



# 18044 - UV spectroscopy of extremely metal-poor dwarf compact star-forming galaxies with exceptionally strong HeII 4686 emission

Cycle: 33, Proposal Category: GO

(UV Initiative)

(Availability Mode: SUPPORTED)

## INVESTIGATORS

<i>Name</i>	<i>Institution</i>
<b>Dr. Yuri I. Izotov (PI) (Contact)</b>	<b>National Academy of Sciences of Ukraine, BITP</b>
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Dr. Gabor Worseck (CoI)	Unaffiliated
Prof. Trinh Xuan Thuan (CoI) (AdminUSPI)	The University of Virginia

## 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) J0004+2549	COS/FUV COS/NUV	3	04-Aug-2025 09:01:13.0	yes
02	(1) J0004+2549	STIS/CCD STIS/NUV-MAMA	3	04-Aug-2025 09:01:14.0	yes
03	(2) J0833+4926	COS/FUV COS/NUV	2	04-Aug-2025 09:01:14.0	yes
04	(2) J0833+4926	STIS/CCD STIS/NUV-MAMA	2	04-Aug-2025 09:01:15.0	yes

<i>Visit</i>	<i>Targets used in Visit</i>	<i>Configurations used in Visit</i>	<i>Orbits Used</i>	<i>Last Orbit Planner Run</i>	<i>OP Current with Visit?</i>
05	(3) J1046+4047	COS/FUV COS/NUV	3	04-Aug-2025 09:01:16.0	yes
06	(3) J1046+4047	STIS/CCD STIS/NUV-MAMA	3	04-Aug-2025 09:01:17.0	yes
07	(4) J1417+5753	COS/FUV COS/NUV	3	04-Aug-2025 09:01:17.0	yes
08	(4) J1417+5753	STIS/CCD STIS/NUV-MAMA	3	04-Aug-2025 09:01:18.0	yes
09	(5) J1444+4840	COS/FUV COS/NUV	3	04-Aug-2025 09:01:19.0	yes
10	(5) J1444+4840	STIS/CCD STIS/NUV-MAMA	3	04-Aug-2025 09:01:20.0	yes
11	(6) J1613+3622	COS/FUV COS/NUV	3	04-Aug-2025 09:01:21.0	yes
12	(6) J1613+3622	STIS/CCD STIS/NUV-MAMA	3	04-Aug-2025 09:01:22.0	yes

34 Total Orbits Used

## **ABSTRACT**

We propose to obtain for the first time the full UV spectra of 6 extremely metal-poor compact star-forming galaxies with the hardest ionizing spectra found at low-redshift. The emission line spectra, covering the range from Lyman-alpha to ~2900 Ang, will allow us to constrain the ionizing radiation field of these galaxies in the Lyman continuum and up to high energies (54 eV and higher) and thus to test different scenarios proposed to explain the hard spectra of these galaxies. The data will also allow abundance studies of Carbon and other elements. Finally, it will provide an important reference sample to study extremely metal-poor galaxies (with 2-10 % solar metallicity) with very hard radiation and also to better understand other objects (e.g. sources hosting intermediate-mass black holes, high-z AGN or other unusual objects). In short, the observations will provide fundamental and unique information on the radiation field, nature of the ionizing sources, and ISM properties of these extreme galaxies. And the observations will have an important impact for our understanding of the most metal-poor and first galaxies in the early Universe.

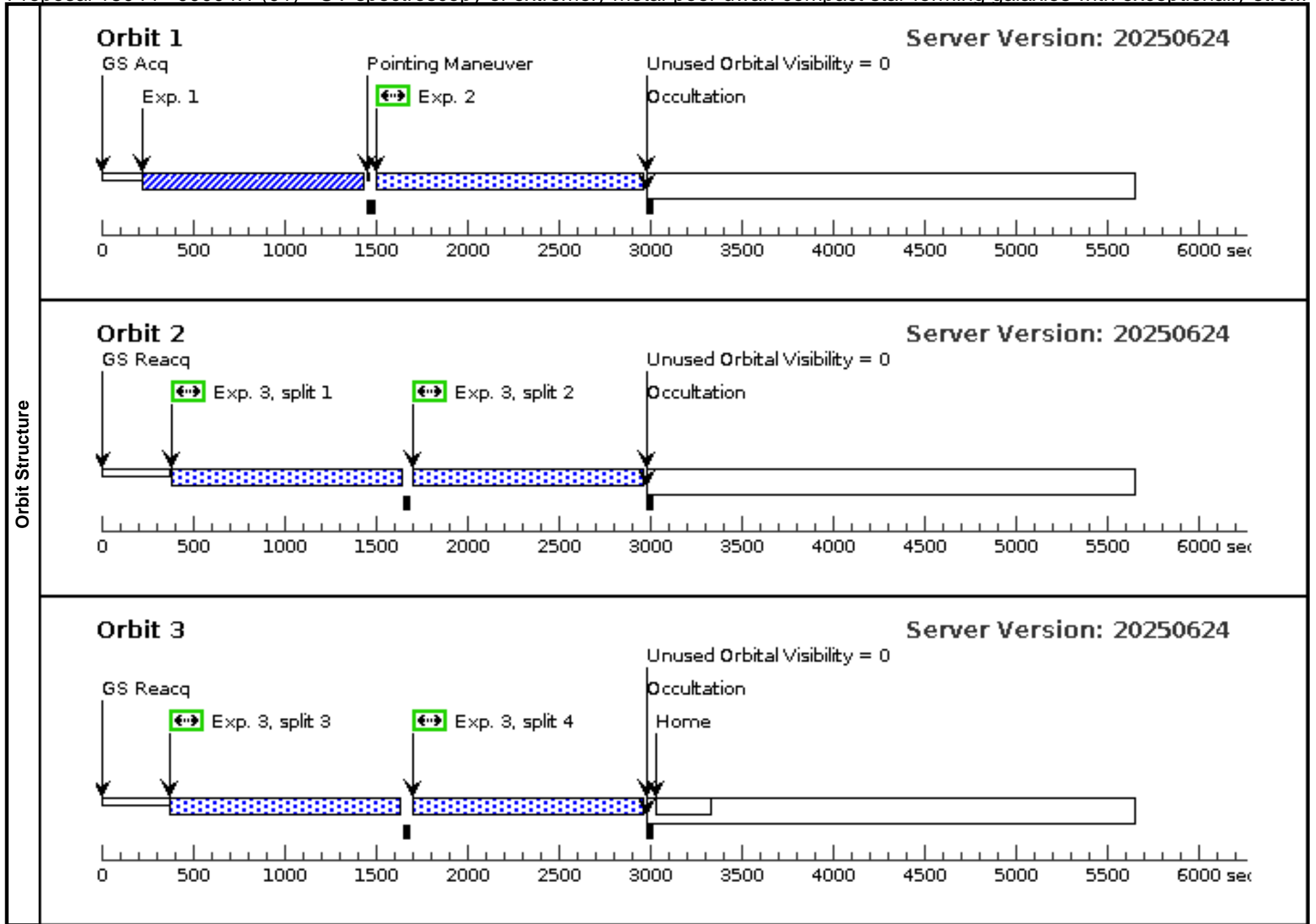
## **OBSERVING DESCRIPTION**

COS/NUV acquisition images of the targets will be obtained with the standard Mirror A and the ACQ/IMAGE mode to reach a  $S/N > 20$  inside a  $9 \times 9$  pixel box centered on the brightest part of the galaxy. This requires on average  $120s + 2 \times 300s = 720s$  per object. As a bonus, the UV morphology of the selected objects will be studied with these images. Given the redshift of the targets, the complete spectral coverage requires separate COS and STIS observations for each galaxy. The COS/G140L configuration is used to detect emission lines shortward of the C III] 1906, 1908 emission line including Ly-alpha 1216, NV 1240, CIV 1549, NIV] 1486, HeII 1640, OIII] 1661, 1666 lines. Since the C III] 1906, 1908 line falls into the insensitive part of the COS, the STIS/G230L configuration is used to detect this line. As a by-product we expect also to observe MgII 2796, 2803 emission line. GALEX FUV magnitude have been used to calculate the required exposures, to reach  $S/N > 5$  for the continuum near the Ly-alpha line, in the case of a 100-pixel binned spectrum, and  $S/N = 3 - 5$  per STIS G230L pixel in the central  $\sim 500\text{\AA}$  of the spectrum, where the  $S/N$  is flat. This  $S/N$  will suffice to detect emission lines with equivalent widths above  $1-1.5\text{\AA}$  with sufficient accuracy. To reach this, 1.5-2.5 orbits are needed for the G140L grism, totalling 2-3 orbits per object with acquisition, and 2-3 orbits for STIS depending on source brightness, and including acquisition. A total of  $17+17=34$  orbits for COS+STIS is therefore requested.

Proposal 18044 - J0004.1 (01) - UV spectroscopy of extremely metal-poor dwarf compact star-forming galaxies with exceptionally stro...

