



14135 - Are High-Redshift Spectroscopic Black Hole Mass Estimates Biased?

Cycle: 23, Proposal Category: GO

(UV Initiative)

(Availability Mode: SUPPORTED)

INVESTIGATORS

<i>Name</i>	<i>Institution</i>	<i>E-Mail</i>
Dr. Gordon T. Richards (PI) (Contact)	Drexel University	gtr@physics.drexel.edu
Dr. Yue Shen (CoI)	University of Illinois at Urbana - Champaign	shenyue@illinois.edu
Dr. Sarah Gallagher (CoI) (CSA Member)	The University of Western Ontario	sgalla4@uwo.ca
Prof. Joseph Hennawi (CoI) (ESA Member)	Max-Planck-Institut fur Astronomie, Heidelberg	joe@mpia.de
Dr. Paul C. Hewett (CoI) (ESA Member)	University of Cambridge	phewett@ast.cam.ac.uk
Prof. Karen Marie Leighly (CoI)	University of Oklahoma Norman Campus	leighly@nhn.ou.edu
Dr. Richard M. Plotkin (CoI)	Curtin University	richard.plotkin@curtin.edu.au
Dr. Ohad Shemmer (CoI)	University of North Texas	ohad.shemmer@unt.edu
Dr. Michael Vogeley (CoI)	Drexel University	vogeley@drexel.edu

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) SDSSJ002019.22-110609.2	STIS/CCD	1	24-Jan-2017 21:01:03.0	yes
02	(2) SDSSJ082024.21+233450.4	STIS/CCD	1	24-Jan-2017 21:01:04.0	yes
03	(3) SDSSJ082658.85+061142.6	STIS/CCD	1	24-Jan-2017 21:01:05.0	yes
04	(4) SDSSJ083332.92+164411.0	STIS/CCD	1	24-Jan-2017 21:01:05.0	yes
05	(5) SDSSJ083510.36+035901.1	STIS/CCD	1	24-Jan-2017 21:01:06.0	yes
06	(6) SDSSJ085116.14+424328.8	STIS/CCD	1	24-Jan-2017 21:01:06.0	yes

Proposal 14135 (STScI Edit Number: 1, Created: Tuesday, January 24, 2017 9:01:19 PM EST) - Overview

<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) SDSSJ091451.42+421957.0	STIS/CCD	1	24-Jan-2017 21:01:07.0	yes
08	(8) SDSSJ093502.52+433110.6	STIS/CCD	1	24-Jan-2017 21:01:08.0	yes
09	(9) SDSSJ100054.96+262242.4	STIS/CCD	1	24-Jan-2017 21:01:08.0	yes
10	(10) SDSSJ103320.65+274024.2	STIS/CCD	1	24-Jan-2017 21:01:09.0	yes
11	(11) SDSSJ111138.66+575030.0	STIS/CCD	1	24-Jan-2017 21:01:10.0	yes
12	(12) SDSSJ111941.12+595108.7	STIS/CCD	1	24-Jan-2017 21:01:10.0	yes
13	(13) SDSSJ112224.15+031802.6	STIS/CCD	1	24-Jan-2017 21:01:11.0	yes
14	(14) SDSSJ112614.93+310146.6	STIS/CCD	1	24-Jan-2017 21:01:11.0	yes
15	(15) SDSSJ113327.78+032719.1	STIS/CCD	1	24-Jan-2017 21:01:12.0	yes
16	(16) SDSSJ113923.66+002301.6	STIS/CCD	1	24-Jan-2017 21:01:12.0	yes
17	(17) SDSSJ123734.47+444731.7	STIS/CCD	1	24-Jan-2017 21:01:13.0	yes
18	(18) SDSSJ125415.55+480850.6	STIS/CCD	1	24-Jan-2017 21:01:14.0	yes
19	(19) SDSSJ131627.84+315825.7	STIS/CCD	1	24-Jan-2017 21:01:14.0	yes
20	(20) SDSSJ134701.54+215401.1	STIS/CCD	1	24-Jan-2017 21:01:15.0	yes
21	(21) SDSSJ140331.29+462804.8	STIS/CCD	1	24-Jan-2017 21:01:15.0	yes
22	(22) SDSSJ145334.13+311401.4	STIS/CCD	1	24-Jan-2017 21:01:16.0	yes
23	(23) SDSSJ152654.61+565512.3	STIS/CCD	1	24-Jan-2017 21:01:16.0	yes
24	(24) SDSSJ155837.77+081345.8	STIS/CCD	1	24-Jan-2017 21:01:17.0	yes
25	(25) SDSSJ234145.51-004640.5	STIS/CCD	1	24-Jan-2017 21:01:18.0	yes
26	(14) SDSSJ112614.93+310146.6	STIS/CCD	1	24-Jan-2017 21:01:18.0	yes

26 Total Orbits Used

ABSTRACT

Black hole (BH) masses estimated from single-epoch spectroscopy underlie our understanding of the build-up of BHs from high redshift to the present, but are currently based on a small sample of low-L,

low- z "reverberation mapped" (RM) AGNs. The existing sample of RM AGNs appears to be biased against quasars where a radiation line driven disk-wind dominates the broad emission line region (BELR). As such, we propose UV spectroscopy of 25 SDSS quasars at $z \sim 0.5$ that have luminosities comparable to the existing RM quasars, but that are more representative of the BELR properties of the average quasar. These data will enable us to confirm the bias in the RM quasar sample and lay the groundwork for reverberation mapping of quasars where winds affect the BELR. This work is important because successful RM measurements of local AGNs have not been extended to the high- z , high- L regime, requiring extrapolation methods from low redshift. The best tool for this work comes from UV observations of the CIV emission line region where it is possible to distinguish between virial- and wind-dominated BELRs. These measurements will further enable us to inter-compare BH masses computed using measurements from CIV, MgII, and Hbeta for each quasar. For this work we require spectral coverage of all the optical and UV broad emission lines (Ly-alpha to H-beta) to characterize the diversity of quasar spectra, which we will then relate to BH mass, accretion rate and accretion disk physics. These data will provide a powerful UV legacy database for investigations of the BELR structures of all quasars in addition to more robust bootstrapping of BH mass estimates from low to high redshift.

OBSERVING DESCRIPTION

Each quasar will be observed with STIS/CCD and G230LB grating which covers $1680 < \lambda < 3060$ (observed; $1120 < \lambda < 2040$ at $z \sim 0.5$) using the 52"x0.2" slit at position E1. CCD observations are preferred over MAMA observations since we do not require time resolution and the CCD as better throughput at $\lambda > 2400$ Angstroms. STIS is preferred over COS because of the desire to cover not just CIV at 1550 Angstroms, but all of the UV lines between Ly-alpha (1216 Ang) and CIII] (1909 Ang) which STIS can do at one time, but COS needs multiple grating tilts for.

However, the observations could be done with COS if it became necessary (with lower S/N at CIII]).

Targets were selected from the SDSS and matched to GALEX catalogs in order to obtain UV fluxes to estimate HST exposure times. One orbit (≥ 54 minutes) is enough for each of our observations. We allow for 18 minutes of overhead for each object, which includes 6 minutes for guide star acquisition, 6 minutes for target acquisition, 5 minutes for CCD overhead and 1 minute for CR-splitting. Target acquisition exposure times (with STIS/CCD) were calculated to achieve $S/N > 40$ over a 3×3 pixel checkbox, based on their SDSS optical magnitudes. No "peak-up" should be needed for the 0.2" slit. The remaining 2160 seconds allows us to achieve a S/N of 7 in the continuum at rest-frame 1550 Angstroms for the faintest quasar in our sample. Moderate S/N is needed because we are trying to measure accurate line profiles and precise redshifts, in contrast to the accuracy of the redshift that one gets from a $S/N \sim 3$ spectrum. Our expected S/N also means that individual CR-split exposures will not be read-noise limited.

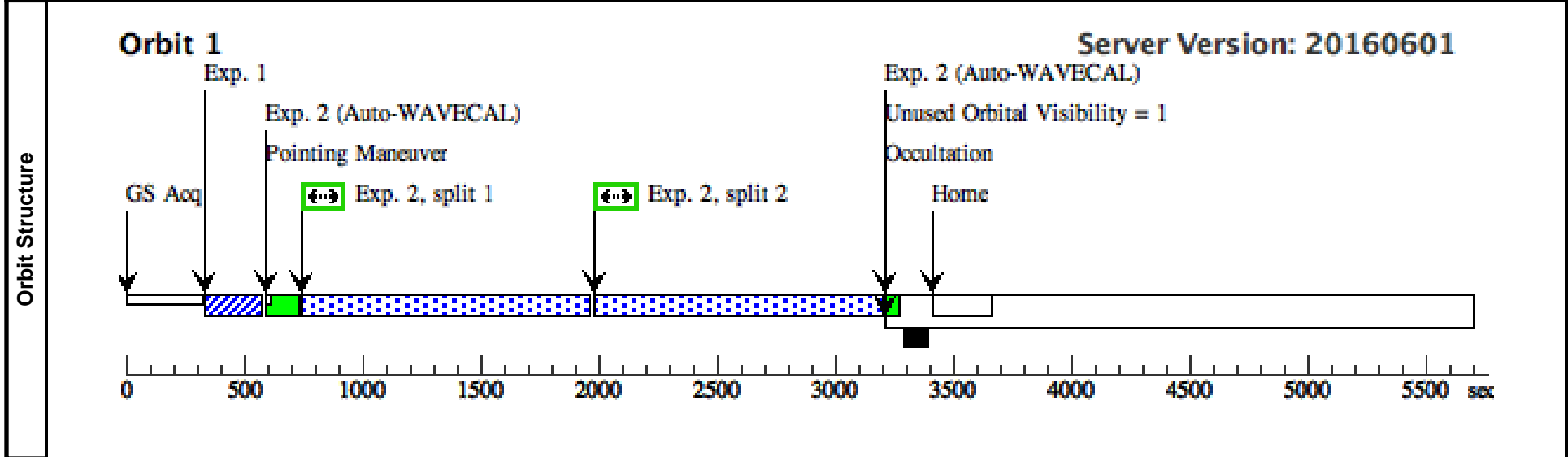
Proposal 14135 - Visit 01 - Are High-Redshift Spectroscopic Black Hole Mass Estimates Biased?

Wed Jan 25 02:01:19 GMT 2017

Visit	Proposal 14135, Visit 01, completed				
	Diagnostic Status: No Diagnostics				
	Scientific Instruments: STIS/CCD				
	Special Requirements: (none)				

Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(1)	SDSSJ002019.22-110609.2	RA: 00 20 19.2200 (5.0800833d) Dec: -11 06 9.20 (-11.10256d) Equinox: J2000	Redshift: 0.492	V=17.37 NUV = 18.12, g=17.62	Reference Frame: ICRS

Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	TA (STIS.ta.720 315)	(1) SDSSJ002019.22 -110609.2	STIS/CCD, ACQ, F28X50LP	MIRROR				4 Secs (4 Secs) [==>]	[1]
	2	G230LB (STIS.sp.72 0320)	(1) SDSSJ002019.22 -110609.2	STIS/CCD, ACCUM, 52X0.2E1	G230LB 2375 A	CR-SPLIT=2			2380 Secs (2380 Secs) [==>1190.0 Secs (Split 1)] [==>1190.0 Secs (Split 2)]	[1]



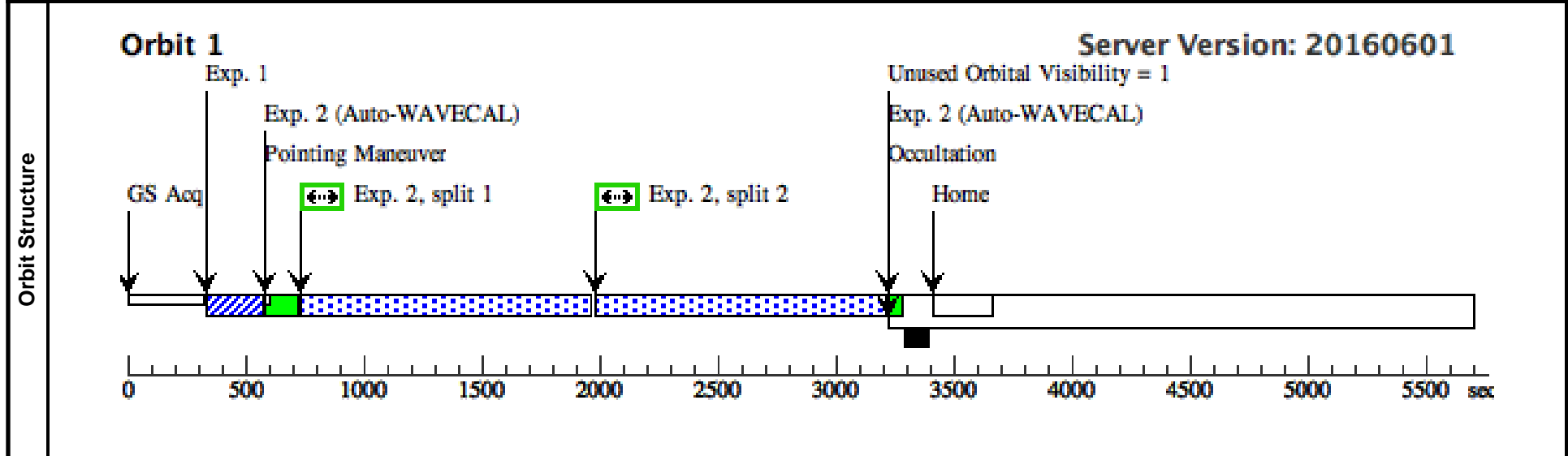
Proposal 14135 - Visit 02 - Are High-Redshift Spectroscopic Black Hole Mass Estimates Biased?

