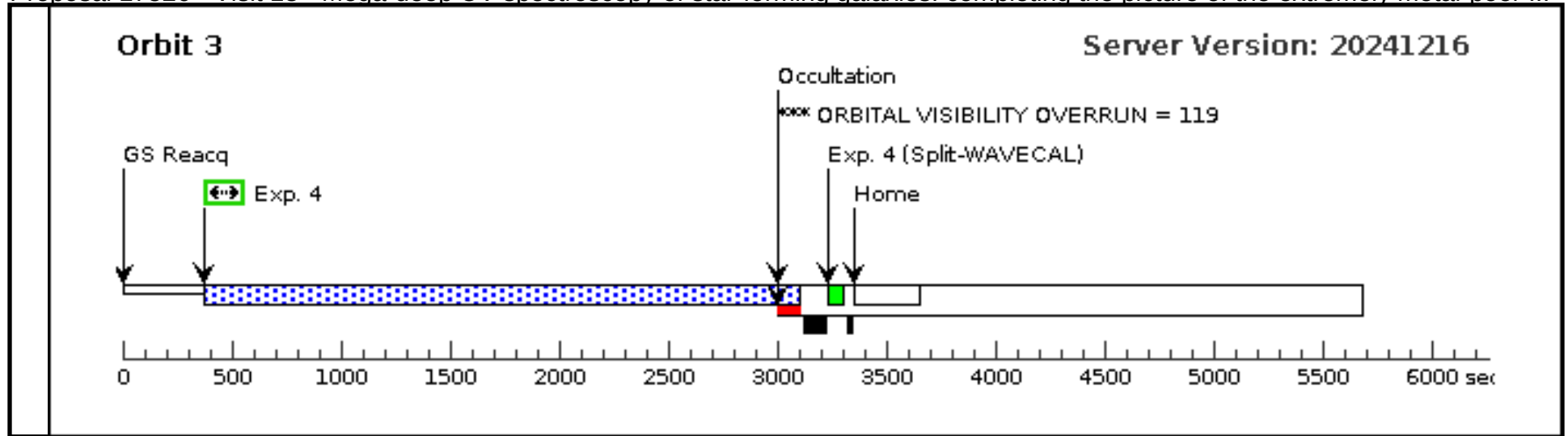
Proposal 17526 - Visit 17 - Mega-deep UV spectroscopy of star-forming galaxies: completing the picture of the extremely metal-poor ...

Visit	Proposal 17526, Visit 17, completed										Fri Mar 28 11:00:47 GMT 2025	
	Diagnostic Status: Warning											
	Scientific Instruments: COS/FUV, COS/NUV											
	Special Requirements: (none)											
Diagnostics	(Visit 17) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN											
Fixed Targets	#	Name	Target Coordinates		Targ. Coord. Corrections		Fluxes		Miscellaneous			
	(1)	J082555.52+353232.0	RA: 08 25 55.5207 (126.4813362d) Dec: +35 32 31.96 (35.54221d) Equinox: J2000				V=18.5		Reference Frame: ICRS			
Comments: Category=GALAXY Description=[DWARF COMPACT, STAR FORMING REGION] 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.189 1407)	(1) J082555.52+353 232.0	COS/NUV, ACQ/IMAGE, PSA		MIRRORA				108 Secs (108 Secs)		
										[==>]		[1]
	2	(COS.sp.189 1409)	(1) J082555.52+353 232.0	COS/FUV, TIME-TAG, PSA		G160M 1533 A	BUFFER-TIME=20 34; FP-POS=3			2034 Secs (2034 Secs)		
										[==>]		[1]
Orbit Structure	Orbit 1 Server Version: 20241216 xxxxx ORBITAL VISIBILITY OVERRUN = 77 GS Acq Exp. 1 Pointing Maneuver Exp. 2 (Split-WAVECAL) Exp. 2 Occultation Home Exp. 2 (Split-WAVECAL)											

Proposal 17526 - Visit 18 - Mega-deep UV spectroscopy of star-forming galaxies: completing the picture of the extremely metal-poor ...

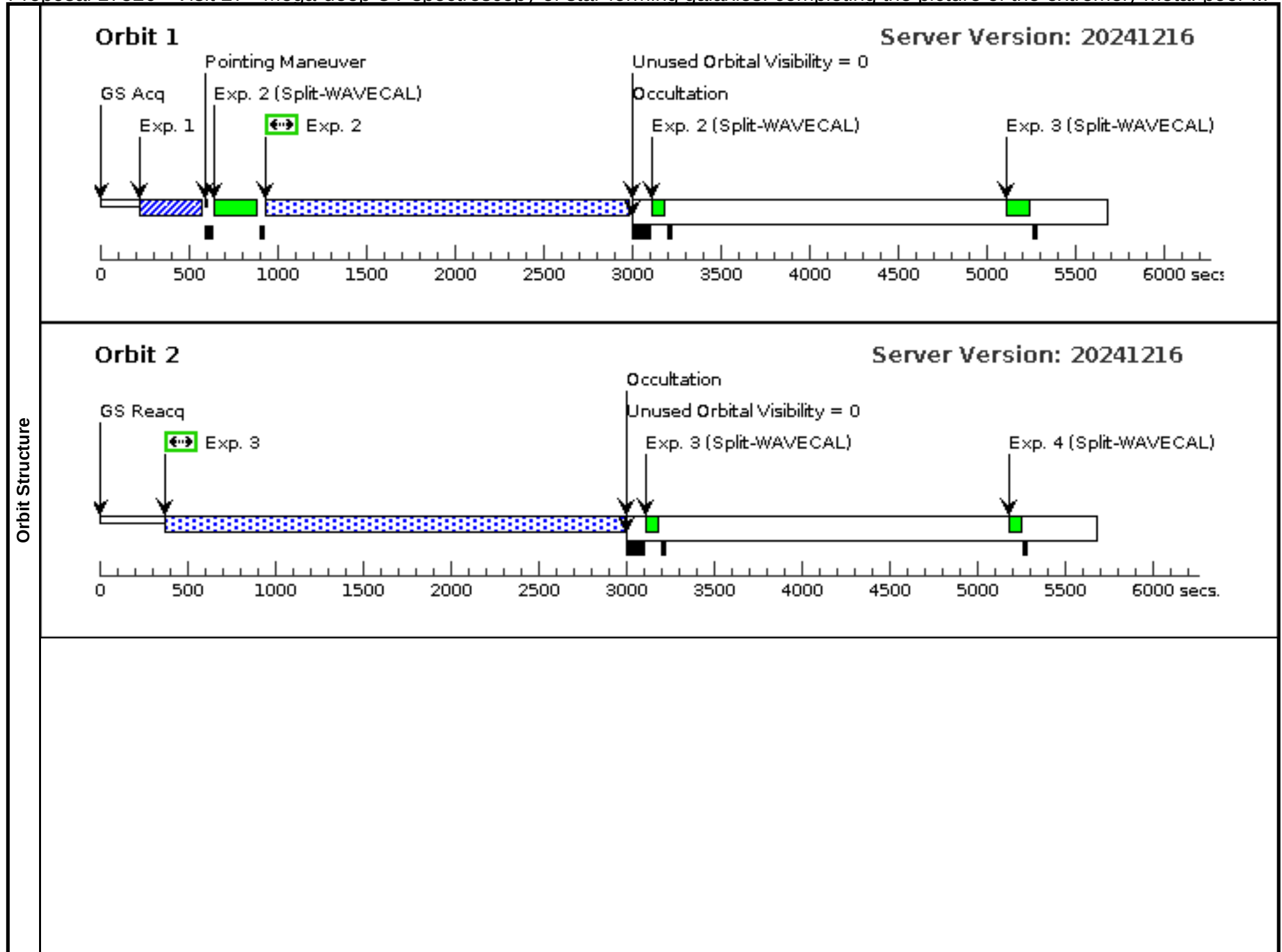
Visit	Proposal 17526, Visit 18, failed										Fri Mar 28 11:00:47 GMT 2025	
	Diagnostic Status: Warning											
	Scientific Instruments: COS/FUV, COS/NUV											
	Special Requirements: (none)											
Diagnostics	(Visit 18) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN											
	(Visit 18) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN											
	(Visit 18) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN											
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections		Fluxes		Miscellaneous				
	(2)	J104457.80+035313.1	RA: 10 44 57.7900 (161.2407917d) Dec: +03 53 13.14 (3.88698d) Equinox: J2000			V=18.4		Reference Frame: ICRS				
	Comments: Category=GALAXY Description=[DWARF COMPACT, STAR FORMING REGION] 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.189 1408)	(2) J104457.80+035 313.1	COS/NUV, ACQ/IMAGE, PSA	MIRRORA				69 Secs (69 Secs)			
									[==>]		[1]	
	2	(COS.sp.189 1410)	(2) J104457.80+035 313.1	COS/FUV, TIME-TAG, PSA	G160M 1533 A	BUFFER-TIME=20 69; FP-POS=1			2069 Secs (2069 Secs)			
									[==>]		[1]	
	3	(COS.sp.189 1410)	(2) J104457.80+035 313.1	COS/FUV, TIME-TAG, PSA	G160M 1533 A	BUFFER-TIME=26 84; FP-POS=2			2684 Secs (2684 Secs)			
									[==>]		[2]	
	4	(COS.sp.189 1410)	(2) J104457.80+035 313.1	COS/FUV, TIME-TAG, PSA	G160M 1533 A	BUFFER-TIME=26 84; FP-POS=3			2684 Secs (2684 Secs)			
									[==>]		[3]	