Mon Aug 04 13:01:22 GMT 2025

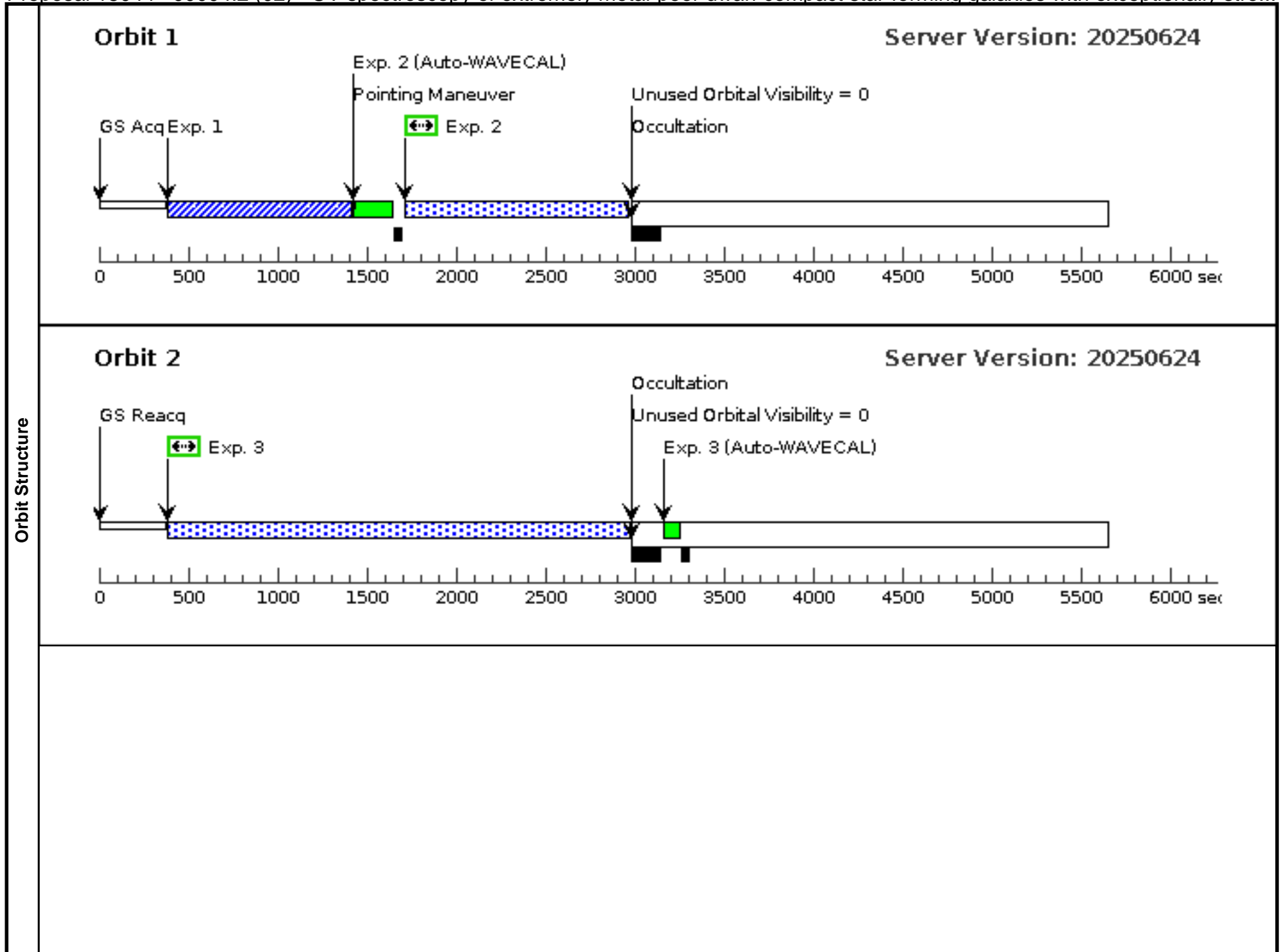
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Fixed Targets	(1)	J0004+2549	RA: 00 04 0.0600 (1.0002500d) Dec: +25 49 52.60 (25.83128d) Equinox: J2000	Proper Motion RA: 0.0 Proper Motion Dec: 0.0 Epoch of Position: 2000.0 Redshift: 0.0589	V=20.90+/-0.02 FUV=22.10, NUV=21.95	Reference Frame: ICRS				
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	2	(COS.sp.202 1366)	(1) J0004+2549	COS/FUV, TIME-TAG, PSA	G140L 1105 A	BUFFER-TIME=95 00; FLASH=YES; FP-POS=1; SEGMENT=A			1500 Secs (1277 Secs) [==>1277.0 Secs ]	[1]
	3	(COS.sp.202 1366)	(1) J0004+2549	COS/FUV, TIME-TAG, PSA	G140L 1105 A	BUFFER-TIME=95 00.;			1500 Secs (4848 Secs) [==>1212.0 Secs (Split 1)] [==>1212.0 Secs (Split 2)] [==>1212.0 Secs (Split 3)] [==>1212.0 Secs (Split 4)]	[2] [3]
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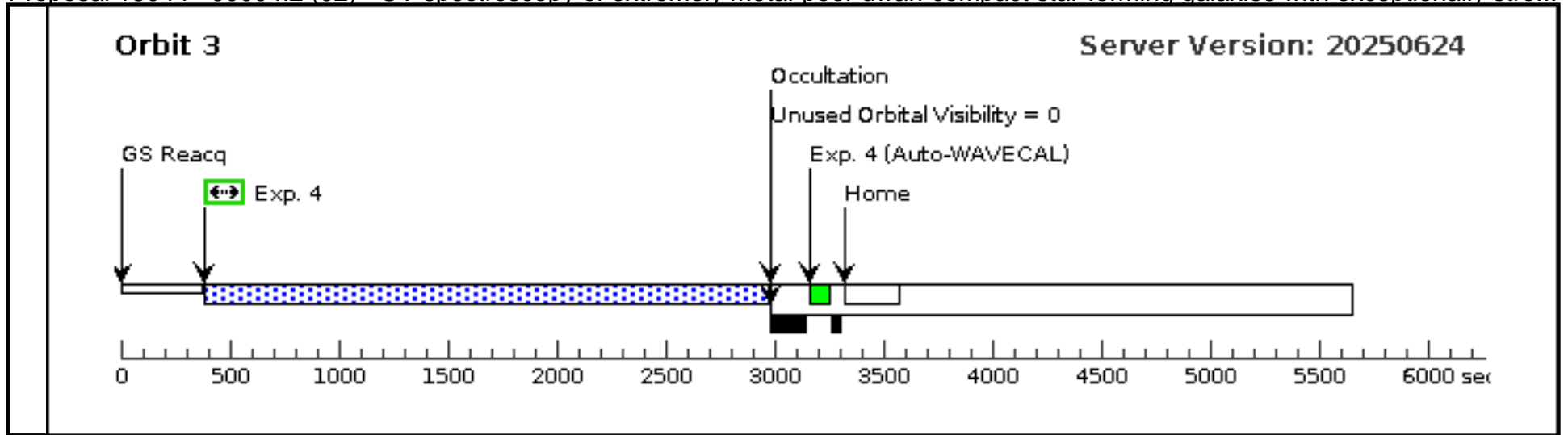


Proposal 18044 - J0004.2 (02) - UV spectroscopy of extremely metal-poor dwarf compact star-forming galaxies with exceptionally stro...

Mon Aug 04 13:01:22 GMT 2025

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Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(STIS.ta.202 1375)	(1) J0004+2549	STIS/CCD, ACQ, F28X50LP	MIRROR				200 Secs (200 Secs)	
									[==>]	[1]
	2	(STIS.sp.20 21382)	(1) J0004+2549	STIS/NUV-MAMA, TIME-TAG, 52X0.5	G230L 2376 A	BUFFER-TIME=13 00.			1500 Secs (1218 Secs)	
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3	(STIS.sp.20 21382)	(1) J0004+2549	STIS/NUV-MAMA, TIME-TAG, 52X0.5	G230L 2376 A	BUFFER-TIME=13 00.			2400 Secs (2575 Secs)		
								[==>2575.0 Secs ]	[2]	
4	(STIS.sp.20 21382)	(1) J0004+2549	STIS/NUV-MAMA, TIME-TAG, 52X0.5	G230L 2376 A	BUFFER-TIME=13 00.			2400 Secs (2552 Secs)		
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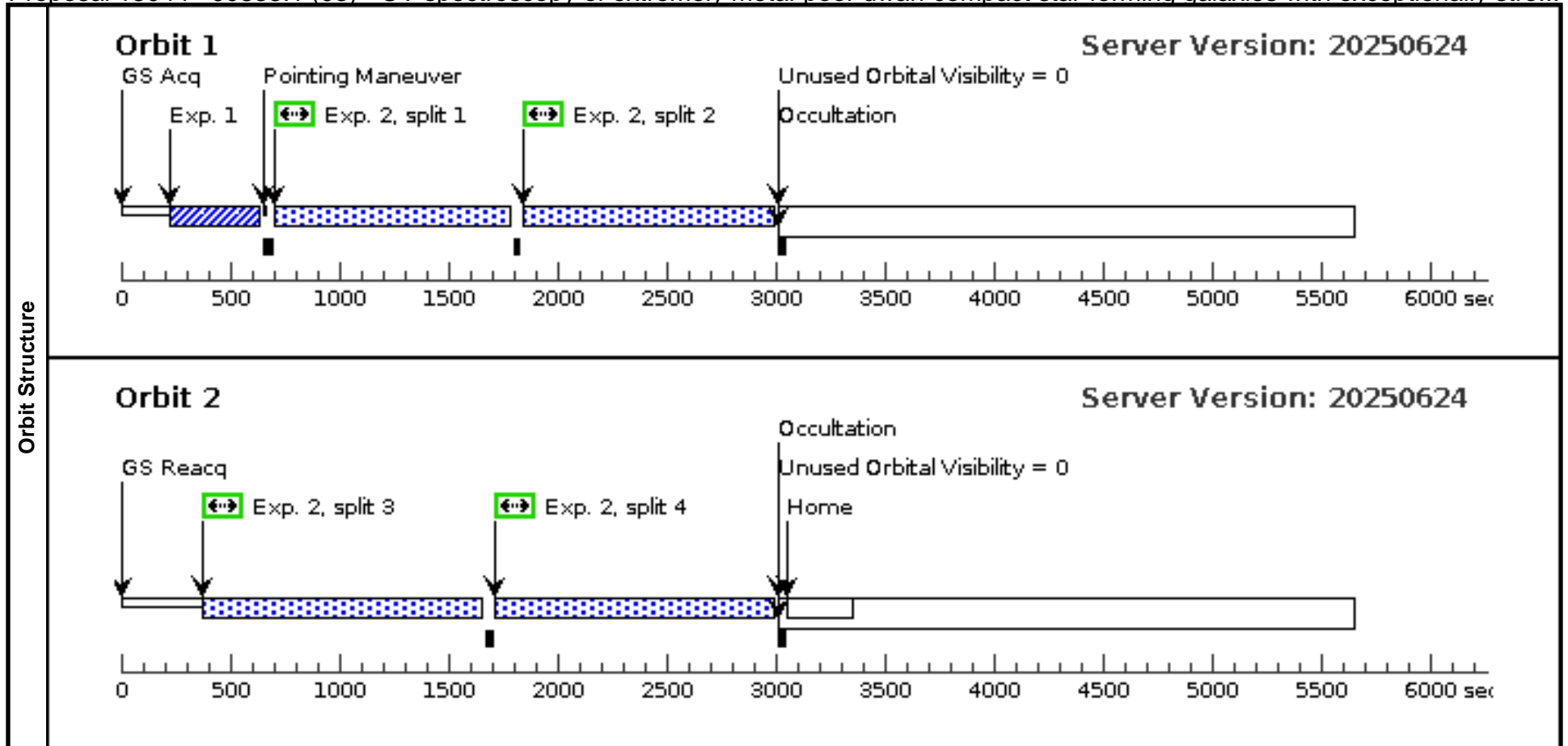




Proposal 18044 - J0833.1 (03) - UV spectroscopy of extremely metal-poor dwarf compact star-forming galaxies with exceptionally stro...

