



# 16318 - The First Measurement of the Distribution of Quasar Lifetimes with the HeII Proximity Effect

Cycle: 28, Proposal Category: GO

(UV Initiative)

(Availability Mode: SUPPORTED)

## INVESTIGATORS

<i>Name</i>	<i>Institution</i>	<i>E-Mail</i>
<b>Dr. Gabor Worseck (PI) (ESA Member) (Contact)</b>	<b>Universitat Potsdam</b>	<b>gworseck@uni-potsdam.de</b>
Dr. Frederick Davies (CoI) (ESA Member)	Max Planck Institute for Astronomy	davies@mpia.de
Prof. Joseph Hennawi (CoI)	University of California - Santa Barbara	joe@physics.ucsb.edu
Dr. Ilya Khrykin (CoI)	University of Tokyo	ilya.khrykin@ipmu.jp
Dr. Jason X. Prochaska (CoI)	University of California - Santa Cruz	xavier@ucolick.org
Dr. Tobias Marius Schmidt (CoI) (ESA Member)	University of Geneva, Department of Astronomy	tobias.schmidt@unige.ch
Dr. Suk Sien Tie (CoI) (AdminUSPI)	University of California - Santa Barbara	sstie@physics.ucsb.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) SDSSJ1007+4003	COS/FUV COS/NUV	1	18-Nov-2021 10:00:50.0	yes
02	(2) QSO-010238+423140	COS/FUV COS/NUV	1	18-Nov-2021 10:00:50.0	yes
03	(3) UM682	COS/FUV COS/NUV	1	18-Nov-2021 10:00:51.0	yes

Proposal 16318 (STScI Edit Number: 4, Created: Thursday, November 18, 2021 at 10:01:17 AM Eastern Standard Time) - 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>
04	(4) QSO-043330-051522	COS/FUV COS/NUV	1	18-Nov-2021 10:00:52.0	yes
05	(5) QSO-141353+151810	COS/FUV COS/NUV	1	18-Nov-2021 10:00:53.0	yes
06	(6) QSO-082447-110236	COS/FUV COS/NUV	1	18-Nov-2021 10:00:53.0	yes
07	(7) TOL0207-398	COS/FUV COS/NUV	1	18-Nov-2021 10:00:54.0	yes
08	(8) SDSSJ0037+3014	COS/FUV COS/NUV	1	18-Nov-2021 10:00:55.0	yes
09	(9) SDSSJ1519+3609	COS/FUV COS/NUV	1	18-Nov-2021 10:00:55.0	yes
10	(10) QSO-103138+475333	COS/FUV COS/NUV	1	18-Nov-2021 10:00:56.0	yes
11	(11) QSO-100246+052642	COS/FUV COS/NUV	1	18-Nov-2021 10:00:57.0	yes
12	(12) QSO-031427-171624	COS/FUV COS/NUV	1	18-Nov-2021 10:00:58.0	yes
13	(13) QSO-120321+324533	COS/FUV COS/NUV	1	18-Nov-2021 10:00:58.0	yes
14	(14) QSO-092004+010012	COS/FUV COS/NUV	1	18-Nov-2021 10:00:59.0	yes
15	(15) SDSSJ2354+3400	COS/FUV COS/NUV	1	18-Nov-2021 10:01:00.0	yes
16	(16) SDSSJ0046-0224	COS/FUV COS/NUV	1	18-Nov-2021 10:01:01.0	yes
33	(16) SDSSJ0046-0224	COS/FUV COS/NUV	1	18-Nov-2021 10:01:02.0	yes

Proposal 16318 (STScI Edit Number: 4, Created: Thursday, November 18, 2021 at 10:01:17 AM Eastern Standard Time) - 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>
17	(17) QSO-155804+013409	COS/FUV COS/NUV	1	18-Nov-2021 10:01:02.0	yes
18	(18) QSO-014515+411618	COS/FUV COS/NUV	1	18-Nov-2021 10:01:03.0	yes
19	(19) SDSSJ1404+0728	COS/FUV COS/NUV	1	18-Nov-2021 10:01:04.0	yes
20	(20) QSO-031642-233840	COS/FUV COS/NUV	1	18-Nov-2021 10:01:05.0	yes
21	(21) SDSSJ1053+3259	COS/FUV COS/NUV	1	18-Nov-2021 10:01:05.0	yes
22	(22) QSO-080147+211019	COS/FUV COS/NUV	1	18-Nov-2021 10:01:06.0	yes
23	(23) QSO-114858+253149	COS/FUV COS/NUV	1	18-Nov-2021 10:01:07.0	yes
24	(24) QSO-084017+314525	COS/FUV COS/NUV	1	18-Nov-2021 10:01:08.0	yes
25	(25) QSO-033340-265227	COS/FUV COS/NUV	1	18-Nov-2021 10:01:08.0	yes
26	(26) QSO-J164852+095942	COS/FUV COS/NUV	1	18-Nov-2021 10:01:09.0	yes
34	(26) QSO-J164852+095942	COS/FUV COS/NUV	1	18-Nov-2021 10:01:10.0	yes
37	(26) QSO-J164852+095942	COS/FUV COS/NUV	1	18-Nov-2021 10:01:11.0	yes
27	(27) QSO-130841+404823	COS/FUV COS/NUV	1	18-Nov-2021 10:01:12.0	yes
28	(28) SDSSJ1028+1729	COS/FUV COS/NUV	1	18-Nov-2021 10:01:13.0	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>
29	(29) QSO-104915+421923	COS/FUV COS/NUV	1	18-Nov-2021 10:01:13.0	yes
30	(30) SDSSJ2200+0008	COS/FUV COS/NUV	1	18-Nov-2021 10:01:14.0	yes
36	(30) SDSSJ2200+0008	COS/FUV COS/NUV	1	18-Nov-2021 10:01:15.0	yes
31	(31) MG1J220825+1808	COS/FUV COS/NUV	1	18-Nov-2021 10:01:16.0	yes
35	(31) MG1J220825+1808	COS/FUV COS/NUV	1	18-Nov-2021 10:01:16.0	yes
32	(32) SDSSJ0847+3831	COS/FUV COS/NUV	1	18-Nov-2021 10:01:17.0	yes

37 Total Orbits Used

## **ABSTRACT**

The duration of quasar (QSO) accretion episodes is a key quantity for distinguishing between models for the formation and growth of supermassive black holes, QSO evolution, and the potential feedback effects on their host galaxies. However, this critical timescale, often referred to as the QSO lifetime, is still uncertain by orders of magnitude  $t_Q \sim 10^4\text{-}10^9$  yr. The intense UV radiation from a QSO dramatically alters the ionization state of its surrounding intergalactic medium (IGM), which is observable as enhanced Lyman-alpha transmission toward the QSO in its so-called proximity zone. HST/COS spectra of far-UV bright QSOs probing the HeII Lyman-alpha forest provide a unique opportunity to make precise lifetime measurements for individual QSOs. Indeed, the size of the HeII proximity zone depends sensitively on the QSO lifetime for  $t_Q < 30$  Myr, comparable to the e-folding timescale for SMBH growth  $t_S = 45$  Myr. We have compared the sizes of HeII proximity zones to theoretical models generated by post-processing cosmological hydrodynamical simulations with 1D radiative transfer, which allows us to measure individual QSO lifetimes to 0.2 dex precision. An analysis of 24 archival HST/COS spectra has revealed a surprisingly broad distribution of lifetimes ranging from  $< 1$  to  $> 30$  Myr. These results point to complex QSO light curves that exhibit structure on a wide range of timescales. By leveraging a new sample of FUV-bright QSOs selected from GALEX, SDSS, PanSTARRS and WISE, we request 32 orbits of HST/COS to double the number of QSOs to which we can apply this exciting new technique, which will allow us to make the first measurement of the distribution of QSO lifetimes.

## **OBSERVING DESCRIPTION**

We will obtain COS FUV G140L spectra of 32 FUV-bright quasars at  $2.7 < z < 3.2$  to measure their HeII Lyman alpha proximity zone sizes. All targets have sufficiently accurate GALEX FUV and NUV magnitudes, and are safe to observe with COS. Their SDSS and Pan-STARRS coordinates are accurate enough for efficient acquisition with ACQ/IMAGE. The NUV imaging target acquisition exposure times to reach the recommended  $S/N=20$  range from 20 to 90 seconds depending on the target NUV magnitude.

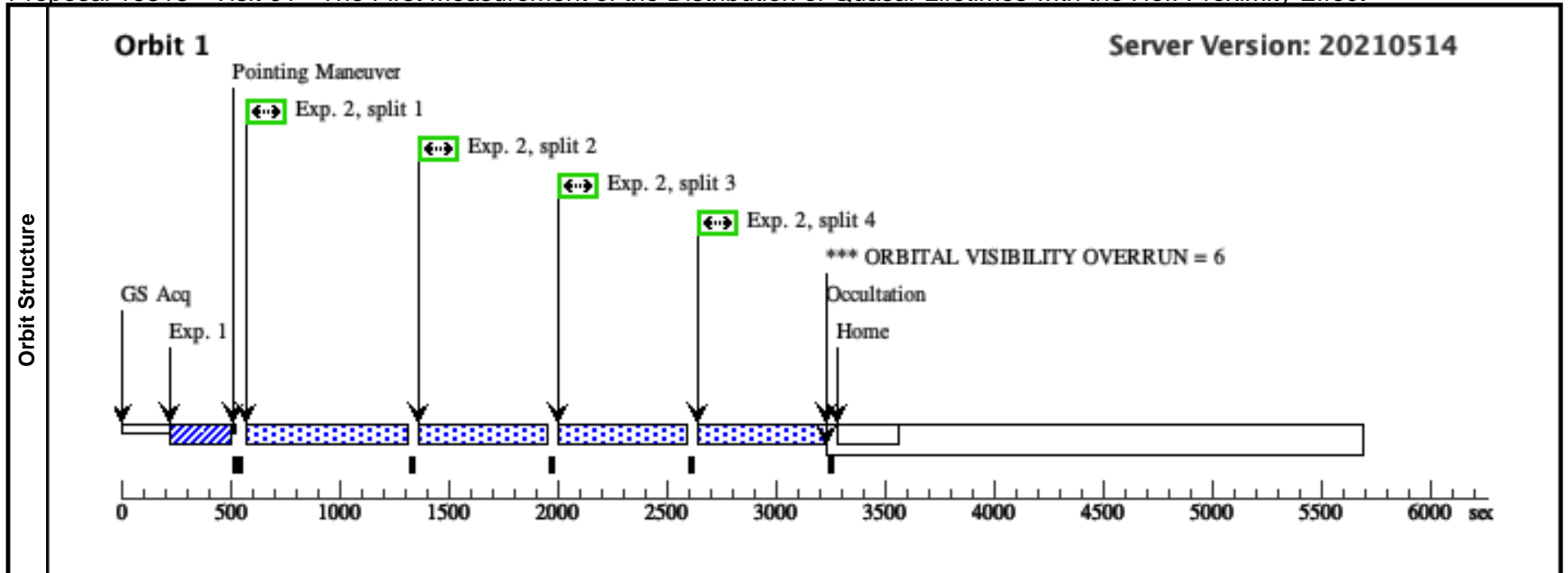
The COS G140L grating is optimal for efficient verification of the FUV flux and the measurement of the proximity zones. We will employ the 800A setting to contiguously cover the  $z > 2.5$  HeII Lyman alpha absorption, the HeII proximity zone, and the quasar continuum. With realistic COS mock spectra we verified our ability to measure the HeII proximity zone size of every target in a  $\sim 2000$  seconds spectroscopic exposure, corresponding to a one-orbit visit per target (Fig. 8 in the proposal). Spectra will be recorded in TIME-TAG mode with concurrent wavelength calibration (TAGFLASH), and at all FP-POS offsets to correct for COS detector blemishes. Time intervals spent in the Earth's shadow will be used to correct for geocoronal OI and NI emission. Given our faint sources, airglow will dominate the COS count rates. However, even at the high airglow conditions conservatively assumed in our ETC calculations, the buffer time is longer than the exposure time. All exposure times have been adjusted to use the full visibility period in each orbit.

Reduced gyro operations will not affect our program, because our visits have no orientation constraints. APT indicates a sufficient number of scheduling windows for our one-orbit visits.