Wed Jan 25 02:01:20 GMT 2017

Visit	Proposal 14135, Visit 02, completed				
	Diagnostic Status: No Diagnostics				
	Scientific Instruments: STIS/CCD				
	Special Requirements: (none)				

Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(2)	SDSSJ082024.21+233450.4	RA: 08 20 24.2100 (125.1008750d) Dec: +23 34 50.40 (23.58067d) Equinox: J2000	Redshift: 0.471	V=17.25 NUV = 17.92, g=17.37	Reference Frame: ICRS
	<i>Comments: COS coverage of Ly-alpha emission, but not the CIV emission line, so not a duplicate.</i>					

Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	TA (STIS.ta.720 314)	(2) SDSSJ082024.21 +233450.4	STIS/CCD, ACQ, F28X50LP	MIRROR				3 Secs (3 Secs) [==>]	[1]
	2	G230LB (STIS.sp.72 0319)	(2) SDSSJ082024.21 +233450.4	STIS/CCD, ACCUM, 52X0.2E1	G230LB 2375 A	CR-SPLIT=2			2388 Secs (2388 Secs) [==>(Split 1)] [==>(Split 2)]	[1]



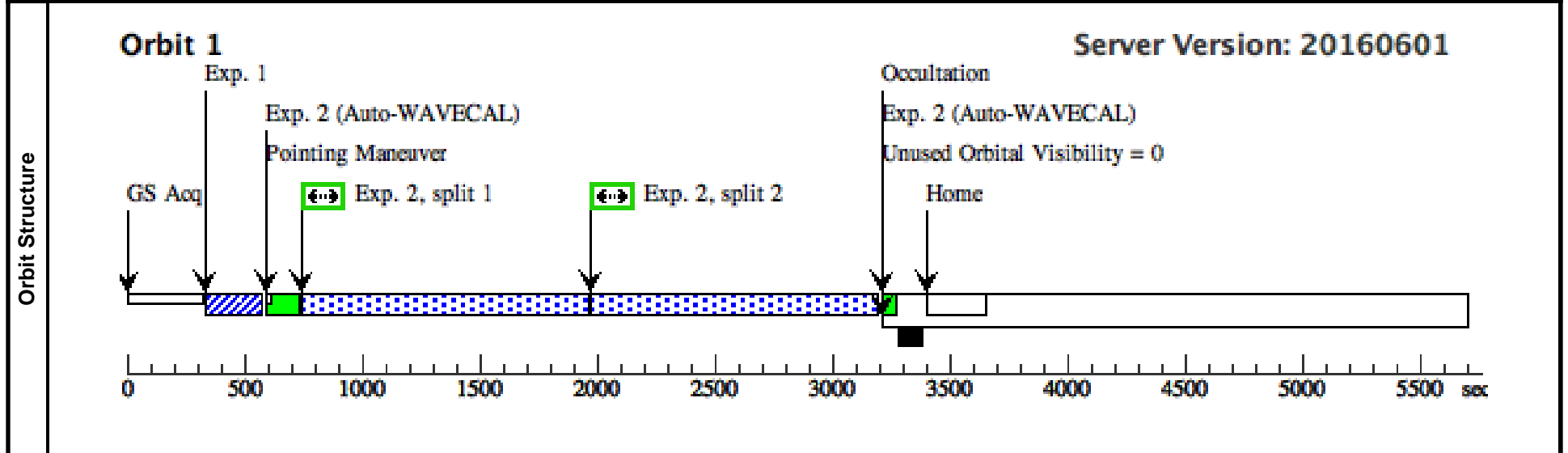
Proposal 14135 - Visit 03 - Are High-Redshift Spectroscopic Black Hole Mass Estimates Biased?

Wed Jan 25 02:01:20 GMT 2017

Visit	Proposal 14135, Visit 03, completed				
	Diagnostic Status: No Diagnostics				
	Scientific Instruments: STIS/CCD				
	Special Requirements: (none)				

Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(3)	SDSSJ082658.85+061142.6	RA: 08 26 58.8500 (126.7452083d) Dec: +06 11 42.60 (6.19517d) Equinox: J2000	Redshift: 0.496	V=17.36 NUV = 18.35, g=17.62	Reference Frame: ICRS

Exposures	#	Label (ETC Run)	Target	Config, Mode, Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	TA (STIS.ta.720 326)	(3) SDSSJ082658.85 +061142.6	STIS/CCD, ACQ, F28X50LP	MIRROR				4 Secs (4 Secs) [==>]	[1]
	2	G230LB (STIS.sp.72 0331)	(3) SDSSJ082658.85 +061142.6	STIS/CCD, ACCUM, 52X0.2E1	G230LB 2375 A	CR-SPLIT=2			2376 Secs (2376 Secs) [==>(Split 1)] [==>(Split 2)]	[1]



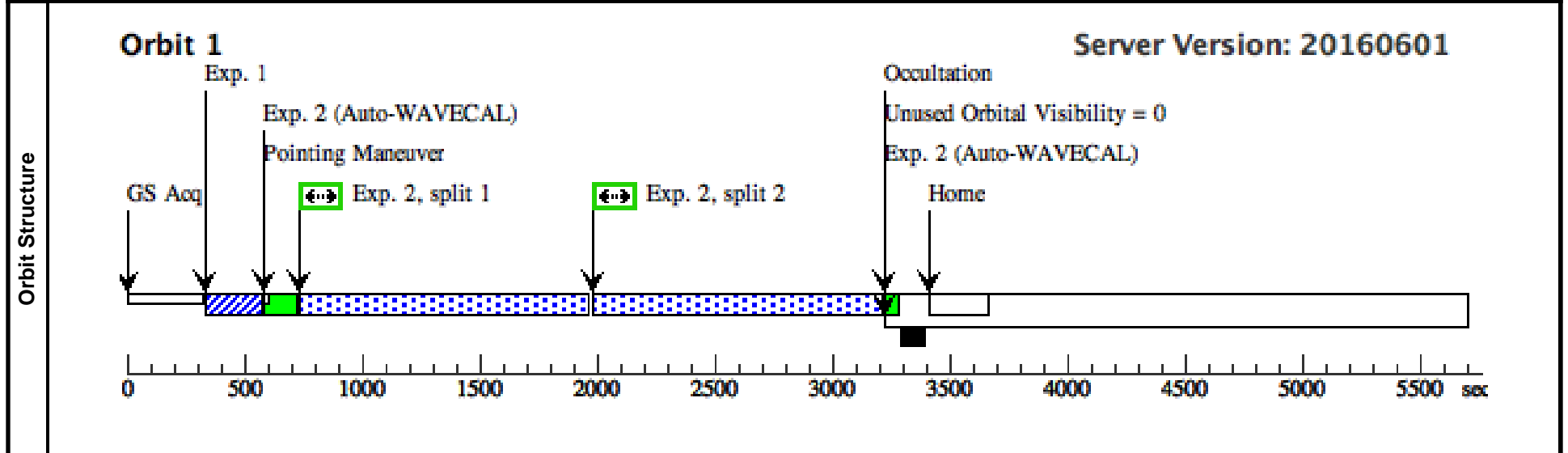
Proposal 14135 - Visit 04 - Are High-Redshift Spectroscopic Black Hole Mass Estimates Biased?

Wed Jan 25 02:01:20 GMT 2017

Visit	Proposal 14135, Visit 04, completed				
	Diagnostic Status: No Diagnostics				
	Scientific Instruments: STIS/CCD				
	Special Requirements: (none)				

Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(4)	SDSSJ083332.92+16441.0	RA: 08 33 32.9200 (128.3871667d) Dec: +16 44 11.00 (16.73639d) Equinox: J2000	Redshift: 0.461	V=17.21 NUV = 18.15, g=17.45	Reference Frame: ICRS

Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	TA (STIS.ta.720 332)	(4) SDSSJ083332.92 +164411.0	STIS/CCD, ACQ, F28X50LP	MIRROR				3 Secs (3 Secs) [==>]	[1]
	2	G230LB (STIS.sp.72 0335)	(4) SDSSJ083332.92 +164411.0	STIS/CCD, ACCUM, 52X0.2E1	G230LB 2375 A	CR-SPLIT=2			2388 Secs (2388 Secs) [==>(Split 1)] [==>(Split 2)]	[1]



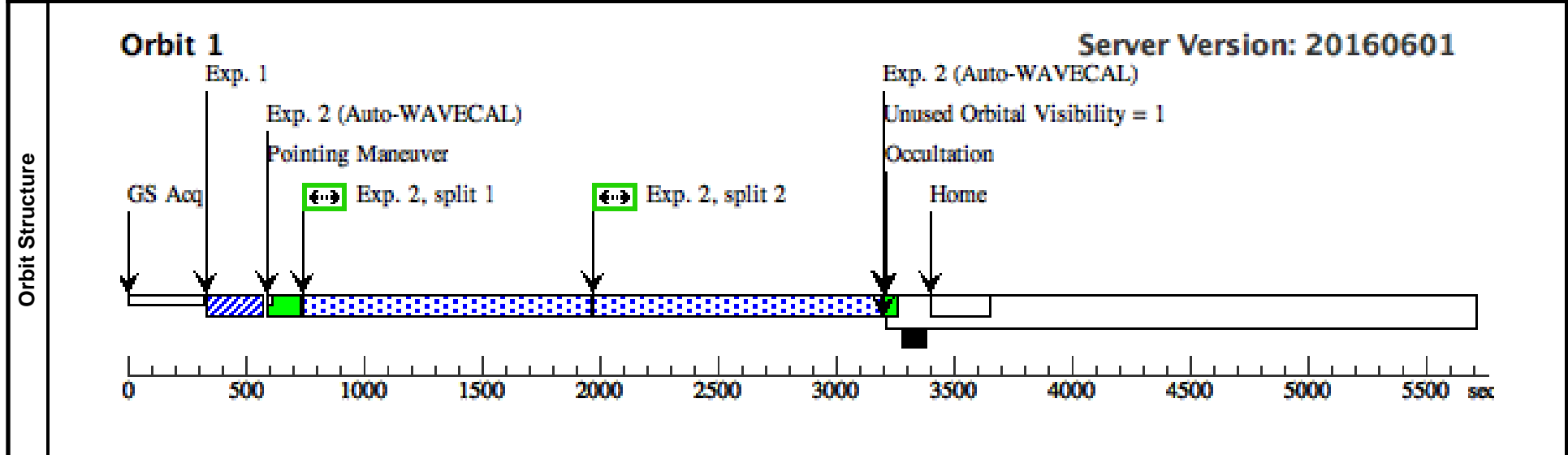
Proposal 14135 - Visit 05 - Are High-Redshift Spectroscopic Black Hole Mass Estimates Biased?