Mon Aug 04 13:01:22 GMT 2025

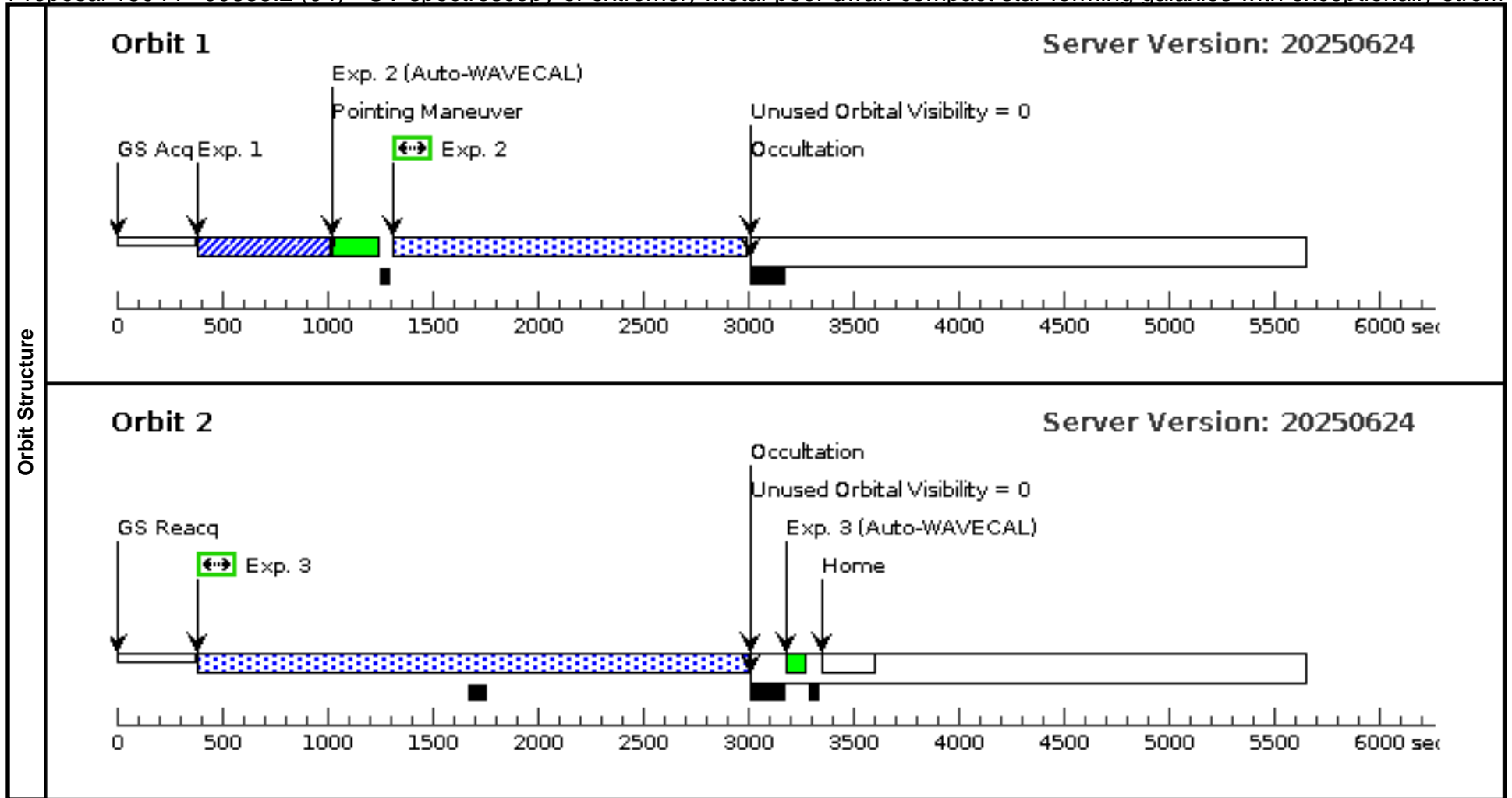
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	(2)	J0833+4926	RA: 08 33 2.0200 (128.2584167d) Dec: +49 26 18.16 (49.43838d) Equinox: J2000	Proper Motion RA: 0.0 Proper Motion Dec: 0.0 Epoch of Position: 2000.0 Redshift: 0.0481	V=20.75+/-0.02 FUV=19.27, NUV=19.16	Reference Frame: ICRS					
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	1	(COS.ta.202 1357)	(2) J0833+4926	COS/NUV, ACQ/IMAGE, PSA	MIRRORA					100. Secs (100 Secs)	
										[==>]	[1]
	2	(COS.sp.202 1368)	(2) J0833+4926	COS/FUV, TIME-TAG, PSA	G140L 1105 A	BUFFER-TIME=88 00.; FLASH=YES; FP-POS=ALL; SEGMENT=A				1200. Secs (4452 Secs)	
										[==>900.0 Secs (Split 1)]	
										[==>1100.0 Secs (Split 2)]	[1]
										[==>1226.0 Secs (Split 3)]	
										[==>1226.0 Secs (Split 4)]	[2]



Proposal 18044 - J0833.2 (04) - UV spectroscopy of extremely metal-poor dwarf compact star-forming galaxies with exceptionally stro...

Mon Aug 04 13:01:22 GMT 2025

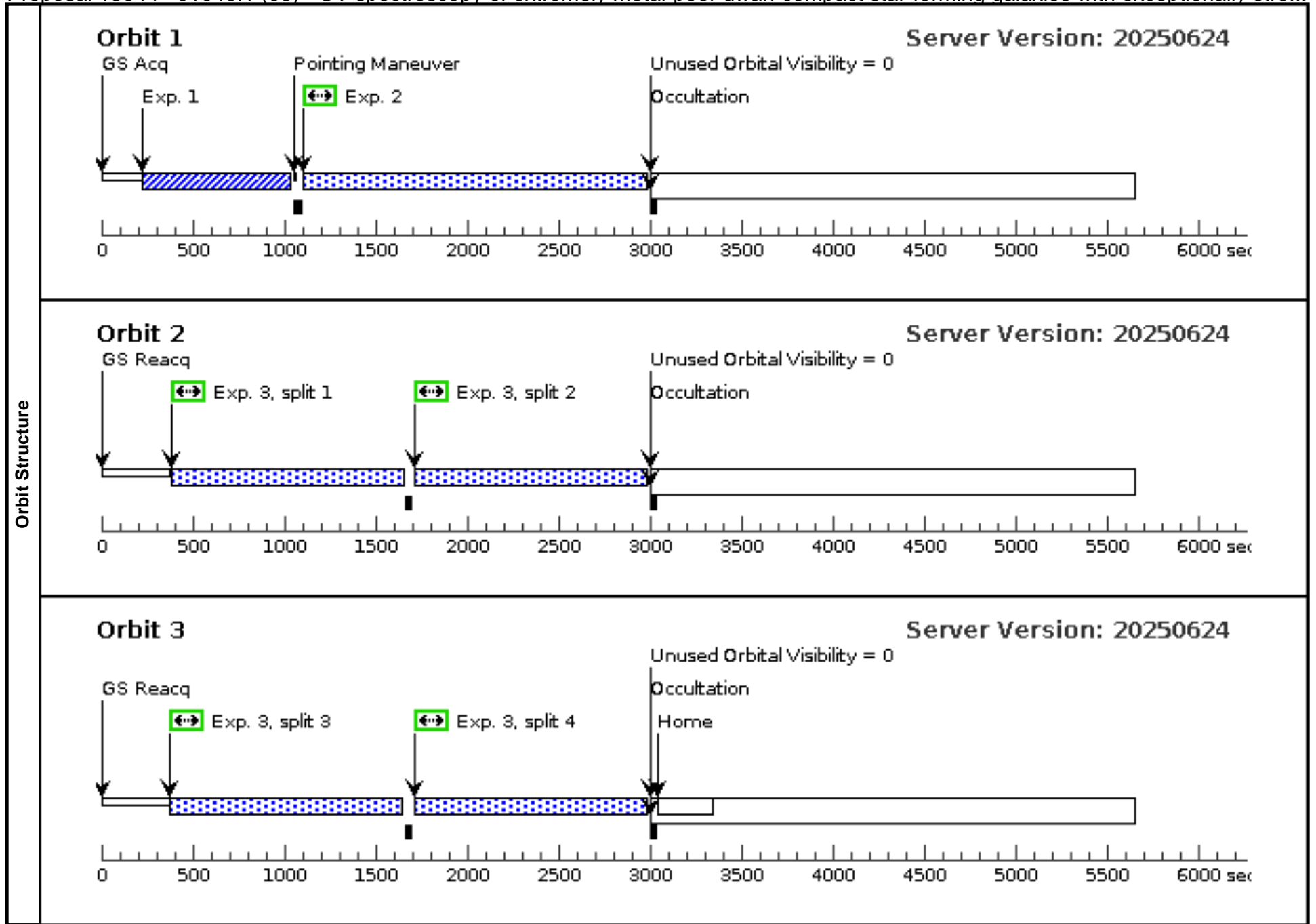
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		(2)	J0833+4926	RA: 08 33 2.0200 (128.2584167d) Dec: +49 26 18.16 (49.43838d) Equinox: J2000	Proper Motion RA: 0.0 Proper Motion Dec: 0.0 Epoch of Position: 2000.0 Redshift: 0.0481	V=20.75+/-0.02 FUV=19.27, NUV=19.16	Reference Frame: ICRS			
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Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(STIS.ta.202 1376)	(2) J0833+4926	STIS/CCD, ACQ, F28X50LP	MIRROR				100. Secs (100 Secs)	
									[==>]	[1]
	2	(STIS.sp.20 21384)	(2) J0833+4926	STIS/NUV-MAMA, TIME-TAG, 52X0.5	G230L 2376 A	BUFFER-TIME=13 00.			1400. Secs (1646 Secs)	
								[==>1646.0 Secs ]	[1]	
3	(STIS.sp.20 21384)	(2) J0833+4926	STIS/NUV-MAMA, TIME-TAG, 52X0.5	G230L 2376 A	BUFFER-TIME=13 00.			2400. Secs (2603 Secs)		
								[==>2603.0 Secs ]	[2]	