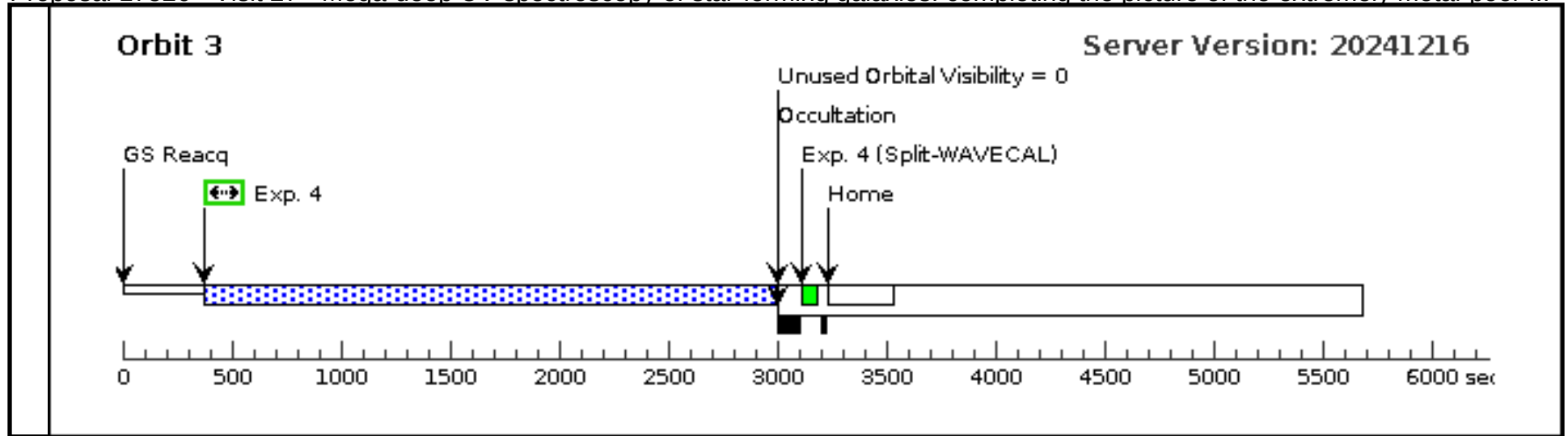




Proposal 17526 - Visit 27 - Mega-deep UV spectroscopy of star-forming galaxies: completing the picture of the extremely metal-poor ...

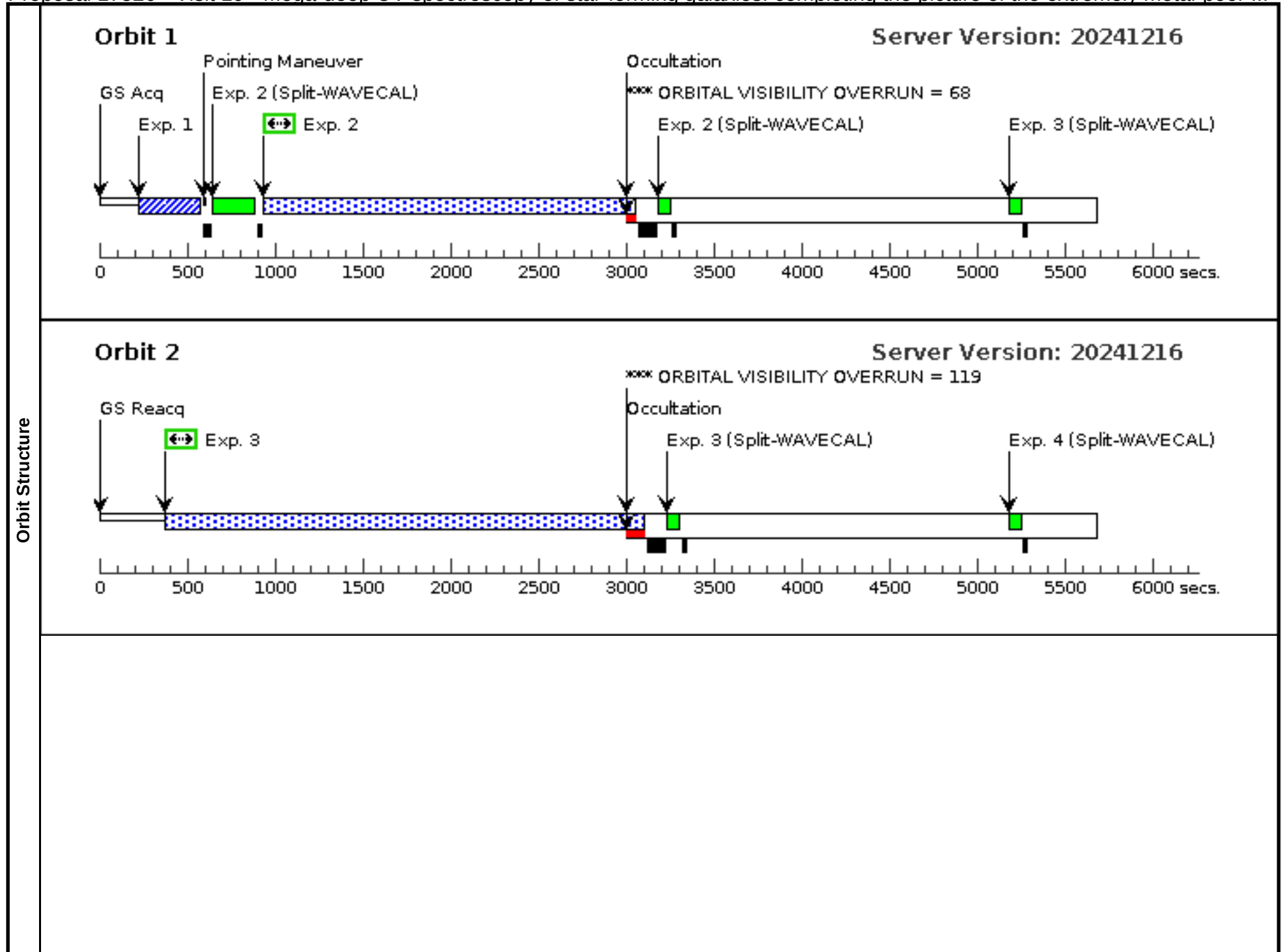
Visit	Proposal 17526, Visit 27										Fri Mar 28 11:00:47 GMT 2025			
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	Scientific Instruments: COS/FUV, COS/NUV													
	Special Requirements: (none)													
Diagnostics	(Visit 27) Warning (Orbit Planner): INEFFICIENT ORDERING OF FP-POS POSITIONS													
Fixed Targets	#	Name	Target Coordinates			Targ. Coord. Corrections			Fluxes		Miscellaneous			
	(2)	J104457.80+035313.1	RA: 10 44 57.7900 (161.2407917d) Dec: +03 53 13.14 (3.88698d) Equinox: J2000						V=18.4		Reference Frame: ICRS			
	Comments: Category=GALAXY Description=[DWARF COMPACT, STAR FORMING REGION] 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.189 1408)	(2) J104457.80+035 313.1	COS/NUV, ACQ/IMAGE, PSA		MIRRORA				69 Secs (69 Secs)				
										[==>]		[1]		
	2	(COS.sp.189 1410)	(2) J104457.80+035 313.1	COS/FUV, TIME-TAG, PSA		G160M 1533 A	BUFFER-TIME=20 01; FP-POS=3			2069 Secs (2001 Secs)				
										[==>2001.0 Secs]		[1]		
	3	(COS.sp.189 1410)	(2) J104457.80+035 313.1	COS/FUV, TIME-TAG, PSA		G160M 1533 A	BUFFER-TIME=25 65; FP-POS=1			2684 Secs (2565 Secs)				
										[==>2565.0 Secs]		[2]		
	4	(COS.sp.189 1410)	(2) J104457.80+035 313.1	COS/FUV, TIME-TAG, PSA		G160M 1533 A	BUFFER-TIME=25 65; FP-POS=2			2684 Secs (2565 Secs)				
										[==>2565.0 Secs]		[3]		