Wed Jan 25 02:01:20 GMT 2017

Visit	Proposal 14135, Visit 05, completed				
	Diagnostic Status: No Diagnostics				
	Scientific Instruments: STIS/CCD				
	Special Requirements: (none)				

Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(5)	SDSSJ083510.36+035901.1	RA: 08 35 10.3600 (128.7931667d) Dec: +03 59 1.10 (3.98364d) Equinox: J2000	Redshift: 0.492	V=17.33 NUV = 18.48, g=17.49	Reference Frame: ICRS

Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	TA (STIS.ta.720 338)	(5) SDSSJ083510.36 +035901.1	STIS/CCD, ACQ, F28X50LP	MIRROR				4 Secs (4 Secs) [==>]	[1]
	2	G230LB (STIS.sp.72 0341)	(5) SDSSJ083510.36 +035901.1	STIS/CCD, ACCUM, 52X0.2E1	G230LB 2375 A	CR-SPLIT=2			2372 Secs (2372 Secs) [==>(Split 1)] [==>(Split 2)]	[1]



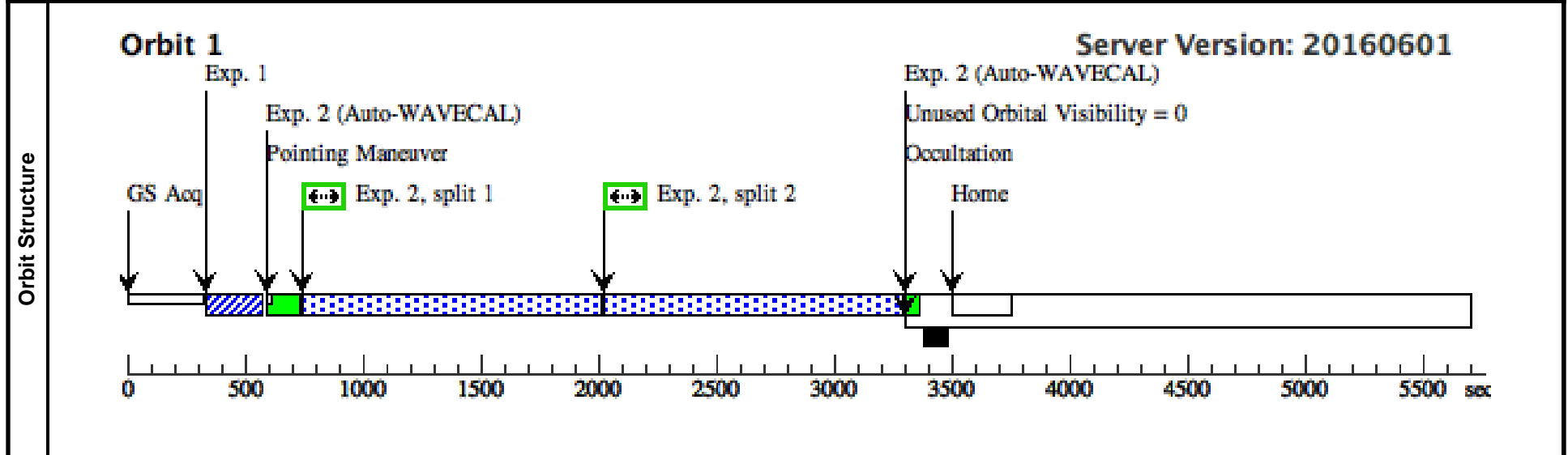
Proposal 14135 - Visit 06 - Are High-Redshift Spectroscopic Black Hole Mass Estimates Biased?

Wed Jan 25 02:01:20 GMT 2017

Visit	Proposal 14135, Visit 06, completed				
	Diagnostic Status: No Diagnostics				
	Scientific Instruments: STIS/CCD				
	Special Requirements: (none)				

Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(6)	SDSSJ085116.14+424328.8	RA: 08 51 16.1400 (132.8172500d) Dec: +42 43 28.80 (42.72467d) Equinox: J2000	Redshift: 0.483	V=17.44 NUV = 17.85, g=17.51	Reference Frame: ICRS
	<i>Comments: Recent COS coverage of the Ly-alpha emission line, but not of the CIV emission line, so no duplicate.</i>					

Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	TA (STIS.ta.720 344)	(6) SDSSJ085116.14 +424328.8	STIS/CCD, ACQ, F28X50LP	MIRROR				4 Secs (4 Secs) [==>]	[1]
	2	G230LB (STIS.sp.72 0351)	(6) SDSSJ085116.14 +424328.8	STIS/CCD, ACCUM, 52X0.2E1	G230LB 2375 A	CR-SPLIT=2			2470 Secs (2470 Secs) [==>(Split 1)] [==>(Split 2)]	[1]



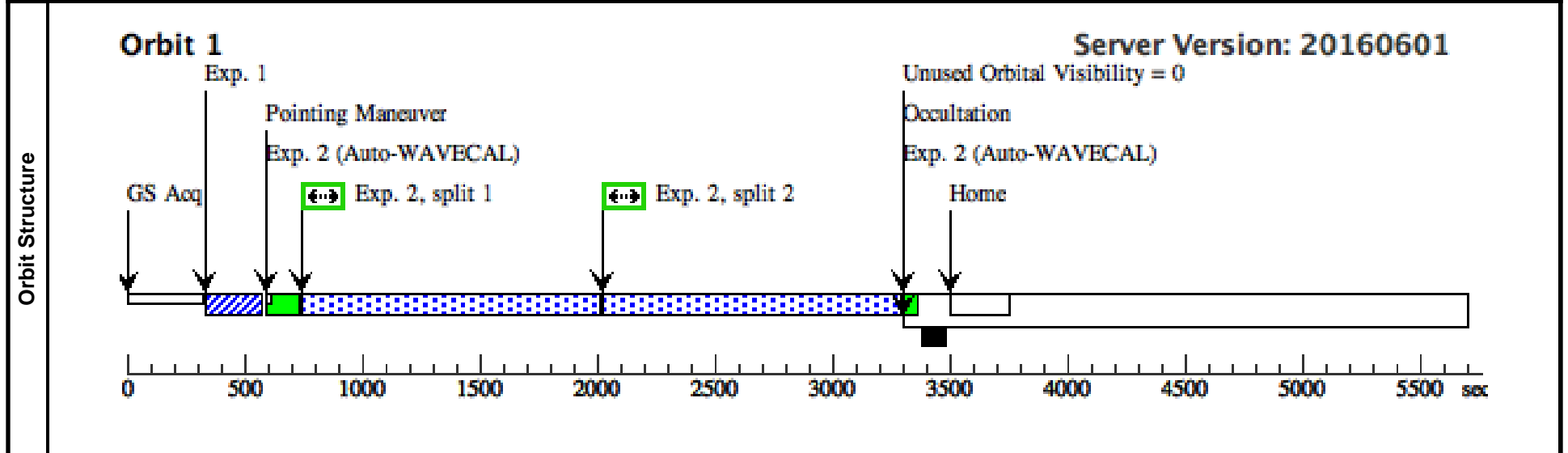
Proposal 14135 - Visit 07 - Are High-Redshift Spectroscopic Black Hole Mass Estimates Biased?

Wed Jan 25 02:01:20 GMT 2017

Visit	Proposal 14135, Visit 07, completed				
	Diagnostic Status: No Diagnostics				
	Scientific Instruments: STIS/CCD				
	Special Requirements: (none)				

Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(7)	SDSSJ091451.42+421957.0	RA: 09 14 51.4200 (138.7142500d) Dec: +42 19 57.00 (42.33250d) Equinox: J2000	Redshift: 0.550	V=17.37 NUV = 17.80, g=17.56	Reference Frame: ICRS

Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	TA (STIS.ta.720 354)	(7) SDSSJ091451.42 +421957.0	STIS/CCD, ACQ, F28X50LP	MIRROR				4 Secs (4 Secs) [==>]	[1]
	2	G230LB (STIS.sp.72 0356)	(7) SDSSJ091451.42 +421957.0	STIS/CCD, ACCUM, 52X0.2E1	G230LB 2375 A	CR-SPLIT=2			2470 Secs (2470 Secs) [==>(Split 1)] [==>(Split 2)]	[1]



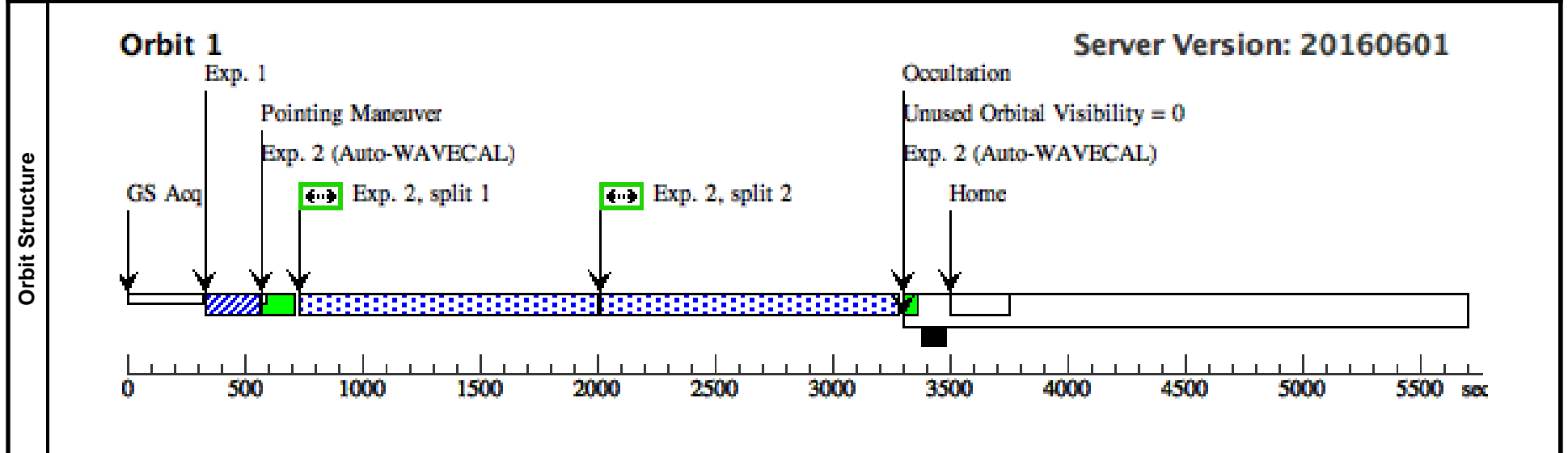
Proposal 14135 - Visit 08 - Are High-Redshift Spectroscopic Black Hole Mass Estimates Biased?