Proposal 18044 - J1046.1 (05) - UV spectroscopy of extremely metal-poor dwarf compact star-forming galaxies with exceptionally stro...

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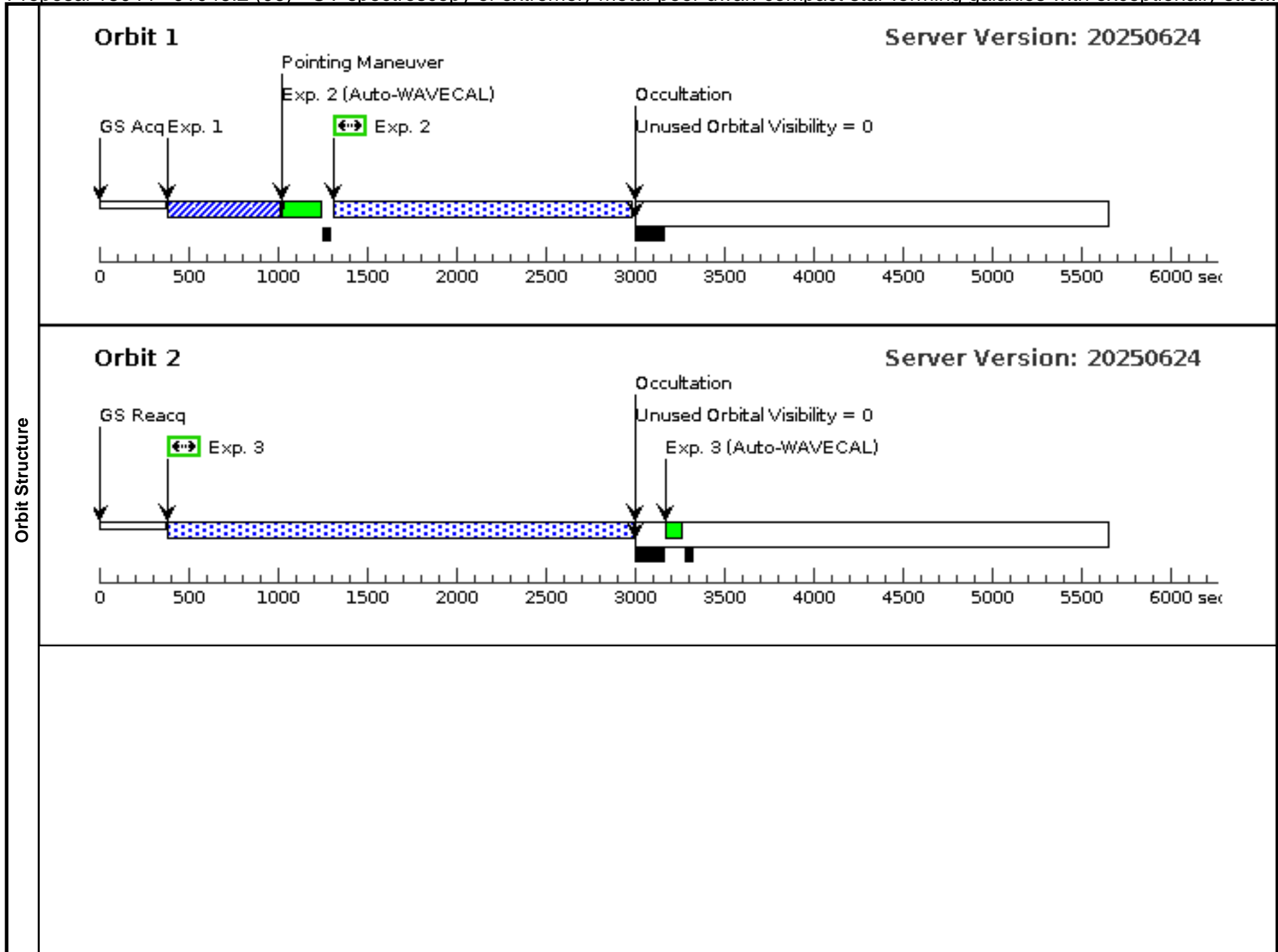
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	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
Fixed Targets	(3)	J1046+4047	RA: 10 46 9.2300 (161.5384583d) Dec: +40 47 7.07 (40.78530d) Equinox: J2000	Proper Motion RA: 0.0 Proper Motion Dec: 0.0 Epoch of Position: 2000.0 Redshift: 0.0487	V=20.18+/-0.02 FUV=20.27+/-0.24, NUV=21.19+/-0.28	Reference Frame: ICRS				
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Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
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									[==>1221.0 Secs (Split 2)] [==>1221.0 Secs (Split 3)] [==>1221.0 Secs (Split 4)]	[3]

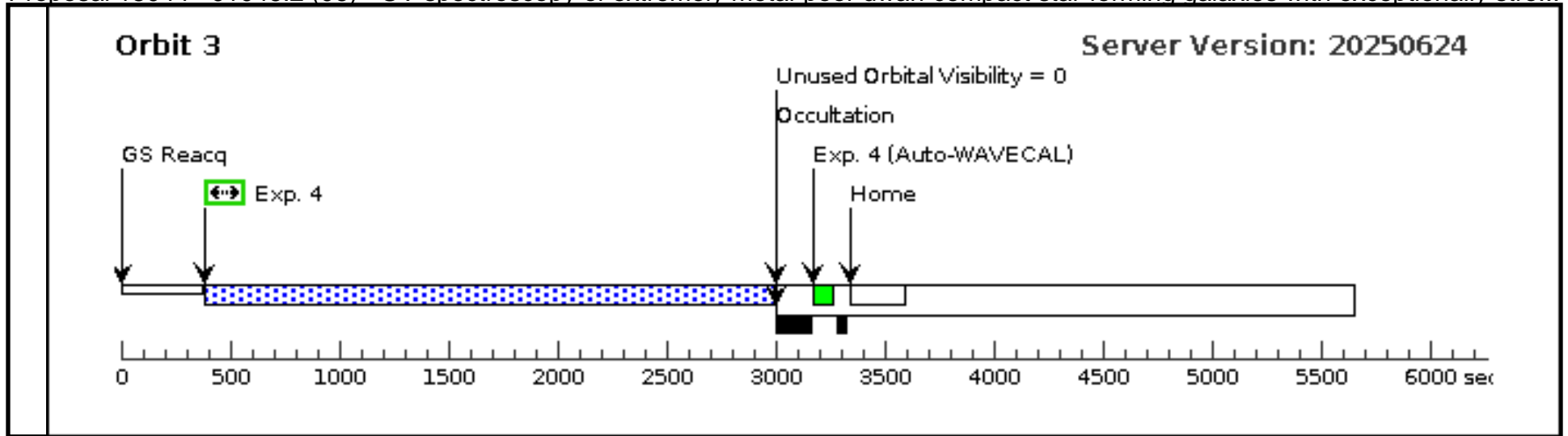


Proposal 18044 - J1046.2 (06) - UV spectroscopy of extremely metal-poor dwarf compact star-forming galaxies with exceptionally stro...