Proposal 16318 - Visit 01 - The First Measurement of the Distribution of Quasar Lifetimes with the Hell Proximity Effect

Thu Nov 18 15:01:18 GMT 2021

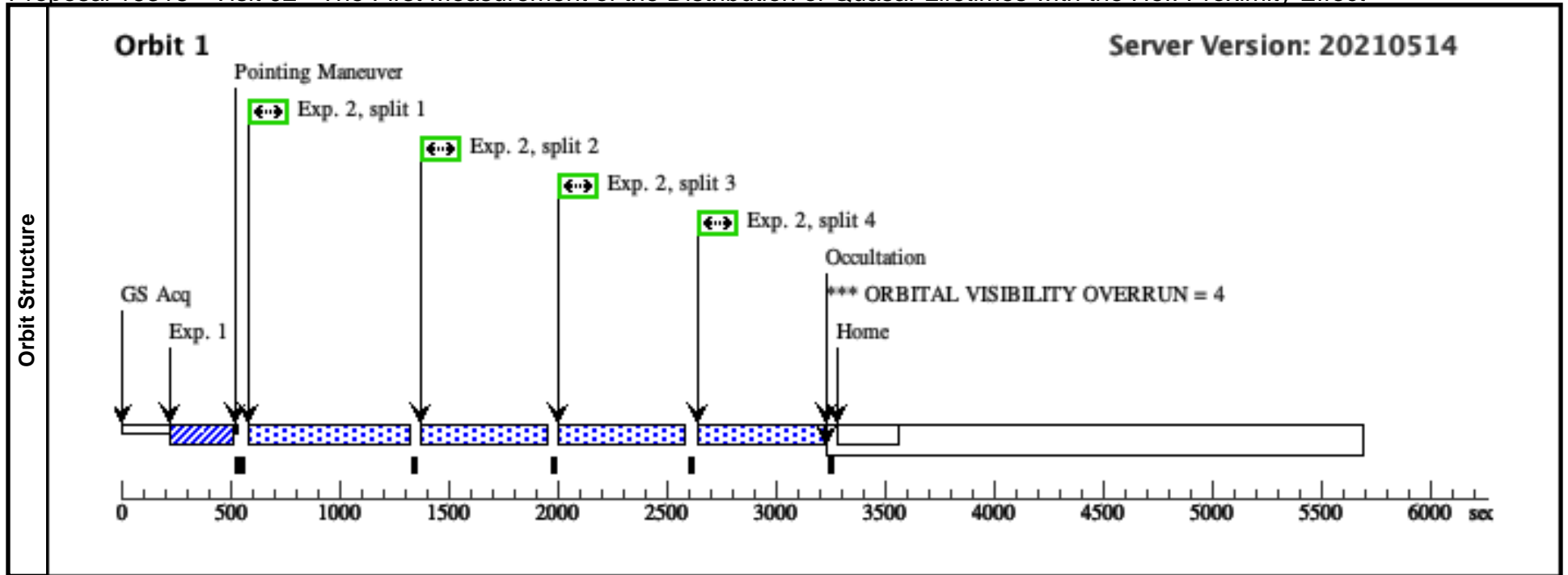
<b>Visit</b>	<p><b>Proposal 16318, Visit 01, completed</b></p> <p><b>Diagnostic Status: Warning</b></p> <p>Scientific Instruments: COS/FUV, COS/NUV</p> <p>Special Requirements: (none)</p>									
<b>Diagnostics</b>	(Visit 01) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN									
<b>Fixed Targets</b>	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(1)	SDSSJ1007+4003	RA: 10 07 16.8500 (151.8202083d) Dec: +40 03 56.30 (40.06564d) Equinox: J2000	Redshift: 2.74	V=19.2+/-0.1 GALEX FUV=21.41 NUV=20.6 9	Reference Frame: ICRS				
	<p><i>Comments:</i>                  Category=GALAXY                  Description=[LYMAN ALPHA CLOUD, QSO]                  Extended=NO</p>									
<b>Exposures</b>	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(COS.ta.144 7361)	(1) SDSSJ1007+4003	COS/NUV, ACQ/IMAGE, PSA	MIRRORA				25 Secs (25 Secs)	
			3						[==>]	[1]
	2	(COS.sp.144 7350)	(1) SDSSJ1007+4003	COS/FUV, TIME-TAG, PSA	G140L 800 A	BUFFER-TIME=50 00;	FP-POS=ALL		600 Secs (2136 Secs)	
			3						[==>534.0 Secs (Split 1)] [==>534.0 Secs (Split 2)] [==>534.0 Secs (Split 3)] [==>534.0 Secs (Split 4)]	[1]



Proposal 16318 - Visit 02 - The First Measurement of the Distribution of Quasar Lifetimes with the Hell Proximity Effect

Thu Nov 18 15:01:18 GMT 2021

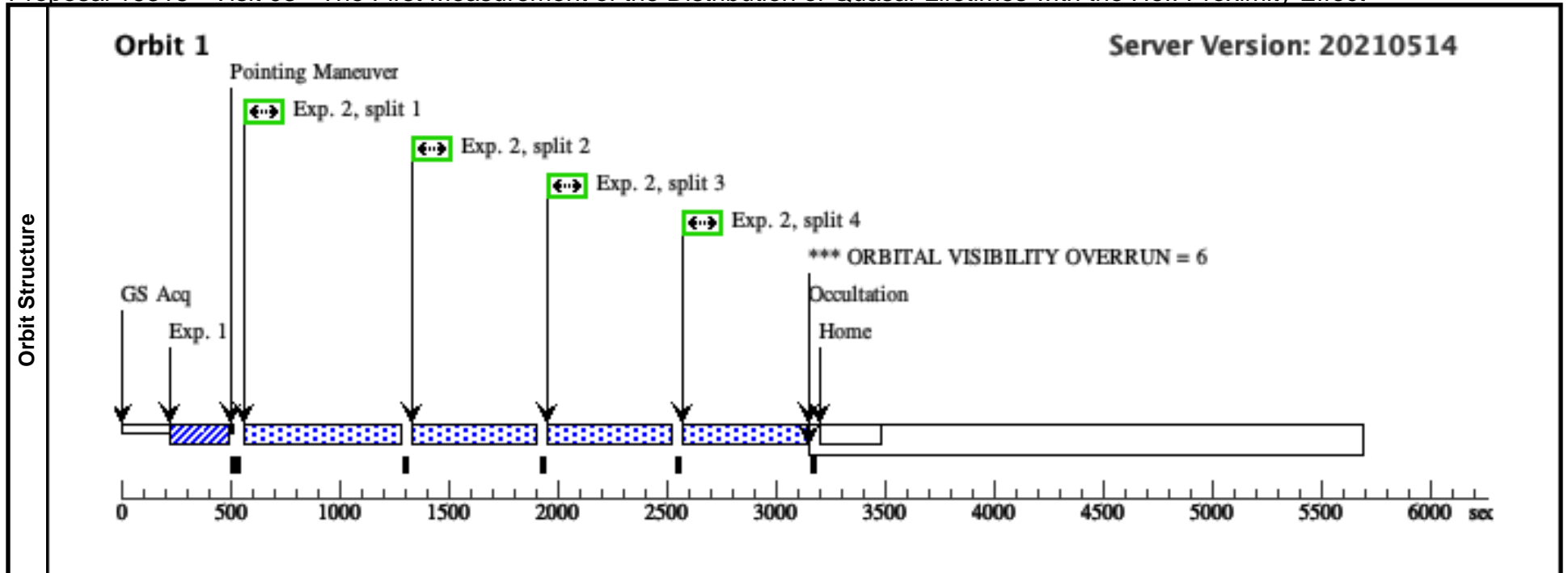
<b>Visit</b>	<b>Proposal 16318, Visit 02, completed</b> <b>Diagnostic Status: Warning</b> Scientific Instruments: COS/FUV, COS/NUV Special Requirements: (none)																																			
	(Visit 02) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN																																			
<b>Fixed Targets</b>	<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>(2)</td> <td>QSO-010238+423140</td> <td>RA: 01 02 38.0800 (15.6586667d) Dec: +42 31 40.40 (42.52789d) Equinox: J2000</td> <td>Redshift: 2.75</td> <td>V=18.3+/-0.1 GALEX FUV=20.64 NUV=20.7 7</td> <td>Reference Frame: ICRS</td> </tr> </tbody> </table>	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous	(2)	QSO-010238+423140	RA: 01 02 38.0800 (15.6586667d) Dec: +42 31 40.40 (42.52789d) Equinox: J2000	Redshift: 2.75	V=18.3+/-0.1 GALEX FUV=20.64 NUV=20.7 7	Reference Frame: ICRS	Comments: Category=GALAXY Description=[LYMAN ALPHA CLOUD, QSO] Extended=NO																						
	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous																														
(2)	QSO-010238+423140	RA: 01 02 38.0800 (15.6586667d) Dec: +42 31 40.40 (42.52789d) Equinox: J2000	Redshift: 2.75	V=18.3+/-0.1 GALEX FUV=20.64 NUV=20.7 7	Reference Frame: ICRS																															
<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>(COS.ta.144 7361)</td> <td>(2) QSO-010238+42 3140</td> <td>COS/NUV, ACQ/IMAGE, PSA</td> <td>MIRRORA</td> <td></td> <td></td> <td></td> <td>30 Secs (30 Secs) [==&gt;]</td> <td>[1]</td> </tr> <tr> <td>2</td> <td>(COS.sp.144 7350)</td> <td>(2) QSO-010238+42 3140</td> <td>COS/FUV, TIME-TAG, PSA</td> <td>G140L 800 A</td> <td>BUFFER-TIME=50 00; FP-POS=ALL</td> <td></td> <td></td> <td>600 Secs (2124 Secs) [==&gt;531.0 Secs (Split 1)] [==&gt;531.0 Secs (Split 2)] [==&gt;531.0 Secs (Split 3)] [==&gt;531.0 Secs (Split 4)]</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	(COS.ta.144 7361)	(2) QSO-010238+42 3140	COS/NUV, ACQ/IMAGE, PSA	MIRRORA				30 Secs (30 Secs) [==>]	[1]	2	(COS.sp.144 7350)	(2) QSO-010238+42 3140	COS/FUV, TIME-TAG, PSA	G140L 800 A	BUFFER-TIME=50 00; FP-POS=ALL			600 Secs (2124 Secs) [==>531.0 Secs (Split 1)] [==>531.0 Secs (Split 2)] [==>531.0 Secs (Split 3)] [==>531.0 Secs (Split 4)]	[1]
#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit																											
1	(COS.ta.144 7361)	(2) QSO-010238+42 3140	COS/NUV, ACQ/IMAGE, PSA	MIRRORA				30 Secs (30 Secs) [==>]	[1]																											
2	(COS.sp.144 7350)	(2) QSO-010238+42 3140	COS/FUV, TIME-TAG, PSA	G140L 800 A	BUFFER-TIME=50 00; FP-POS=ALL			600 Secs (2124 Secs) [==>531.0 Secs (Split 1)] [==>531.0 Secs (Split 2)] [==>531.0 Secs (Split 3)] [==>531.0 Secs (Split 4)]	[1]																											



Proposal 16318 - Visit 03 - The First Measurement of the Distribution of Quasar Lifetimes with the Hell Proximity Effect

Thu Nov 18 15:01:18 GMT 2021

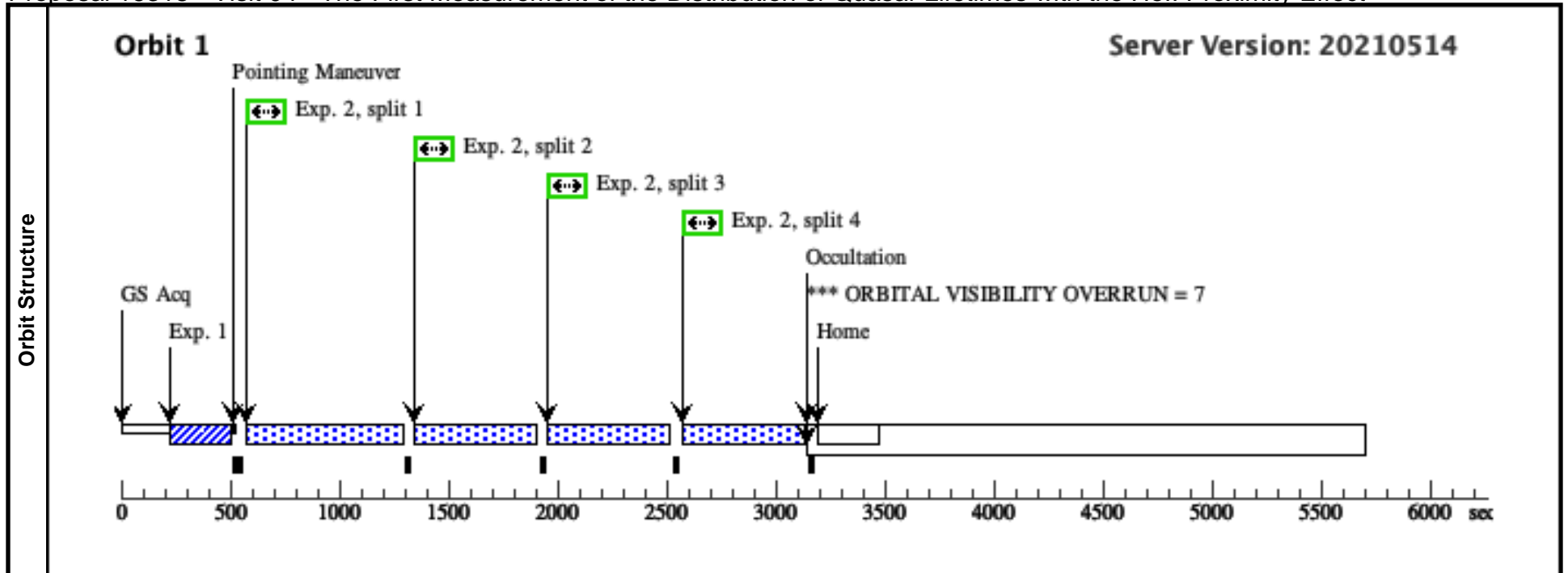
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	(Visit 03) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN									
<b>Fixed Targets</b>	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(3)	UM682	RA: 03 10 28.1000 (47.6170833d) Dec: -19 09 44.00 (-19.16222d) Equinox: J2000	Redshift: 2.76	V=17.7+/-0.1 GALEX FUV=20.07 NUV=19.6 2	Reference Frame: ICRS				
Comments: Category=GALAXY Description=[LYMAN ALPHA CLOUD, QSO] Extended=NO										
<b>Exposures</b>	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(COS.ta.144 7361)	(3) UM682	COS/NUV, ACQ/IMAGE, PSA	MIRRORA				20 Secs (20 Secs) [==>]	[1]
	2	(COS.sp.144 7350)	(3) UM682	COS/FUV, TIME-TAG, PSA	G140L 800 A	BUFFER-TIME=50 00; FP-POS=ALL			600 Secs (2064 Secs) [==>516.0 Secs (Split 1)] [==>516.0 Secs (Split 2)] [==>516.0 Secs (Split 3)] [==>516.0 Secs (Split 4)]	[1]



