



17433 - HST UV Spectroscopy of High-accretion-rate AGNs and the Origin of Offset in the Broad-Line Region Size-Luminosity Relation

Cycle: 31, Proposal Category: GO

(UV Initiative)

(Availability Mode: SUPPORTED)

INVESTIGATORS

<i>Name</i>	<i>Institution</i>
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VISITS

<i>Visit</i>	<i>Targets used in Visit</i>	<i>Configurations used in Visit</i>	<i>Orbits Used</i>	<i>Last Orbit Planner Run</i>	<i>OP Current with Visit?</i>
01	(1) IRAS04416+1215	COS/FUV COS/NUV	1	28-Oct-2024 18:00:17.0	yes
1A	(1) IRAS04416+1215	COS/FUV COS/NUV	1	28-Oct-2024 18:00:18.0	yes
02	(2) IRASF12397+3333	COS/FUV COS/NUV	1	28-Oct-2024 18:00:19.0	yes
04	(4) SDSSJ075101.42+291419.1	COS/FUV COS/NUV	1	28-Oct-2024 18:00:19.0	yes
05	(5) SDSSJ080101.41+184840.7	COS/FUV COS/NUV	1	28-Oct-2024 18:00:20.0	yes
06	(6) SDSSJ080131.58+354436.4	COS/FUV COS/NUV	1	28-Oct-2024 18:00:21.0	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>
07	(7) SDSSJ083553.46+055317.1	COS/FUV COS/NUV	1	28-Oct-2024 18:00:21.0	yes
08	(8) SDSSJ084533.28+474934.5	STIS/CCD STIS/NUV-MAMA	1	28-Oct-2024 18:00:22.0	yes
09	(9) SDSSJ085946.35+274534.8	STIS/CCD STIS/NUV-MAMA	1	28-Oct-2024 18:00:23.0	yes
10	(10) SDSSJ093302.68+385228.0	COS/FUV COS/NUV	1	28-Oct-2024 18:00:23.0	yes
11	(11) SDSSJ102339.64+523349.6	COS/FUV COS/NUV	1	28-Oct-2024 18:00:24.0	yes
12	(12) RM300	STIS/CCD STIS/NUV-MAMA	2	28-Oct-2024 18:00:25.0	yes
13	(13) RM316	STIS/CCD STIS/NUV-MAMA	1	28-Oct-2024 18:00:26.0	yes
14	(14) RM746	STIS/CCD STIS/NUV-MAMA	2	28-Oct-2024 18:00:26.0	yes
15	(15) RM798	STIS/CCD STIS/NUV-MAMA	2	28-Oct-2024 18:00:27.0	yes
16	(16) RM822	STIS/CCD STIS/NUV-MAMA	1	28-Oct-2024 18:00:28.0	yes

19 Total Orbits Used

ABSTRACT

Nearly two decades of reverberation mapping (RM) studies on local broad-line AGNs have revealed a tight correlation between the broad-line region (BLR) size and the AGN optical luminosity (the R-L relation), which provides the foundation for single-epoch virial black hole mass recipes that estimate AGN black hole masses using single-epoch spectra. However, recent RM studies for AGNs with a more diverse range of accretion parameters revealed an increased dispersion around the canonical R-L relation. In particular, high-accretion-rate (e.g., $L/LEdd > 0.5$) AGNs show a significant lag offset by a factor of 3-4 at fixed optical luminosities. Understanding the origin of this dispersion/offset in the R-L relation is critically

Proposal 17433 (STScI Edit Number: 4, Created: Monday, October 28, 2024, 5:00:28PM Eastern Standard Time) - Overview
important for single-epoch mass recipes. One promising explanation for this dispersion/offset is that the underlying ionizing spectral energy distributions (SEDs) are different at different accretion rates.

Here we propose HST UV spectroscopy for 16 high-accretion AGNs at $0.05 < z < 0.7$ with RM measurements to test this hypothesis and to develop empirical corrections to tighten up the R-L relation. We will measure the rest-frame UV emission-line properties, and perform detailed photoionization calculations to constrain accretion disk models and SED predictions. The comparison of photoionization calculations and observed spectra for a unique high-accretion AGN sample would not only facilitate a better theoretical understanding of high-accretion disk models (e.g., the slim disk model), but also shed light on the physical driver of the R-L relation dispersion and enable better calibrations of single-epoch mass recipes.

OBSERVING DESCRIPTION

We have selected a sample of 16 low-redshift ($0.05 < z < 0.7$) high-accretion AGNs with GALEX NUV mag < 21 in this proposal.

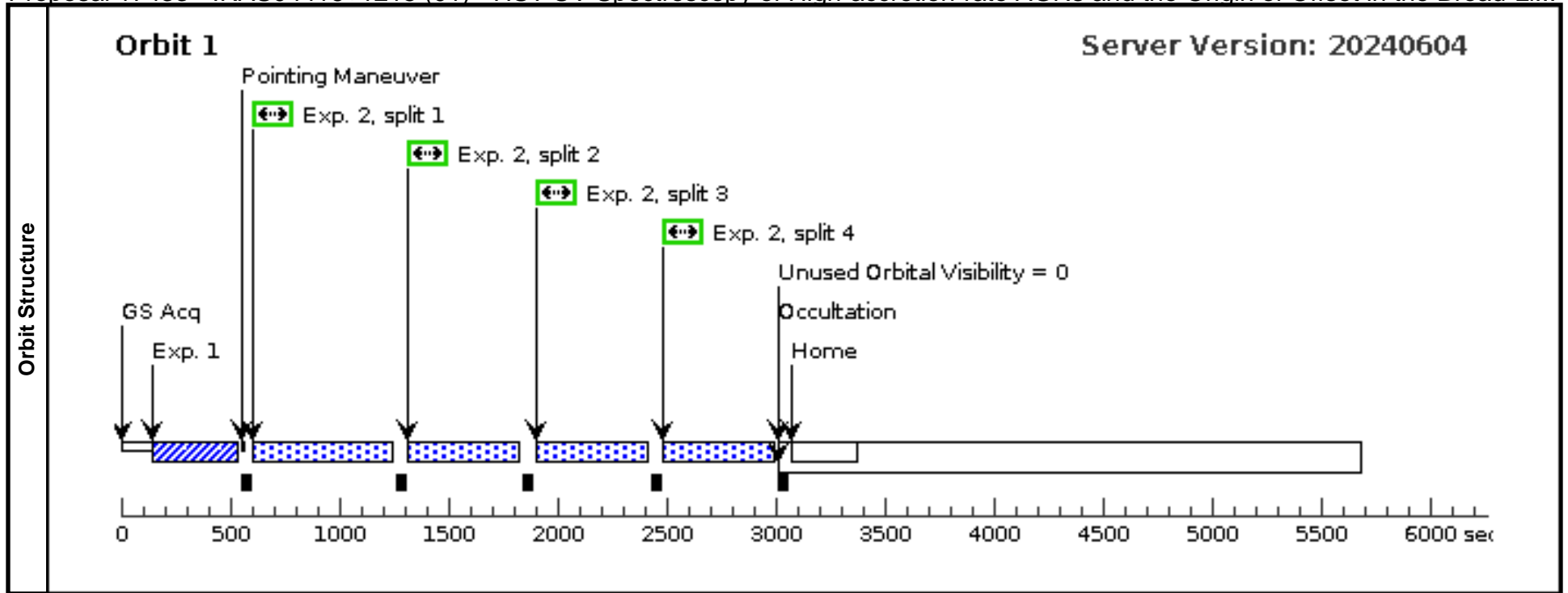
For 8 targets at $z < 0.2$, we choose the HST COS/FUV in spectroscopic mode with the G140L grating and a central wavelength of 1280 Å. Firstly, the NUV ACQ/IMAGE MirrorB is used for target acquisition to meet the safety limits. We calculate the acquisition exposure times with the ETC for a minimum SNR of 20 for PSA mode, assuming a point-like source. Then each FUV exposure will fit in the same orbit as the target acquisition and use all four FP-POS positions to obtain the spectra with SNR~10 per resolution element. The BUFFER-TIME is set to be $2/3 \times \text{BFT}$ as recommended by the handbook.

For 8 targets at $z > 0.2$, we choose HST STIS/NUV-MAMA in spectroscopic mode with the G230L grating to optimize the need for spectral coverage. We will use the point-source mode and F28x50LP CCD aperture for target acquisition, and the acquisition exposure time is computed from ETC to obtain an SNR of at least 40. Then we will take one or two (depending on the orbit, 1 for 5 targets, 2 for 3 targets) MAMA exposures to reach SNR~10 per resolution element, where 52" x 0.2" slit is used and BUFFER-TIME is set to be 300s.

Proposal 17433 - IRAS04416+1215 (01) - HST UV Spectroscopy of High-accretion-rate AGNs and the Origin of Offset in the Broad-Li...