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Visit	<b>Proposal 18044, J1046.2 (06)</b> <b>Diagnostic Status: No Diagnostics</b> Scientific Instruments: STIS/NUV-MAMA, STIS/CCD Special Requirements: (none)																																																																																										
	Fixed Targets	<table border="1"> <thead> <tr> <th>#</th> <th>Name</th> <th>Target Coordinates</th> <th>Targ. Coord. Corrections</th> <th>Fluxes</th> <th>Miscellaneous</th> </tr> </thead> <tbody> <tr> <td>(3)</td> <td>J1046+4047</td> <td>                     RA: 10 46 9.2300 (161.5384583d)                      Dec: +40 47 7.07 (40.78530d)                      Equinox: J2000                 </td> <td>                     Proper Motion RA: 0.0                      Proper Motion Dec: 0.0                      Epoch of Position: 2000.0                      Redshift: 0.0487                 </td> <td>                     V=20.18+/-0.02                      FUV=20.27+/-0.24,                      NUV=21.19+/-0.28                 </td> <td>Reference Frame: ICRS</td> </tr> <tr> <td colspan="6"> <i>Comments:</i>                      Category=GALAXY                      Description=[DWARF COMPACT, STARBURST]                      Extended=NO                 </td> </tr> </tbody> </table>	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous	(3)	J1046+4047	RA: 10 46 9.2300 (161.5384583d) Dec: +40 47 7.07 (40.78530d) Equinox: J2000	Proper Motion RA: 0.0 Proper Motion Dec: 0.0 Epoch of Position: 2000.0 Redshift: 0.0487	V=20.18+/-0.02 FUV=20.27+/-0.24, NUV=21.19+/-0.28	Reference Frame: ICRS	<i>Comments:</i> Category=GALAXY Description=[DWARF COMPACT, STARBURST] Extended=NO																																																																												
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Exposures	<table border="1"> <thead> <tr> <th>#</th> <th>Label (ETC Run)</th> <th>Target</th> <th>Config,Mode,Aperture</th> <th>Spectral Els.</th> <th>Opt. Params.</th> <th>Special Reqs.</th> <th>Groups</th> <th>Exp. Time (Total)/[Actual Dur.]</th> <th>Orbit</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>(STIS.ta.202 1377)</td> <td>(3) J1046+4047</td> <td>STIS/CCD, ACQ, F28X50LP</td> <td>MIRROR</td> <td></td> <td></td> <td></td> <td>100. Secs (100 Secs)</td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>[==&gt;]</td> <td>[1]</td> </tr> <tr> <td>2</td> <td>(STIS.sp.20 21385)</td> <td>(3) J1046+4047</td> <td>STIS/NUV-MAMA, TIME-TAG, 52X0.5</td> <td>G230L 2376 A</td> <td>BUFFER-TIME=13 00.</td> <td></td> <td></td> <td>1200. Secs (1636 Secs)</td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>[==&gt;1636.0 Secs ]</td> <td>[1]</td> </tr> <tr> <td>3</td> <td>(STIS.sp.20 21385)</td> <td>(3) J1046+4047</td> <td>STIS/NUV-MAMA, TIME-TAG, 52X0.5</td> <td>G230L 2376 A</td> <td>BUFFER-TIME=13 00.</td> <td></td> <td></td> <td>2400. Secs (2593 Secs)</td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>[==&gt;2593.0 Secs ]</td> <td>[2]</td> </tr> <tr> <td>4</td> <td>(STIS.sp.20 21385)</td> <td>(3) J1046+4047</td> <td>STIS/NUV-MAMA, TIME-TAG, 52X0.5</td> <td>G230L 2376 A</td> <td>BUFFER-TIME=13 00.</td> <td></td> <td></td> <td>2400. Secs (2570 Secs)</td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>[==&gt;2570.0 Secs ]</td> <td>[3]</td> </tr> </tbody> </table>	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit	1	(STIS.ta.202 1377)	(3) J1046+4047	STIS/CCD, ACQ, F28X50LP	MIRROR				100. Secs (100 Secs)										[==>]	[1]	2	(STIS.sp.20 21385)	(3) J1046+4047	STIS/NUV-MAMA, TIME-TAG, 52X0.5	G230L 2376 A	BUFFER-TIME=13 00.			1200. Secs (1636 Secs)										[==>1636.0 Secs ]	[1]	3	(STIS.sp.20 21385)	(3) J1046+4047	STIS/NUV-MAMA, TIME-TAG, 52X0.5	G230L 2376 A	BUFFER-TIME=13 00.			2400. Secs (2593 Secs)										[==>2593.0 Secs ]	[2]	4	(STIS.sp.20 21385)	(3) J1046+4047	STIS/NUV-MAMA, TIME-TAG, 52X0.5	G230L 2376 A	BUFFER-TIME=13 00.			2400. Secs (2570 Secs)										[==>2570.0 Secs ]	[3]
#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit																																																																																		
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3	(STIS.sp.20 21385)	(3) J1046+4047	STIS/NUV-MAMA, TIME-TAG, 52X0.5	G230L 2376 A	BUFFER-TIME=13 00.			2400. Secs (2593 Secs)																																																																																			
								[==>2593.0 Secs ]	[2]																																																																																		
4	(STIS.sp.20 21385)	(3) J1046+4047	STIS/NUV-MAMA, TIME-TAG, 52X0.5	G230L 2376 A	BUFFER-TIME=13 00.			2400. Secs (2570 Secs)																																																																																			
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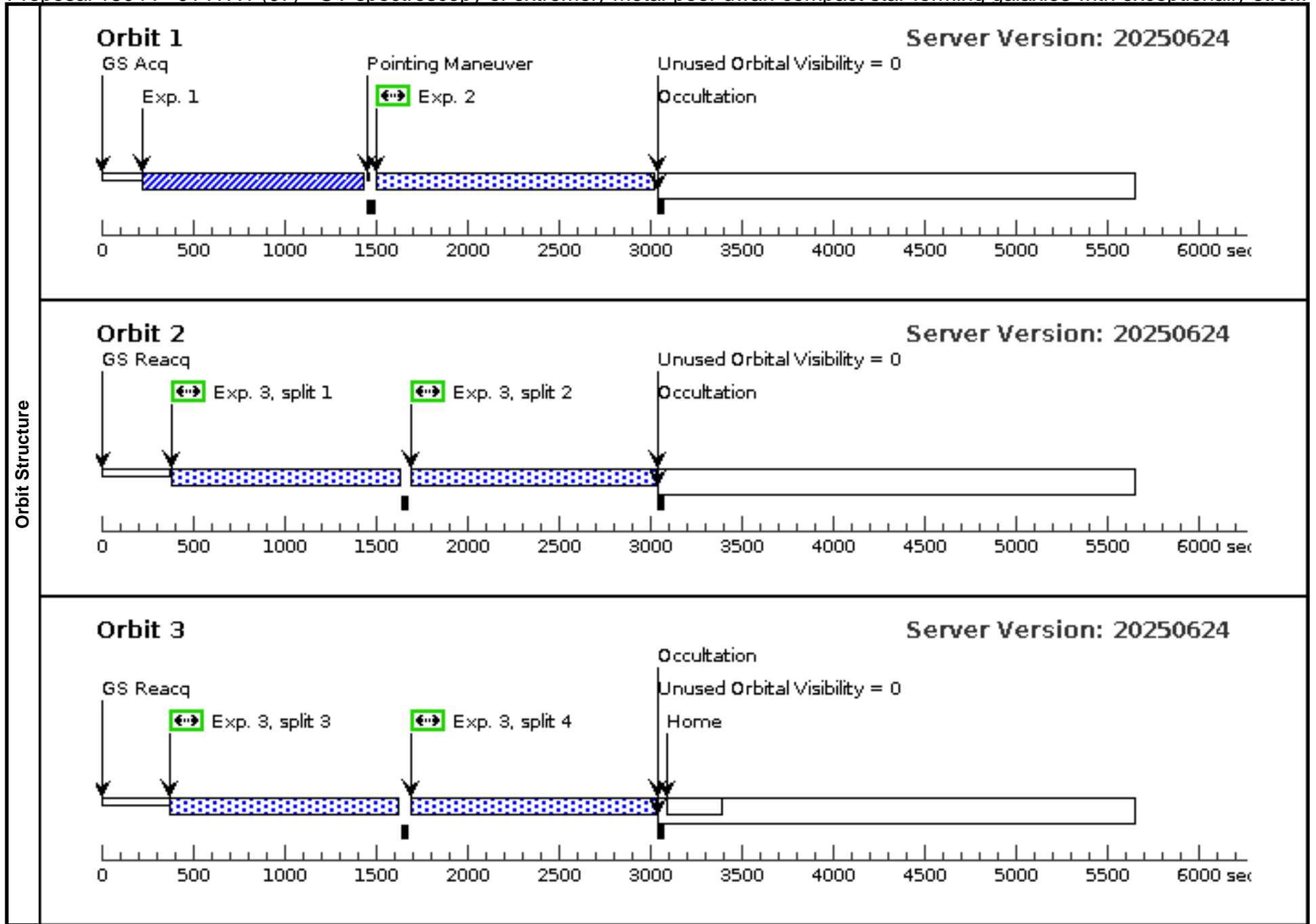




Proposal 18044 - J1417.1 (07) - UV spectroscopy of extremely metal-poor dwarf compact star-forming galaxies with exceptionally stro...