Proposal 16318 - Visit 04 - The First Measurement of the Distribution of Quasar Lifetimes with the Hell Proximity Effect

Thu Nov 18 15:01:18 GMT 2021

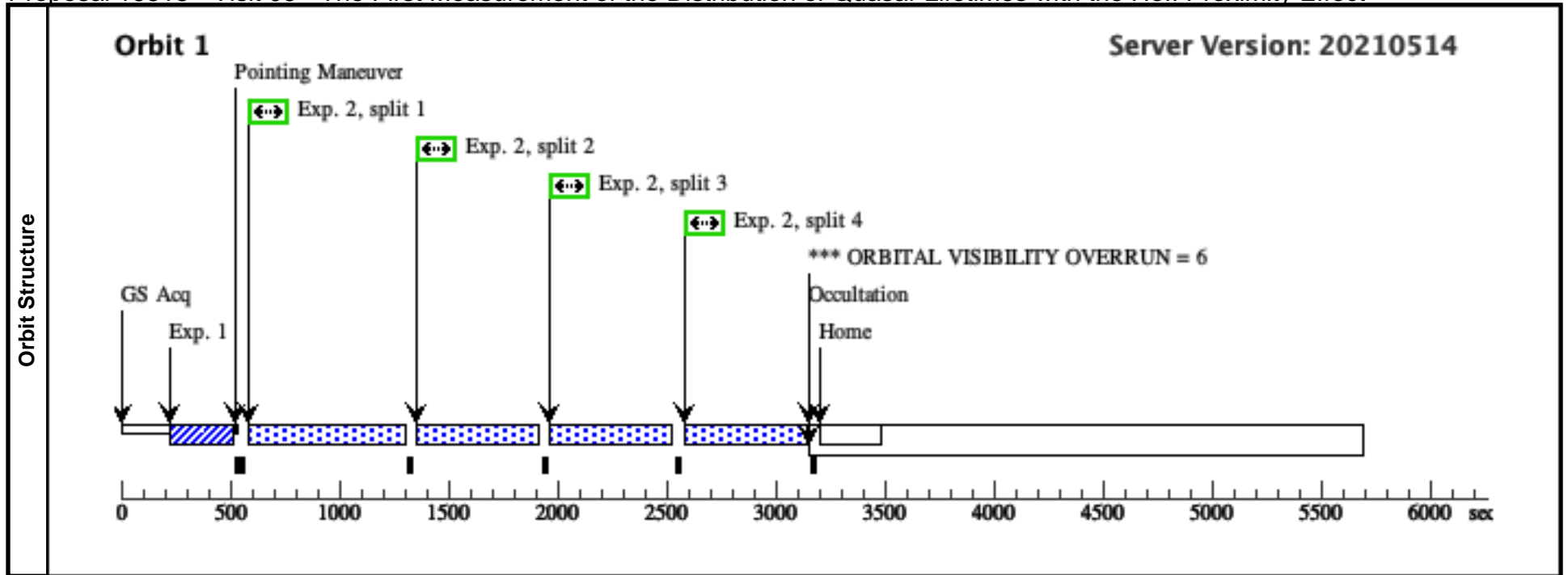
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	(Visit 04) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN									
<b>Fixed Targets</b>	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(4)	QSO-043330-051522	RA: 04 33 30.3600 (68.3765000d) Dec: -05 15 22.90 (-5.25636d) Equinox: J2000	Redshift: 2.79	V=18.6+/-0.1 GALEX FUV=20.58 NUV=20.6 9	Reference Frame: ICRS				
Comments: Category=GALAXY Description=[LYMAN ALPHA CLOUD, QSO] Extended=NO										
<b>Exposures</b>	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(COS.ta.144 7361)	(4) QSO-043330-051 522	COS/NUV, ACQ/IMAGE, PSA	MIRRORA				25 Secs (25 Secs)	
									[==>]	[1]
2	(COS.sp.144 7350)	(4) QSO-043330-051 522	COS/FUV, TIME-TAG, PSA	G140L 800 A	BUFFER-TIME=50 00; FP-POS=ALL				600 Secs (2044 Secs)	
									[==>511.0 Secs (Split 1)] [==>511.0 Secs (Split 2)] [==>511.0 Secs (Split 3)] [==>511.0 Secs (Split 4)]	[1]



Proposal 16318 - Visit 05 - The First Measurement of the Distribution of Quasar Lifetimes with the Hell Proximity Effect

Thu Nov 18 15:01:18 GMT 2021

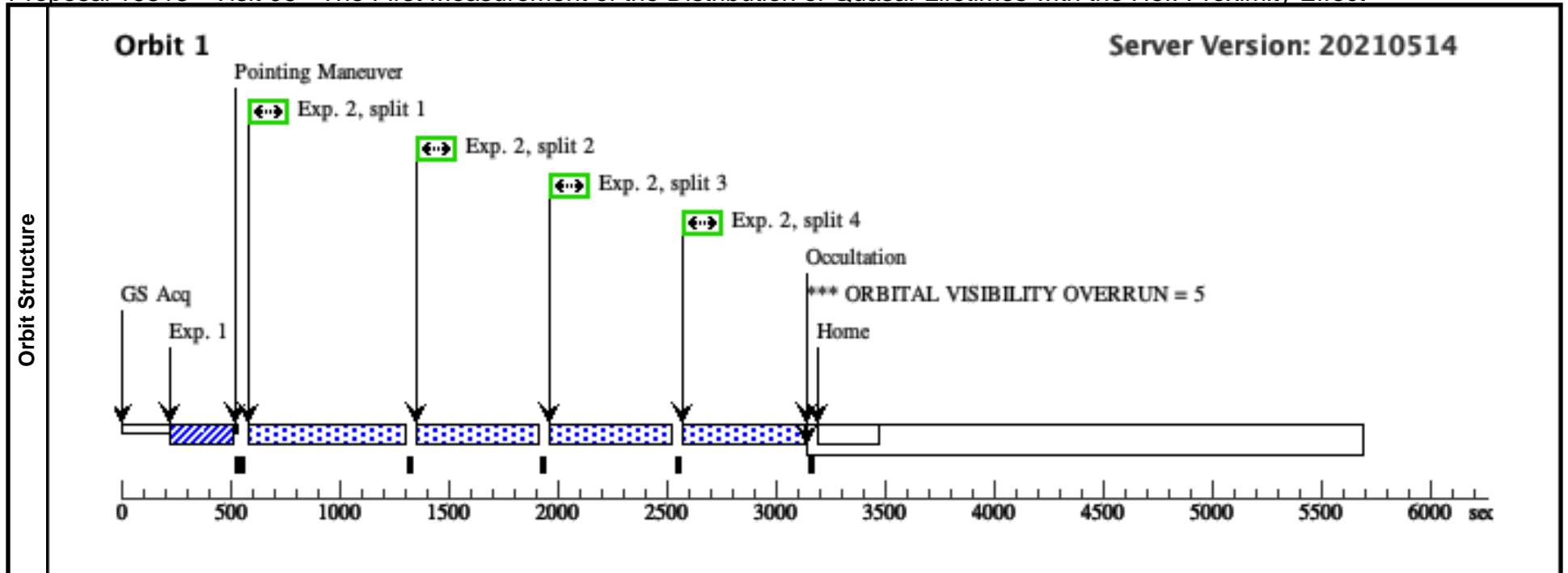
<b>Visit</b>	<b>Proposal 16318, Visit 05, completed</b> <b>Diagnostic Status: Warning</b> Scientific Instruments: COS/FUV, COS/NUV Special Requirements: (none)									
	(Visit 05) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN									
<b>Diagnosics</b>										
<b>Fixed Targets</b>	<b>#</b>	<b>Name</b>	<b>Target Coordinates</b>	<b>Targ. Coord. Corrections</b>	<b>Fluxes</b>	<b>Miscellaneous</b>				
	(5)	QSO-141353+151810	RA: 14 13 53.2500 (213.4718750d) Dec: +15 18 10.30 (15.30286d) Equinox: J2000	Redshift: 2.80	V=19.2+/-0.1 GALEX FUV=20.98 NUV=21.0 3	Reference Frame: ICRS				
Comments: Category=GALAXY Description=[LYMAN ALPHA CLOUD, QSO] Extended=NO										
<b>Exposures</b>	<b>#</b>	<b>Label (ETC Run)</b>	<b>Target</b>	<b>Config,Mode,Aperture</b>	<b>Spectral Els.</b>	<b>Opt. Params.</b>	<b>Special Reqs.</b>	<b>Groups</b>	<b>Exp. Time (Total)/[Actual Dur.]</b>	<b>Orbit</b>
	1	(COS.ta.144 7361)	(5) QSO-141353+151810	COS/NUV, ACQ/IMAGE, PSA	MIRRORA				30 Secs (30 Secs)	
									[==>]	[1]
2	(COS.sp.144 7350)	(5) QSO-141353+151810	COS/FUV, TIME-TAG, PSA	G140L 800 A		BUFFER-TIME=50 00; FP-POS=ALL			600 Secs (2044 Secs)	
									[==>511.0 Secs (Split 1)] [==>511.0 Secs (Split 2)] [==>511.0 Secs (Split 3)] [==>511.0 Secs (Split 4)]	[1]



Proposal 16318 - Visit 06 - The First Measurement of the Distribution of Quasar Lifetimes with the Hell Proximity Effect