Mon Oct 28 22:00:28 GMT 2024

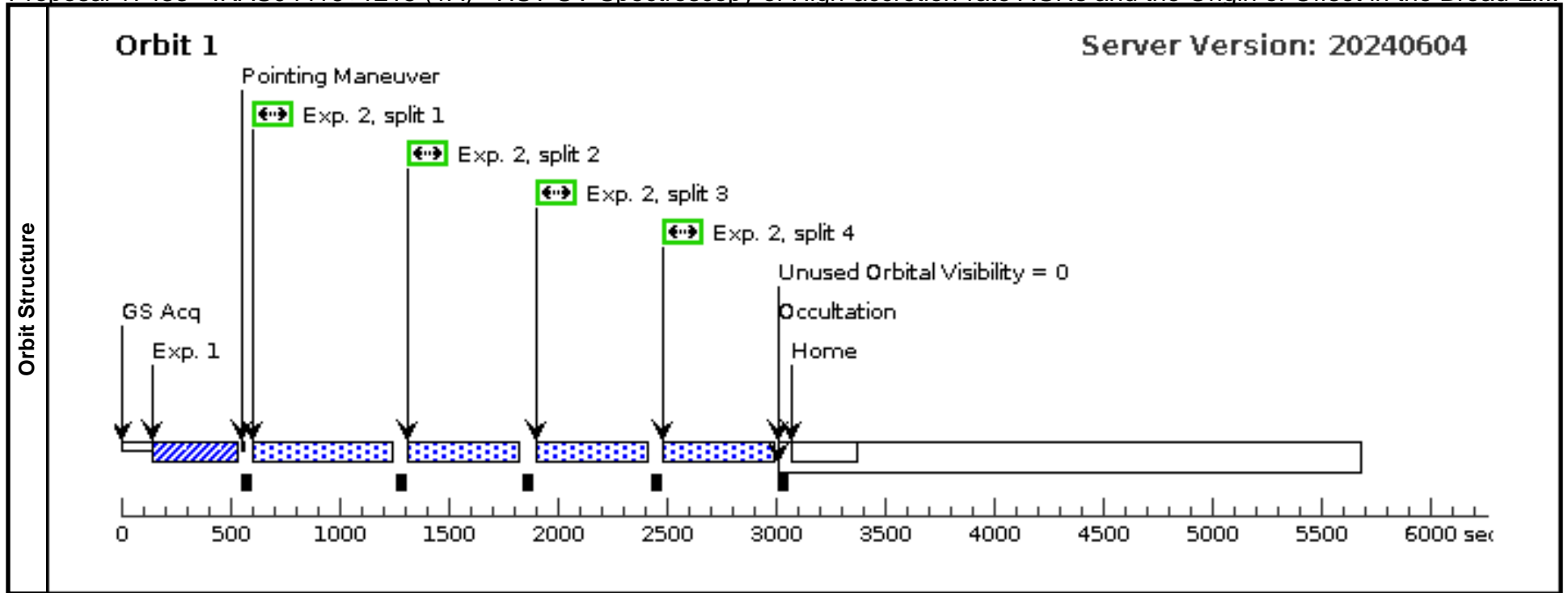
Visit	Proposal 17433, IRAS04416+1215 (01), failed Diagnostic Status: No Diagnostics Scientific Instruments: COS/FUV, COS/NUV Special Requirements: (none)									
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous			
		(1)	IRAS04416+1215	RA: 04 44 28.7759 (71.1198996d) Dec: +12 21 11.72 (12.35326d) Equinox: J2000	Proper Motion RA: 1.4058835568345878E-5 sec of time/yr Proper Motion Dec: 1.01E-4 arcsec/yr Epoch of Position: 2015.5 Redshift: 0.089	V=16.4+/-0.1 FUV=18.7, NUV=18.6	Reference Frame: ICRS			
	<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> Category=GALAXY Description=[QSO, QUASAR] Extended=NO									
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	ACQ/IMAG E COS/NU V (1890121)	(1) IRAS04416+1215	COS/NUV, ACQ/IMAGE, PSA	MIRRORB					50 Secs (50 Secs) [==>]
2	EXP01 COS /FUV (1890041)	(1) IRAS04416+1215	COS/FUV, TIME-TAG, PSA	G140L 1280 A		BUFFER-TIME=20 50; FP-POS=ALL			498 Secs (1844 Secs) [==>461.0 Secs (Split 1)] [==>461.0 Secs (Split 2)] [==>461.0 Secs (Split 3)] [==>461.0 Secs (Split 4)]	[1]



Proposal 17433 - IRAS04416+1215 (1A) - HST UV Spectroscopy of High-accretion-rate AGNs and the Origin of Offset in the Broad-Li...

Mon Oct 28 22:00:29 GMT 2024

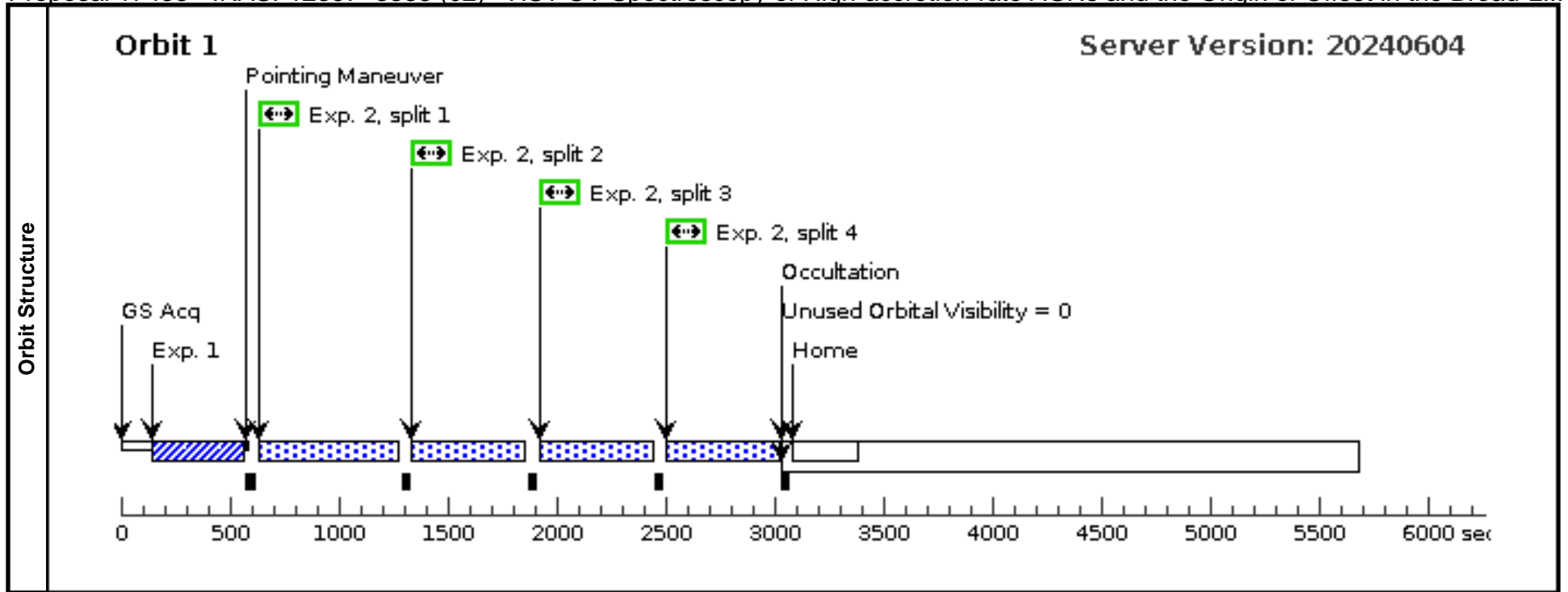
Visit	Proposal 17433, IRAS04416+1215 (1A) Diagnostic Status: No Diagnostics Scientific Instruments: COS/FUV, COS/NUV Special Requirements: (none)									
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous			
		(1)	IRAS04416+1215	RA: 04 44 28.7759 (71.1198996d) Dec: +12 21 11.72 (12.35326d) Equinox: J2000	Proper Motion RA: 1.4058835568345878E-5 sec of time/yr Proper Motion Dec: 1.01E-4 arcsec/yr Epoch of Position: 2015.5 Redshift: 0.089	V=16.4+/-0.1 FUV=18.7, NUV=18.6	Reference Frame: ICRS			
	<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> Category=GALAXY Description=[QSO, QUASAR] Extended=NO									
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	ACQ/IMAG E COS/NU V (1890121)	(1) IRAS04416+121 5	COS/NUV, ACQ/IMAGE, PSA	MIRRORB					50 Secs (50 Secs) [==>]
2	EXP01 COS /FUV (1890041)	(1) IRAS04416+121 5	COS/FUV, TIME-TAG, PSA	G140L 1280 A		BUFFER-TIME=20 50; FP-POS=ALL			498 Secs (1844 Secs) [==>461.0 Secs (Split 1)] [==>461.0 Secs (Split 2)] [==>461.0 Secs (Split 3)] [==>461.0 Secs (Split 4)]	[1]



Proposal 17433 - IRASF12397+3333 (02) - HST UV Spectroscopy of High-accretion-rate AGNs and the Origin of Offset in the Broad-L...