Mon Aug 04 13:01:22 GMT 2025

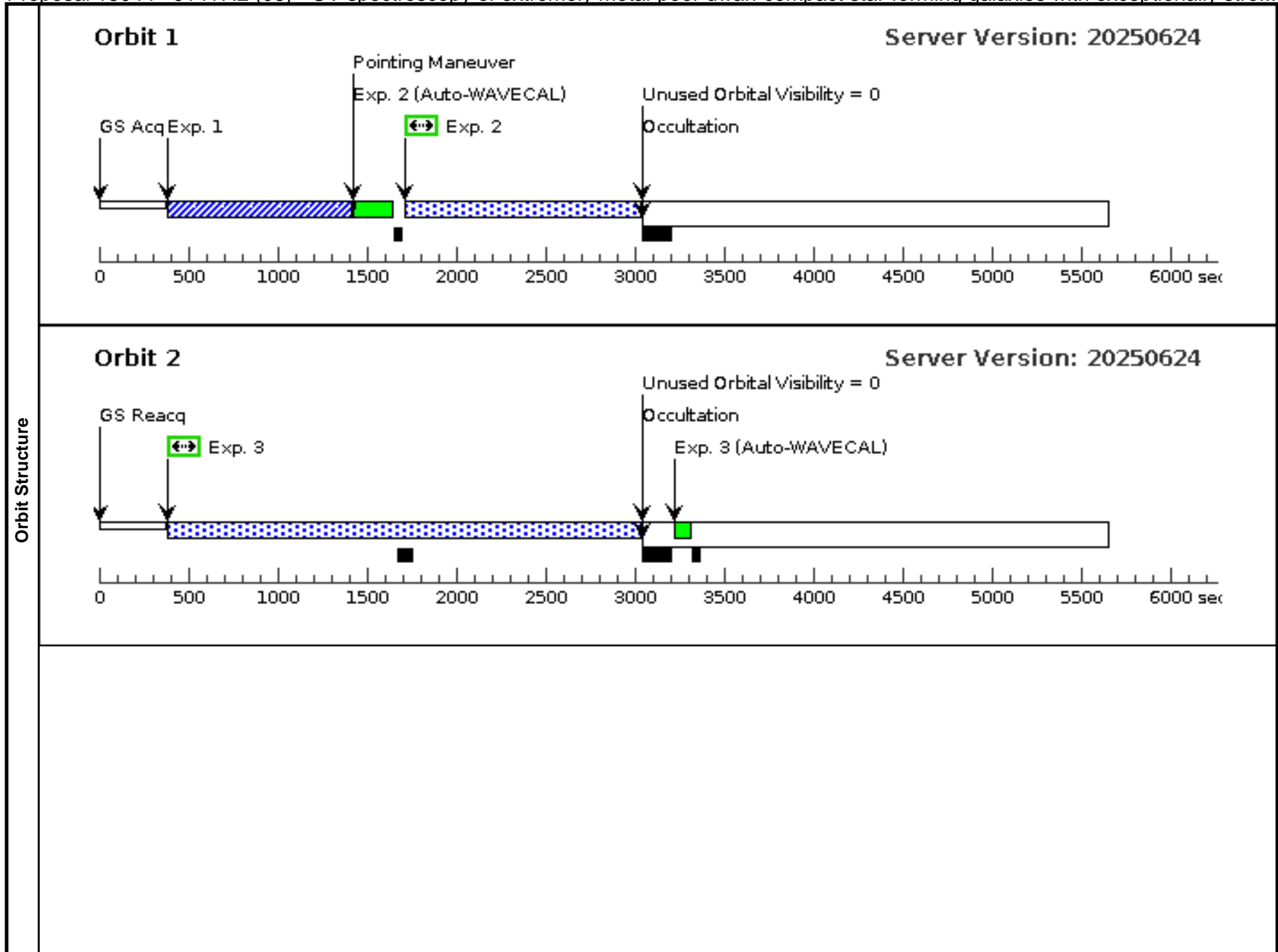
Visit	<b>Proposal 18044, J1417.1 (07)</b> <b>Diagnostic Status: No Diagnostics</b> Scientific Instruments: COS/FUV, COS/NUV Special Requirements: (none)									
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous			
		(4)	J1417+5753	RA: 14 17 40.2300 (214.4176250d) Dec: +57 53 17.57 (57.88821d) Equinox: J2000	Proper Motion RA: 0.0 Proper Motion Dec: 0.0 Epoch of Position: 2000.0 Redshift: 0.0660	V=21.48+/-0.02 FUV=22.05, NUV=22.00	Reference Frame: ICRS			
	<i>Comments:</i> Category=GALAXY Description=[DWARF COMPACT, STARBURST] 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.202 1359)	(4) J1417+5753	COS/NUV, ACQ/IMAGE, PSA	MIRRORA				500. Secs (500 Secs) [==>]	[1]
	2	(COS.sp.202 1371)	(4) J1417+5753	COS/FUV, TIME-TAG, PSA	G140L 1105 A	BUFFER-TIME=95 00.;	FLASH=YES; FP-POS=1; SEGMENT=A		1200. Secs (1338 Secs) [==>1338.0 Secs ]	[1]
	3	(COS.sp.202 1371)	(4) J1417+5753	COS/FUV, TIME-TAG, PSA	G140L 1105 A	BUFFER-TIME=95 00.;	FLASH=YES; FP-POS=ALL; SEGMENT=A		1200. Secs (4970 Secs) [==>1200. Secs (Split 1)] [==>1285.0 Secs (Split 2)] [==>1200. Secs (Split 3)] [==>1285.0 Secs (Split 4)]	[2] [3]

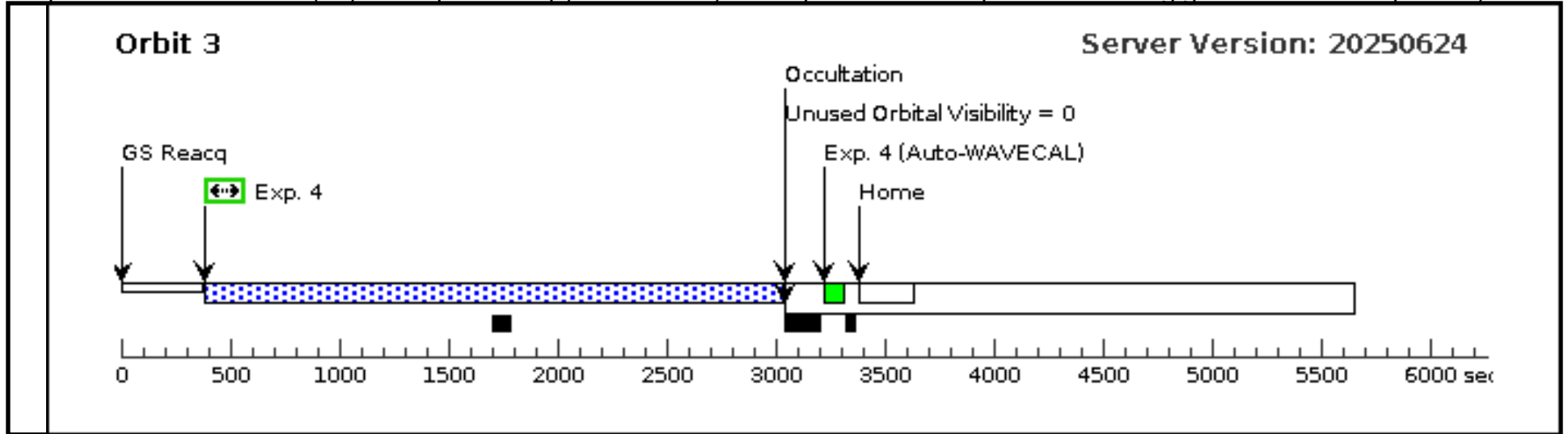


Proposal 18044 - J1417.2 (08) - UV spectroscopy of extremely metal-poor dwarf compact star-forming galaxies with exceptionally stro...

Mon Aug 04 13:01:22 GMT 2025

Visit	<b>Proposal 18044, J1417.2 (08)</b> <b>Diagnostic Status: No Diagnostics</b> Scientific Instruments: STIS/NUV-MAMA, STIS/CCD Special Requirements: (none)									
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous			
		(4)	J1417+5753	RA: 14 17 40.2300 (214.4176250d) Dec: +57 53 17.57 (57.88821d) Equinox: J2000	Proper Motion RA: 0.0 Proper Motion Dec: 0.0 Epoch of Position: 2000.0 Redshift: 0.0660	V=21.48+/-0.02 FUV=22.05, NUV=22.00	Reference Frame: ICRS			
	<i>Comments:</i> Category=GALAXY Description=[DWARF COMPACT, STARBURST] Extended=NO									
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(STIS.ta.202 1378)	(4) J1417+5753	STIS/CCD, ACQ, F28X50LP	MIRROR				200. Secs (200 Secs)	
									[==>]	[1]
	2	(STIS.sp.20 21386)	(4) J1417+5753	STIS/NUV-MAMA, TIME-TAG, 52X0.5	G230L 2376 A	BUFFER-TIME=13 00.			1200. Secs (1279 Secs)	
									[==>1279.0 Secs ]	[1]
3	(STIS.sp.20 21386)	(4) J1417+5753	STIS/NUV-MAMA, TIME-TAG, 52X0.5	G230L 2376 A	BUFFER-TIME=13 00.			2400. Secs (2636 Secs)		
								[==>2636.0 Secs ]	[2]	
4	(STIS.sp.20 21386)	(4) J1417+5753	STIS/NUV-MAMA, TIME-TAG, 52X0.5	G230L 2376 A	BUFFER-TIME=13 00.			2400. Secs (2613 Secs)		
								[==>2613.0 Secs ]	[3]	