Thu Nov 18 15:01:18 GMT 2021

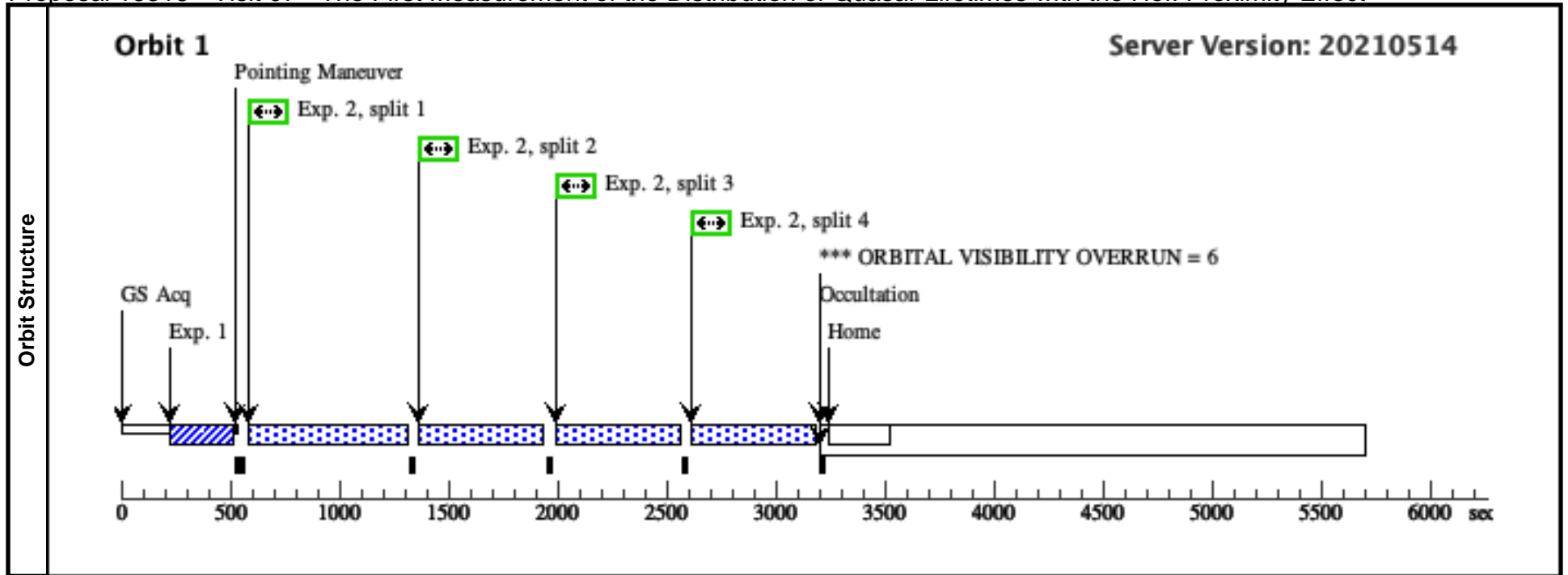
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	(Visit 06) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN									
<b>Fixed Targets</b>	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(6)	QSO-082447-110236	RA: 08 24 47.2600 (126.1969167d) Dec: -11 02 36.00 (-11.04333d) Equinox: J2000	Redshift: 2.80	V=18.8+/-0.1 GALEX FUV=21.12 NUV=21.12	Reference Frame: ICRS				
Comments: Category=GALAXY Description=[LYMAN ALPHA CLOUD, QSO] Extended=NO										
<b>Exposures</b>	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(COS.ta.144 7361)	(6) QSO-082447-110 236	COS/NUV, ACQ/IMAGE, PSA	MIRRORA				30 Secs (30 Secs)	
									[==>]	[1]
2	(COS.sp.144 7350)	(6) QSO-082447-110 236	COS/FUV, TIME-TAG, PSA	G140L 800 A	BUFFER-TIME=50 00; FP-POS=ALL				600 Secs (2036 Secs)	
									[==>509.0 Secs (Split 1)] [==>509.0 Secs (Split 2)] [==>509.0 Secs (Split 3)] [==>509.0 Secs (Split 4)]	[1]



Proposal 16318 - Visit 07 - The First Measurement of the Distribution of Quasar Lifetimes with the Hell Proximity Effect

Thu Nov 18 15:01:18 GMT 2021

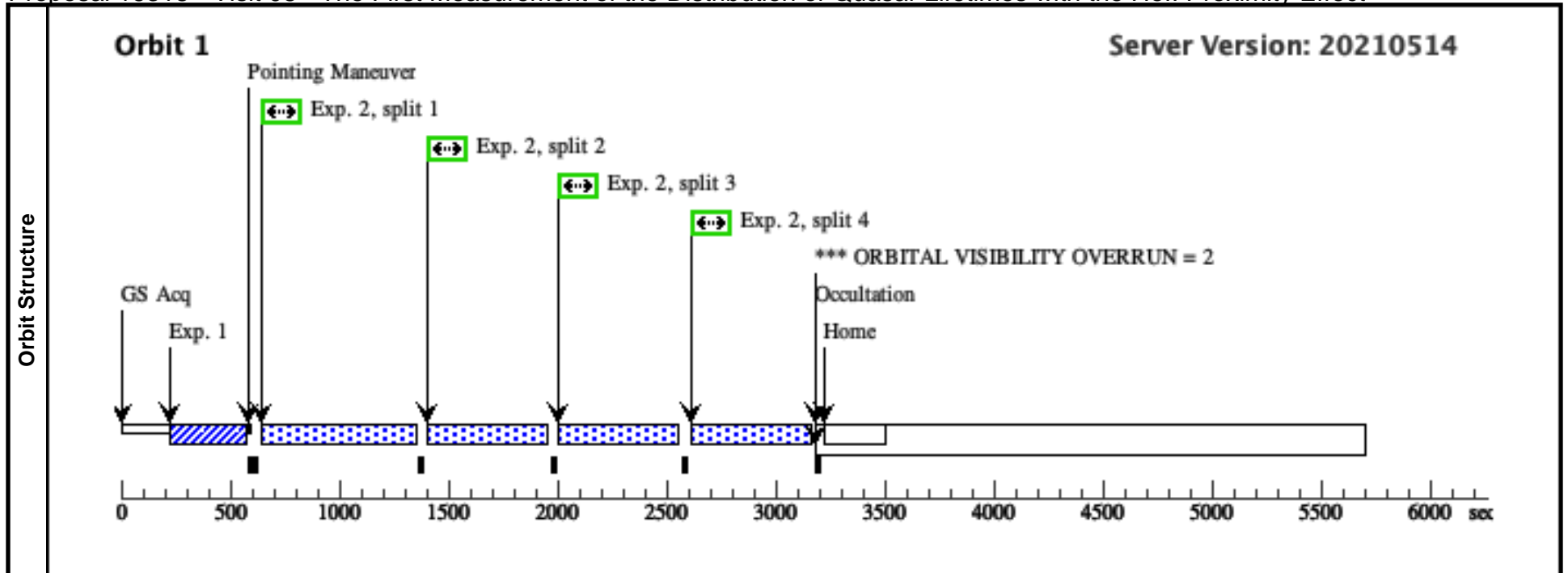
<b>Visit</b>	Proposal 16318, Visit 07, completed Diagnostic Status: Warning Scientific Instruments: COS/FUV, COS/NUV Special Requirements: (none)									
	(Visit 07) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN									
<b>Fixed Targets</b>	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(7)	TOL0207-398	RA: 02 09 28.6000 (32.3691667d) Dec: -39 39 39.00 (-39.66083d) Equinox: J2000	Redshift: 2.81	V=17.0+/-0.1 GALEX FUV=20.23 NUV=20.9 8	Reference Frame: ICRS				
Comments: Category=GALAXY Description=[LYMAN ALPHA CLOUD, QSO] Extended=NO										
<b>Exposures</b>	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(COS.ta.144 7361)	(7) TOL0207-398	COS/NUV, ACQ/IMAGE, PSA	MIRRORA				30 Secs (30 Secs)	
									[==>]	[1]
2	(COS.sp.144 7350)	(7) TOL0207-398	COS/FUV, TIME-TAG, PSA	G140L 800 A		BUFFER-TIME=50 00; FP-POS=ALL			600 Secs (2088 Secs)	
									[==>522.0 Secs (Split 1)] [==>522.0 Secs (Split 2)] [==>522.0 Secs (Split 3)] [==>522.0 Secs (Split 4)]	[1]



Proposal 16318 - Visit 08 - The First Measurement of the Distribution of Quasar Lifetimes with the Hell Proximity Effect

Thu Nov 18 15:01:18 GMT 2021

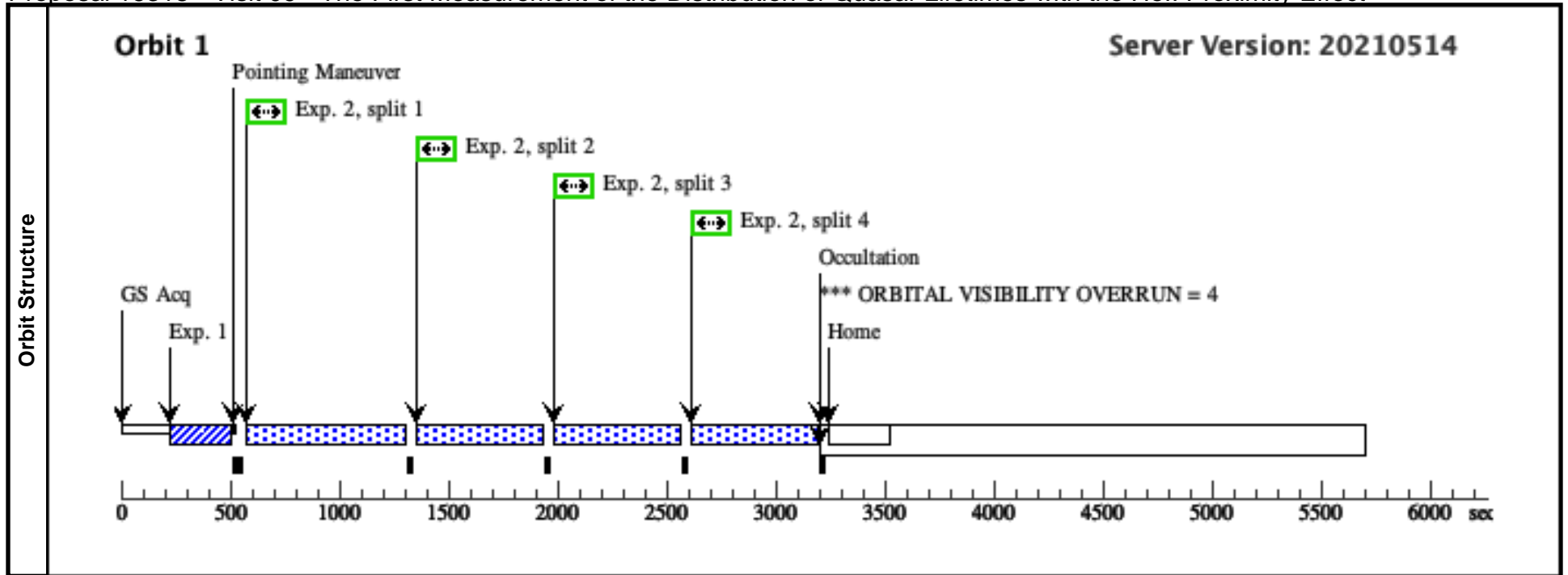
<b>Visit</b>	Proposal 16318, Visit 08, completed Diagnostic Status: Warning Scientific Instruments: COS/FUV, COS/NUV Special Requirements: (none)									
	(Visit 08) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN									
<b>Fixed Targets</b>	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(8)	SDSSJ0037+3014	RA: 00 37 57.4000 (9.4891667d) Dec: +30 14 39.70 (30.24436d) Equinox: J2000	Redshift: 2.82	V=19.2+/-0.1 GALEX FUV=21.37 NUV=21.5 6	Reference Frame: ICRS				
Comments: Category=GALAXY Description=[LYMAN ALPHA CLOUD, QSO] Extended=NO										
<b>Exposures</b>	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(COS.ta.144 7361)	(8) SDSSJ0037+3014 4	COS/NUV, ACQ/IMAGE, PSA	MIRRORA				60 Secs (60 Secs) [==>]	[1]
	2	(COS.sp.144 7350)	(8) SDSSJ0037+3014 4	COS/FUV, TIME-TAG, PSA	G140L 800 A	BUFFER-TIME=50 00; FP-POS=ALL			600 Secs (2004 Secs) [==>501.0 Secs (Split 1)] [==>501.0 Secs (Split 2)] [==>501.0 Secs (Split 3)] [==>501.0 Secs (Split 4)]	[1]



Proposal 16318 - Visit 09 - The First Measurement of the Distribution of Quasar Lifetimes with the Hell Proximity Effect