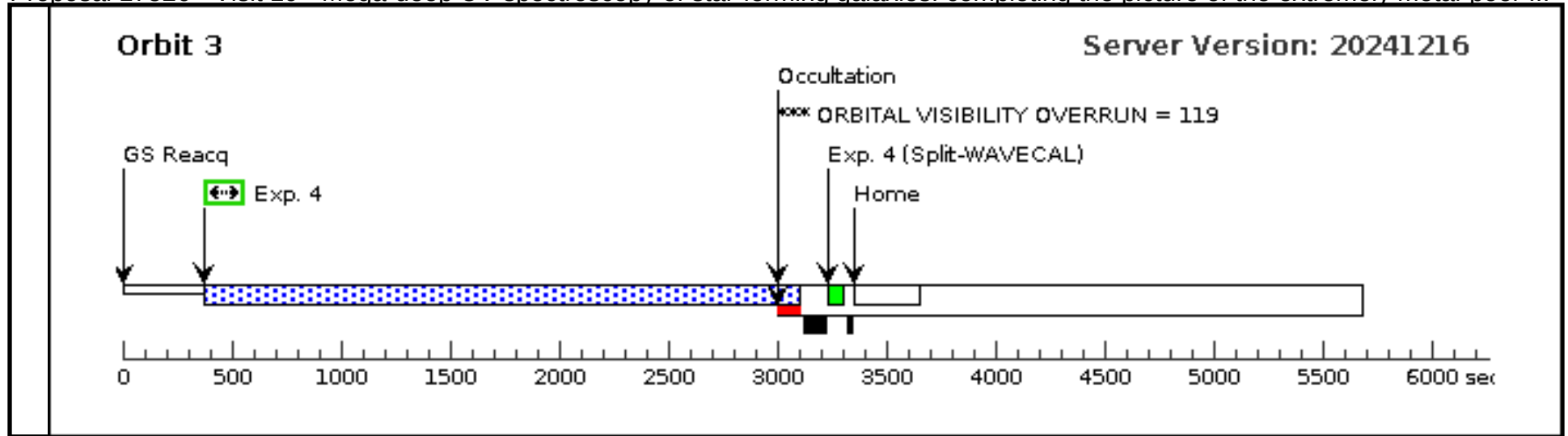




Proposal 17526 - Visit 19 - Mega-deep UV spectroscopy of star-forming galaxies: completing the picture of the extremely metal-poor ...

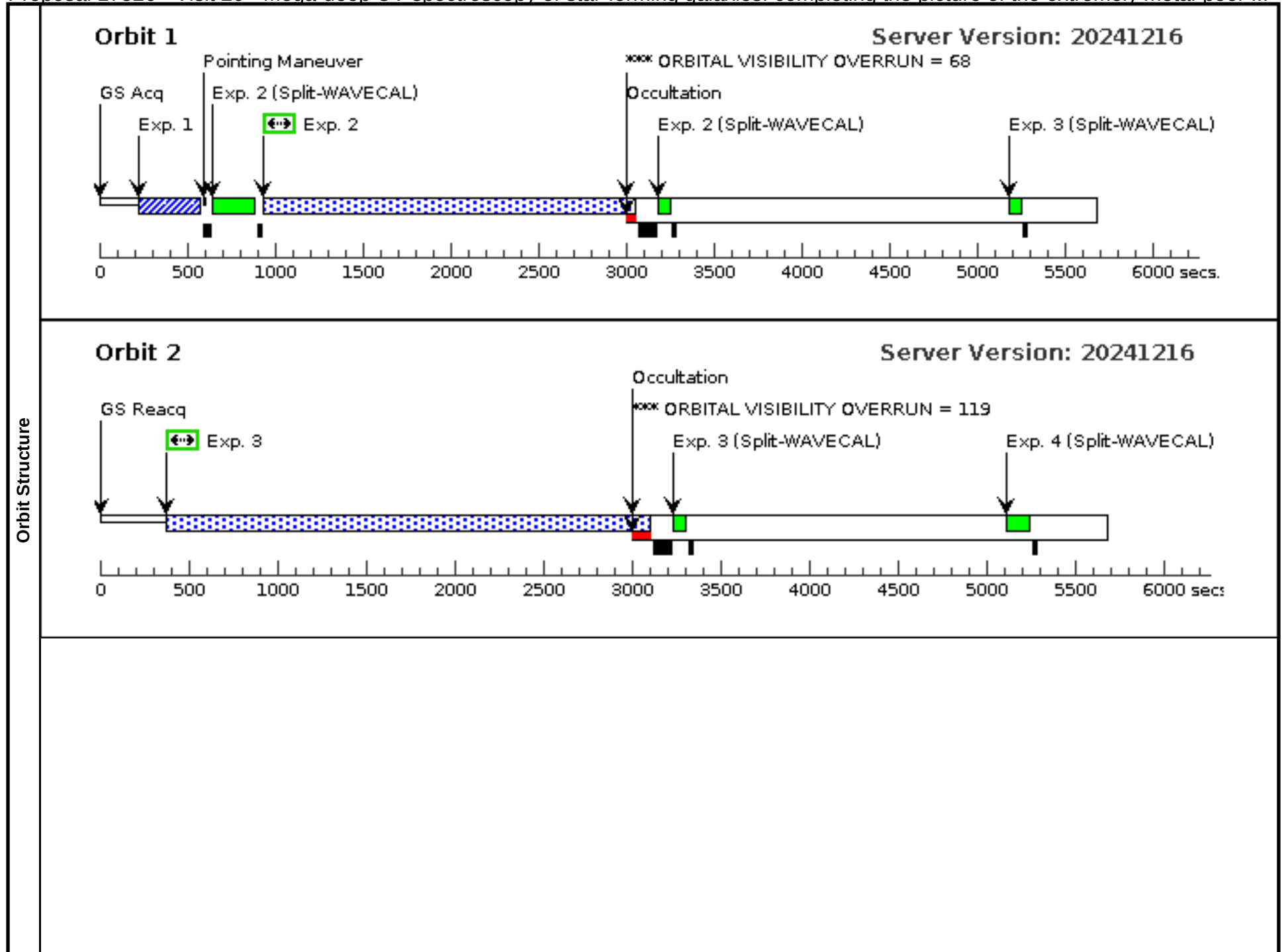
Visit	Proposal 17526, Visit 19, completed										Fri Mar 28 11:00:47 GMT 2025
	Diagnostic Status: Warning										
	Scientific Instruments: COS/FUV, COS/NUV										
	Special Requirements: (none)										
Diagnostics	(Visit 19) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN										
	(Visit 19) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN										
	(Visit 19) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN										
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections			Fluxes	Miscellaneous			
	(2)	J104457.80+035313.1	RA: 10 44 57.7900 (161.2407917d) Dec: +03 53 13.14 (3.88698d) Equinox: J2000				V=18.4	Reference Frame: ICRS			
	Comments: Category=GALAXY Description=[DWARF COMPACT, STAR FORMING REGION] 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.189 1408)	(2) J104457.80+035 313.1	COS/NUV, ACQ/IMAGE, PSA	MIRRORA				69 Secs (69 Secs)		
									[==>]		[1]
	2	(COS.sp.189 1410)	(2) J104457.80+035 313.1	COS/FUV, TIME-TAG, PSA	G160M 1533 A	BUFFER-TIME=20 69; FP-POS=2			2069 Secs (2069 Secs)		
									[==>]		[1]
	3	(COS.sp.189 1410)	(2) J104457.80+035 313.1	COS/FUV, TIME-TAG, PSA	G160M 1533 A	BUFFER-TIME=26 84; FP-POS=3			2684 Secs (2684 Secs)		
									[==>]		[2]
	4	(COS.sp.189 1410)	(2) J104457.80+035 313.1	COS/FUV, TIME-TAG, PSA	G160M 1533 A	BUFFER-TIME=26 84; FP-POS=4			2684 Secs (2684 Secs)		
									[==>]		[3]

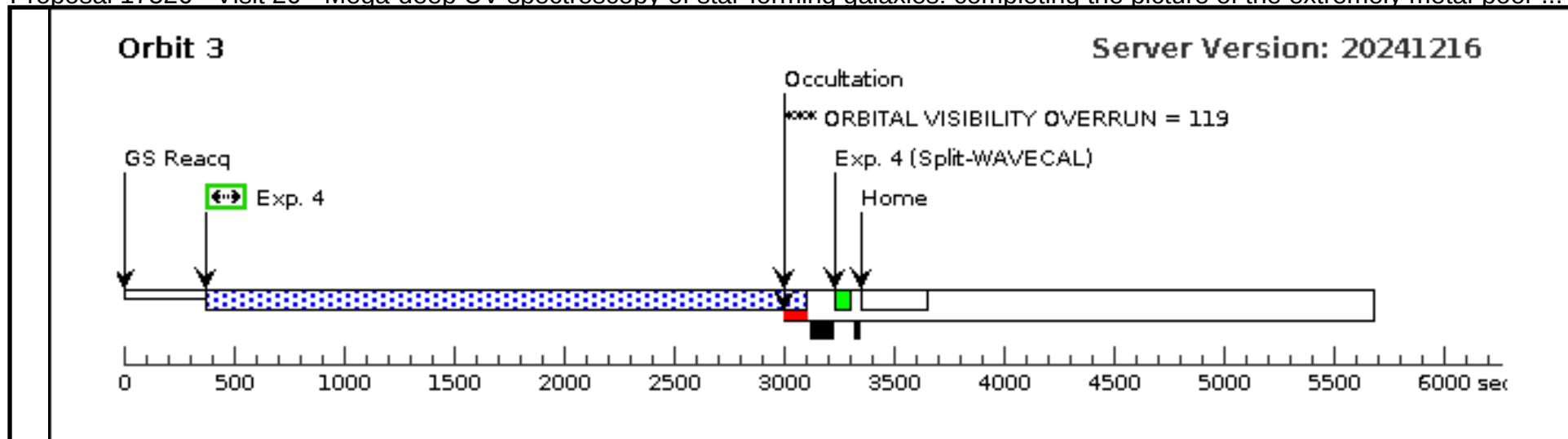




Proposal 17526 - Visit 20 - Mega-deep UV spectroscopy of star-forming galaxies: completing the picture of the extremely metal-poor ...