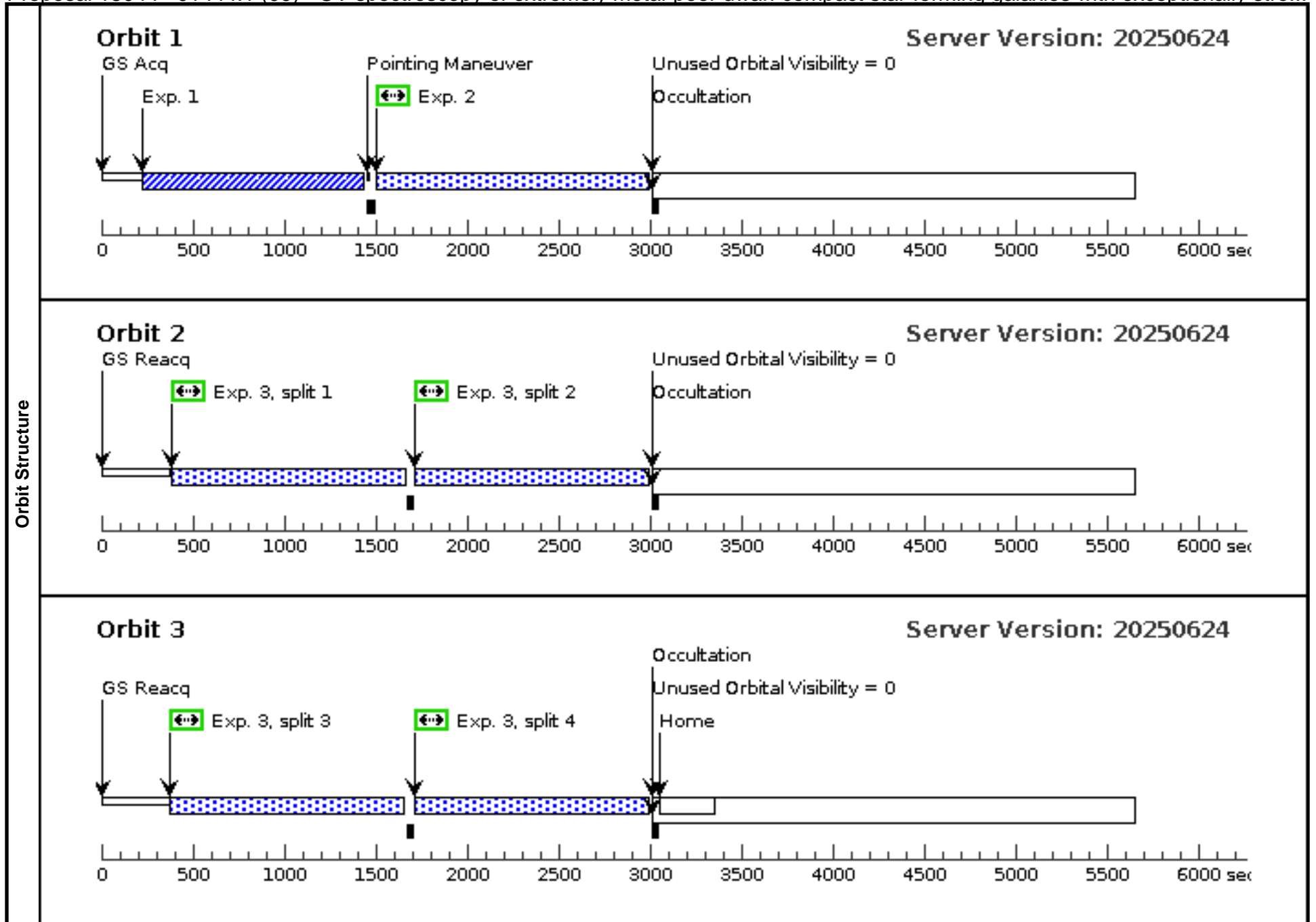




Proposal 18044 - J1444.1 (09) - UV spectroscopy of extremely metal-poor dwarf compact star-forming galaxies with exceptionally stro...

Mon Aug 04 13:01:23 GMT 2025

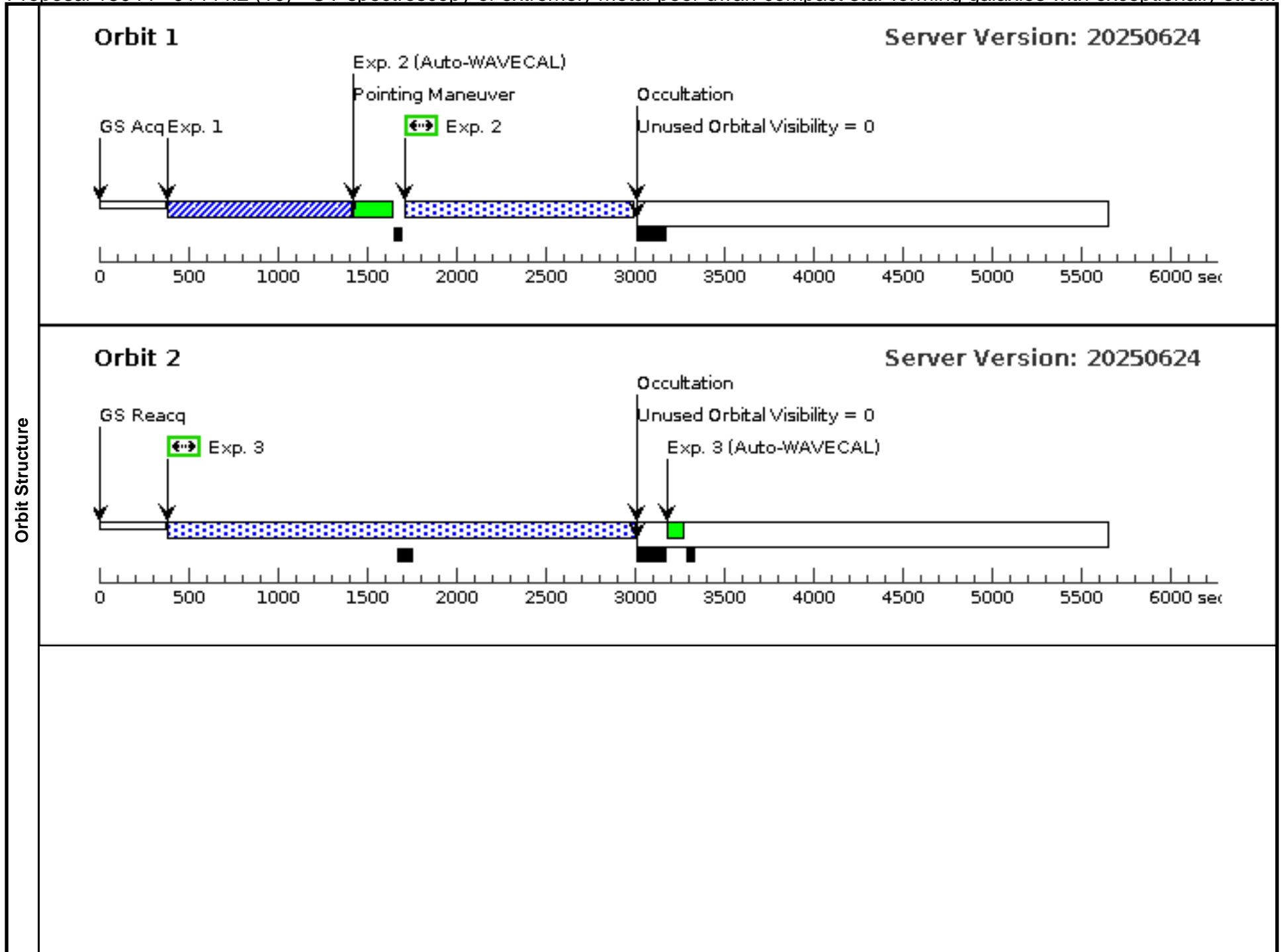
Visit	<b>Proposal 18044, J1444.1 (09)</b> <b>Diagnostic Status: No Diagnostics</b> Scientific Instruments: COS/FUV, COS/NUV Special Requirements: (none)									
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous			
		(5)	J1444+4840	RA: 14 44 59.0100 (221.2458750d) Dec: +48 40 6.83 (48.66856d) Equinox: J2000	Proper Motion RA: 0.0 Proper Motion Dec: 0.0 Epoch of Position: 2000.0 Redshift: 0.0647	V=20.71+/-0.03 FUV=22.01+/-0.41, NUV=22.18+/-0.43	Reference Frame: ICRS			
	<i>Comments:</i> Category=GALAXY Description=[DWARF COMPACT, STARBURST] 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.202 1360)	(5) J1444+4840	COS/NUV, ACQ/IMAGE, PSA	MIRRORA				500. Secs (500 Secs) [==>]	[1]
	2	(COS.sp.202 1371)	(5) J1444+4840	COS/FUV, TIME-TAG, PSA	G140L 1105 A	BUFFER-TIME=95 00.;	FLASH=YES; FP-POS=1; SEGMENT=A		1200. Secs (1305 Secs) [==>1305.0 Secs ]	[1]
	3	(COS.sp.202 1371)	(5) J1444+4840	COS/FUV, TIME-TAG, PSA	G140L 1105 A	BUFFER-TIME=95 00.;	FLASH=YES; FP-POS=ALL; SEGMENT=A		1200. Secs (4904 Secs) [==>1226.0 Secs (Split 1)] [==>1226.0 Secs (Split 2)] [==>1226.0 Secs (Split 3)] [==>1226.0 Secs (Split 4)]	[2] [3]

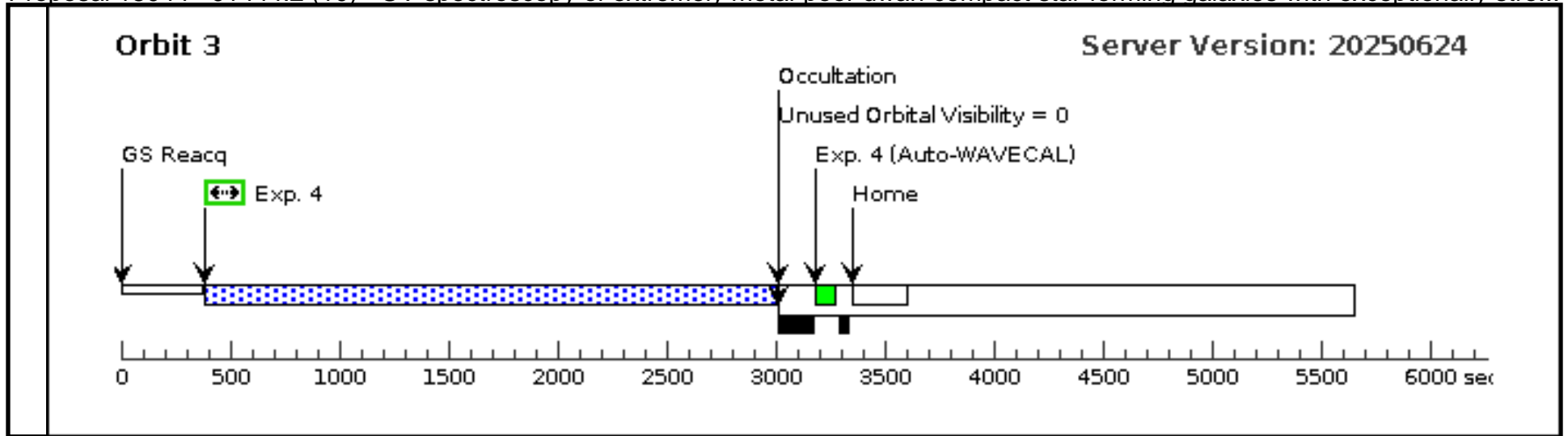


Proposal 18044 - J1444.2 (10) - UV spectroscopy of extremely metal-poor dwarf compact star-forming galaxies with exceptionally stro...