Wed Jan 25 02:01:20 GMT 2017

Visit	Proposal 14135, Visit 08, completed				
	Diagnostic Status: No Diagnostics				
	Scientific Instruments: STIS/CCD				
	Special Requirements: (none)				

Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(8)	SDSSJ093502.52+433110.6	RA: 09 35 2.5200 (143.7605000d) Dec: +43 31 10.60 (43.51961d) Equinox: J2000	Redshift: 0.459	V=15.91 NUV = 16.10, g=15.7	Reference Frame: ICRS

Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	TA (STIS.ta.720 358)	(8) SDSSJ093502.52 +433110.6	STIS/CCD, ACQ, F28X50LP	MIRROR				1 Secs (1 Secs) [==>]	[1]
	2	G230LB (STIS.sp.72 0359)	(8) SDSSJ093502.52 +433110.6	STIS/CCD, ACCUM, 52X0.2E1	G230LB 2375 A	CR-SPLIT=2			2482 Secs (2482 Secs) [==>(Split 1)] [==>(Split 2)]	[1]



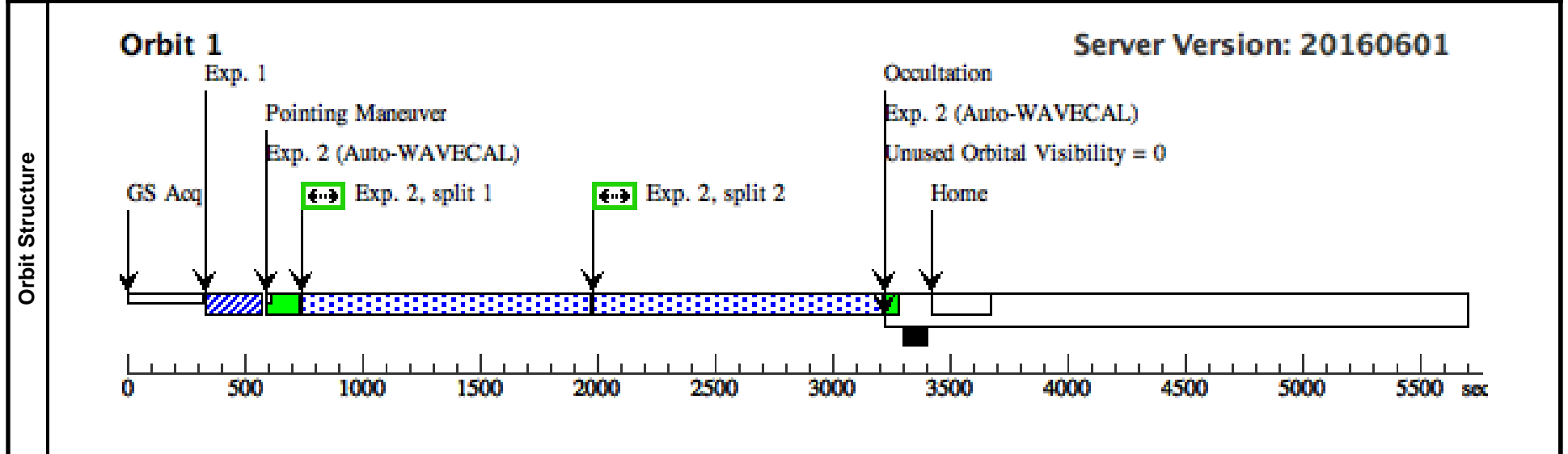
Proposal 14135 - Visit 09 - Are High-Redshift Spectroscopic Black Hole Mass Estimates Biased?

Wed Jan 25 02:01:20 GMT 2017

Visit	Proposal 14135, Visit 09, completed				
	Diagnostic Status: No Diagnostics				
	Scientific Instruments: STIS/CCD				
	Special Requirements: (none)				

Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(9)	SDSSJ100054.96+26224.24	RA: 10 00 54.9600 (150.2290000d) Dec: +26 22 42.40 (26.37844d) Equinox: J2000	Redshift: 0.506	V=17.49 NUV = 18.32, g=17.71	Reference Frame: ICRS

Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	TA (STIS.ta.720 360)	(9) SDSSJ100054.96 +262242.4	STIS/CCD, ACQ, F28X50LP	MIRROR				4 Secs (4 Secs) [==>]	[1]
	2	G230LB (STIS.sp.72 0362)	(9) SDSSJ100054.96 +262242.4	STIS/CCD, ACCUM, 52X0.2E1	G230LB 2375 A	CR-SPLIT=2			2392 Secs (2392 Secs) [==>(Split 1)] [==>(Split 2)]	[1]



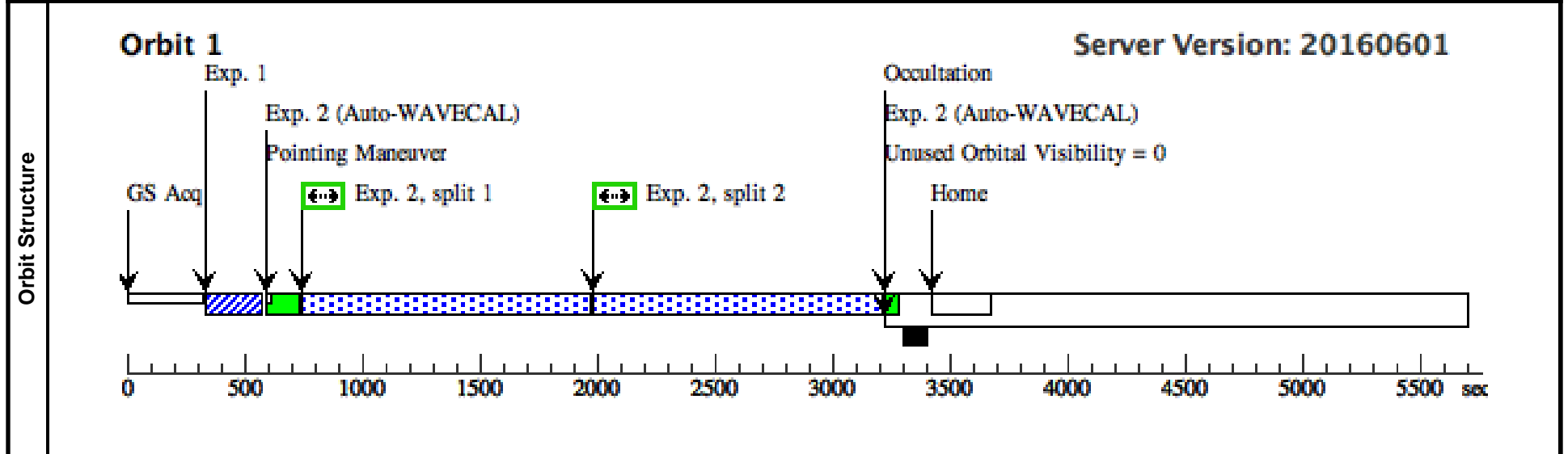
Proposal 14135 - Visit 10 - Are High-Redshift Spectroscopic Black Hole Mass Estimates Biased?

Wed Jan 25 02:01:20 GMT 2017

Visit	Proposal 14135, Visit 10, completed				
	Diagnostic Status: No Diagnostics				
	Scientific Instruments: STIS/CCD				
	Special Requirements: (none)				

Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(10)	SDSSJ103320.65+274024.2	RA: 10 33 20.6500 (158.3360417d) Dec: +27 40 24.20 (27.67339d) Equinox: J2000	Redshift: 0.536	V=17.37 NUV = 18.30, g=17.56	Reference Frame: ICRS

Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	TA (STIS.ta.720 363)	(10) SDSSJ103320.6 5+274024.2	STIS/CCD, ACQ, F28X50LP	MIRROR				4 Secs (4 Secs) [==>]	[1]
	2	G230LB (STIS.sp.72 0364)	(10) SDSSJ103320.6 5+274024.2	STIS/CCD, ACCUM, 52X0.2E1	G230LB 2375 A	CR-SPLIT=2			2392 Secs (2392 Secs) [==>(Split 1)] [==>(Split 2)]	[1]



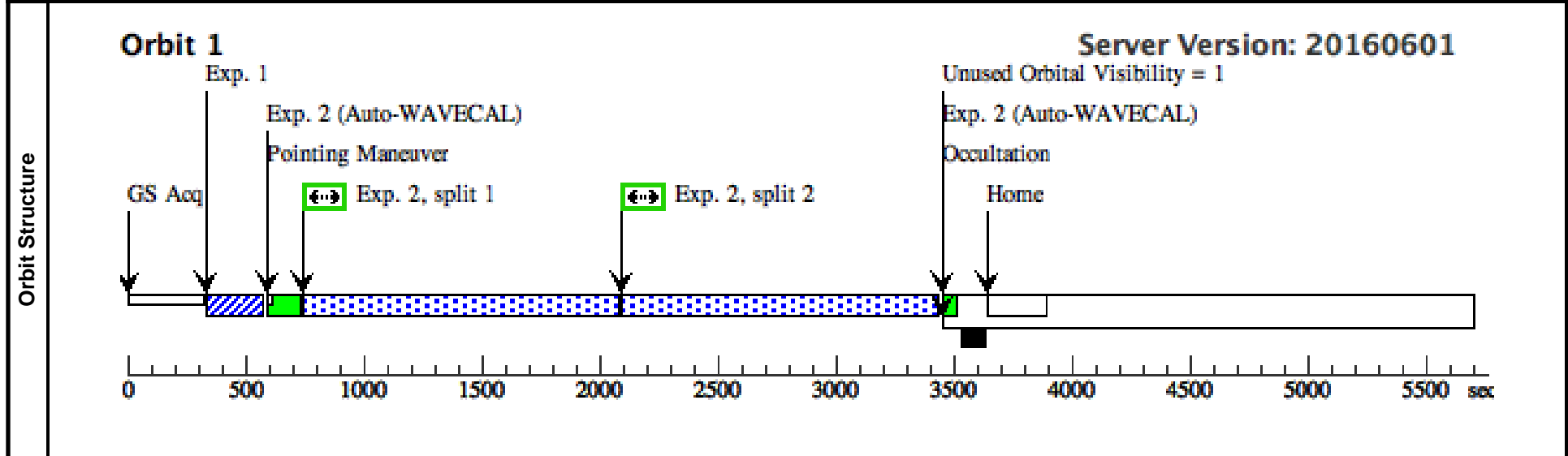
Proposal 14135 - Visit 11 - Are High-Redshift Spectroscopic Black Hole Mass Estimates Biased?

Wed Jan 25 02:01:20 GMT 2017

Visit	Proposal 14135, Visit 11, completed				
	Diagnostic Status: No Diagnostics				
	Scientific Instruments: STIS/CCD				
	Special Requirements: (none)				

Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(11)	SDSSJ111138.66+575030.0	RA: 11 11 38.6600 (167.9110833d) Dec: +57 50 30.00 (57.84167d) Equinox: J2000	Redshift: 0.466	V=17.34 NUV = 18.06, g=17.51	Reference Frame: ICRS

Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	TA (STIS.ta.720 366)	(11) SDSSJ111138.6 6+575030.0	STIS/CCD, ACQ, F28X50LP	MIRROR				4 Secs (4 Secs) [==>]	[1]
	2	G230LB (STIS.sp.72 0368)	(11) SDSSJ111138.6 6+575030.0	STIS/CCD, ACCUM, 52X0.2E1	G230LB 2375 A	CR-SPLIT=2			2618 Secs (2618 Secs) [==>(Split 1)] [==>(Split 2)]	[1]



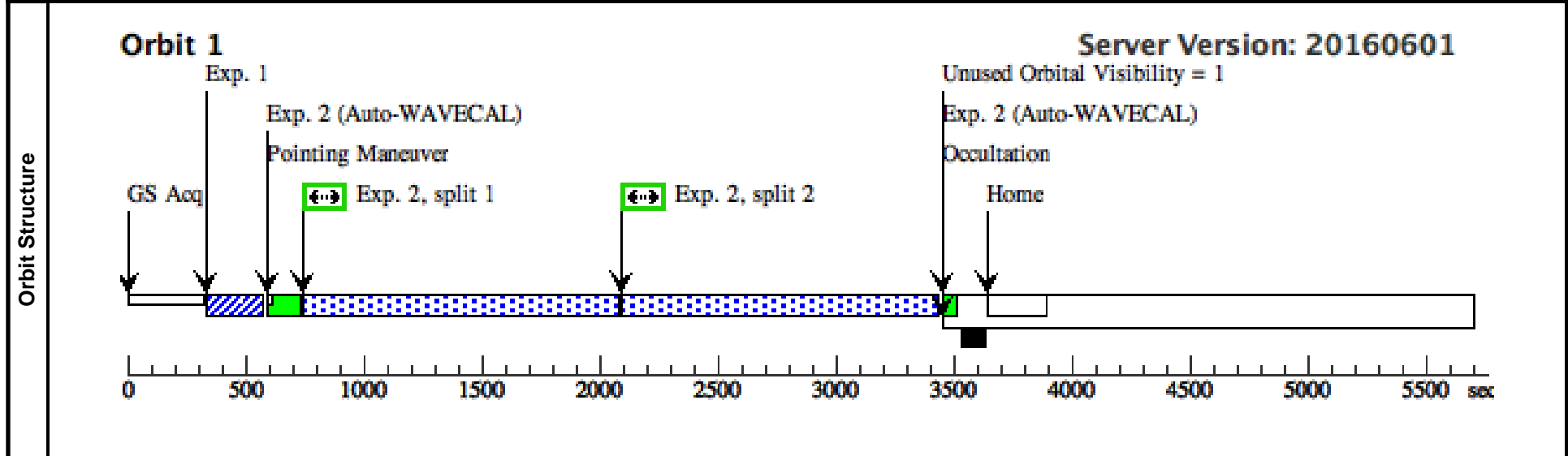
Proposal 14135 - Visit 12 - Are High-Redshift Spectroscopic Black Hole Mass Estimates Biased?