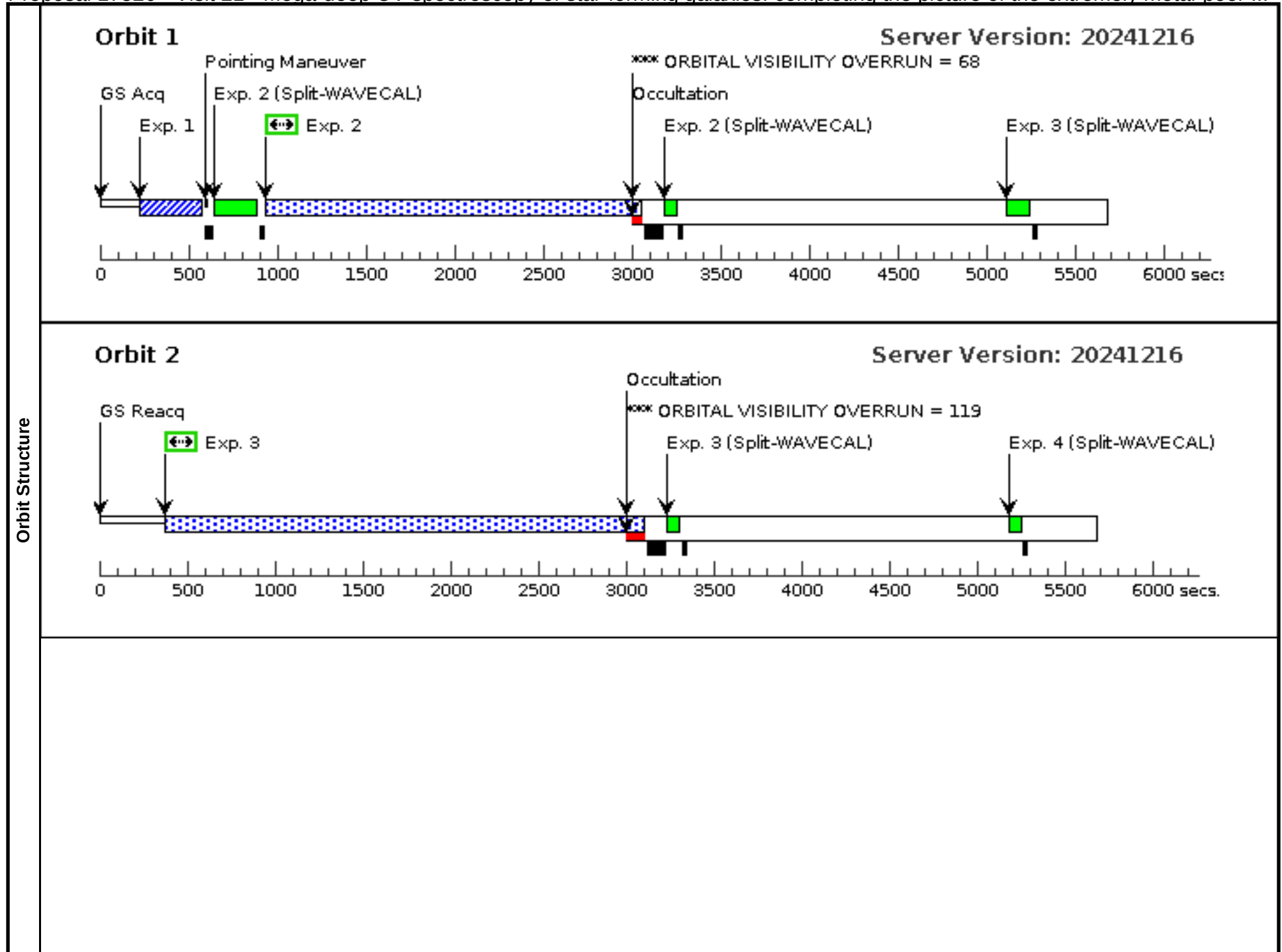
Visit	Proposal 17526, Visit 20, failed										Fri Mar 28 11:00:47 GMT 2025
	Diagnostic Status: Warning										
	Scientific Instruments: COS/FUV, COS/NUV										
	Special Requirements: (none)										
Diagnostics	(Visit 20) Warning (Orbit Planner): INEFFICIENT ORDERING OF FP-POS POSITIONS										
	(Visit 20) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN										
	(Visit 20) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN										
	(Visit 20) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN										
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections			Fluxes		Miscellaneous		
	(2)	J104457.80+035313.1	RA: 10 44 57.7900 (161.2407917d) Dec: +03 53 13.14 (3.88698d) Equinox: J2000				V=18.4		Reference Frame: ICRS		
	Comments: Category=GALAXY Description=[DWARF COMPACT, STAR FORMING REGION] 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.189 1408)	(2) J104457.80+035 313.1	COS/NUV, ACQ/IMAGE, PSA	MIRRORA				69 Secs (69 Secs)		
									[==>]		[1]
	2	(COS.sp.189 1410)	(2) J104457.80+035 313.1	COS/FUV, TIME-TAG, PSA	G160M 1533 A	BUFFER-TIME=20 69; FP-POS=3			2069 Secs (2069 Secs)		
									[==>]		[1]
	3	(COS.sp.189 1410)	(2) J104457.80+035 313.1	COS/FUV, TIME-TAG, PSA	G160M 1533 A	BUFFER-TIME=26 84; FP-POS=4			2684 Secs (2684 Secs)		
									[==>]		[2]
	4	(COS.sp.189 1410)	(2) J104457.80+035 313.1	COS/FUV, TIME-TAG, PSA	G160M 1533 A	BUFFER-TIME=26 84; FP-POS=1			2684 Secs (2684 Secs)		
									[==>]		[3]

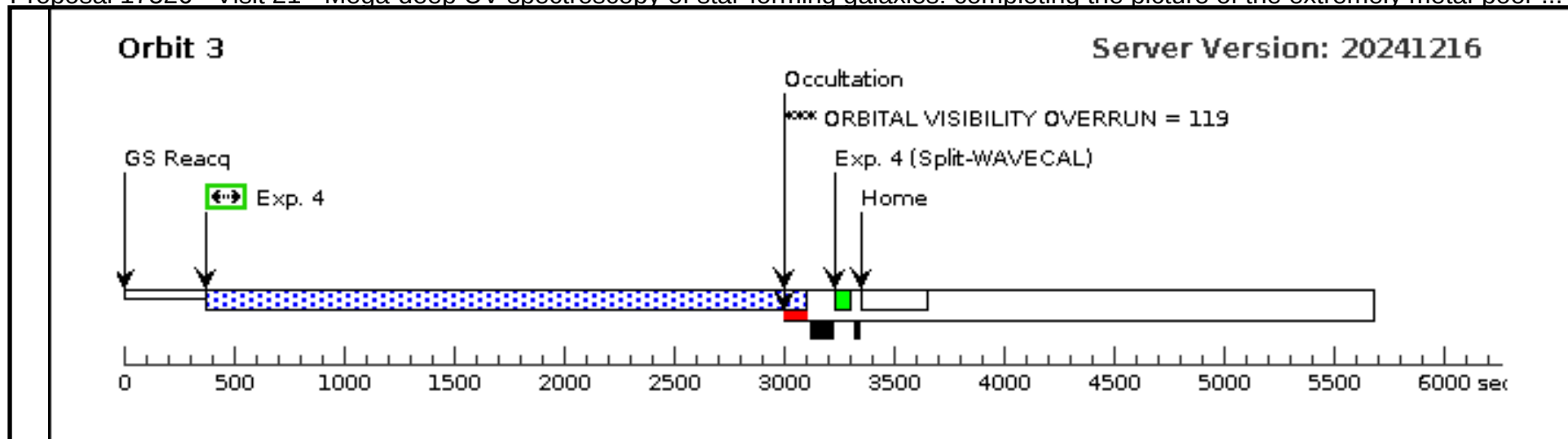




Proposal 17526 - Visit 21 - Mega-deep UV spectroscopy of star-forming galaxies: completing the picture of the extremely metal-poor ...