Mon Oct 28 22:00:29 GMT 2024

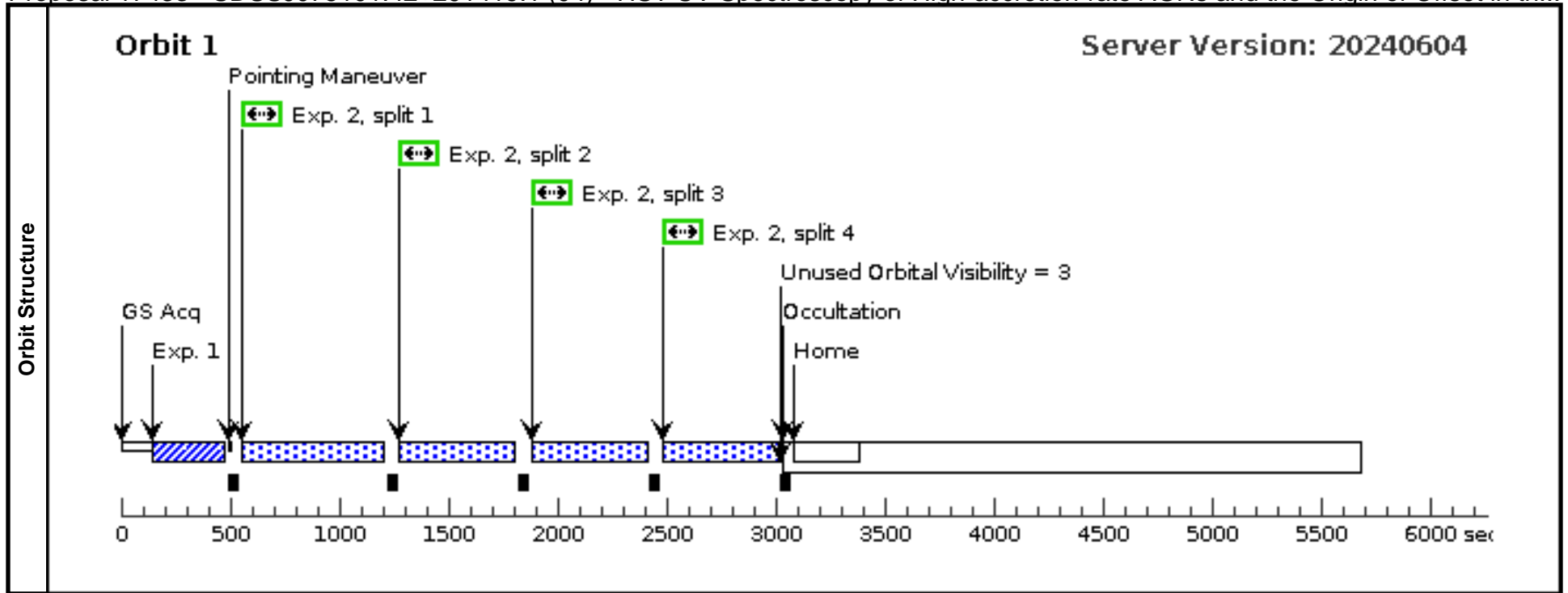
Visit	Proposal 17433, IRASF12397+3333 (02), implementation Diagnostic Status: No Diagnostics Scientific Instruments: COS/FUV, COS/NUV Special Requirements: (none)									
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous			
		(2)	IRASF12397+3333	RA: 12 42 10.6050 (190.5441875d) Dec: +33 17 2.66 (33.28407d) Equinox: J2000	Proper Motion RA: -5.103912793187953E-6 sec of time/yr Proper Motion Dec: -3.300006028439384E-5 arcsec/yr Epoch of Position: 2015.5 Redshift: 0.044	V=15.65+/-0.1 FUV=19.7, NUV=18.9	Reference Frame: ICRS			
	<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> Category=GALAXY Description=[QSO, QUASAR] Extended=NO									
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	ACQ/IMAG E COS/NU V (1890257)	(2) IRASF12397+33 33	COS/NUV, ACQ/IMAGE, PSA	MIRRORB					63 Secs (63 Secs) [==>]
2	EXP01 COS /FUV (1890043)	(2) IRASF12397+33 33	COS/FUV, TIME-TAG, PSA	G140L 1280 A	BUFFER-TIME=23 18; FP-POS=ALL				510 Secs (1864 Secs) [==>466.0 Secs (Split 1)] [==>466.0 Secs (Split 2)] [==>466.0 Secs (Split 3)] [==>466.0 Secs (Split 4)]	[1]



Proposal 17433 - SDSSJ075101.42+291419.1 (04) - HST UV Spectroscopy of High-accretion-rate AGNs and the Origin of Offset in th...

Mon Oct 28 22:00:29 GMT 2024

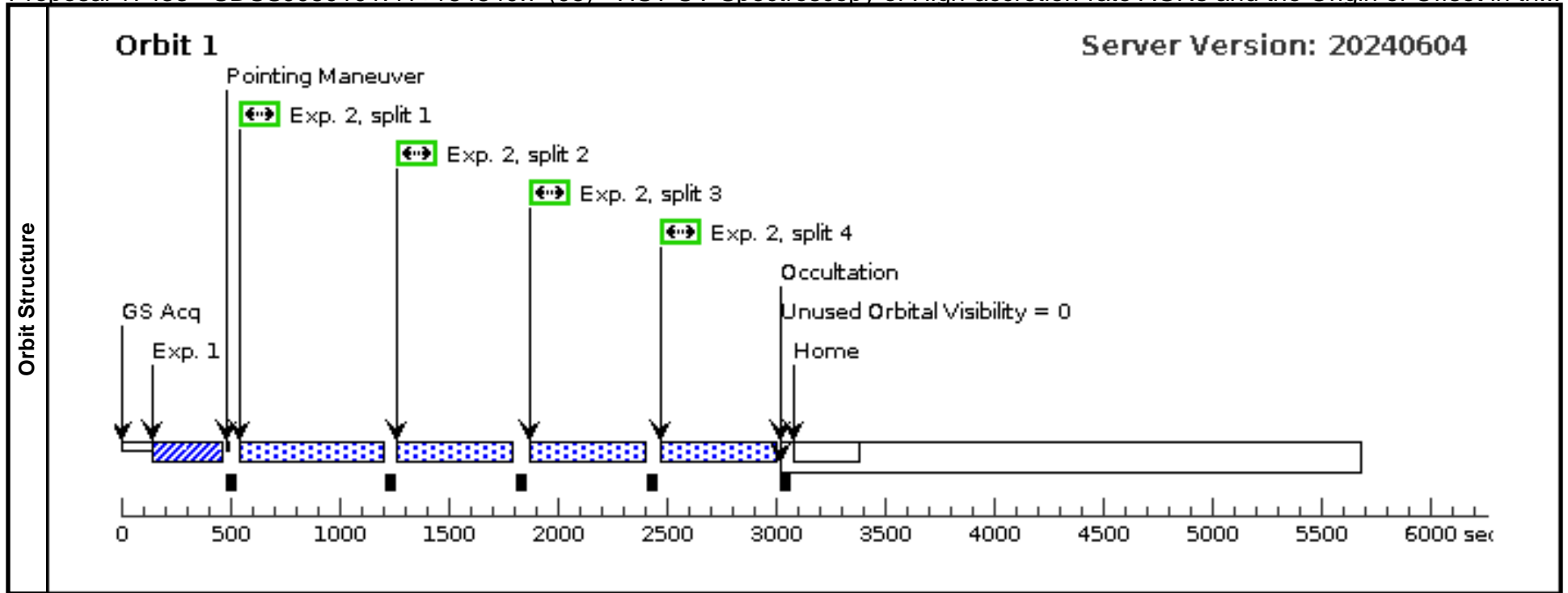
Visit	Proposal 17433, SDSSJ075101.42+291419.1 (04), completed Diagnostic Status: No Diagnostics Scientific Instruments: COS/FUV, COS/NUV Special Requirements: (none)									
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous			
		(4)	SDSSJ075101.42+291419.1	RA: 07 51 1.4236 (117.7559317d) Dec: +29 14 19.16 (29.23866d) Equinox: J2000	Proper Motion RA: 5.806450627030955E-6 sec of time/yr Proper Motion Dec: 1.9E-5 arcsec/yr Epoch of Position: 2015.5 Redshift: 0.120	V=17.25+/-0.1 FUV=18.4, NUV=17.7	Reference Frame: ICRS			
	Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. Category=GALAXY Description=[QSO, QUASAR] Extended=NO									
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	ACQ/IMAG E COS/NUV (1890124)	(4) SDSSJ075101.42 +291419.1	COS/NUV, ACQ/IMAGE, PSA	MIRRORB				21 Secs (21 Secs) [==>]	[1]
	2	EXP01 COS /FUV (1890047)	(4) SDSSJ075101.42 +291419.1	COS/FUV, TIME-TAG, PSA	G140L 1280 A	BUFFER-TIME=19 74; FP-POS=ALL			501 Secs (1916 Secs) [==>479.0 Secs (Split 1)] [==>479.0 Secs (Split 2)] [==>479.0 Secs (Split 3)] [==>479.0 Secs (Split 4)]	[1]



Proposal 17433 - SDSSJ080101.41+184840.7 (05) - HST UV Spectroscopy of High-accretion-rate AGNs and the Origin of Offset in th...