Thu Nov 18 15:01:18 GMT 2021

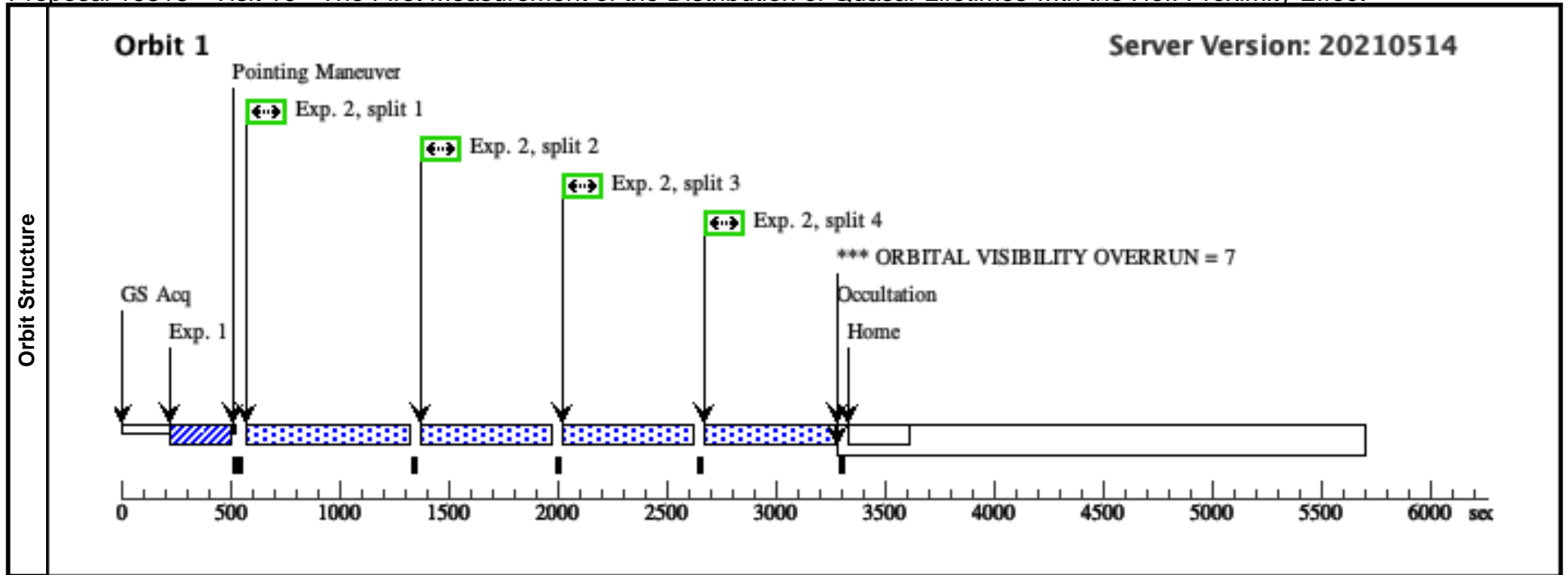
<b>Visit</b>	Proposal 16318, Visit 09, completed Diagnostic Status: Warning Scientific Instruments: COS/FUV, COS/NUV Special Requirements: (none)									
	(Visit 09) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN									
<b>Fixed Targets</b>	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(9)	SDSSJ1519+3609	RA: 15 19 10.3700 (229.7932083d) Dec: +36 09 40.40 (36.16122d) Equinox: J2000	Redshift: 2.82	V=18.8+/-0.1 GALEX FUV=21.01 NUV=20.7 0	Reference Frame: ICRS				
Comments: Category=GALAXY Description=[LYMAN ALPHA CLOUD, QSO] Extended=NO										
<b>Exposures</b>	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(COS.ta.144 7361)	(9) SDSSJ1519+3609	COS/NUV, ACQ/IMAGE, PSA	MIRRORA				25 Secs (25 Secs)	
									[==>]	[1]
	2	(COS.sp.144 7350)	(9) SDSSJ1519+3609	COS/FUV, TIME-TAG, PSA	G140L 800 A	BUFFER-TIME=50 00; FP-POS=ALL			600 Secs (2096 Secs)	
								[==>524.0 Secs (Split 1)] [==>524.0 Secs (Split 2)] [==>524.0 Secs (Split 3)] [==>524.0 Secs (Split 4)]	[1]	



Proposal 16318 - Visit 10 - The First Measurement of the Distribution of Quasar Lifetimes with the Hell Proximity Effect

Thu Nov 18 15:01:18 GMT 2021

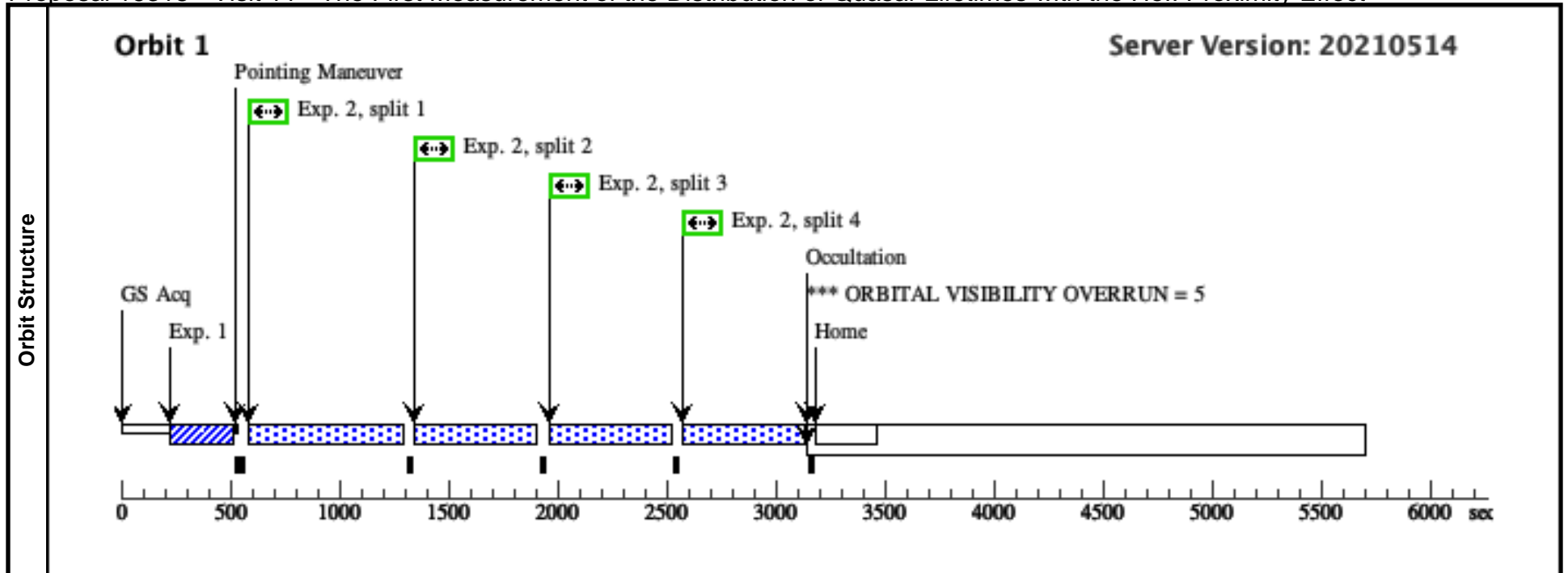
<b>Visit</b>	<b>Proposal 16318, Visit 10, completed</b> <b>Diagnostic Status: Warning</b> Scientific Instruments: COS/FUV, COS/NUV Special Requirements: (none)									
	(Visit 10) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN									
<b>Diagnosics</b>										
<b>Fixed Targets</b>	<b>#</b>	<b>Name</b>	<b>Target Coordinates</b>	<b>Targ. Coord. Corrections</b>	<b>Fluxes</b>	<b>Miscellaneous</b>				
	(10)	QSO-103138+475333	RA: 10 31 38.4100 (157.9100417d) Dec: +47 53 33.60 (47.89267d) Equinox: J2000	Redshift: 2.83	V=18.6+/-0.1 GALEX FUV=21.17 NUV=20.8 0	Reference Frame: ICRS				
Comments: Category=GALAXY Description=[LYMAN ALPHA CLOUD, QSO] Extended=NO										
<b>Exposures</b>	<b>#</b>	<b>Label (ETC Run)</b>	<b>Target</b>	<b>Config,Mode,Aperture</b>	<b>Spectral Els.</b>	<b>Opt. Params.</b>	<b>Special Reqs.</b>	<b>Groups</b>	<b>Exp. Time (Total)/[Actual Dur.]</b>	<b>Orbit</b>
	1	(COS.ta.144 7361)	(10) QSO-103138+475333	COS/NUV, ACQ/IMAGE, PSA	MIRRORA				25 Secs (25 Secs)	
									[==>]	[1]
	2	(COS.sp.144 7350)	(10) QSO-103138+475333	COS/FUV, TIME-TAG, PSA	G140L 800 A	BUFFER-TIME=50 00; FP-POS=ALL				600 Secs (2184 Secs)
									[==>546.0 Secs (Split 1)] [==>546.0 Secs (Split 2)] [==>546.0 Secs (Split 3)] [==>546.0 Secs (Split 4)]	[1]



Proposal 16318 - Visit 11 - The First Measurement of the Distribution of Quasar Lifetimes with the Hell Proximity Effect

Thu Nov 18 15:01:18 GMT 2021

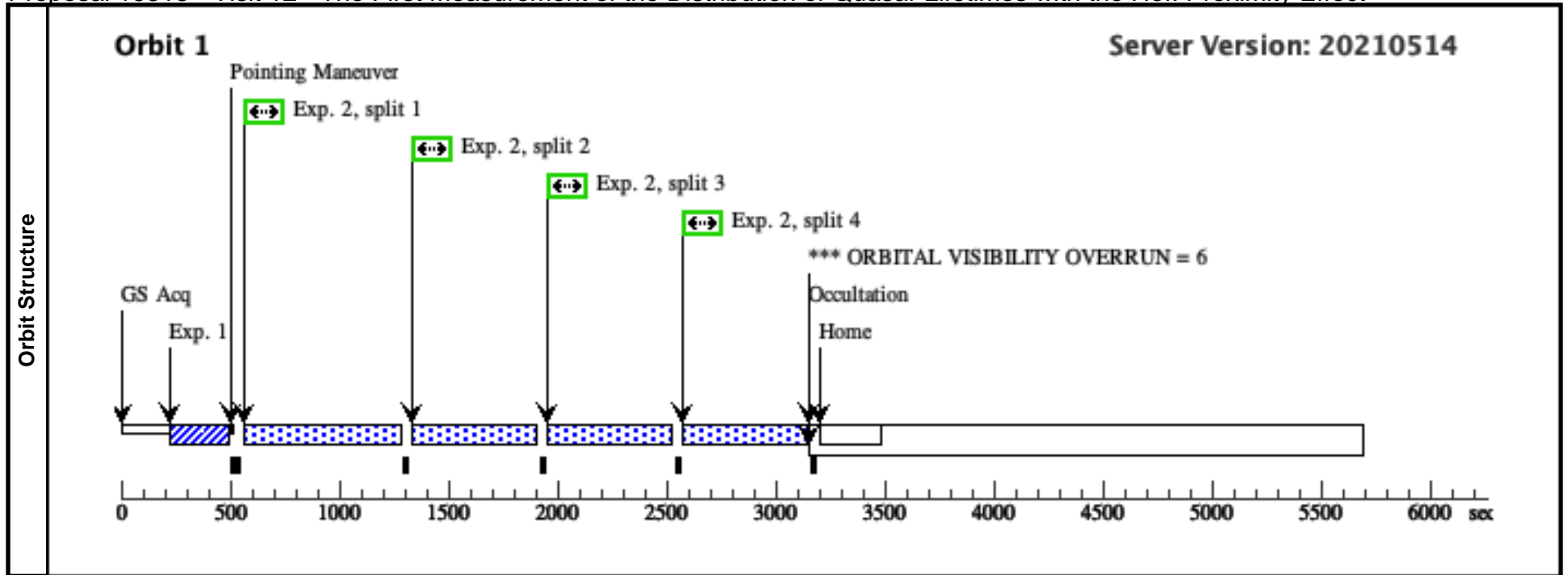
<b>Visit</b>	<b>Proposal 16318, Visit 11, completed</b> <b>Diagnostic Status: Warning</b> Scientific Instruments: COS/FUV, COS/NUV Special Requirements: (none)																																			
	(Visit 11) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN																																			
<b>Fixed Targets</b>	<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>(11)</td> <td>QSO-100246+052642</td> <td>RA: 10 02 46.8700 (150.6952917d) Dec: +05 26 42.70 (5.44519d) Equinox: J2000</td> <td>Redshift: 2.83</td> <td>V=18.5+/-0.1 GALEX FUV=20.69 NUV=21.0 3</td> <td>Reference Frame: ICRS</td> </tr> </tbody> </table>	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous	(11)	QSO-100246+052642	RA: 10 02 46.8700 (150.6952917d) Dec: +05 26 42.70 (5.44519d) Equinox: J2000	Redshift: 2.83	V=18.5+/-0.1 GALEX FUV=20.69 NUV=21.0 3	Reference Frame: ICRS	Comments: Category=GALAXY Description=[LYMAN ALPHA CLOUD, QSO] Extended=NO																						
	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous																														
(11)	QSO-100246+052642	RA: 10 02 46.8700 (150.6952917d) Dec: +05 26 42.70 (5.44519d) Equinox: J2000	Redshift: 2.83	V=18.5+/-0.1 GALEX FUV=20.69 NUV=21.0 3	Reference Frame: ICRS																															
<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>(COS.ta.144 7361)</td> <td>(11) QSO-100246+0 52642</td> <td>COS/NUV, ACQ/IMAGE, PSA</td> <td>MIRRORA</td> <td></td> <td></td> <td></td> <td>30 Secs (30 Secs) [==&gt;]</td> <td>[1]</td> </tr> <tr> <td>2</td> <td>(COS.sp.144 7350)</td> <td>(11) QSO-100246+0 52642</td> <td>COS/FUV, TIME-TAG, PSA</td> <td>G140L 800 A</td> <td>BUFFER-TIME=50 00; FP-POS=ALL</td> <td></td> <td></td> <td>600 Secs (2032 Secs) [==&gt;508.0 Secs (Split 1)] [==&gt;508.0 Secs (Split 2)] [==&gt;508.0 Secs (Split 3)] [==&gt;508.0 Secs (Split 4)]</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	(COS.ta.144 7361)	(11) QSO-100246+0 52642	COS/NUV, ACQ/IMAGE, PSA	MIRRORA				30 Secs (30 Secs) [==>]	[1]	2	(COS.sp.144 7350)	(11) QSO-100246+0 52642	COS/FUV, TIME-TAG, PSA	G140L 800 A	BUFFER-TIME=50 00; FP-POS=ALL			600 Secs (2032 Secs) [==>508.0 Secs (Split 1)] [==>508.0 Secs (Split 2)] [==>508.0 Secs (Split 3)] [==>508.0 Secs (Split 4)]	[1]
#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit																											
1	(COS.ta.144 7361)	(11) QSO-100246+0 52642	COS/NUV, ACQ/IMAGE, PSA	MIRRORA				30 Secs (30 Secs) [==>]	[1]																											
2	(COS.sp.144 7350)	(11) QSO-100246+0 52642	COS/FUV, TIME-TAG, PSA	G140L 800 A	BUFFER-TIME=50 00; FP-POS=ALL			600 Secs (2032 Secs) [==>508.0 Secs (Split 1)] [==>508.0 Secs (Split 2)] [==>508.0 Secs (Split 3)] [==>508.0 Secs (Split 4)]	[1]																											