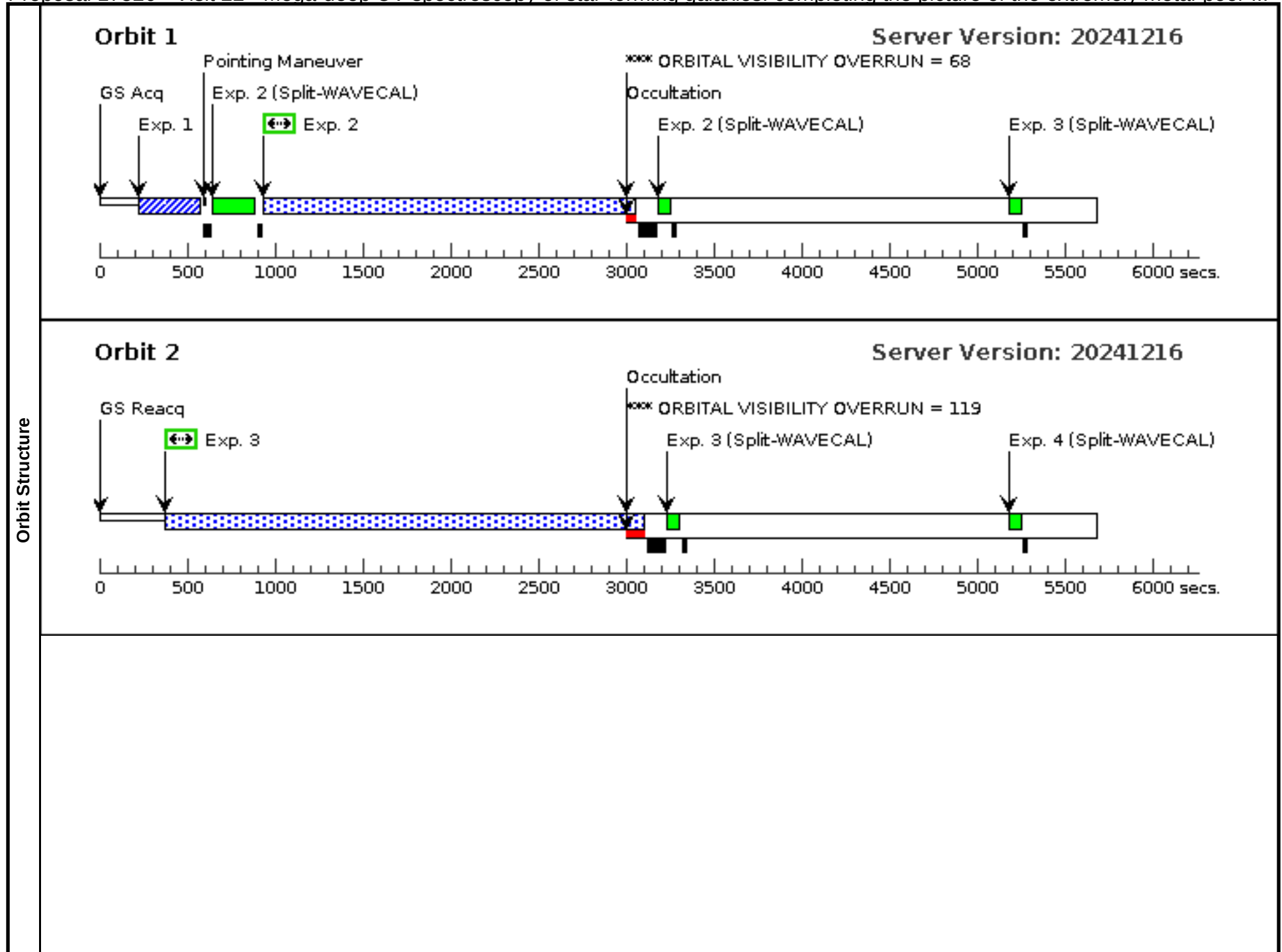
Visit	Proposal 17526, Visit 21, completed										Fri Mar 28 11:00:47 GMT 2025	
	Diagnostic Status: Warning											
	Scientific Instruments: COS/FUV, COS/NUV											
	Special Requirements: (none)											
Diagnostics	(Visit 21) Warning (Orbit Planner): INEFFICIENT ORDERING OF FP-POS POSITIONS											
	(Visit 21) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN											
	(Visit 21) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN											
	(Visit 21) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN											
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections			Fluxes		Miscellaneous			
	(2)	J104457.80+035313.1	RA: 10 44 57.7900 (161.2407917d) Dec: +03 53 13.14 (3.88698d) Equinox: J2000				V=18.4		Reference Frame: ICRS			
	Comments: Category=GALAXY Description=[DWARF COMPACT, STAR FORMING REGION] 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.189 1408)	(2) J104457.80+035 313.1	COS/NUV, ACQ/IMAGE, PSA	MIRRORA				69 Secs (69 Secs)			
									[==>]		[1]	
	2	(COS.sp.189 1410)	(2) J104457.80+035 313.1	COS/FUV, TIME-TAG, PSA	G160M 1533 A	BUFFER-TIME=20 69; FP-POS=4			2069 Secs (2069 Secs)			
									[==>]		[1]	
	3	(COS.sp.189 1410)	(2) J104457.80+035 313.1	COS/FUV, TIME-TAG, PSA	G160M 1533 A	BUFFER-TIME=26 84; FP-POS=1			2684 Secs (2684 Secs)			
									[==>]		[2]	
	4	(COS.sp.189 1410)	(2) J104457.80+035 313.1	COS/FUV, TIME-TAG, PSA	G160M 1533 A	BUFFER-TIME=26 84; FP-POS=2			2684 Secs (2684 Secs)			
									[==>]		[3]	

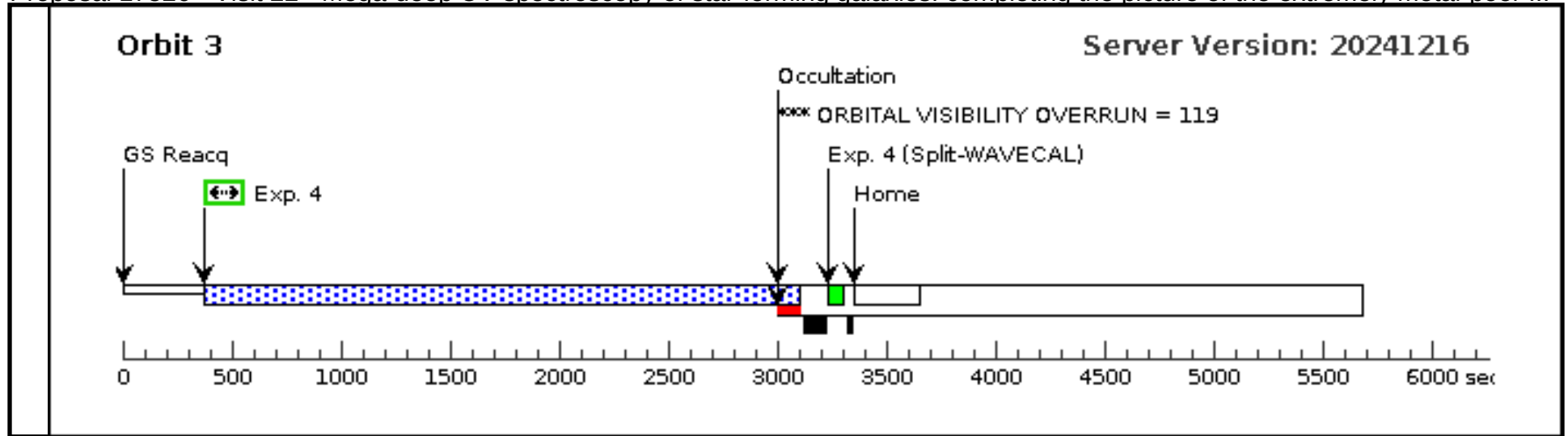




Proposal 17526 - Visit 22 - Mega-deep UV spectroscopy of star-forming galaxies: completing the picture of the extremely metal-poor ...