Mon Oct 28 22:00:29 GMT 2024

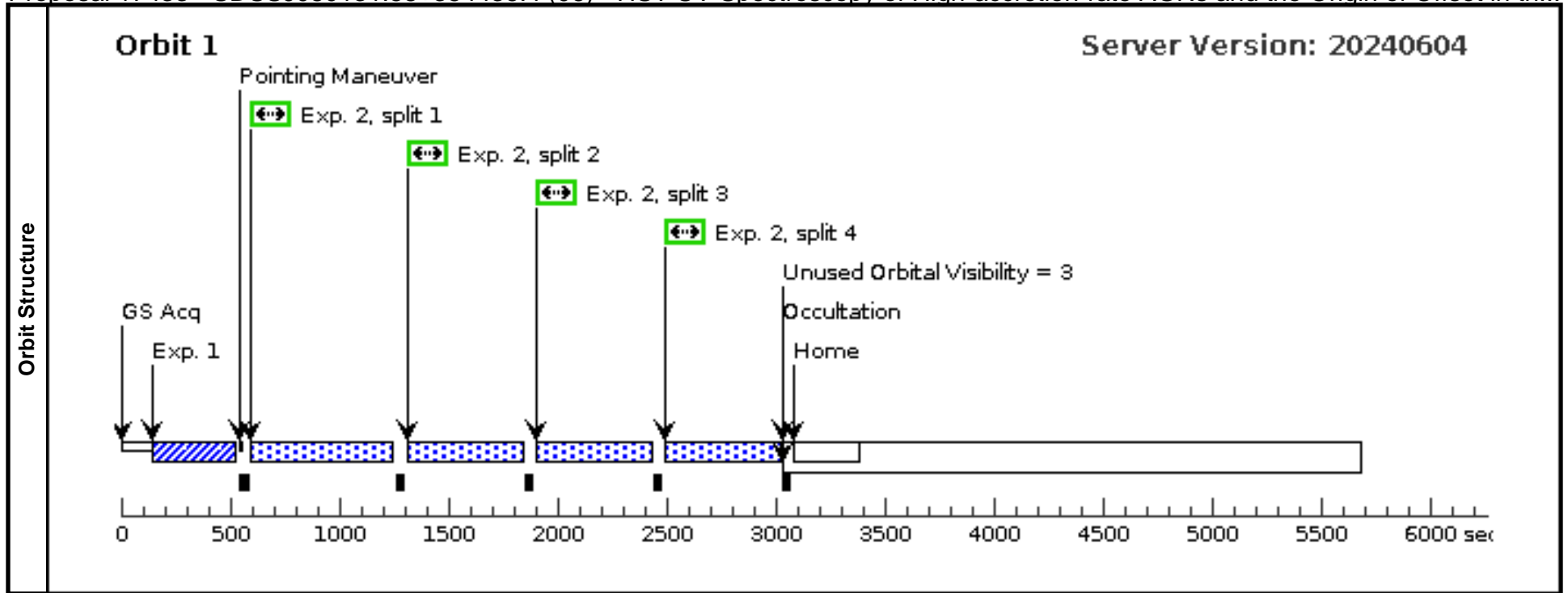
Visit	Proposal 17433, SDSSJ080101.41+184840.7 (05), completed Diagnostic Status: No Diagnostics Scientific Instruments: COS/FUV, COS/NUV Special Requirements: (none)									
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous			
		(5)	SDSSJ080101.41+184840.7	RA: 08 01 1.4078 (120.2558658d) Dec: +18 48 40.85 (18.81135d) Equinox: J2000	Proper Motion RA: 5.070857775023197E-6 sec of time/yr Proper Motion Dec: 3.8E-5 arcsec/yr Epoch of Position: 2015.5 Redshift: 0.140	V=16.88+/-0.1	Reference Frame: ICRS			
	<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> Category=GALAXY Description=[QSO, QUASAR] Extended=NO									
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	ACQ/IMAG E COS/NUV (1890125)	(5) SDSSJ080101.41 +184840.7	COS/NUV, ACQ/IMAGE, PSA	MIRRORB					16 Secs (16 Secs) [==>]
2	EXP01 COS /FUV (1890049)	(5) SDSSJ080101.41 +184840.7	COS/FUV, TIME-TAG, PSA	G140L 1280 A	BUFFER-TIME=16 12; FP-POS=ALL				455 Secs (1920 Secs) [==>480.0 Secs (Split 1)] [==>480.0 Secs (Split 2)] [==>480.0 Secs (Split 3)] [==>480.0 Secs (Split 4)]	[1]



Proposal 17433 - SDSSJ080131.58+354436.4 (06) - HST UV Spectroscopy of High-accretion-rate AGNs and the Origin of Offset in th...

Mon Oct 28 22:00:29 GMT 2024

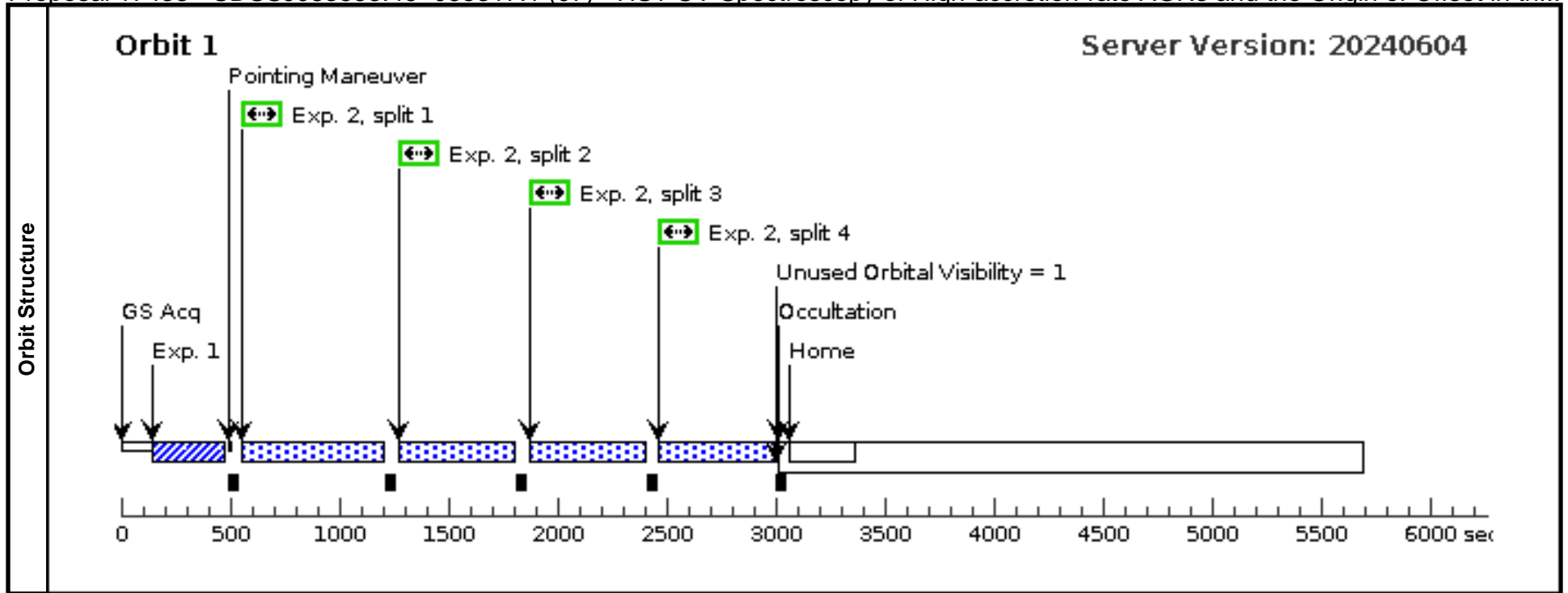
Visit	Proposal 17433, SDSSJ080131.58+354436.4 (06), completed Diagnostic Status: No Diagnostics Scientific Instruments: COS/FUV, COS/NUV Special Requirements: (none)									
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous			
		(6)	SDSSJ080131.58+354436.4	RA: 08 01 31.5900 (120.3816250d) Dec: +35 44 36.36 (35.74343d) Equinox: J2000	Proper Motion RA: -6.899602783229938E-6 sec of time/yr Proper Motion Dec: -6.500006293208571E-5 arcsec/yr Epoch of Position: 2015.5 Redshift: 0.179	V=17.95+/-0.1 FUV=18.8, NUV=18.5	Reference Frame: ICRS			
	Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. Category=GALAXY Description=[QSO, QUASAR] Extended=NO									
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	ACQ/IMAG E COS/NUV (1890129)	(6) SDSSJ080131.58 +354436.4	COS/NUV, ACQ/IMAGE, PSA	MIRRORB					44 Secs (44 Secs) [==>]
2	EXP01 COS /FUV (1890053)	(6) SDSSJ080131.58 +354436.4	COS/FUV, TIME-TAG, PSA	G140L 1280 A	BUFFER-TIME=21 79; FP-POS=ALL				466 Secs (1904 Secs) [==>476.0 Secs (Split 1)] [==>476.0 Secs (Split 2)] [==>476.0 Secs (Split 3)] [==>476.0 Secs (Split 4)]	[1]



Proposal 17433 - SDSSJ083553.46+055317.1 (07) - HST UV Spectroscopy of High-accretion-rate AGNs and the Origin of Offset in th...