Proposal 16318 - Visit 12 - The First Measurement of the Distribution of Quasar Lifetimes with the Hell Proximity Effect

Thu Nov 18 15:01:18 GMT 2021

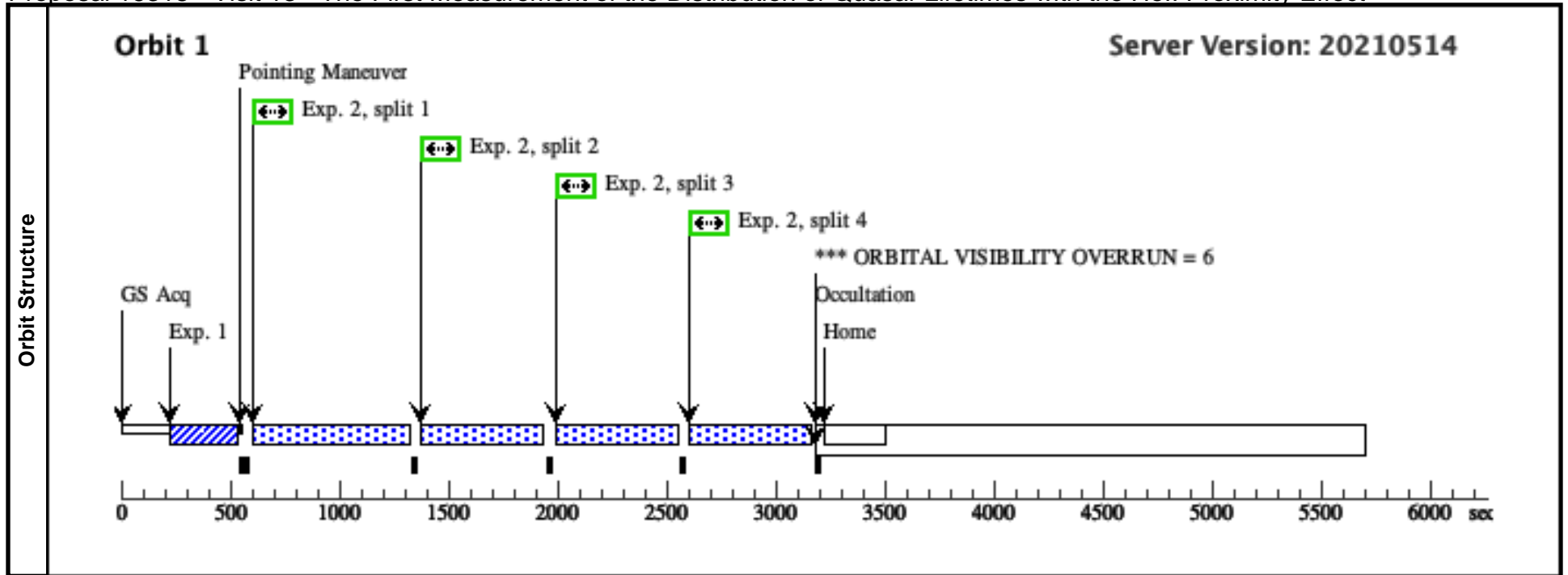
<b>Visit</b>	Proposal 16318, Visit 12, completed <b>Diagnostic Status: Warning</b> Scientific Instruments: COS/FUV, COS/NUV Special Requirements: (none)									
	(Visit 12) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN									
<b>Diagnosics</b>										
<b>Fixed Targets</b>	<b>#</b>	<b>Name</b>	<b>Target Coordinates</b>	<b>Targ. Coord. Corrections</b>	<b>Fluxes</b>	<b>Miscellaneous</b>				
	(12)	QSO-031427-171624	RA: 03 14 27.1100 (48.6129583d) Dec: -17 16 24.60 (-17.27350d) Equinox: J2000	Redshift: 2.84	V=18.0+/-0.1 GALEX FUV=20.47 NUV=20.2 1	Reference Frame: ICRS				
Comments: Category=GALAXY Description=[LYMAN ALPHA CLOUD, QSO] Extended=NO										
<b>Exposures</b>	<b>#</b>	<b>Label (ETC Run)</b>	<b>Target</b>	<b>Config,Mode,Aperture</b>	<b>Spectral Els.</b>	<b>Opt. Params.</b>	<b>Special Reqs.</b>	<b>Groups</b>	<b>Exp. Time (Total)/[Actual Dur.]</b>	<b>Orbit</b>
	1	(COS.ta.144 7361)	(12) QSO-031427-17 1624	COS/NUV, ACQ/IMAGE, PSA	MIRRORA				20 Secs (20 Secs)	
									[==>]	[1]
2	(COS.sp.144 7350)	(12) QSO-031427-17 1624	COS/FUV, TIME-TAG, PSA	G140L 800 A	BUFFER-TIME=50 00; FP-POS=ALL				600 Secs (2064 Secs)	
									[==>516.0 Secs (Split 1)] [==>516.0 Secs (Split 2)] [==>516.0 Secs (Split 3)] [==>516.0 Secs (Split 4)]	[1]



Proposal 16318 - Visit 13 - The First Measurement of the Distribution of Quasar Lifetimes with the Hell Proximity Effect

Thu Nov 18 15:01:18 GMT 2021

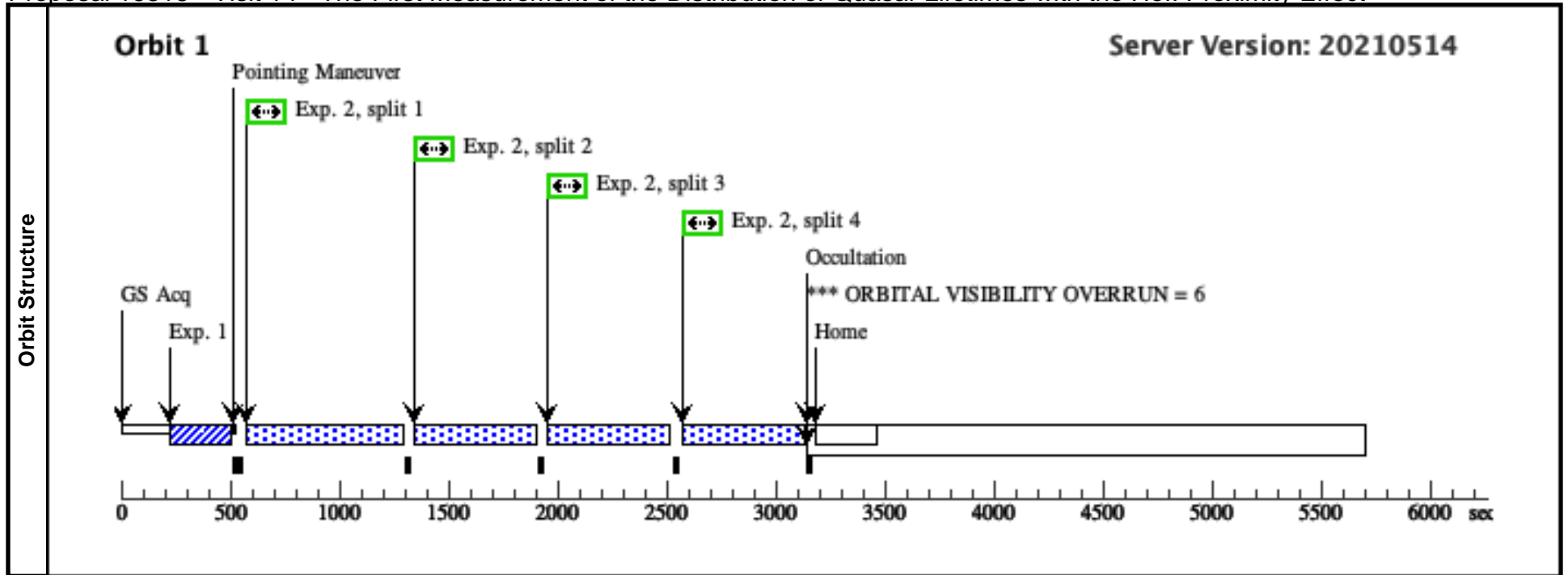
<b>Visit</b>	Proposal 16318, Visit 13, completed <b>Diagnostic Status: Warning</b> Scientific Instruments: COS/FUV, COS/NUV Special Requirements: (none)									
	(Visit 13) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN									
<b>Fixed Targets</b>	<b>#</b>	<b>Name</b>	<b>Target Coordinates</b>	<b>Targ. Coord. Corrections</b>	<b>Fluxes</b>	<b>Miscellaneous</b>				
	(13)	QSO-120321+324533	RA: 12 03 21.5500 (180.8397917d) Dec: +32 45 33.30 (32.75925d) Equinox: J2000	Redshift: 2.84	V=18.9+/-0.1 GALEX FUV=20.84 NUV=21.0 7	Reference Frame: ICRS				
Comments: Category=GALAXY Description=[LYMAN ALPHA CLOUD, QSO] Extended=NO										
<b>Exposures</b>	<b>#</b>	<b>Label (ETC Run)</b>	<b>Target</b>	<b>Config,Mode,Aperture</b>	<b>Spectral Els.</b>	<b>Opt. Params.</b>	<b>Special Reqs.</b>	<b>Groups</b>	<b>Exp. Time (Total)/[Actual Dur.]</b>	<b>Orbit</b>
	1	(COS.ta.144 7361)	(13) QSO-120321+3 24533	COS/NUV, ACQ/IMAGE, PSA	MIRRORA				40 Secs (40 Secs)	
									[==>]	[1]
2	(COS.sp.144 7350)	(13) QSO-120321+3 24533	COS/FUV, TIME-TAG, PSA	G140L 800 A		BUFFER-TIME=50 00; FP-POS=ALL			600 Secs (2048 Secs)	
									[==>512.0 Secs (Split 1)] [==>512.0 Secs (Split 2)] [==>512.0 Secs (Split 3)] [==>512.0 Secs (Split 4)]	[1]



Proposal 16318 - Visit 14 - The First Measurement of the Distribution of Quasar Lifetimes with the Hell Proximity Effect