Wed Jan 25 02:01:20 GMT 2017

Visit	Proposal 14135, Visit 12, completed				
	Diagnostic Status: No Diagnostics				
	Scientific Instruments: STIS/CCD				
	Special Requirements: (none)				

Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(12)	SDSSJ111941.12+595108.7	RA: 11 19 41.1200 (169.9213333d) Dec: +59 51 8.70 (59.85242d) Equinox: J2000	Redshift: 0.489	V=17.31 NUV = 17.99, g=17.51	Reference Frame: ICRS

Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	TA (STIS.ta.720 370)	(12) SDSSJ111941.1 2+595108.7	STIS/CCD, ACQ, F28X50LP	MIRROR				4 Secs (4 Secs) [==>]	[1]
	2	G230LB (STIS.sp.72 0373)	(12) SDSSJ111941.1 2+595108.7	STIS/CCD, ACCUM, 52X0.2E1	G230LB 2375 A	CR-SPLIT=2			2618 Secs (2618 Secs) [==>(Split 1)] [==>(Split 2)]	[1]



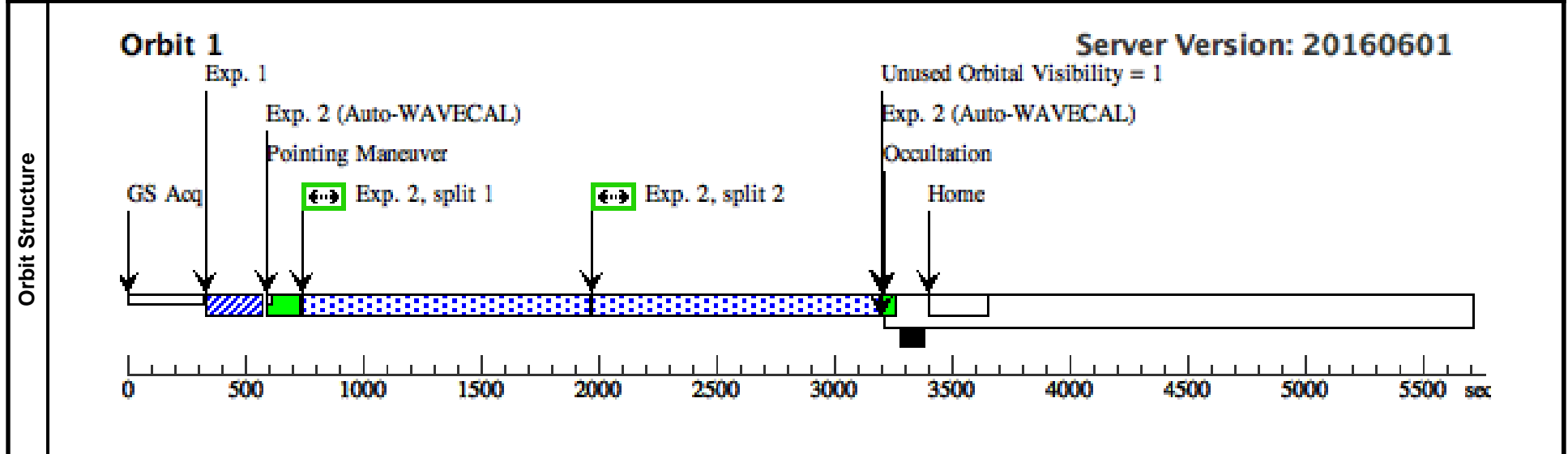
Proposal 14135 - Visit 13 - Are High-Redshift Spectroscopic Black Hole Mass Estimates Biased?

Wed Jan 25 02:01:20 GMT 2017

Visit	Proposal 14135, Visit 13, completed				
	Diagnostic Status: No Diagnostics				
	Scientific Instruments: STIS/CCD				
	Special Requirements: (none)				

Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(13)	SDSSJ112224.15+031802.6	RA: 11 22 24.1500 (170.6006250d) Dec: +03 18 2.60 (3.30072d) Equinox: J2000	Redshift: 0.475	V=17.37 NUV = 18.29, g=17.66	Reference Frame: ICRS
	<i>Comments: Existing COS coverage of the Ly-alpha forest, but not the CIV emission line, so not a duplicate.</i>					

Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	TA (STIS.ta.720 374)	(13) SDSSJ112224.1 5+031802.6	STIS/CCD, ACQ, F28X50LP	MIRROR				4 Secs (4 Secs) [==>]	[1]
	2	G230LB (STIS.sp.72 0379)	(13) SDSSJ112224.1 5+031802.6	STIS/CCD, ACCUM, 52X0.2E1	G230LB 2375 A	CR-SPLIT=2			2372 Secs (2372 Secs) [==>(Split 1)] [==>(Split 2)]	[1]



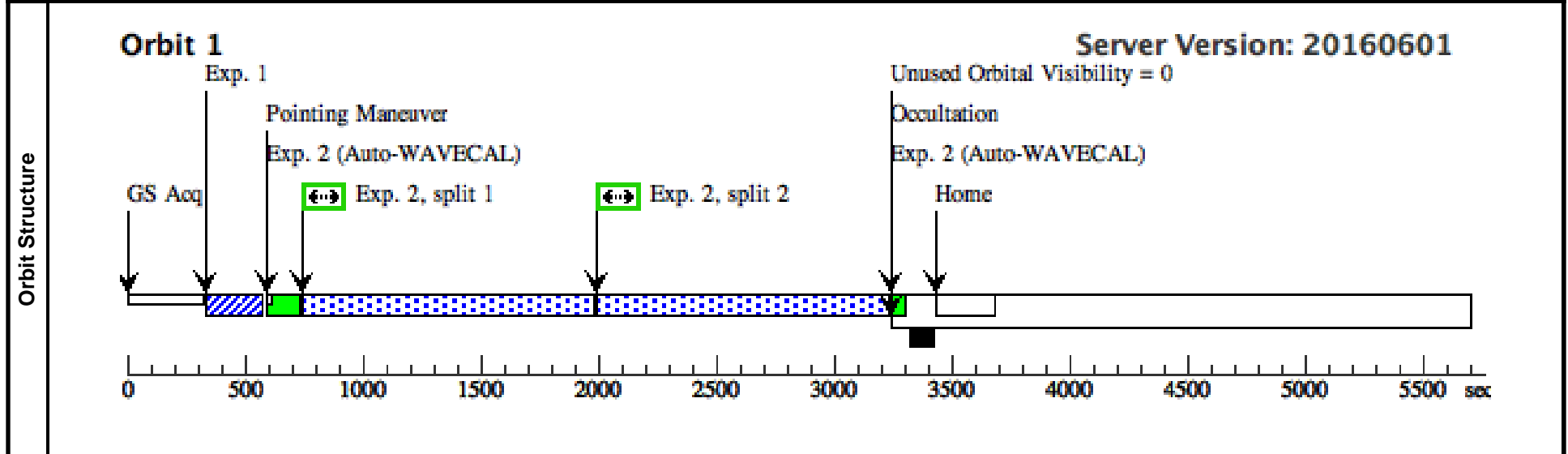
Proposal 14135 - Visit 14 - Are High-Redshift Spectroscopic Black Hole Mass Estimates Biased?

Wed Jan 25 02:01:20 GMT 2017

Visit	Proposal 14135, Visit 14, failed				
	Diagnostic Status: No Diagnostics				
	Scientific Instruments: STIS/CCD				
	Special Requirements: (none)				

Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(14)	SDSSJ112614.93+310146.6	RA: 11 26 14.9300 (171.5622083d) Dec: +31 01 46.60 (31.02961d) Equinox: J2000	Redshift: 0.495	V=17.49 NUV = 17.89, g=17.51	Reference Frame: ICRS

Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	TA (STIS.ta.720 380)	(14) SDSSJ112614.9 3+310146.6	STIS/CCD, ACQ, F28X50LP	MIRROR				4 Secs (4 Secs) [==>]	[1]
	2	G230LB (STIS.sp.72 0382)	(14) SDSSJ112614.9 3+310146.6	STIS/CCD, ACCUM, 52X0.2E1	G230LB 2375 A	CR-SPLIT=2			2408 Secs (2408 Secs) [==>(Split 1)] [==>(Split 2)]	[1]



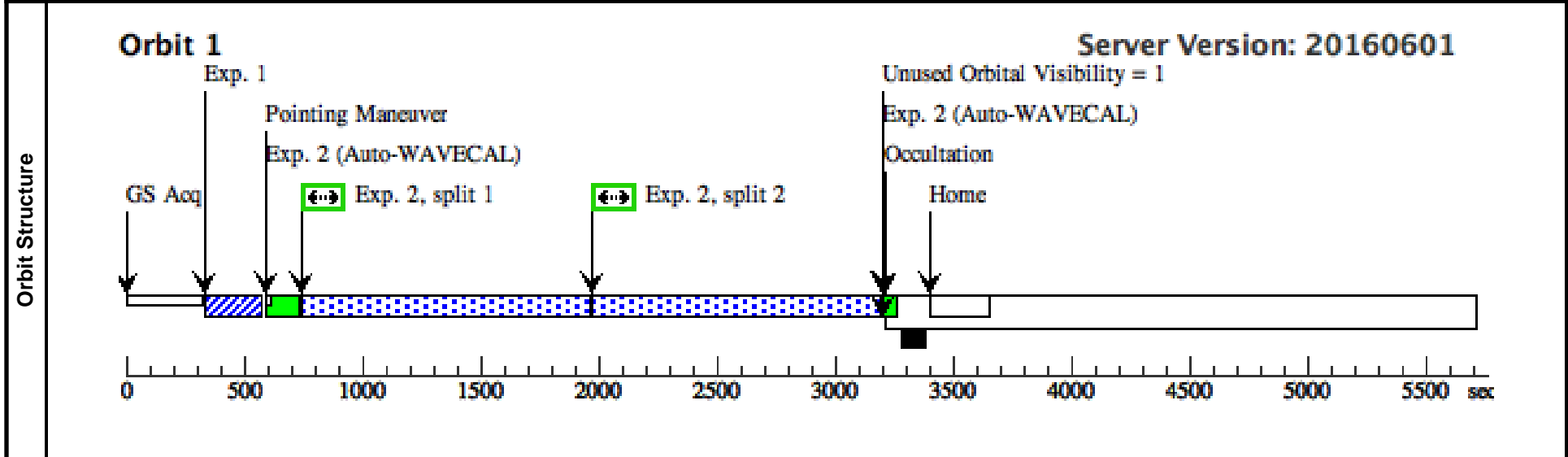
Proposal 14135 - Visit 15 - Are High-Redshift Spectroscopic Black Hole Mass Estimates Biased?