Mon Oct 28 22:00:29 GMT 2024

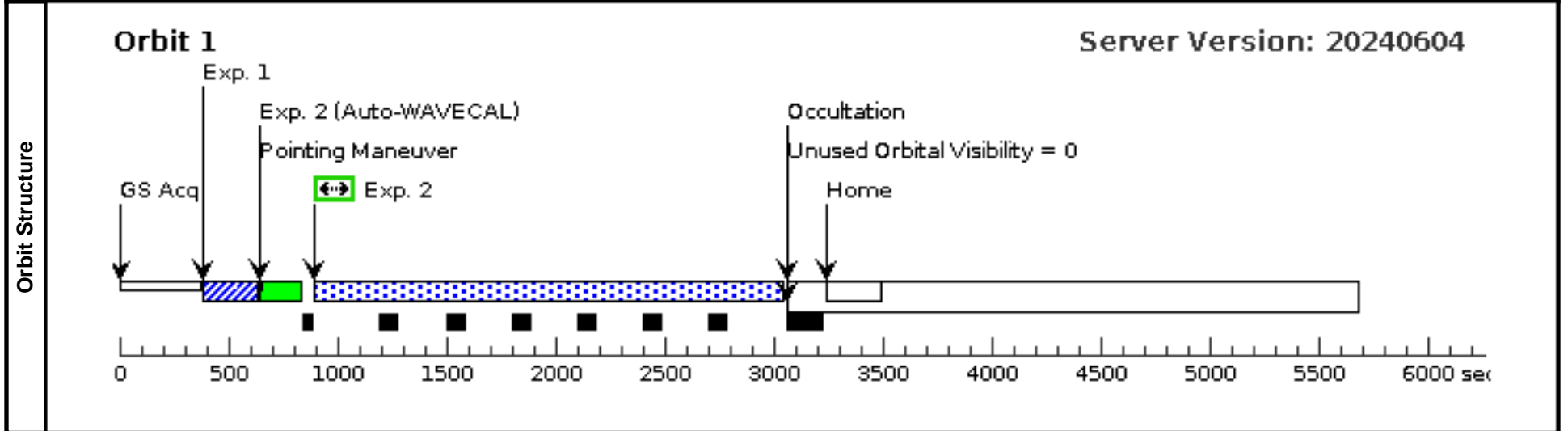
Visit	Proposal 17433, SDSSJ083553.46+055317.1 (07), completed Diagnostic Status: No Diagnostics Scientific Instruments: COS/FUV, COS/NUV Special Requirements: (none)									
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous			
		(7)	SDSSJ083553.46+055317.1	RA: 08 35 53.4636 (128.9727650d) Dec: +05 53 17.12 (5.88809d) Equinox: J2000	Proper Motion RA: -3.552073479578971E-6 sec of time/yr Proper Motion Dec: 4.4999999999999996E-5 arcsec/yr Epoch of Position: 2015.5 Redshift: 0.205	V=17.39+/-0.1 NUV=17.7	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	ACQ/IMAG E COS/NUV (1890130)	(7) SDSSJ083553.46 +055317.1	COS/NUV, ACQ/IMAGE, PSA	MIRRORB				21 Secs (21 Secs) [==>]	[1]
2	EXP01 COS /FUV (1890055)	(7) SDSSJ083553.46 +055317.1	COS/FUV, TIME-TAG, PSA	G140L 1280 A	BUFFER-TIME=18 62; FP-POS=ALL			455 Secs (1896 Secs) [==>474.0 Secs (Split 1)] [==>474.0 Secs (Split 2)] [==>474.0 Secs (Split 3)] [==>474.0 Secs (Split 4)]	[1]	



Visit	Proposal 17433, SDSSJ084533.28+474934.5 (08), completed				
	Diagnostic Status: No Diagnostics				
	Scientific Instruments: STIS/NUV-MAMA, STIS/CCD				
	Special Requirements: (none)				

Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(8)	SDSSJ084533.28+474934.5	RA: 08 45 33.2907 (131.3887113d) Dec: +47 49 34.53 (47.82626d) Equinox: J2000	Proper Motion RA: -1.290871594608827E-5 sec of time/yr Proper Motion Dec: 1.16E-4 arcsec/yr Epoch of Position: 2015.5 Redshift: 0.308	V=17.98+/-0.1 FUV=18.7, NUV=18.5	Reference Frame: ICRS
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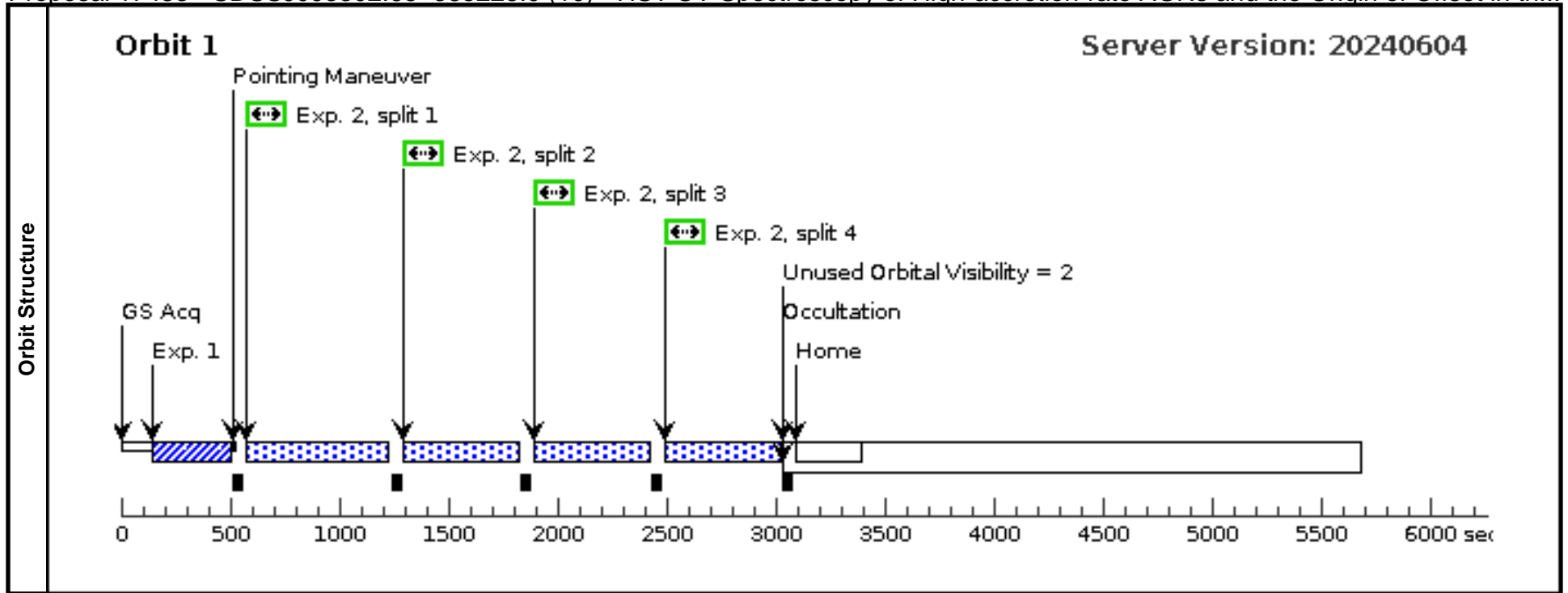
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	ACQ STIS (1890056)	(8) SDSSJ084533.28 +474934.5	STIS/CCD, ACQ, F28X50LP	MIRROR	ACQTYPE=POINT			5 Secs (5 Secs) [==>]	[1]
	2	EXP01 STIS (1890058)	(8) SDSSJ084533.28 +474934.5	STIS/NUV-MAMA, TIME-TAG, 52X0.2	G230L 2376 A	BUFFER-TIME=30 0			2273 Secs (2135 Secs) [==>2135.0 Secs]	[1]