Thu Nov 18 15:01:18 GMT 2021

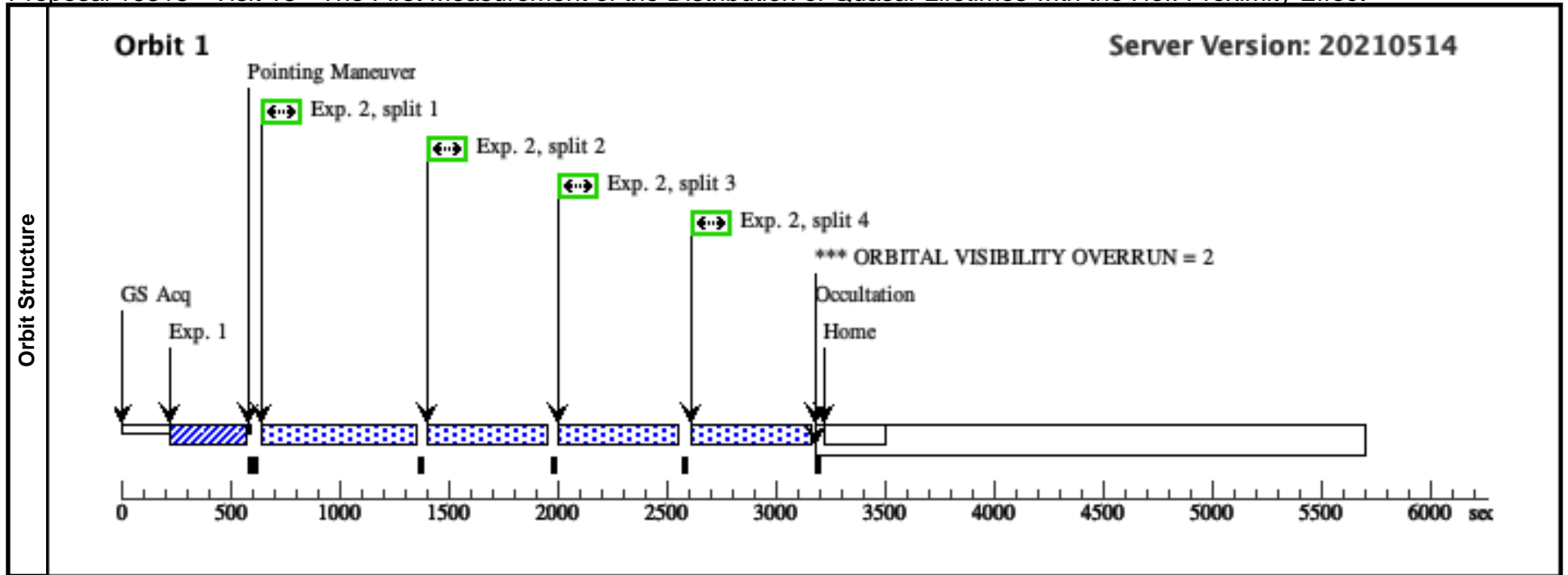
<b>Visit</b>	<b>Proposal 16318, Visit 14, completed</b> <b>Diagnostic Status: Warning</b> Scientific Instruments: COS/FUV, COS/NUV Special Requirements: (none)																																		
	(Visit 14) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN																																		
<b>Diagnosics</b>																																			
<b>Fixed Targets</b>	<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>(14)</td> <td>QSO-092004+010012</td> <td>RA: 09 20 4.9100 (140.0204583d) Dec: +01 00 12.70 (1.00353d) Equinox: J2000</td> <td>Redshift: 2.84</td> <td>V=19.0+/-0.1 GALEX FUV=20.96 NUV=20.4 5</td> <td>Reference Frame: ICRS</td> </tr> </tbody> </table>	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous	(14)	QSO-092004+010012	RA: 09 20 4.9100 (140.0204583d) Dec: +01 00 12.70 (1.00353d) Equinox: J2000	Redshift: 2.84	V=19.0+/-0.1 GALEX FUV=20.96 NUV=20.4 5	Reference Frame: ICRS	Comments: Category=GALAXY Description=[LYMAN ALPHA CLOUD, QSO] Extended=NO																					
	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous																													
(14)	QSO-092004+010012	RA: 09 20 4.9100 (140.0204583d) Dec: +01 00 12.70 (1.00353d) Equinox: J2000	Redshift: 2.84	V=19.0+/-0.1 GALEX FUV=20.96 NUV=20.4 5	Reference Frame: ICRS																														
<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>(COS.ta.144 7361)</td> <td>(14) QSO-092004+010012</td> <td>COS/NUV, ACQ/IMAGE, PSA</td> <td>MIRRORA</td> <td></td> <td></td> <td></td> <td>25 Secs (25 Secs) [==&gt;]</td> <td>[1]</td> </tr> <tr> <td>2</td> <td>(COS.sp.144 7350)</td> <td>(14) QSO-092004+010012</td> <td>COS/FUV, TIME-TAG, PSA</td> <td>G140L 800 A</td> <td>BUFFER-TIME=50 00; FP-POS=ALL</td> <td></td> <td></td> <td>600 Secs (2040 Secs) [==&gt;510.0 Secs (Split 1)] [==&gt;510.0 Secs (Split 2)] [==&gt;510.0 Secs (Split 3)] [==&gt;510.0 Secs (Split 4)]</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	(COS.ta.144 7361)	(14) QSO-092004+010012	COS/NUV, ACQ/IMAGE, PSA	MIRRORA				25 Secs (25 Secs) [==>]	[1]	2	(COS.sp.144 7350)	(14) QSO-092004+010012	COS/FUV, TIME-TAG, PSA	G140L 800 A	BUFFER-TIME=50 00; FP-POS=ALL			600 Secs (2040 Secs) [==>510.0 Secs (Split 1)] [==>510.0 Secs (Split 2)] [==>510.0 Secs (Split 3)] [==>510.0 Secs (Split 4)]	[1]
#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit																										
1	(COS.ta.144 7361)	(14) QSO-092004+010012	COS/NUV, ACQ/IMAGE, PSA	MIRRORA				25 Secs (25 Secs) [==>]	[1]																										
2	(COS.sp.144 7350)	(14) QSO-092004+010012	COS/FUV, TIME-TAG, PSA	G140L 800 A	BUFFER-TIME=50 00; FP-POS=ALL			600 Secs (2040 Secs) [==>510.0 Secs (Split 1)] [==>510.0 Secs (Split 2)] [==>510.0 Secs (Split 3)] [==>510.0 Secs (Split 4)]	[1]																										
<b>Exposures</b>																																			



Proposal 16318 - Visit 15 - The First Measurement of the Distribution of Quasar Lifetimes with the Hell Proximity Effect

Thu Nov 18 15:01:18 GMT 2021

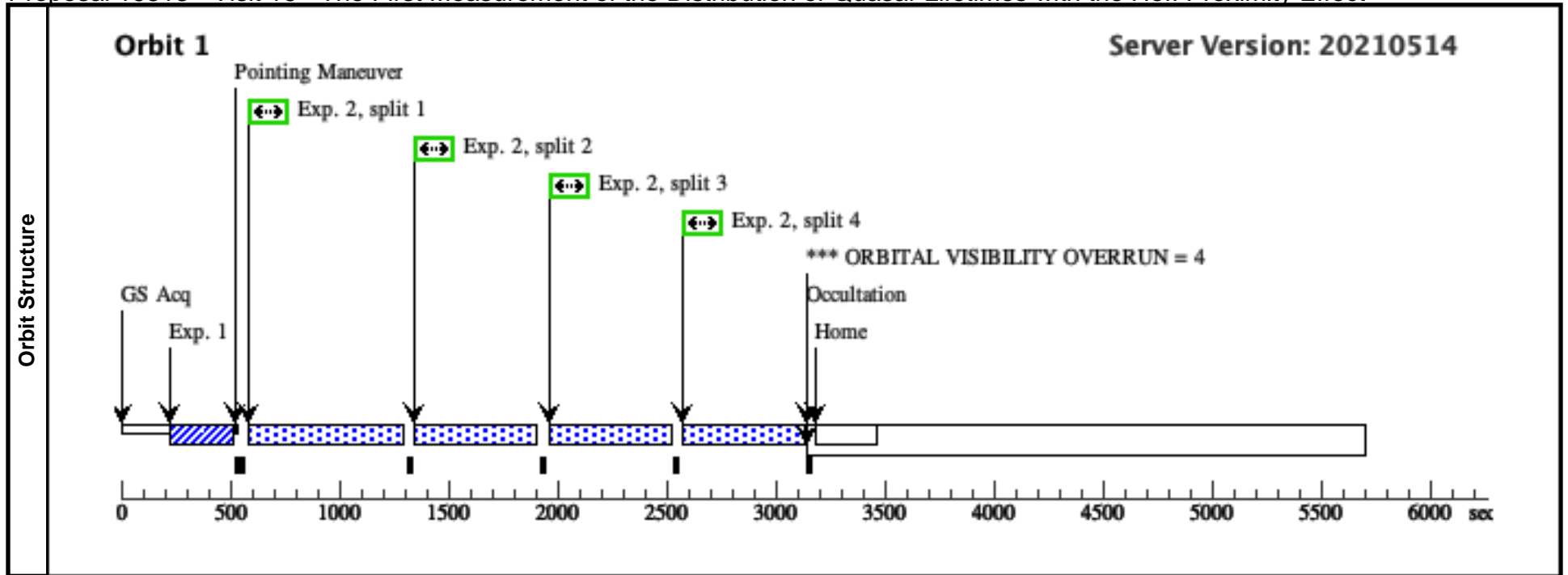
<b>Visit</b>	Proposal 16318, Visit 15, completed <b>Diagnostic Status: Warning</b> Scientific Instruments: COS/FUV, COS/NUV Special Requirements: (none)									
	(Visit 15) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN									
<b>Fixed Targets</b>	<b>#</b>	<b>Name</b>	<b>Target Coordinates</b>	<b>Targ. Coord. Corrections</b>	<b>Fluxes</b>	<b>Miscellaneous</b>				
	(15)	SDSSJ2354+3400	RA: 23 54 4.4400 (358.5185000d) Dec: +34 00 48.60 (34.01350d) Equinox: J2000	Redshift: 2.85	V=18.5+/-0.1 GALEX FUV=20.90 NUV=21.8 1	Reference Frame: ICRS				
Comments: Category=GALAXY Description=[LYMAN ALPHA CLOUD, QSO] Extended=NO										
<b>Exposures</b>	<b>#</b>	<b>Label (ETC Run)</b>	<b>Target</b>	<b>Config,Mode,Aperture</b>	<b>Spectral Els.</b>	<b>Opt. Params.</b>	<b>Special Reqs.</b>	<b>Groups</b>	<b>Exp. Time (Total)/[Actual Dur.]</b>	<b>Orbit</b>
	1	(COS.ta.144 7361)	(15) SDSSJ2354+34 00	COS/NUV, ACQ/IMAGE, PSA	MIRRORA				60 Secs (60 Secs) [==>]	[1]
	2	(COS.sp.144 7350)	(15) SDSSJ2354+34 00	COS/FUV, TIME-TAG, PSA	G140L 800 A	BUFFER-TIME=50 00; FP-POS=ALL			600 Secs (2004 Secs) [==>501.0 Secs (Split 1)] [==>501.0 Secs (Split 2)] [==>501.0 Secs (Split 3)] [==>501.0 Secs (Split 4)]	[1]



Proposal 16318 - Visit 16 - The First Measurement of the Distribution of Quasar Lifetimes with the Hell Proximity Effect

Thu Nov 18 15:01:18 GMT 2021

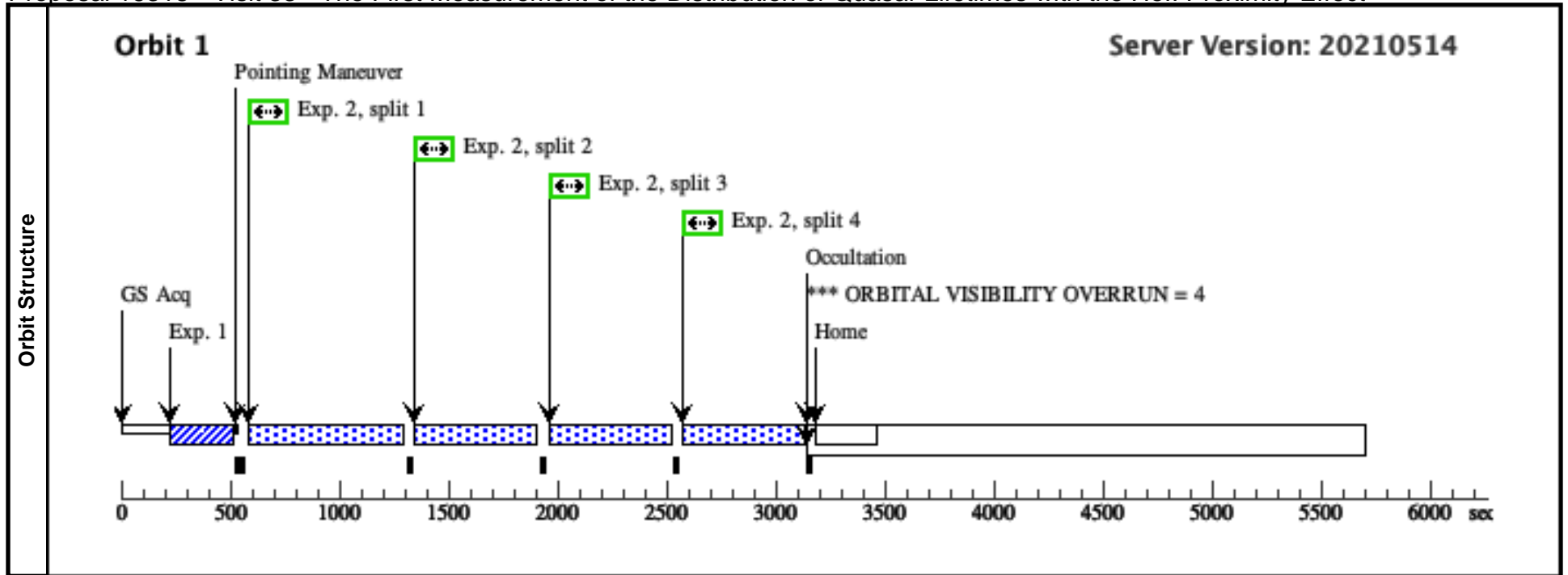
<b>Visit</b>	<b>Proposal 16318, Visit 16, failed</b> <b>Diagnostic Status: Warning</b> Scientific Instruments: COS/FUV, COS/NUV Special Requirements: (none)									
	(Visit 16) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN									
<b>Diagnosics</b>										
<b>Fixed Targets</b>	<b>#</b>	<b>Name</b>	<b>Target Coordinates</b>	<b>Targ. Coord. Corrections</b>	<b>Fluxes</b>	<b>Miscellaneous</b>				
	(16)	SDSSJ0046-0224	RA: 00 46 2.3400 (11.5097500d) Dec: -02 24 49.70 (-2.41381d) Equinox: J2000	Redshift: 2.85	V=19.4+/-0.1 GALEX FUV=21.39 NUV=20.9 3	Reference Frame: ICRS				
Comments: Category=GALAXY Description=[LYMAN ALPHA CLOUD, QSO] Extended=NO										
<b>Exposures</b>	<b>#</b>	<b>Label (ETC Run)</b>	<b>Target</b>	<b>Config,Mode,Aperture</b>	<b>Spectral Els.</b>	<b>Opt. Params.</b>	<b>Special Reqs.</b>	<b>Groups</b>	<b>Exp. Time (Total)/[Actual Dur.]</b>	<b>Orbit</b>
	1	(COS.ta.144 7361)	(16) SDSSJ0046-0224 4	COS/NUV, ACQ/IMAGE, PSA	MIRRORA				30 Secs (30 Secs)	
									[==>]	[1]
2	(COS.sp.144 7350)	(16) SDSSJ0046-0224 4	COS/FUV, TIME-TAG, PSA	G140L 800 A		BUFFER-TIME=50 00; FP-POS=ALL			600 Secs (2028 Secs)	
									[==>507.0 Secs (Split 1)] [==>507.0 Secs (Split 2)] [==>507.0 Secs (Split 3)] [==>507.0 Secs (Split 4)]	[1]