Wed Jan 25 02:01:20 GMT 2017

Visit	Proposal 14135, Visit 15, completed				
	Diagnostic Status: No Diagnostics				
	Scientific Instruments: STIS/CCD				
	Special Requirements: (none)				

Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(15)	SDSSJ113327.78+032719.1	RA: 11 33 27.7800 (173.3657500d) Dec: +03 27 19.10 (3.45531d) Equinox: J2000	Redshift: 0.524	V=17.49 NUV = 18.11, g=17.52	Reference Frame: ICRS
	<i>Comments: Existing COS coverage of the Ly-alpha forest, but not the CIV emission line, so not a duplicate.</i>					

Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	TA (STIS.ta.720 383)	(15) SDSSJ113327.7 8+032719.1	STIS/CCD, ACQ, F28X50LP	MIRROR				4 Secs (4 Secs) [==>]	[1]
	2	G230LB (STIS.sp.72 0384)	(15) SDSSJ113327.7 8+032719.1	STIS/CCD, ACCUM, 52X0.2E1	G230LB 2375 A	CR-SPLIT=2			2372 Secs (2372 Secs) [==>(Split 1)] [==>(Split 2)]	[1]



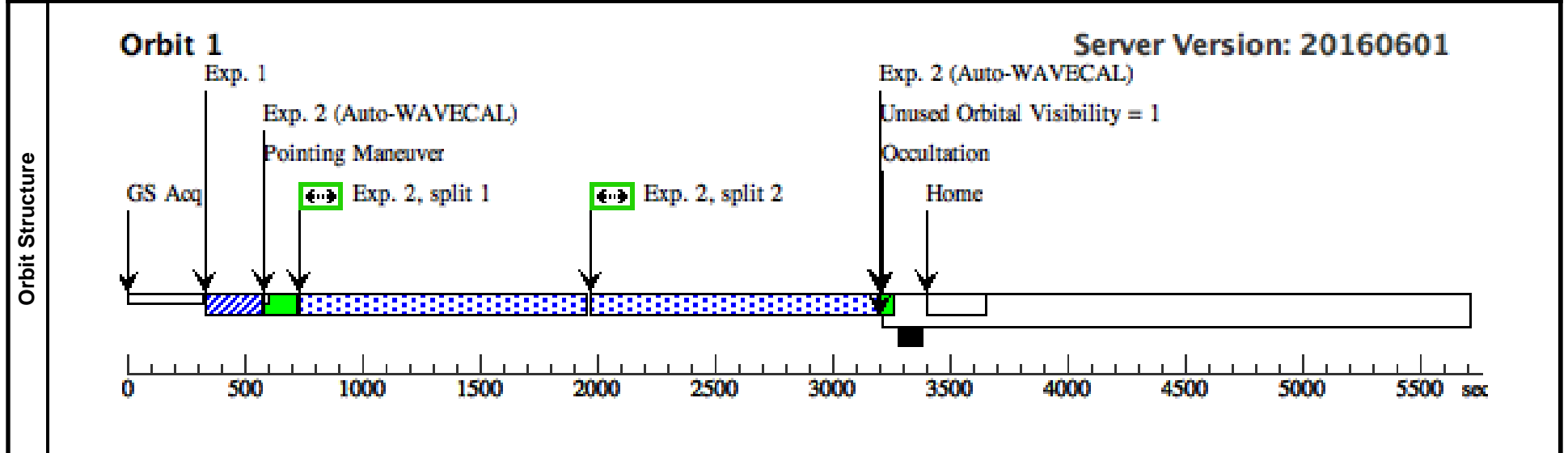
Proposal 14135 - Visit 16 - Are High-Redshift Spectroscopic Black Hole Mass Estimates Biased?

Wed Jan 25 02:01:20 GMT 2017

Visit	Proposal 14135, Visit 16, completed				
	Diagnostic Status: No Diagnostics				
	Scientific Instruments: STIS/CCD				
	Special Requirements: (none)				

Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(16)	SDSSJ113923.66+002301.6	RA: 11 39 23.6600 (174.8485833d) Dec: +00 23 1.60 (.38378d) Equinox: J2000	Redshift: 0.472	V=17.10 NUV = 18.43, g=17.17	Reference Frame: ICRS

Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	TA (STIS.ta.720 389)	(16) SDSSJ113923.6 6+002301.6	STIS/CCD, ACQ, F28X50LP	MIRROR				3 Secs (3 Secs) [==>]	[1]
	2	G230LB (STIS.sp.72 0390)	(16) SDSSJ113923.6 6+002301.6	STIS/CCD, ACCUM, 52X0.2E1	G230LB 2375 A	CR-SPLIT=2			2376 Secs (2376 Secs) [==>(Split 1)] [==>(Split 2)]	[1]



Proposal 14135 - Visit 17 - Are High-Redshift Spectroscopic Black Hole Mass Estimates Biased?

Wed Jan 25 02:01:20 GMT 2017

Visit	Proposal 14135, Visit 17, completed Diagnostic Status: No Diagnostics Scientific Instruments: 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>(17)</td> <td>SDSSJ123734.47+444731.7</td> <td>RA: 12 37 34.4700 (189.3936250d) Dec: +44 47 31.70 (44.79214d) Equinox: J2000</td> <td>Redshift: 0.461</td> <td>V=17.36 NUV = 17.55, g=17.39</td> <td>Reference Frame: ICRS</td> </tr> </tbody> </table>	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous	(17)	SDSSJ123734.47+444731.7	RA: 12 37 34.4700 (189.3936250d) Dec: +44 47 31.70 (44.79214d) Equinox: J2000	Redshift: 0.461	V=17.36 NUV = 17.55, g=17.39	Reference Frame: ICRS																		
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous																										
(17)	SDSSJ123734.47+444731.7	RA: 12 37 34.4700 (189.3936250d) Dec: +44 47 31.70 (44.79214d) Equinox: J2000	Redshift: 0.461	V=17.36 NUV = 17.55, g=17.39	Reference Frame: ICRS																										
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>TA (STIS.ta.720 393)</td> <td>(17) SDSSJ123734.4 7+444731.7</td> <td>STIS/CCD, ACQ, F28X50LP</td> <td>MIRROR</td> <td></td> <td></td> <td></td> <td>4 Secs (4 Secs) [==>]</td> <td>[1]</td> </tr> <tr> <td>2</td> <td>G230LB (STIS.sp.72 0395)</td> <td>(17) SDSSJ123734.4 7+444731.7</td> <td>STIS/CCD, ACCUM, 52X0.2E1</td> <td>G230LB 2375 A</td> <td>CR-SPLIT=2</td> <td></td> <td></td> <td>2470 Secs (2470 Secs) [==>(Split 1)] [==>(Split 2)]</td> <td>[1]</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	TA (STIS.ta.720 393)	(17) SDSSJ123734.4 7+444731.7	STIS/CCD, ACQ, F28X50LP	MIRROR				4 Secs (4 Secs) [==>]	[1]	2	G230LB (STIS.sp.72 0395)	(17) SDSSJ123734.4 7+444731.7	STIS/CCD, ACCUM, 52X0.2E1	G230LB 2375 A	CR-SPLIT=2			2470 Secs (2470 Secs) [==>(Split 1)] [==>(Split 2)]	[1]
#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit																						
1	TA (STIS.ta.720 393)	(17) SDSSJ123734.4 7+444731.7	STIS/CCD, ACQ, F28X50LP	MIRROR				4 Secs (4 Secs) [==>]	[1]																						
2	G230LB (STIS.sp.72 0395)	(17) SDSSJ123734.4 7+444731.7	STIS/CCD, ACCUM, 52X0.2E1	G230LB 2375 A	CR-SPLIT=2			2470 Secs (2470 Secs) [==>(Split 1)] [==>(Split 2)]	[1]																						
Orbit Structure	<div style="text-align: right;">Server Version: 20160601</div> <p>The diagram shows a timeline for Orbit 1 from 0 to 5500 seconds. Key events include:</p> <ul style="list-style-type: none"> GS Acq: Ground Station Acquisition at approximately 100 seconds. Exp. 1: Exposure 1 at approximately 400 seconds. Pointing Maneuver: Occurs between 400 and 600 seconds. Exp. 2 (Auto-WAVECAL): Exposure 2 (Auto-WAVECAL) at approximately 600 seconds. Exp. 2, split 1: Split 1 of Exposure 2, indicated by a green box with a double-headed arrow, starting at approximately 700 seconds. Exp. 2, split 2: Split 2 of Exposure 2, indicated by a green box with a double-headed arrow, starting at approximately 2000 seconds. Occultation: Occurs at approximately 3400 seconds. Home: Return to home position at approximately 3500 seconds. Unused Orbital Visibility = 0: A period from approximately 3400 to 3500 seconds where the target is not visible. <p>The timeline is marked with a scale from 0 to 5500 seconds in increments of 500.</p>																														

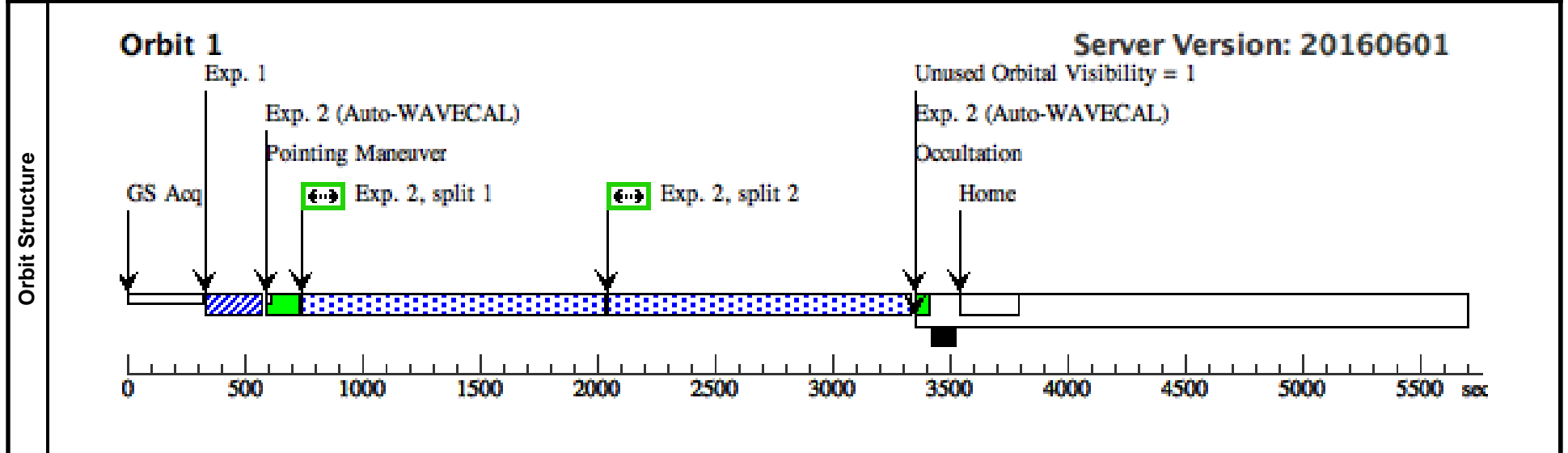
Proposal 14135 - Visit 18 - Are High-Redshift Spectroscopic Black Hole Mass Estimates Biased?

Wed Jan 25 02:01:20 GMT 2017

Visit	Proposal 14135, Visit 18, completed				
	Diagnostic Status: No Diagnostics				
	Scientific Instruments: STIS/CCD				
	Special Requirements: (none)				

Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(18)	SDSSJ125415.55+480850.6	RA: 12 54 15.5500 (193.5647917d) Dec: +48 08 50.60 (48.14739d) Equinox: J2000	Redshift: 0.503	V=17.33 NUV = 18.06, g=17.33	Reference Frame: ICRS

Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	TA (STIS.ta.720 396)	(18) SDSSJ125415.5 5+480850.6	STIS/CCD, ACQ, F28X50LP	MIRROR				4 Secs (4 Secs) [==>]	[1]
	2	G230LB (STIS.sp.72 0397)	(18) SDSSJ125415.5 5+480850.6	STIS/CCD, ACCUM, 52X0.2E1	G230LB 2375 A	CR-SPLIT=2			2514 Secs (2514 Secs) [==>(Split 1)] [==>(Split 2)]	[1]



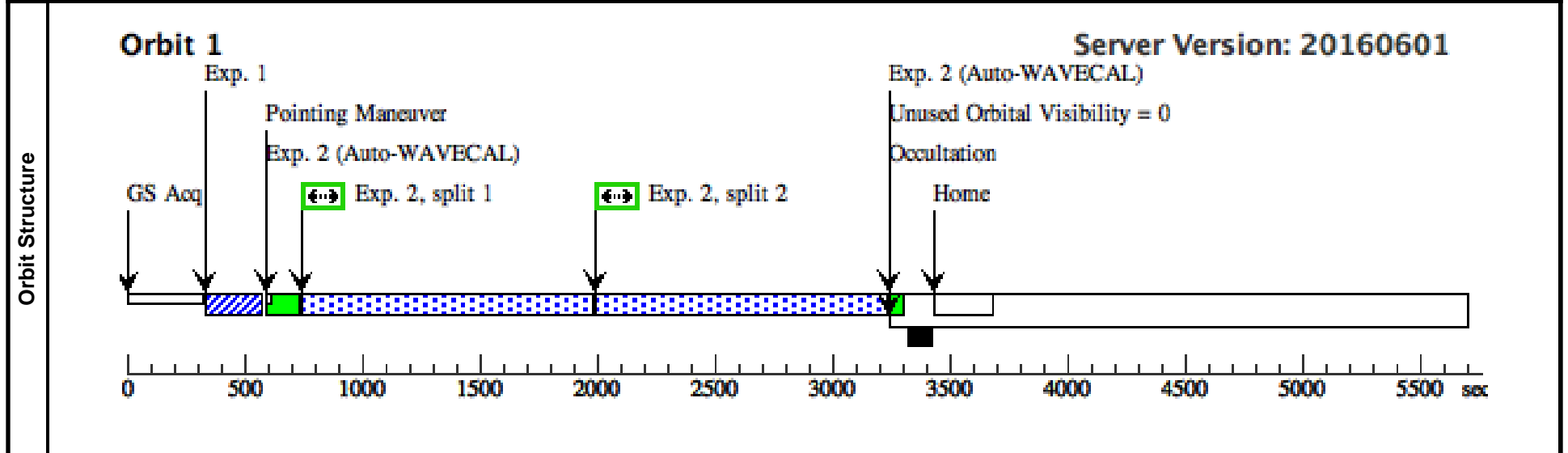
Proposal 14135 - Visit 19 - Are High-Redshift Spectroscopic Black Hole Mass Estimates Biased?