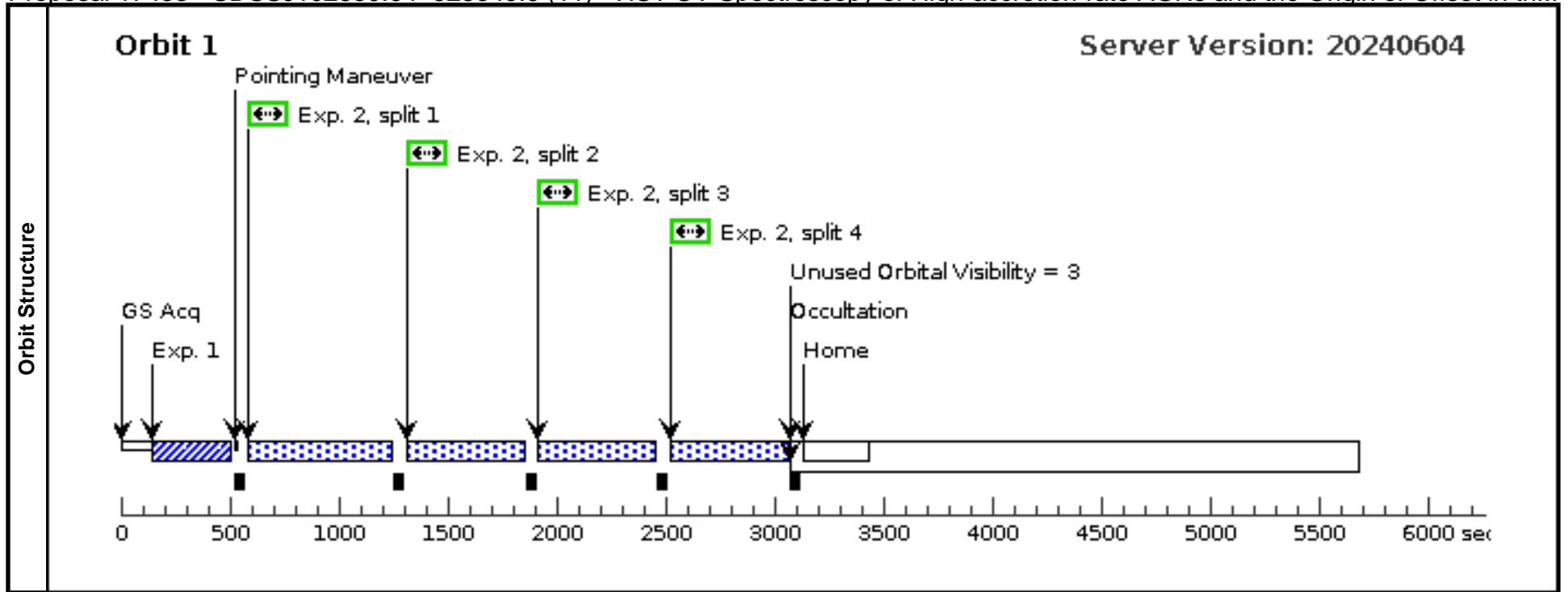
Visit	Proposal 17433, SDSSJ085946.35+274534.8 (09), completed Diagnostic Status: No Diagnostics Scientific Instruments: STIS/NUV-MAMA, STIS/CCD Special Requirements: (none)									
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(9)	SDSSJ085946.35+274534.8	RA: 08 59 46.3539 (134.9431412d) Dec: +27 45 34.86 (27.75968d) Equinox: J2000	Proper Motion RA: -6.780358729638599E-7 sec of time/yr Proper Motion Dec: 1.0E-6 arcsec/yr Epoch of Position: 2015.5 Redshift: 0.244	V=17.80+/-0.1 FUV=18.5, NUV=18.4	Reference Frame: ICRS				
Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. Category=GALAXY Description=[QSO, QUASAR] Extended=NO										
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	ACQ STIS (1890059)	(9) SDSSJ085946.35 +274534.8	STIS/CCD, ACQ, F28X50LP	MIRROR	ACQTYPE=POINT			5 Secs (5 Secs)	
	2	EXP01 STIS (1890060)	(9) SDSSJ085946.35 +274534.8	STIS/NUV-MAMA, TIME-TAG, 52X0.2	G230L 2376 A	BUFFER-TIME=30 0			2154 Secs (2105 Secs)	[1]
									[=>2105.0 Secs]	[1]
Orbit Structure	Orbit 1 Server Version: 20240604									
	<p>The diagram illustrates the orbit structure for Orbit 1, spanning from 0 to 6000 seconds. Key events are marked with arrows: GS Acq at approximately 200 seconds, Exp. 1 at 400 seconds, Pointing Maneuver at 600 seconds, Exp. 2 (Auto-WAVECAL) at 700 seconds, Exp. 2 at 800 seconds, Occultation at 3000 seconds, and Home at 3200 seconds. A note indicates 'Unused Orbital Visibility = 0'. The timeline is divided into segments: a blue hatched segment from 400s to 600s, a green segment from 600s to 800s, a blue dotted segment from 800s to 3000s, and a white segment from 3000s to 6000s. A green box with a double-headed arrow highlights the Exp. 2 event at 800s.</p>									

Proposal 17433 - SDSSJ093302.68+385228.0 (10) - HST UV Spectroscopy of High-accretion-rate AGNs and the Origin of Offset in th...

Visit		Proposal 17433, SDSSJ093302.68+385228.0 (10), completed Mon Oct 28 22:00:29 GMT 2024							
Fixed Targets		Diagnostic Status: No Diagnostics Scientific Instruments: COS/FUV, COS/NUV Special Requirements: (none)							
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
(10)	SDSSJ093302.68+385228.0	RA: 09 33 2.6852 (143.2611883d) Dec: +38 52 28.01 (38.87445d) Equinox: J2000	Proper Motion RA: 9.162647884496686E-6 sec of time/yr Proper Motion Dec: -2.1100008780194912E-4 arcsec/yr Epoch of Position: 2015.5 Redshift: 0.177	V=17.72+/-0.1 FUV=18.3, NUV=18.2	Reference Frame: ICRS				
<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> Category=GALAXY Description=[QSO, QUASAR] Extended=NO									
#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	ACQ/IMAG E COS/NUV (1890127)	(10) SDSSJ093302.68+385228.0	COS/NUV, ACQ/IMAGE, PSA	MIRRORB				33 Secs (33 Secs) [==>]	[1]
2	EXP01 COS /FUV (1890062)	(10) SDSSJ093302.68+385228.0	COS/FUV, TIME-TAG, PSA	G140L 1280 A	BUFFER-TIME=20 32; FP-POS=ALL			467 Secs (1900 Secs) [==>475.0 Secs (Split 1)] [==>475.0 Secs (Split 2)] [==>475.0 Secs (Split 3)] [==>475.0 Secs (Split 4)]	[1]



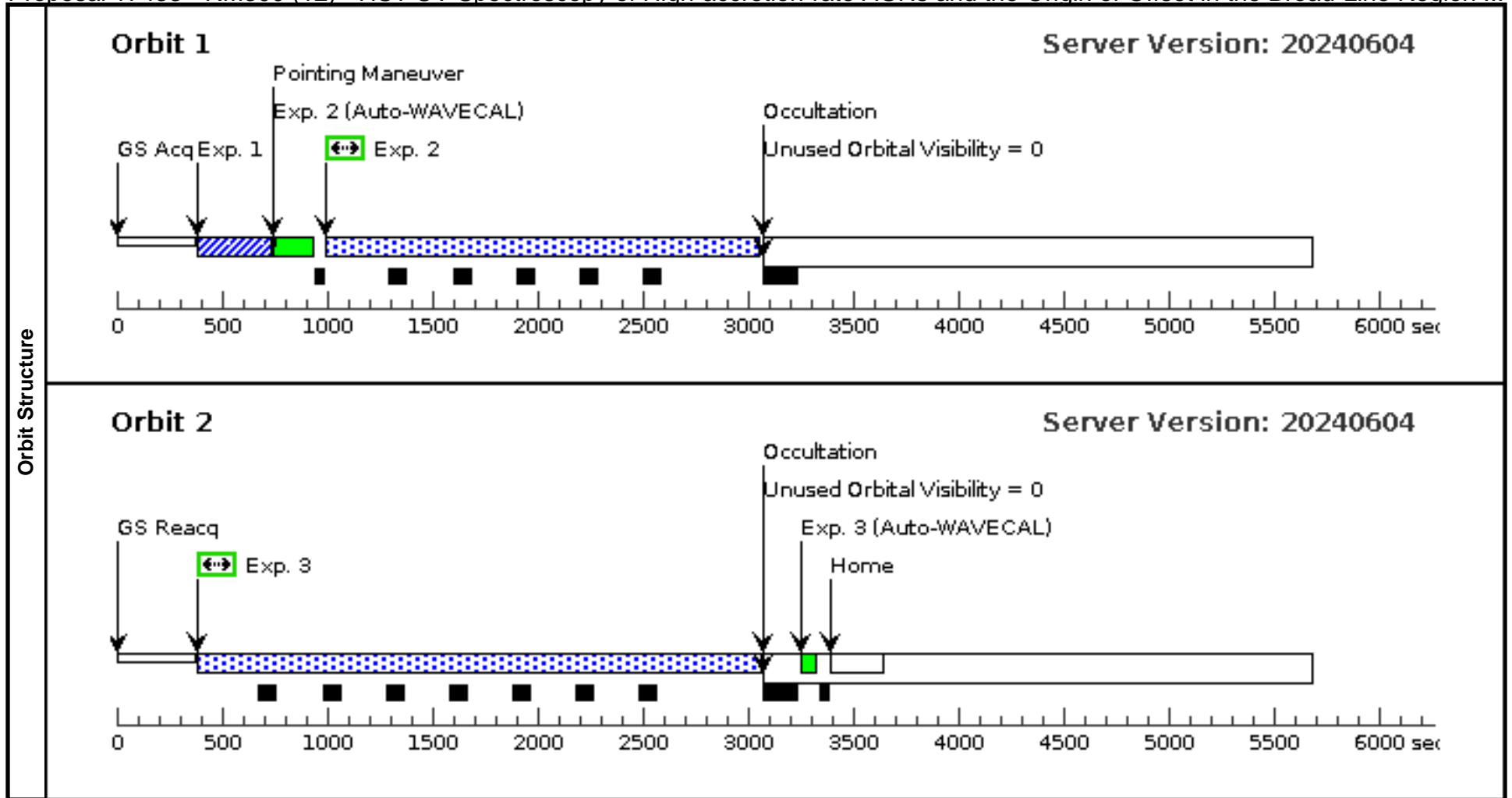
Visit	Proposal 17433, SDSSJ102339.64+523349.6 (11), implementation Diagnostic Status: No Diagnostics Scientific Instruments: COS/FUV, COS/NUV Special Requirements: (none)									
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous			
		(11)	SDSSJ102339.64+523349.6	RA: 10 23 39.6569 (155.9152371d) Dec: +52 33 49.67 (52.56380d) Equinox: J2000	Proper Motion RA: 3.301102718356809E-5 sec of time/yr Proper Motion Dec: 1.089999999999998E-4 arcsec/yr Epoch of Position: 2015.5 Redshift: 0.136	V=17.27+/-0.1 FUV=18.2, NUV=18.3	Reference Frame: ICRS			
	<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> Category=GALAXY Description=[QSO, QUASAR] Extended=NO									
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	ACQ/IMAG E COS/NUV (1890126)	(11) SDSSJ102339.64+523349.6	COS/NUV, ACQ/IMAGE, PSA	MIRRORB				36 Secs (36 Secs) [==>]	[1]
2	EXP01 COS /FUV (1890065)	(11) SDSSJ102339.64+523349.6	COS/FUV, TIME-TAG, PSA	G140L 1280 A	BUFFER-TIME=19 12; FP-POS=ALL			503 Secs (1932 Secs) [==>483.0 Secs (Split 1)] [==>483.0 Secs (Split 2)] [==>483.0 Secs (Split 3)] [==>483.0 Secs (Split 4)]	[1]	