Mon Aug 04 13:01:23 GMT 2025

Visit	<b>Proposal 18044, J1444.2 (10)</b> <b>Diagnostic Status: No Diagnostics</b> Scientific Instruments: STIS/NUV-MAMA, STIS/CCD Special Requirements: (none)									
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous			
		(5)	J1444+4840	RA: 14 44 59.0100 (221.2458750d) Dec: +48 40 6.83 (48.66856d) Equinox: J2000	Proper Motion RA: 0.0 Proper Motion Dec: 0.0 Epoch of Position: 2000.0 Redshift: 0.0647	V=20.71+/-0.03 FUV=22.01+/-0.41, NUV=22.18+/-0.43	Reference Frame: ICRS			
	<i>Comments:</i> Category=GALAXY Description=[DWARF COMPACT, STARBURST] Extended=NO									
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(STIS.ta.202 1379)	(5) J1444+4840	STIS/CCD, ACQ, F28X50LP	MIRROR				200. Secs (200 Secs)	
									[==>]	[1]
	2	(STIS.sp.20 21387)	(5) J1444+4840	STIS/NUV-MAMA, TIME-TAG, 52X0.5	G230L 2376 A	BUFFER-TIME=13 00.			1200. Secs (1246 Secs)	
									[==>1246.0 Secs ]	[1]
3	(STIS.sp.20 21387)	(5) J1444+4840	STIS/NUV-MAMA, TIME-TAG, 52X0.5	G230L 2376 A	BUFFER-TIME=13 00.			2400. Secs (2603 Secs)		
								[==>2603.0 Secs ]	[2]	
4	(STIS.sp.20 21387)	(5) J1444+4840	STIS/NUV-MAMA, TIME-TAG, 52X0.5	G230L 2376 A	BUFFER-TIME=13 00.			2400. Secs (2580 Secs)		
								[==>2580.0 Secs ]	[3]	

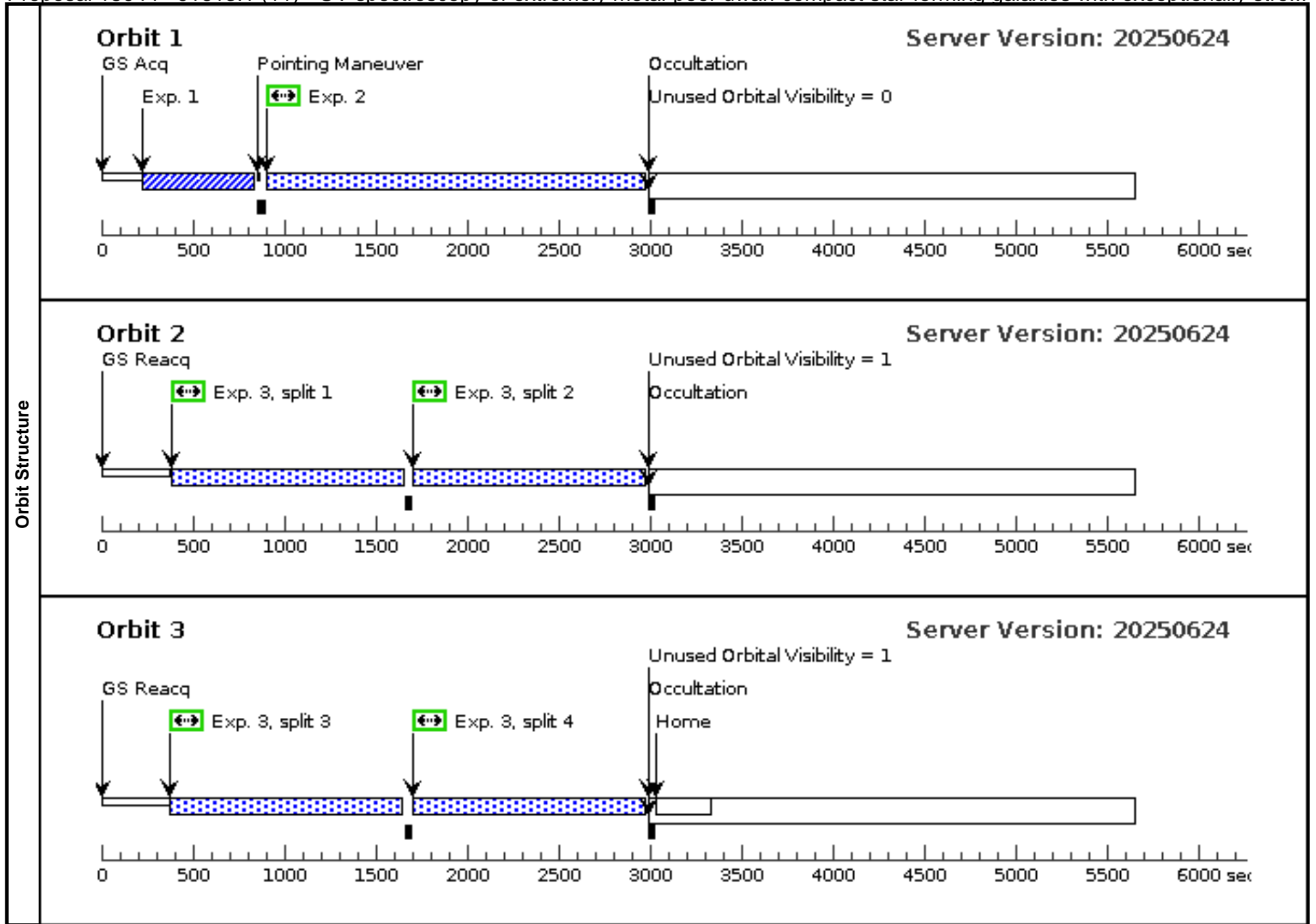




Proposal 18044 - J1613.1 (11) - UV spectroscopy of extremely metal-poor dwarf compact star-forming galaxies with exceptionally stro...

Mon Aug 04 13:01:23 GMT 2025

Visit	<b>Proposal 18044, J1613.1 (11)</b> <b>Diagnostic Status: No Diagnostics</b> Scientific Instruments: COS/FUV, COS/NUV Special Requirements: (none)									
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous			
		(6)	J1613+3622	RA: 16 13 48.3300 (243.4513750d) Dec: +36 22 12.57 (36.37016d) Equinox: J2000	Proper Motion RA: 0.0 Proper Motion Dec: 0.0 Epoch of Position: 2000.0 Redshift: 0.0390	V=21.52+/-0.03 FUV=20.59, NUV=20.74	Reference Frame: ICRS			
	<i>Comments:</i> Category=GALAXY Description=[DWARF COMPACT, STARBURST] 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.202 1361)	(6) J1613+3622	COS/NUV, ACQ/IMAGE, PSA	MIRRORA				200. Secs (200 Secs) [==>]	[1]
	2	(COS.sp.202 1374)	(6) J1613+3622	COS/FUV, TIME-TAG, PSA	G140L 1105 A	BUFFER-TIME=94 00.;	FLASH=YES; FP-POS=1; SEGMENT=A		1200. Secs (1886 Secs) [==>1886.0 Secs ]	[1]
	3	(COS.sp.202 1374)	(6) J1613+3622	COS/FUV, TIME-TAG, PSA	G140L 1105 A	BUFFER-TIME=94 00.;	FLASH=YES; FP-POS=ALL; SEGMENT=A		1200. Secs (4864 Secs) [==>1216.0 Secs (Split 1)] [==>1216.0 Secs (Split 2)] [==>1216.0 Secs (Split 3)] [==>1216.0 Secs (Split 4)]	[2] [3]



Proposal 18044 - J1613.2 (12) - UV spectroscopy of extremely metal-poor dwarf compact star-forming galaxies with exceptionally stro...

Mon Aug 04 13:01:23 GMT 2025

Visit	<b>Proposal 18044, J1613.2 (12)</b> <b>Diagnostic Status: No Diagnostics</b> Scientific Instruments: STIS/NUV-MAMA, STIS/CCD Special Requirements: (none)									
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous			
		(6)	J1613+3622	RA: 16 13 48.3300 (243.4513750d) Dec: +36 22 12.57 (36.37016d) Equinox: J2000	Proper Motion RA: 0.0 Proper Motion Dec: 0.0 Epoch of Position: 2000.0 Redshift: 0.0390	V=21.52+/-0.03 FUV=20.59, NUV=20.74	Reference Frame: ICRS			
	<i>Comments:</i> Category=GALAXY Description=[DWARF COMPACT, STARBURST] Extended=NO									
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(STIS.ta.202 1380)	(6) J1613+3622	STIS/CCD, ACQ, F28X50LP	MIRROR				200. Secs (200 Secs)	
									[==>]	[1]
	2	(STIS.sp.20 21388)	(6) J1613+3622	STIS/NUV-MAMA, TIME-TAG, 52X0.5	G230L 2376 A	BUFFER-TIME=13 00.			1200. Secs (1227 Secs)	
									[==>1227.0 Secs ]	[1]
3	(STIS.sp.20 21388)	(6) J1613+3622	STIS/NUV-MAMA, TIME-TAG, 52X0.5	G230L 2376 A	BUFFER-TIME=13 00.			2400. Secs (2584 Secs)		
								[==>2584.0 Secs ]	[2]	
4	(STIS.sp.20 21388)	(6) J1613+3622	STIS/NUV-MAMA, TIME-TAG, 52X0.5	G230L 2376 A	BUFFER-TIME=13 00.			2400. Secs (2561 Secs)		
								[==>2561.0 Secs ]	[3]	