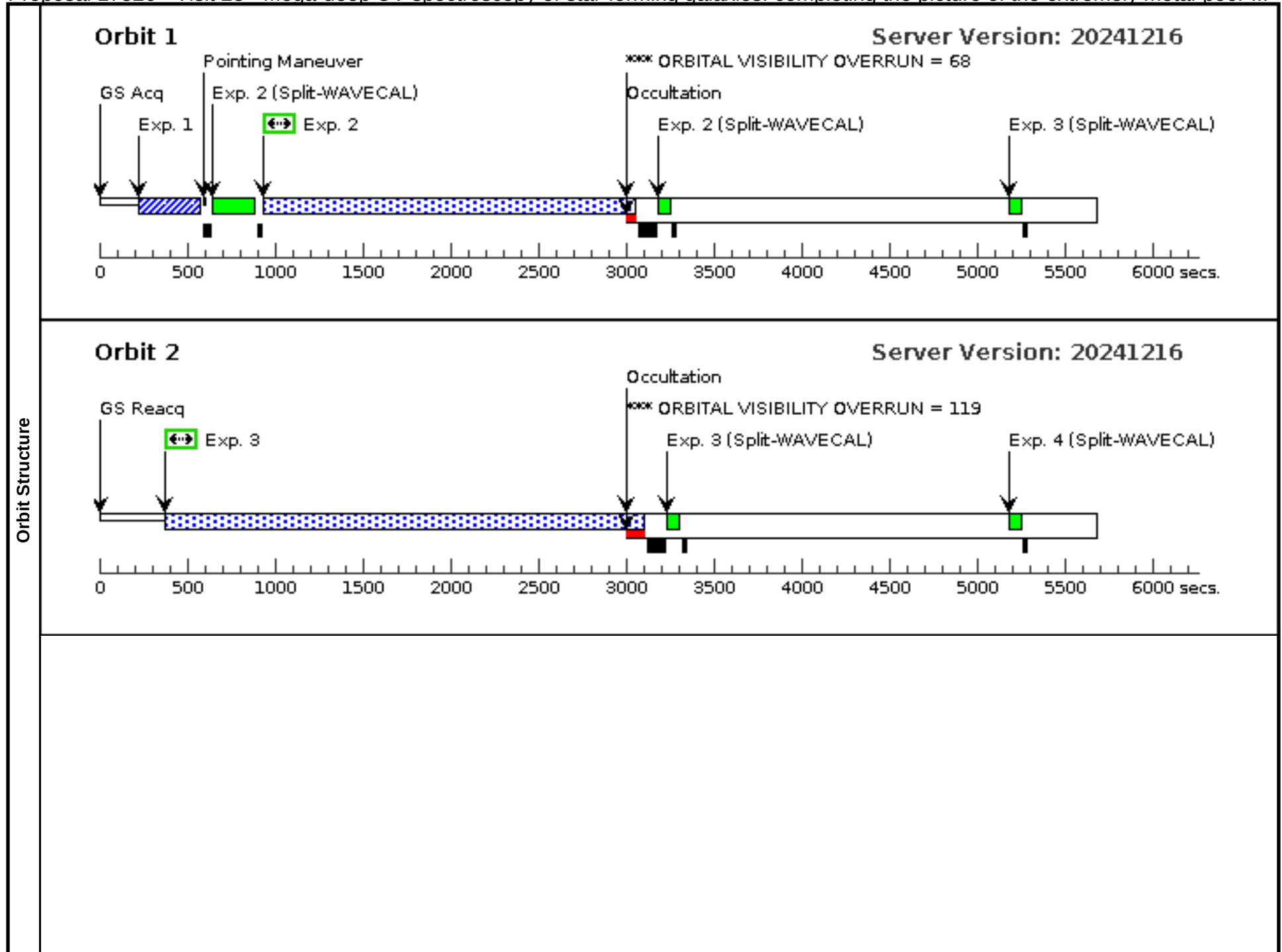
Visit	Proposal 17526, Visit 22, completed										Fri Mar 28 11:00:47 GMT 2025
	Diagnostic Status: Warning										
	Scientific Instruments: COS/FUV, COS/NUV										
	Special Requirements: (none)										
Diagnostics	(Visit 22) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN										
	(Visit 22) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN										
	(Visit 22) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN										
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections			Fluxes		Miscellaneous		
	(2)	J104457.80+035313.1	RA: 10 44 57.7900 (161.2407917d) Dec: +03 53 13.14 (3.88698d) Equinox: J2000				V=18.4		Reference Frame: ICRS		
	Comments: Category=GALAXY Description=[DWARF COMPACT, STAR FORMING REGION] 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.189 1408)	(2) J104457.80+035 313.1	COS/NUV, ACQ/IMAGE, PSA	MIRRORA				69 Secs (69 Secs)		
									[==>]		[1]
	2	(COS.sp.189 1410)	(2) J104457.80+035 313.1	COS/FUV, TIME-TAG, PSA	G160M 1533 A	BUFFER-TIME=20 69; FP-POS=1			2069 Secs (2069 Secs)		
									[==>]		[1]
	3	(COS.sp.189 1410)	(2) J104457.80+035 313.1	COS/FUV, TIME-TAG, PSA	G160M 1533 A	BUFFER-TIME=26 84; FP-POS=2			2684 Secs (2684 Secs)		
									[==>]		[2]
	4	(COS.sp.189 1410)	(2) J104457.80+035 313.1	COS/FUV, TIME-TAG, PSA	G160M 1533 A	BUFFER-TIME=26 84; FP-POS=3			2684 Secs (2684 Secs)		
									[==>]		[3]

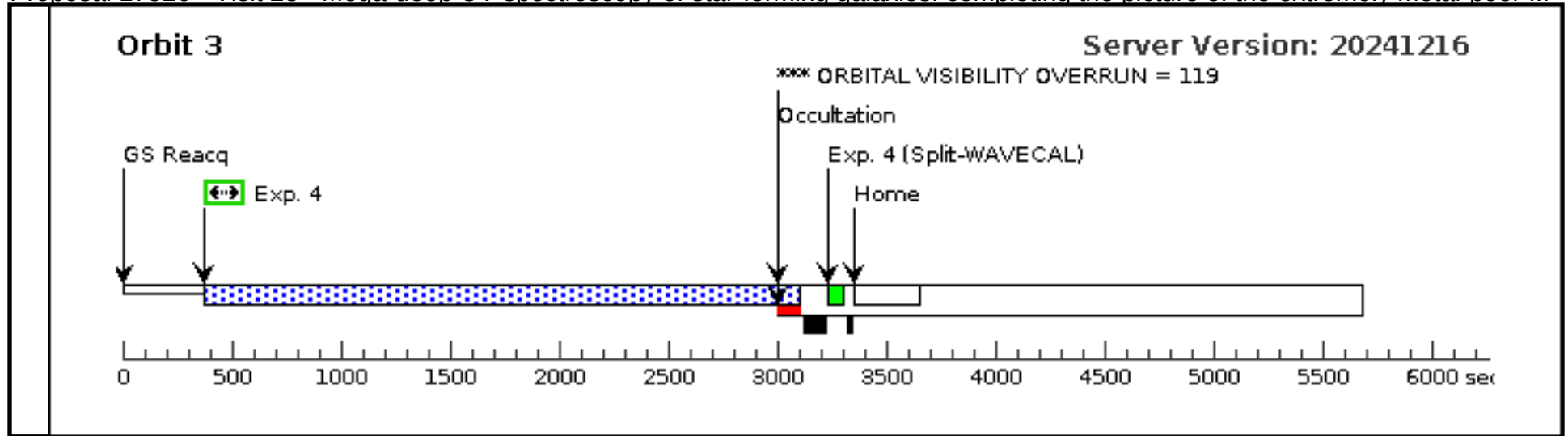




Proposal 17526 - Visit 23 - Mega-deep UV spectroscopy of star-forming galaxies: completing the picture of the extremely metal-poor ...