Wed Jan 25 02:01:20 GMT 2017

Visit	Proposal 14135, Visit 19, completed				
	Diagnostic Status: No Diagnostics				
	Scientific Instruments: STIS/CCD				
	Special Requirements: (none)				

Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(19)	SDSSJ131627.84+315825.7	RA: 13 16 27.8400 (199.1160000d) Dec: +31 58 25.70 (31.97381d) Equinox: J2000	Redshift: 0.463	V=17.42 NUV = 18.28, g=17.41	Reference Frame: ICRS

Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	TA (STIS.ta.720 398)	(19) SDSSJ131627.8 4+315825.7	STIS/CCD, ACQ, F28X50LP	MIRROR				4 Secs (4 Secs) [==>]	[1]
	2	G230LB (STIS.sp.72 0401)	(19) SDSSJ131627.8 4+315825.7	STIS/CCD, ACCUM, 52X0.2E1	G230LB 2375 A	CR-SPLIT=2			2408 Secs (2408 Secs) [==>(Split 1)] [==>(Split 2)]	[1]



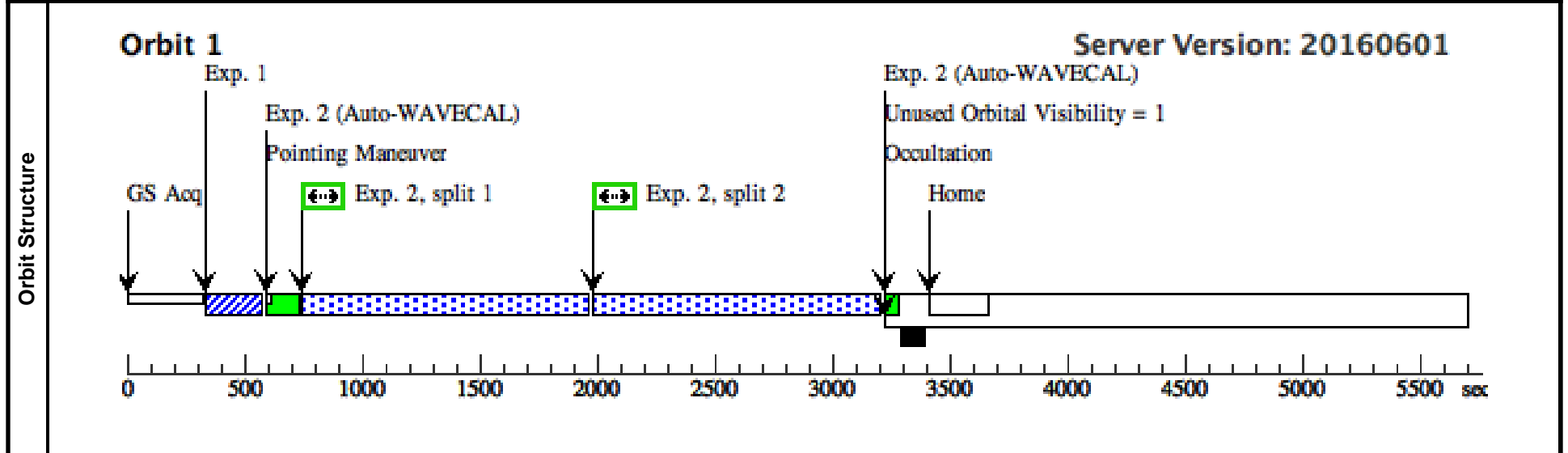
Proposal 14135 - Visit 20 - Are High-Redshift Spectroscopic Black Hole Mass Estimates Biased?

Wed Jan 25 02:01:20 GMT 2017

Visit	Proposal 14135, Visit 20, completed				
	Diagnostic Status: No Diagnostics				
	Scientific Instruments: STIS/CCD				
	Special Requirements: (none)				

Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(20)	SDSSJ134701.54+215401.1	RA: 13 47 1.5400 (206.7564167d) Dec: +21 54 1.10 (21.90031d) Equinox: J2000	Redshift: 0.502	V=17.45 NUV = 17.84, g=17.35	Reference Frame: ICRS

Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	TA (STIS.ta.718 872)	(20) SDSSJ134701.5 4+215401.1	STIS/CCD, ACQ, F28X50LP	MIRROR				4 Secs (4 Secs) [==>]	[1]
	2	G230LB (STIS.sp.72 0408)	(20) SDSSJ134701.5 4+215401.1	STIS/CCD, ACCUM, 52X0.2E1	G230LB 2375 A	CR-SPLIT=2			2384 Secs (2384 Secs) [==>(Split 1)] [==>(Split 2)]	[1]



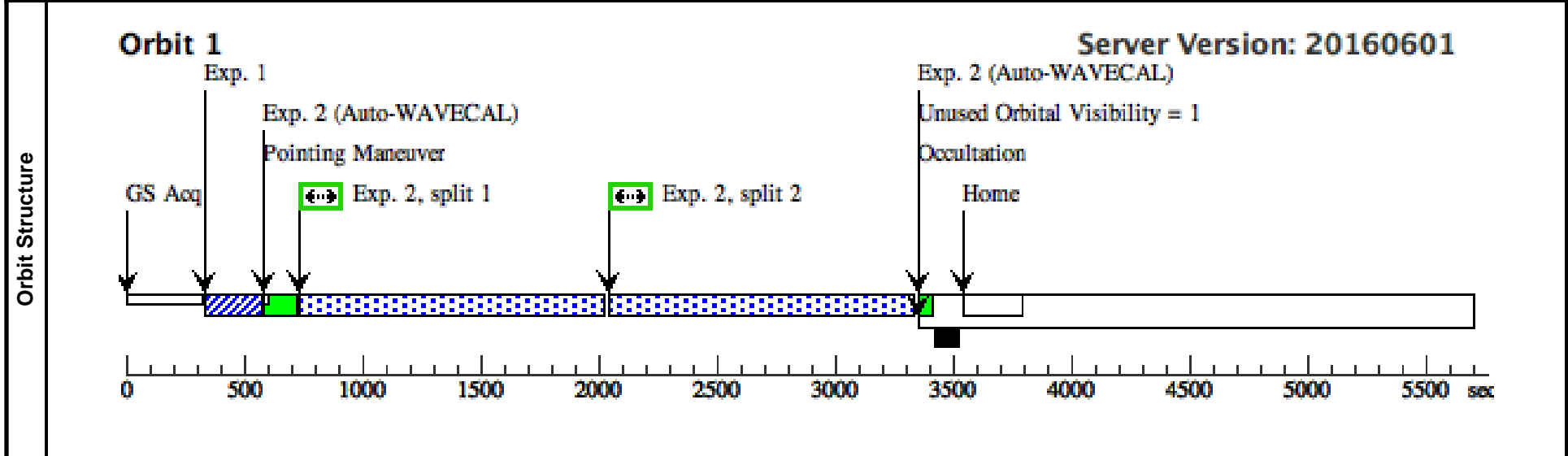
Proposal 14135 - Visit 21 - Are High-Redshift Spectroscopic Black Hole Mass Estimates Biased?

Wed Jan 25 02:01:20 GMT 2017

Visit	Proposal 14135, Visit 21, completed				
	Diagnostic Status: No Diagnostics				
	Scientific Instruments: STIS/CCD				
	Special Requirements: (none)				

Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(21)	SDSSJ140331.29+462804.8	RA: 14 03 31.2900 (210.8803750d) Dec: +46 28 4.80 (46.46800d) Equinox: J2000	Redshift: 0.459	V=17.20 NUV = 18.18, g=17.28	Reference Frame: ICRS

Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	TA (STIS.ta.720 417)	(21) SDSSJ140331.2 9+462804.8	STIS/CCD, ACQ, F28X50LP	MIRROR				3 Secs (3 Secs) [==>]	[1]
	2	G230LB (STIS.sp.72 0418)	(21) SDSSJ140331.2 9+462804.8	STIS/CCD, ACCUM, 52X0.2E1	G230LB 2375 A	CR-SPLIT=2			2518 Secs (2518 Secs) [==>(Split 1)] [==>(Split 2)]	[1]



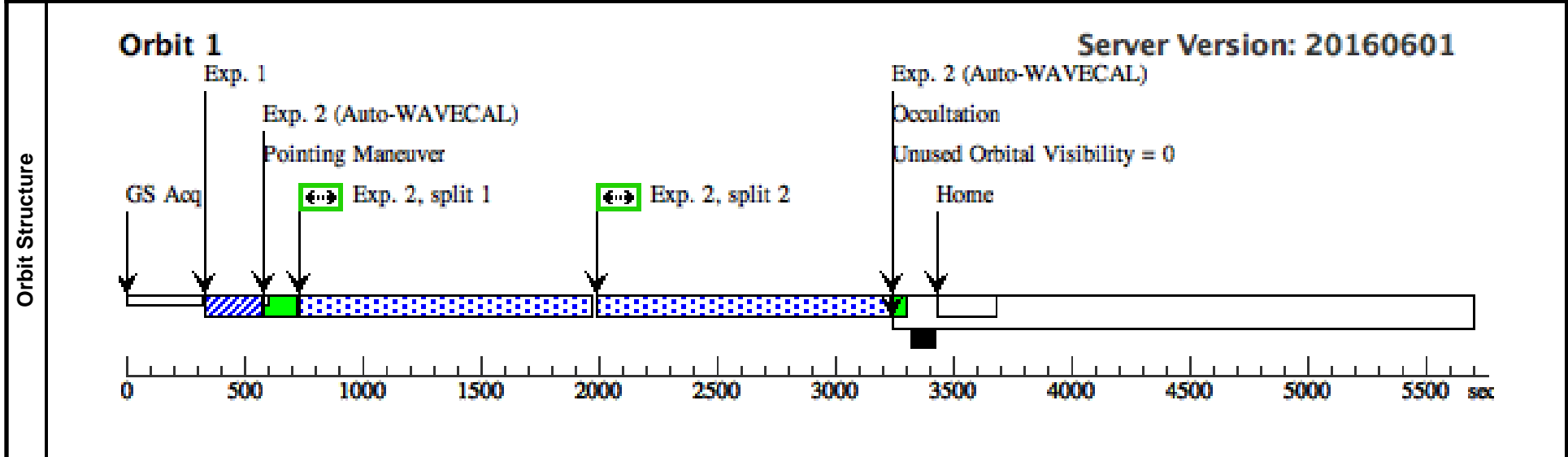
Proposal 14135 - Visit 22 - Are High-Redshift Spectroscopic Black Hole Mass Estimates Biased?