Proposal 17433 - RM300 (12) - HST UV Spectroscopy of High-accretion-rate AGNs and the Origin of Offset in the Broad-Line Region ...

Mon Oct 28 22:00:29 GMT 2024

Visit	Proposal 17433, RM300 (12), completed Diagnostic Status: No Diagnostics Scientific Instruments: STIS/NUV-MAMA, STIS/CCD Special Requirements: (none)									
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous			
		(12)	RM300	RA: 14 19 41.1083 (214.9212846d) Dec: +53 36 49.62 (53.61378d) Equinox: J2000	Proper Motion RA: 3.618636698386317E-5 sec of time/yr Proper Motion Dec: 6.8E-5 arcsec/yr Epoch of Position: 2015.5 Redshift: 0.646	V=19.5+/-0.1 NUV=20.0	Reference Frame: ICRS			
	<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> Category=GALAXY Description=[QSO, QUASAR] Extended=NO									
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	ACQ STIS (1890077)	(12) RM300	STIS/CCD, ACQ, F28X50LP	MIRROR	ACQTYPE=POINT			30 Secs (30 Secs)	
									[==>]	[1]
	2	EXP01 STIS (1890078)	(12) RM300	STIS/NUV-MAMA, TIME-TAG, 52X0.2	G230L 2376 A	BUFFER-TIME=30 0			2233 Secs (2051 Secs)	
								[==>2051.0 Secs]	[1]	
3	EXP02 STIS (1890078)	(12) RM300	STIS/NUV-MAMA, TIME-TAG, 52X0.2	G230L 2376 A	BUFFER-TIME=30 0			2903 Secs (2670 Secs)		
								[==>2670.0 Secs]	[2]	

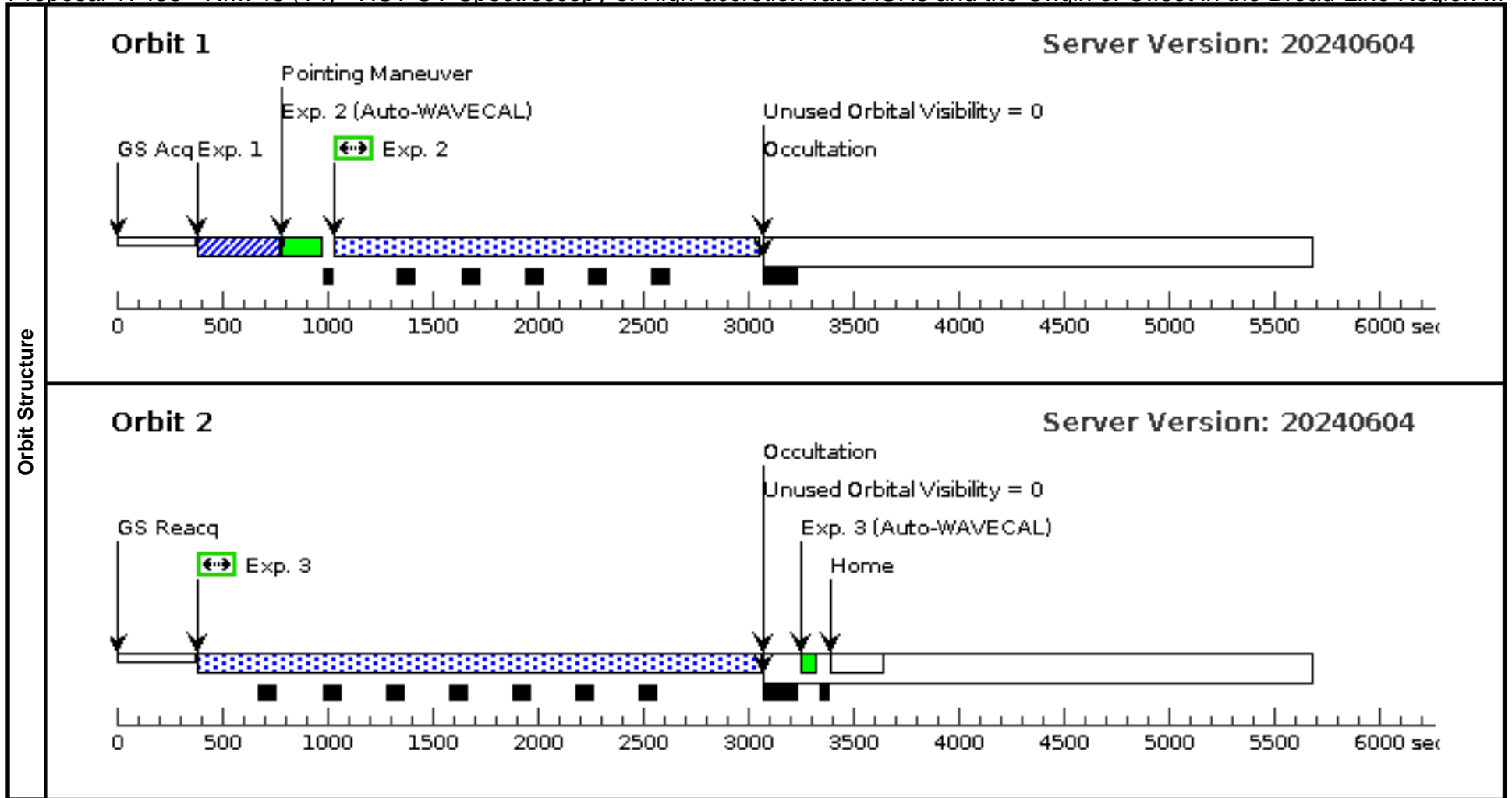


Visit	Proposal 17433, RM316 (13), implementation Diagnostic Status: No Diagnostics Scientific Instruments: STIS/NUV-MAMA, STIS/CCD Special Requirements: (none)									
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous			
(13)		RM316	RA: 14 20 52.4387 (215.2184946d) Dec: +52 56 22.39 (52.93955d) Equinox: J2000	Proper Motion RA: -1.803125505360705E-5 sec of time/yr Proper Motion Dec: 8.0E-6 arcsec/yr Epoch of Position: 2015.5 Redshift: 0.676	V=18.30+/-0.1 NUV=18.3	Reference Frame: ICRS				
Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. Category=GALAXY Description=[QSO, QUASAR] Extended=NO										
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	ACQ STIS (1890068)	(13) RM316	STIS/CCD, ACQ, F28X50LP	MIRROR	ACQTYPE=POINT			5 Secs (5 Secs)	
	2	EXP01 STIS (1890069)	(13) RM316	STIS/NUV-MAMA, TIME-TAG, 52X0.2	G230L 2376 A	BUFFER-TIME=30 0			2333 Secs (2151 Secs)	[1]
Orbit Structure	Server Version: 20240604									
	<p>The diagram shows the timeline for Orbit 1. Key events are marked with arrows: GS Acq (around 200s), Exp. 1 (around 400s), Pointing Maneuver (around 600s), Exp. 2 (Auto-WAVECAL) (around 700s), Exp. 2 (around 800s, highlighted in a green box), Occultation (around 3100s), and Home (around 3300s). A period from approximately 3100s to 5700s is labeled 'Unused Orbital Visibility = 0'. The x-axis is labeled 'sec' and ranges from 0 to 6000 with major ticks every 500 units.</p>									

Proposal 17433 - RM746 (14) - HST UV Spectroscopy of High-accretion-rate AGNs and the Origin of Offset in the Broad-Line Region ...