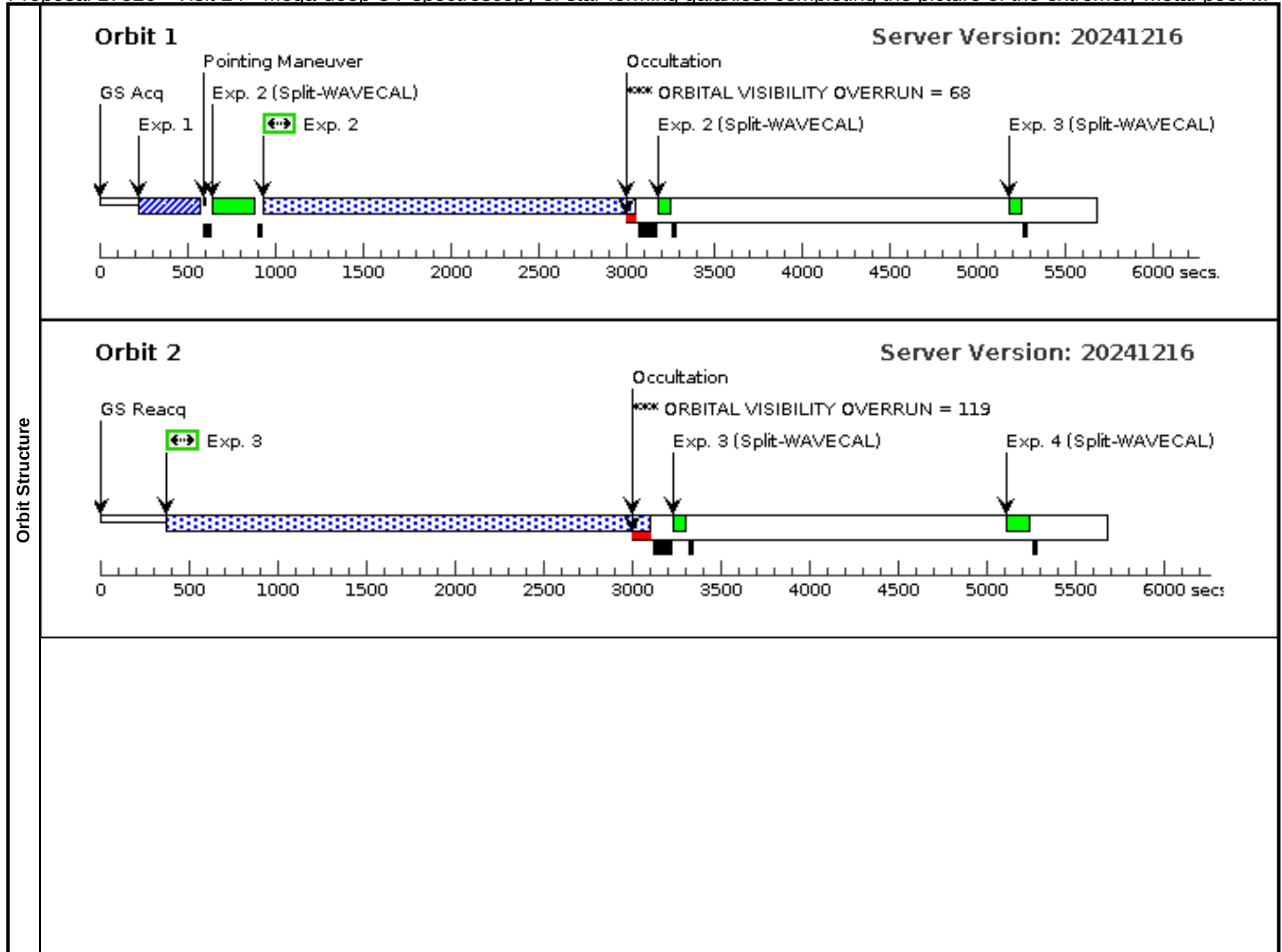
Visit	Proposal 17526, Visit 23, completed										Fri Mar 28 11:00:47 GMT 2025	
	Diagnostic Status: Warning											
	Scientific Instruments: COS/FUV, COS/NUV											
	Special Requirements: (none)											
Diagnostics	(Visit 23) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN											
	(Visit 23) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN											
	(Visit 23) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN											
Fixed Targets	#	Name	Target Coordinates			Targ. Coord. Corrections		Fluxes		Miscellaneous		
	(2)	J104457.80+035313.1	RA: 10 44 57.7900 (161.2407917d)					V=18.4		Reference Frame: ICRS		
			Dec: +03 53 13.14 (3.88698d)									
			Equinox: J2000									
	Comments: Category=GALAXY Description=[DWARF COMPACT, STAR FORMING REGION] 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.189 1408)	(2) J104457.80+035 313.1	COS/NUV, ACQ/IMAGE, PSA		MIRRORA				69 Secs (69 Secs)		
										[==>]		[1]
	2	(COS.sp.189 1410)	(2) J104457.80+035 313.1	COS/FUV, TIME-TAG, PSA		G160M 1533 A	BUFFER-TIME=20 69; FP-POS=2			2069 Secs (2069 Secs)		
										[==>]		[1]
	3	(COS.sp.189 1410)	(2) J104457.80+035 313.1	COS/FUV, TIME-TAG, PSA		G160M 1533 A	BUFFER-TIME=26 84; FP-POS=3			2684 Secs (2684 Secs)		
										[==>]		[2]
	4	(COS.sp.189 1410)	(2) J104457.80+035 313.1	COS/FUV, TIME-TAG, PSA		G160M 1533 A	BUFFER-TIME=26 84; FP-POS=4			2684 Secs (2684 Secs)		
										[==>]		[3]

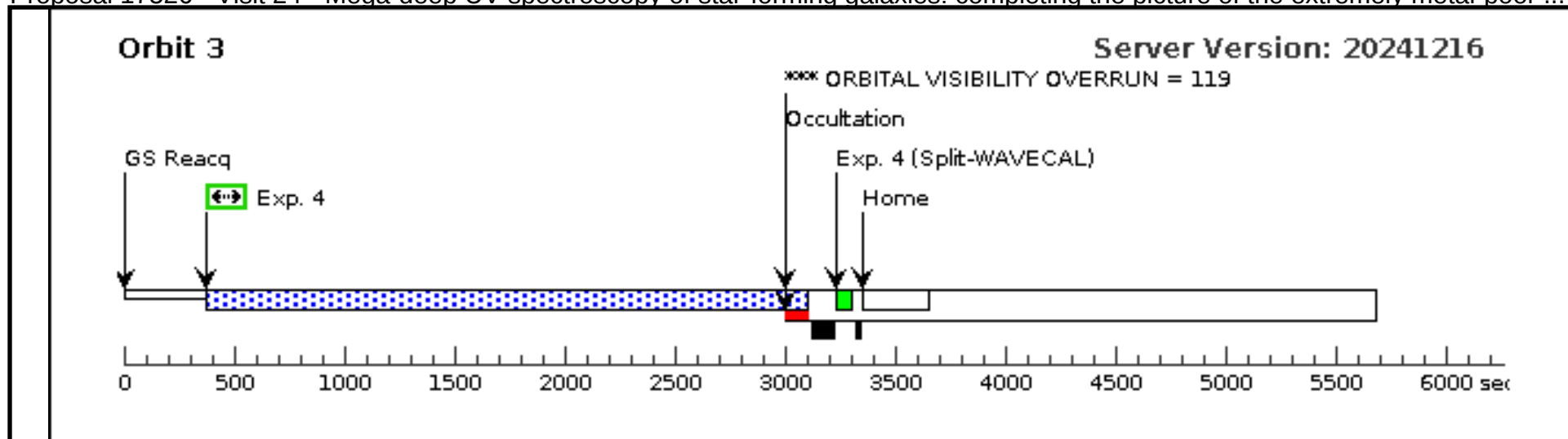




Proposal 17526 - Visit 24 - Mega-deep UV spectroscopy of star-forming galaxies: completing the picture of the extremely metal-poor ...