Wed Jan 25 02:01:20 GMT 2017

Visit	Proposal 14135, Visit 22, completed				
	Diagnostic Status: No Diagnostics				
	Scientific Instruments: STIS/CCD				
	Special Requirements: (none)				

Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(22)	SDSSJ145334.13+311401.4	RA: 14 53 34.1300 (223.3922083d) Dec: +31 14 1.40 (31.23372d) Equinox: J2000	Redshift: 0.465	V=17.27 NUV = 17.98, g=17.37	Reference Frame: ICRS

Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	TA (STIS.ta.720 419)	(22) SDSSJ145334.1 3+311401.4	STIS/CCD, ACQ, F28X50LP	MIRROR				3 Secs (3 Secs) [==>]	[1]
	2	G230LB (STIS.sp.72 0425)	(22) SDSSJ145334.1 3+311401.4	STIS/CCD, ACCUM, 52X0.2E1	G230LB 2375 A	CR-SPLIT=2			2412 Secs (2412 Secs) [==>(Split 1)] [==>(Split 2)]	[1]



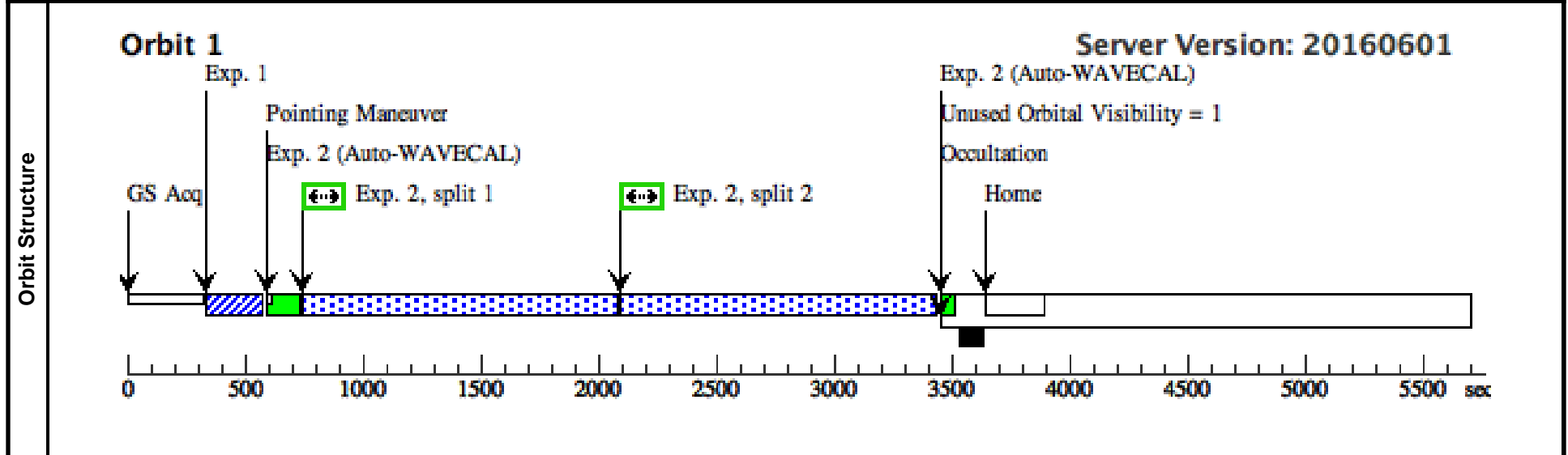
Proposal 14135 - Visit 23 - Are High-Redshift Spectroscopic Black Hole Mass Estimates Biased?

Wed Jan 25 02:01:20 GMT 2017

Visit	Proposal 14135, Visit 23, completed				
	Diagnostic Status: No Diagnostics				
	Scientific Instruments: STIS/CCD				
	Special Requirements: (none)				

Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(23)	SDSSJ152654.61+565512.3	RA: 15 26 54.6100 (231.7275417d) Dec: +56 55 12.30 (56.92008d) Equinox: J2000	Redshift: 0.482	V=17.36 NUV = 18.10, g=17.57	Reference Frame: ICRS

Exposures	#	Label (ETC Run)	Target	Config, Mode, Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	TA (STIS.ta.720 432)	(23) SDSSJ152654.6 1+565512.3	STIS/CCD, ACQ, F28X50LP	MIRROR				4 Secs (4 Secs) [==>]	[1]
	2	G230LB (STIS.sp.72 0434)	(23) SDSSJ152654.6 1+565512.3	STIS/CCD, ACCUM, 52X0.2E1	G230LB 2375 A	CR-SPLIT=2			2618 Secs (2618 Secs) [==>(Split 1)] [==>(Split 2)]	[1]



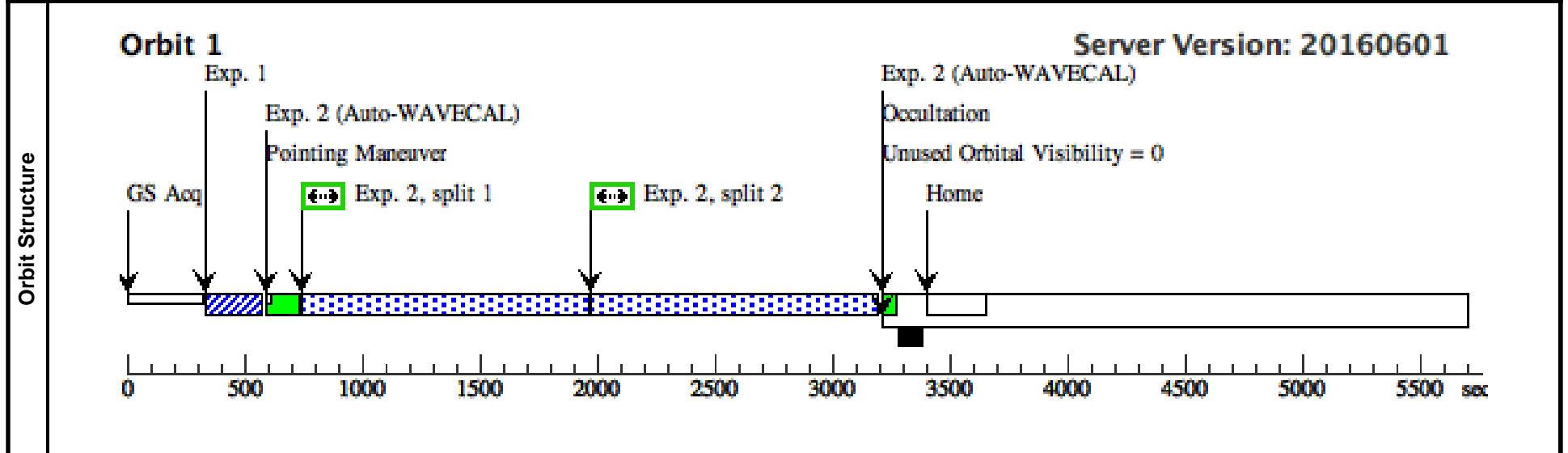
Proposal 14135 - Visit 24 - Are High-Redshift Spectroscopic Black Hole Mass Estimates Biased?

Wed Jan 25 02:01:20 GMT 2017

Visit	Proposal 14135, Visit 24, completed				
	Diagnostic Status: No Diagnostics				
	Scientific Instruments: STIS/CCD				
	Special Requirements: (none)				

Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(24)	SDSSJ155837.77+081345.8	RA: 15 58 37.7700 (239.6573750d) Dec: +08 13 45.80 (8.22939d) Equinox: J2000	Redshift: 0.517	V=17.44 NUV = 18.25, g=17.62	Reference Frame: ICRS

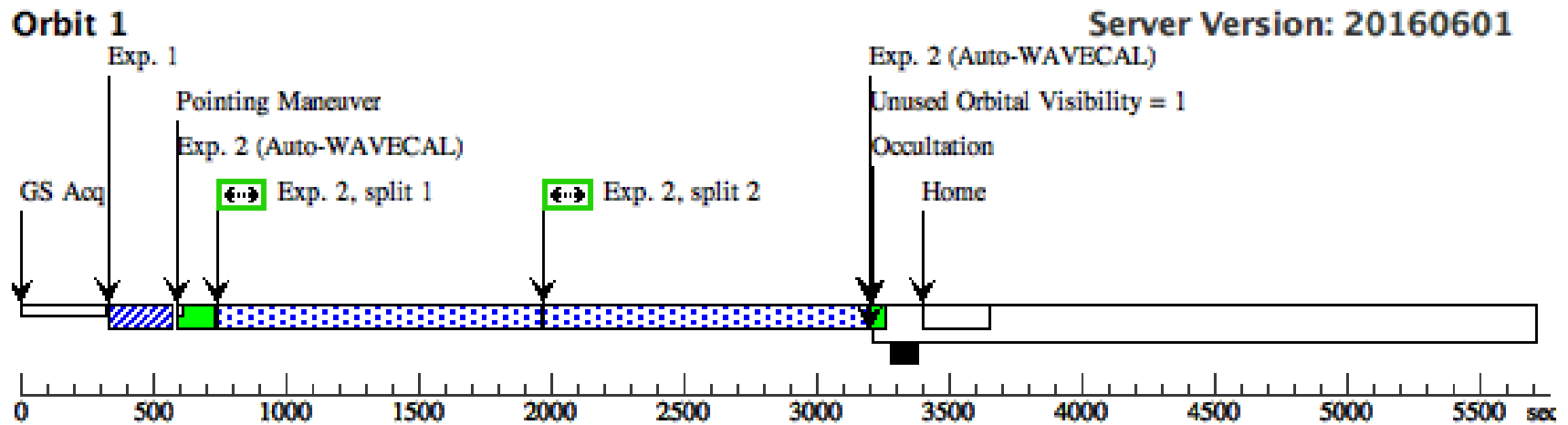
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	TA (STIS.ta.720 435)	(24) SDSSJ155837.7 7+081345.8	STIS/CCD, ACQ, F28X50LP	MIRROR				4 Secs (4 Secs) [==>]	[1]
	2	G230LB (STIS.sp.72 0437)	(24) SDSSJ155837.7 7+081345.8	STIS/CCD, ACCUM, 52X0.2E1	G230LB 2375 A	CR-SPLIT=2			2376 Secs (2376 Secs) [==>(Split 1)] [==>(Split 2)]	[1]



Proposal 14135 - Visit 25 - Are High-Redshift Spectroscopic Black Hole Mass Estimates Biased?

Wed Jan 25 02:01:20 GMT 2017

Visit	Proposal 14135, Visit 25, completed Diagnostic Status: No Diagnostics Scientific Instruments: STIS/CCD Special Requirements: (none)									
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(25)	SDSSJ234145.51-004640.5	RA: 23 41 45.5100 (355.4396250d) Dec: -00 46 40.50 (-.77792d) Equinox: J2000	Redshift: 0.524	V=17.44 NUV = 17.89, g=17.43	Reference Frame: ICRS				
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	TA (STIS.ta.720 438)	(25) SDSSJ234145.5 1-004640.5	STIS/CCD, ACQ, F28X50LP	MIRROR				4 Secs (4 Secs) [==>]	[1]
	2	G230LB (STIS.sp.72 0439)	(25) SDSSJ234145.5 1-004640.5	STIS/CCD, ACCUM, 52X0.2E1	G230LB 2375 A	CR-SPLIT=2			2372 Secs (2372 Secs) [==>(Split 1)] [==>(Split 2)]	[1]



Proposal 14135 - Visit 26 - Are High-Redshift Spectroscopic Black Hole Mass Estimates Biased?

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Visit	Proposal 14135, Visit 26, implementation				
	Diagnostic Status: No Diagnostics Scientific Instruments: STIS/CCD Special Requirements: (none) <i>Comments: Repeat of visit 14 that failed due to Hubble safing.</i>				

Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(14)	SDSSJ112614.93+310146.6	RA: 11 26 14.9300 (171.5622083d) Dec: +31 01 46.60 (31.02961d) Equinox: J2000	Redshift: 0.495	V=17.49 NUV = 17.89, g=17.51	Reference Frame: ICRS

Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	TA (STIS.ta.720 380)	(14) SDSSJ112614.9 3+310146.6	STIS/CCD, ACQ, F28X50LP	MIRROR				4 Secs (4 Secs) [==>]	[1]
	2	G230LB (STIS.sp.72 0382)	(14) SDSSJ112614.9 3+310146.6	STIS/CCD, ACCUM, 52X0.2E1	G230LB 2375 A	CR-SPLIT=2			2408 Secs (2408 Secs) [==>(Split 1)] [==>(Split 2)]	[1]