Mon Oct 28 22:00:29 GMT 2024

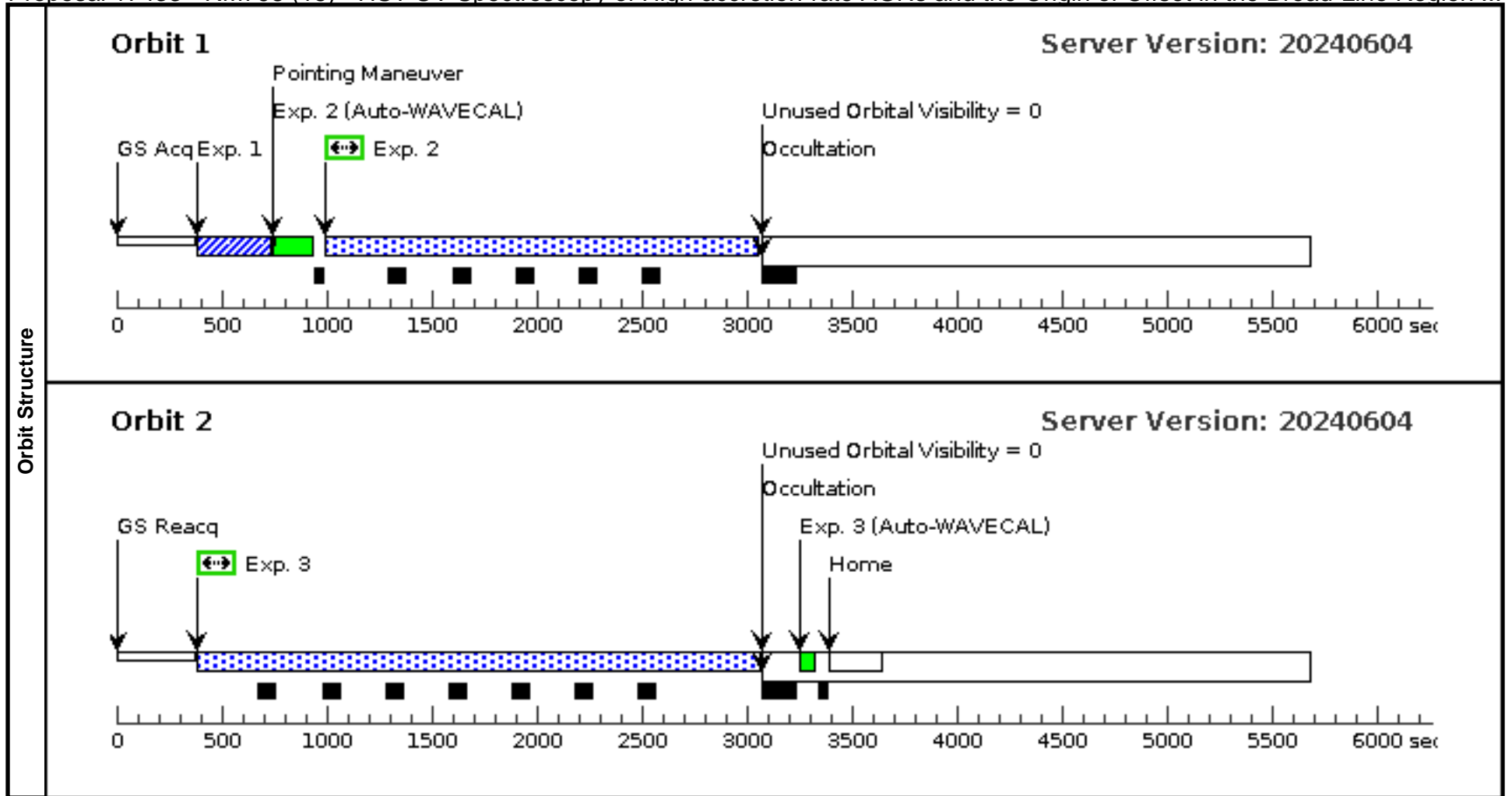
Visit	Proposal 17433, RM746 (14), completed Diagnostic Status: No Diagnostics Scientific Instruments: STIS/NUV-MAMA, STIS/CCD Special Requirements: (none)									
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous			
		(14)	RM746	RA: 14 17 20.2998 (214.3345825d) Dec: +51 40 32.28 (51.67563d) Equinox: J2000	Proper Motion RA: -2.6984341761293542E-5 sec of time/yr Proper Motion Dec: 2.3500000000000002E-4 arcsec/yr Epoch of Position: 2015.5 Redshift: 0.683	V=19.9+/-0.1 NUV=20.6	Reference Frame: ICRS			
	<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> Category=GALAXY Description=[QSO, QUASAR] Extended=NO									
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	ACQ STIS (1890071)	(14) RM746	STIS/CCD, ACQ, F28X50LP	MIRROR	ACQTYPE=POINT			40 Secs (40 Secs)	
									[==>]	[1]
	2	EXP01 STIS (1890073)	(14) RM746	STIS/NUV-MAMA, TIME-TAG, 52X0.2	G230L 2376 A	BUFFER-TIME=30 0			2193 Secs (2011 Secs)	
								[==>2011.0 Secs]	[1]	
3	EXP02 STIS (1890073)	(14) RM746	STIS/NUV-MAMA, TIME-TAG, 52X0.2	G230L 2376 A	BUFFER-TIME=30 0			2903 Secs (2670 Secs)		
								[==>2670.0 Secs]	[2]	



Proposal 17433 - RM798 (15) - HST UV Spectroscopy of High-accretion-rate AGNs and the Origin of Offset in the Broad-Line Region ...

Mon Oct 28 22:00:29 GMT 2024

Visit	Proposal 17433, RM798 (15), scheduling Diagnostic Status: No Diagnostics Scientific Instruments: STIS/NUV-MAMA, STIS/CCD Special Requirements: (none)									
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous			
		(15)	RM798	RA: 14 12 2.8741 (213.0119754d) Dec: +52 20 26.08 (52.34058d) Equinox: J2000	Proper Motion RA: -8.696603061408824E-5 sec of time/yr Proper Motion Dec: -3.2599996302451473E-4 arcsec/yr Epoch of Position: 2015.5 Redshift: 0.423	V=19.4+/-0.1 NUV=20.3	Reference Frame: ICRS			
	<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> Category=GALAXY Description=[QSO, QUASAR] Extended=NO									
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	ACQ STIS (1890081)	(15) RM798	STIS/CCD, ACQ, F28X50LP	MIRROR	ACQTYPE=POINT			30 Secs (30 Secs)	
									[==>]	[1]
	2	EXP01 STIS (1890083)	(15) RM798	STIS/NUV-MAMA, TIME-TAG, 52X0.2	G230L 2376 A	BUFFER-TIME=30 0			2233 Secs (2051 Secs)	
								[==>2051.0 Secs]	[1]	
3	EXP02 STIS (1890083)	(15) RM798	STIS/NUV-MAMA, TIME-TAG, 52X0.2	G230L 2376 A	BUFFER-TIME=30 0			2903 Secs (2670 Secs)		
								[==>2670.0 Secs]	[2]	



Proposal 17433 - RM822 (16) - HST UV Spectroscopy of High-accretion-rate AGNs and the Origin of Offset in the Broad-Line Region ...

Mon Oct 28 22:00:29 GMT 2024

Visit	Proposal 17433, RM822 (16), completed				
	Diagnostic Status: No Diagnostics				
	Scientific Instruments: STIS/NUV-MAMA, STIS/CCD				
	Special Requirements: (none)				

Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(16)	RM822	RA: 14 13 8.1018 (213.2837575d) Dec: +51 52 10.43 (51.86956d) Equinox: J2000	Proper Motion RA: 4.351202686702596E-5 sec of time/yr Proper Motion Dec: 2.12E-4 arcsec/yr Epoch of Position: 2015.5 Redshift: 0.2886	V=19.4+/-0.1 i=19.2	Reference Frame: ICRS
	<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i>					
	Category=GALAXY Description=[QSO, QUASAR] Extended=NO					

Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	ACQ STIS (1890084)	(16) RM822	STIS/CCD, ACQ, F28X50LP	MIRROR	ACQTYPE=POINT			20 Secs (20 Secs) [==>]	[1]
	2	(1890085)	(16) RM822	STIS/NUV-MAMA, TIME-TAG, 52X0.2	G230L 2376 A	BUFFER-TIME=30 0			2273 Secs (2091 Secs) [==>2091.0 Secs]	[1]