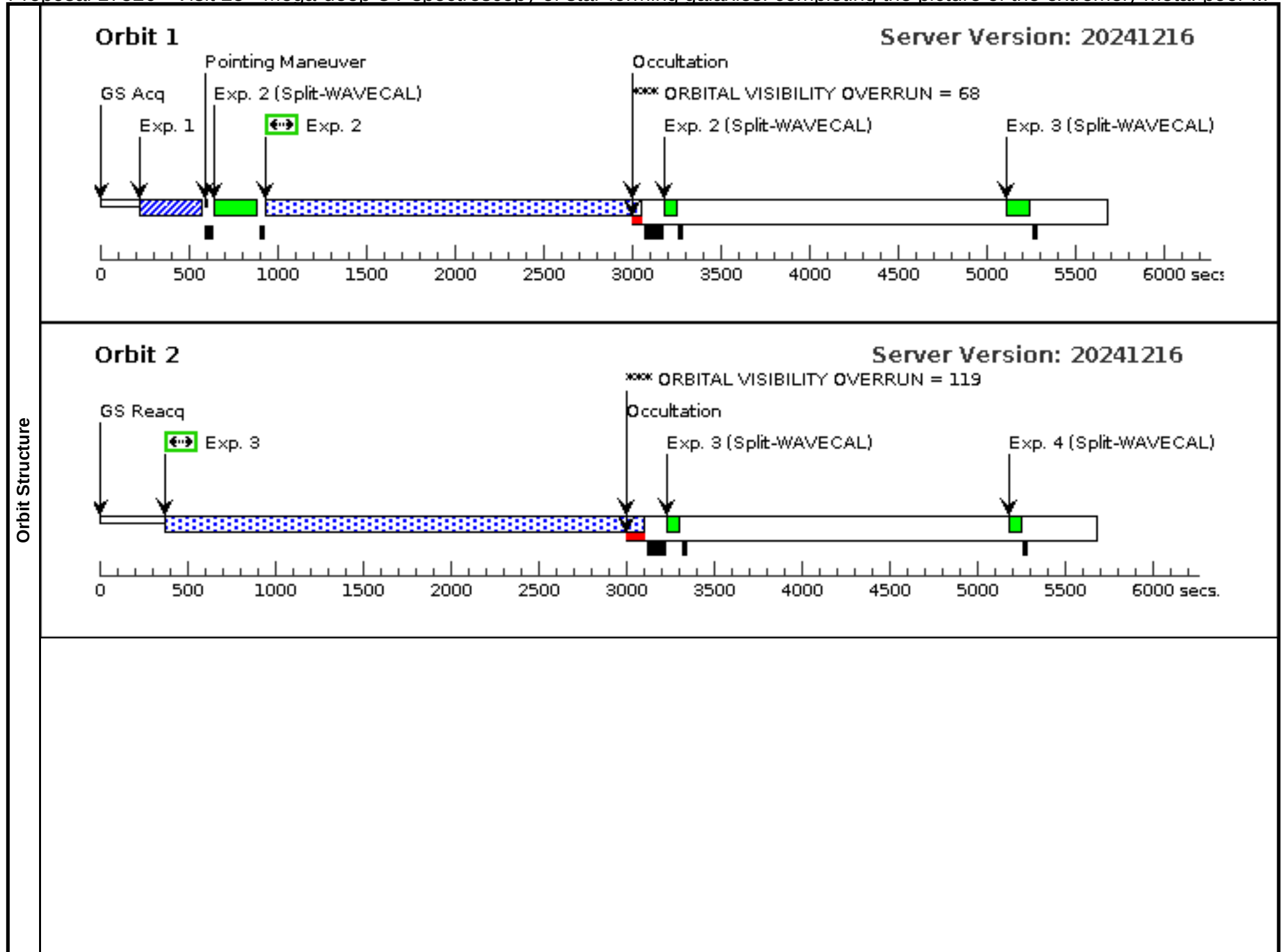
Visit	Proposal 17526, Visit 24, completed										Fri Mar 28 11:00:47 GMT 2025			
	Diagnostic Status: Warning													
	Scientific Instruments: COS/FUV, COS/NUV													
	Special Requirements: (none)													
Diagnostics	(Visit 24) Warning (Orbit Planner): INEFFICIENT ORDERING OF FP-POS POSITIONS													
	(Visit 24) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN													
	(Visit 24) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN													
	(Visit 24) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN													
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections			Fluxes		Miscellaneous					
	(2)	J104457.80+035313.1	RA: 10 44 57.7900 (161.2407917d) Dec: +03 53 13.14 (3.88698d) Equinox: J2000				V=18.4		Reference Frame: ICRS					
	Comments: Category=GALAXY Description=[DWARF COMPACT, STAR FORMING REGION] 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.189 1408)	(2) J104457.80+035 313.1	COS/NUV, ACQ/IMAGE, PSA	MIRRORA				69 Secs (69 Secs)					
									[==>]		[1]			
	2	(COS.sp.189 1410)	(2) J104457.80+035 313.1	COS/FUV, TIME-TAG, PSA	G160M 1533 A	BUFFER-TIME=20 69; FP-POS=3			2069 Secs (2069 Secs)					
									[==>]		[1]			
	3	(COS.sp.189 1410)	(2) J104457.80+035 313.1	COS/FUV, TIME-TAG, PSA	G160M 1533 A	BUFFER-TIME=26 84; FP-POS=4			2684 Secs (2684 Secs)					
									[==>]		[2]			
	4	(COS.sp.189 1410)	(2) J104457.80+035 313.1	COS/FUV, TIME-TAG, PSA	G160M 1533 A	BUFFER-TIME=26 84; FP-POS=1			2684 Secs (2684 Secs)					
									[==>]		[3]			

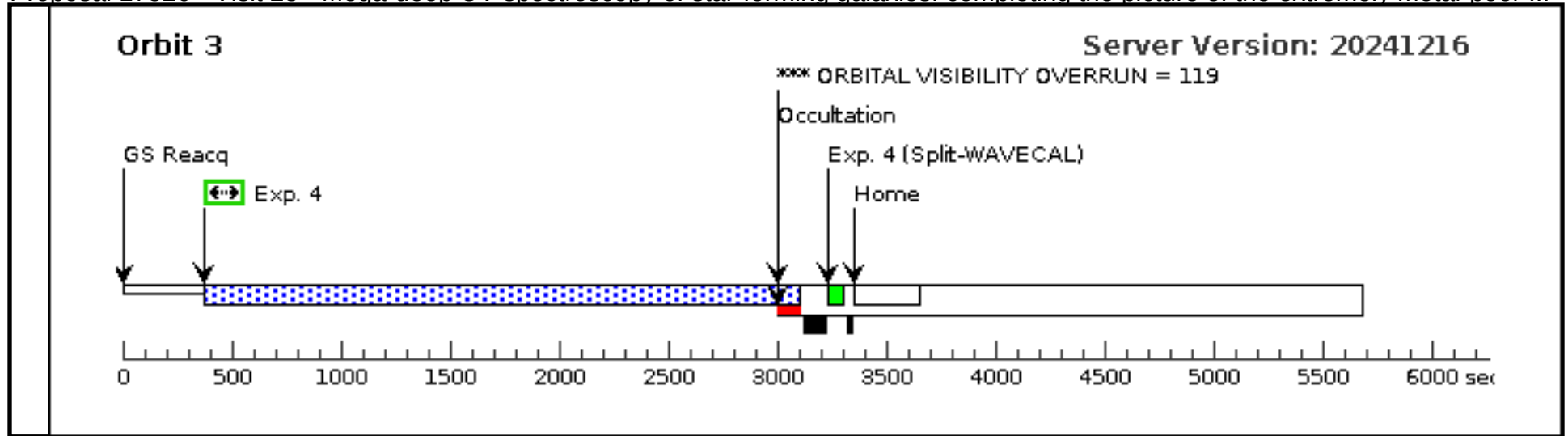




Proposal 17526 - Visit 25 - Mega-deep UV spectroscopy of star-forming galaxies: completing the picture of the extremely metal-poor ...

Visit	Proposal 17526, Visit 25, failed										Fri Mar 28 11:00:47 GMT 2025	
	Diagnostic Status: Warning											
	Scientific Instruments: COS/FUV, COS/NUV											
	Special Requirements: (none)											
Diagnostics	(Visit 25) Warning (Orbit Planner): INEFFICIENT ORDERING OF FP-POS POSITIONS											
	(Visit 25) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN											
	(Visit 25) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN											
	(Visit 25) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN											
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections			Fluxes		Miscellaneous			
	(2)	J104457.80+035313.1	RA: 10 44 57.7900 (161.2407917d) Dec: +03 53 13.14 (3.88698d) Equinox: J2000				V=18.4		Reference Frame: ICRS			
	Comments: Category=GALAXY Description=[DWARF COMPACT, STAR FORMING REGION] 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.189 1408)	(2) J104457.80+035 313.1	COS/NUV, ACQ/IMAGE, PSA	MIRRORA				69 Secs (69 Secs)			
									[==>]		[1]	
	2	(COS.sp.189 1410)	(2) J104457.80+035 313.1	COS/FUV, TIME-TAG, PSA	G160M 1533 A	BUFFER-TIME=20 69; FP-POS=4			2069 Secs (2069 Secs)			
									[==>]		[1]	
	3	(COS.sp.189 1410)	(2) J104457.80+035 313.1	COS/FUV, TIME-TAG, PSA	G160M 1533 A	BUFFER-TIME=26 84; FP-POS=1			2684 Secs (2684 Secs)			
									[==>]		[2]	
	4	(COS.sp.189 1410)	(2) J104457.80+035 313.1	COS/FUV, TIME-TAG, PSA	G160M 1533 A	BUFFER-TIME=26 84; FP-POS=2			2684 Secs (2684 Secs)			
									[==>]		[3]	





Proposal 17526 - Visit 26 - Mega-deep UV spectroscopy of star-forming galaxies: completing the picture of the extremely metal-poor ...

Visit	Proposal 17526, Visit 26, completed					Fri Mar 28 11:00:47 GMT 2025				
	Diagnostic Status: Warning									
	Scientific Instruments: COS/FUV, COS/NUV									
	Special Requirements: (none)									
Diagnostics	(Visit 26) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN									
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(2)	J104457.80+035313.1	RA: 10 44 57.7900 (161.2407917d) Dec: +03 53 13.14 (3.88698d) Equinox: J2000		V=18.4	Reference Frame: ICRS				
	Comments: Category=GALAXY Description=[DWARF COMPACT, STAR FORMING REGION] 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.189 1408)	(2) J104457.80+035 313.1	COS/NUV, ACQ/IMAGE, PSA	MIRRORA				69 Secs (69 Secs) [==>]	[1]
	2	(COS.sp.189 1410)	(2) J104457.80+035 313.1	COS/FUV, TIME-TAG, PSA	G160M 1533 A	BUFFER-TIME=20 69; FP-POS=3			2069 Secs (2069 Secs) [==>]	[1]
Orbit Structure	Orbit 1 Server Version: 20241216 XXXXXXXX ORBITAL VISIBILITY OVERRUN = 68 GS Acq Exp. 1 Pointing Maneuver Exp. 2 (Split-WAVECAL) Exp. 2 Occultation Exp. 2 (Split-WAVECAL) Home 0 500 1000 1500 2000 2500 3000 3500 4000 4500 5000 5500 6000 sec									