Proposal 16318 - Visit 33 - The First Measurement of the Distribution of Quasar Lifetimes with the Hell Proximity Effect

Thu Nov 18 15:01:18 GMT 2021

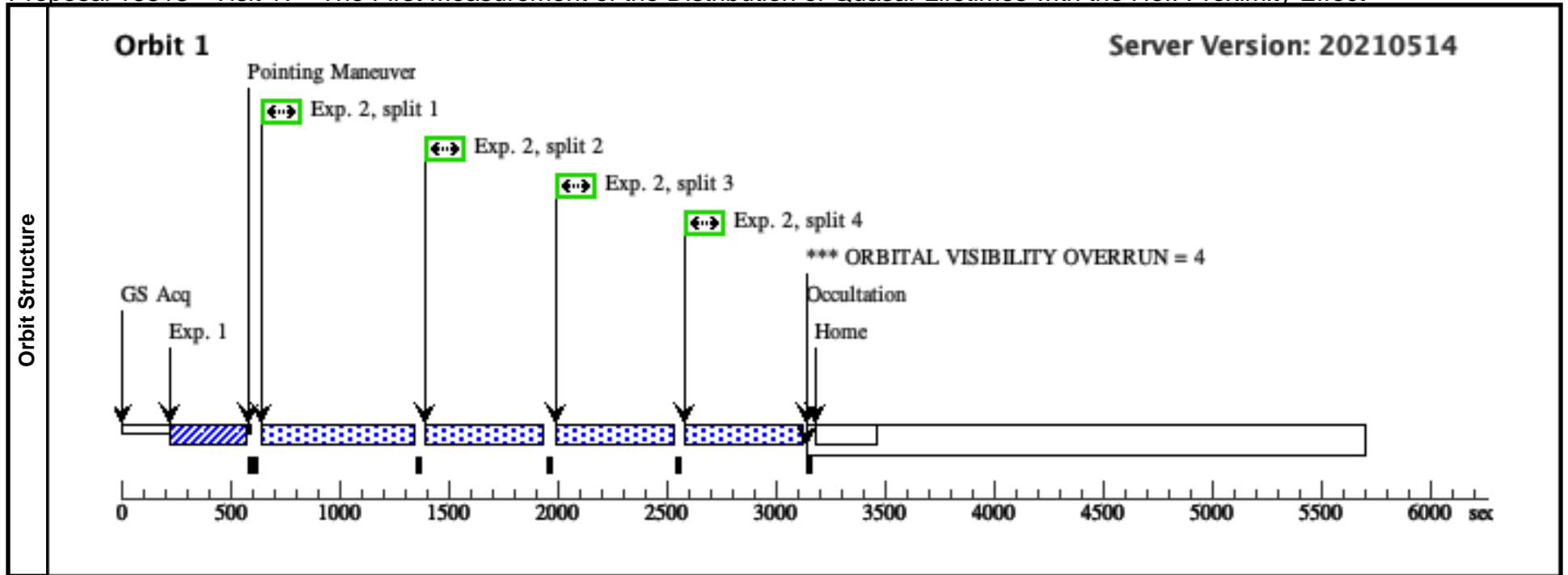
<b>Visit</b>	<b>Proposal 16318, Visit 33, completed</b> <b>Diagnostic Status: Warning</b> Scientific Instruments: COS/FUV, COS/NUV Special Requirements: (none) <i>Comments: HOPR repeat of visit 16</i>																																		
	(Visit 33) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN																																		
<b>Diagnostics</b>																																			
<b>Fixed Targets</b>	<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>(16)</td> <td>SDSSJ0046-0224</td> <td>RA: 00 46 2.3400 (11.5097500d) Dec: -02 24 49.70 (-2.41381d) Equinox: J2000</td> <td>Redshift: 2.85</td> <td>V=19.4+/-0.1 GALEX FUV=21.39 NUV=20.9 3</td> <td>Reference Frame: ICRS</td> </tr> </tbody> </table>	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous	(16)	SDSSJ0046-0224	RA: 00 46 2.3400 (11.5097500d) Dec: -02 24 49.70 (-2.41381d) Equinox: J2000	Redshift: 2.85	V=19.4+/-0.1 GALEX FUV=21.39 NUV=20.9 3	Reference Frame: ICRS	<i>Comments:</i> Category=GALAXY Description=[LYMAN ALPHA CLOUD, QSO] Extended=NO																					
	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous																													
(16)	SDSSJ0046-0224	RA: 00 46 2.3400 (11.5097500d) Dec: -02 24 49.70 (-2.41381d) Equinox: J2000	Redshift: 2.85	V=19.4+/-0.1 GALEX FUV=21.39 NUV=20.9 3	Reference Frame: ICRS																														
<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>(COS.ta.144 7361)</td> <td>(16) SDSSJ0046-0224 4</td> <td>COS/NUV, ACQ/IMAGE, PSA</td> <td>MIRRORA</td> <td></td> <td></td> <td></td> <td>30 Secs (30 Secs) [==&gt;]</td> <td>[1]</td> </tr> <tr> <td>2</td> <td>(COS.sp.144 7350)</td> <td>(16) SDSSJ0046-0224 4</td> <td>COS/FUV, TIME-TAG, PSA</td> <td>G140L 800 A</td> <td>BUFFER-TIME=50 00; FP-POS=ALL</td> <td></td> <td></td> <td>600 Secs (2028 Secs) [==&gt;507.0 Secs (Split 1)] [==&gt;507.0 Secs (Split 2)] [==&gt;507.0 Secs (Split 3)] [==&gt;507.0 Secs (Split 4)]</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	(COS.ta.144 7361)	(16) SDSSJ0046-0224 4	COS/NUV, ACQ/IMAGE, PSA	MIRRORA				30 Secs (30 Secs) [==>]	[1]	2	(COS.sp.144 7350)	(16) SDSSJ0046-0224 4	COS/FUV, TIME-TAG, PSA	G140L 800 A	BUFFER-TIME=50 00; FP-POS=ALL			600 Secs (2028 Secs) [==>507.0 Secs (Split 1)] [==>507.0 Secs (Split 2)] [==>507.0 Secs (Split 3)] [==>507.0 Secs (Split 4)]	[1]
#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit																										
1	(COS.ta.144 7361)	(16) SDSSJ0046-0224 4	COS/NUV, ACQ/IMAGE, PSA	MIRRORA				30 Secs (30 Secs) [==>]	[1]																										
2	(COS.sp.144 7350)	(16) SDSSJ0046-0224 4	COS/FUV, TIME-TAG, PSA	G140L 800 A	BUFFER-TIME=50 00; FP-POS=ALL			600 Secs (2028 Secs) [==>507.0 Secs (Split 1)] [==>507.0 Secs (Split 2)] [==>507.0 Secs (Split 3)] [==>507.0 Secs (Split 4)]	[1]																										
<b>Exposures</b>																																			



Proposal 16318 - Visit 17 - The First Measurement of the Distribution of Quasar Lifetimes with the Hell Proximity Effect

Thu Nov 18 15:01:18 GMT 2021

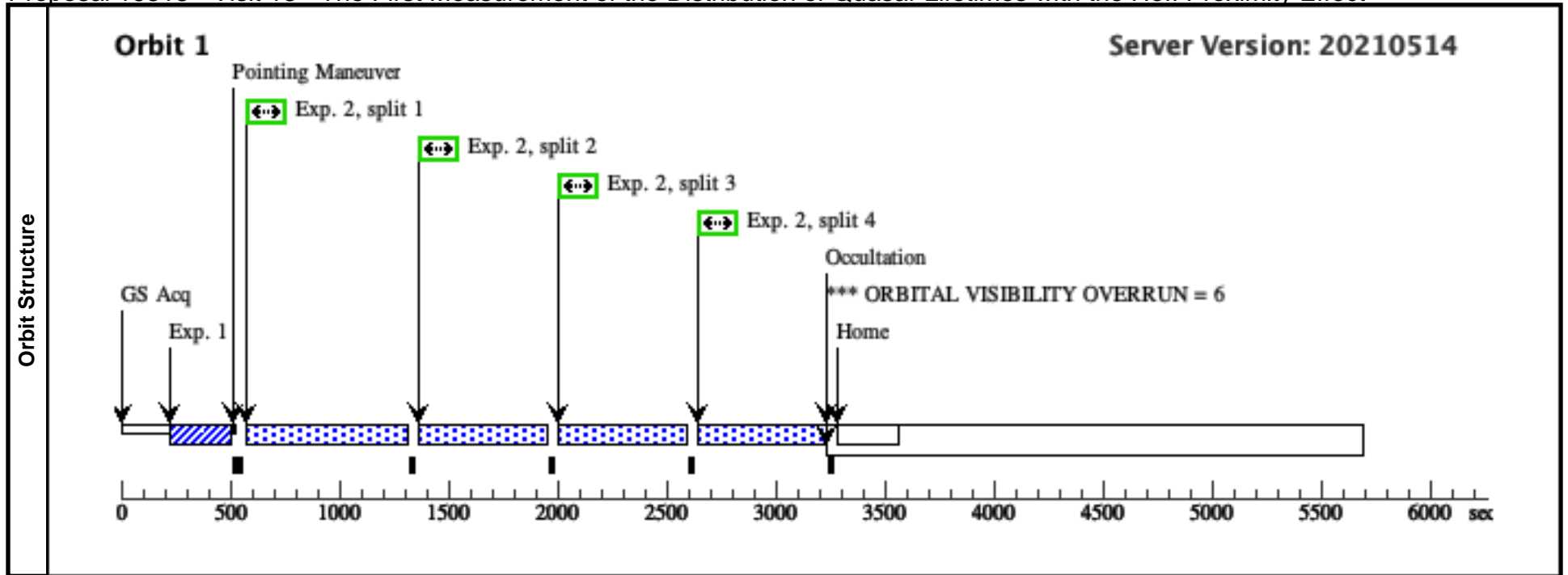
<b>Visit</b>	<b>Proposal 16318, Visit 17, completed</b> <b>Diagnostic Status: Warning</b> Scientific Instruments: COS/FUV, COS/NUV Special Requirements: (none)									
	(Visit 17) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN									
<b>Diagnostics</b>										
<b>Fixed Targets</b>	<b>#</b>	<b>Name</b>	<b>Target Coordinates</b>	<b>Targ. Coord. Corrections</b>	<b>Fluxes</b>	<b>Miscellaneous</b>				
	(17)	QSO-155804+013409	RA: 15 58 4.1500 (239.5172917d) Dec: +01 34 9.00 (1.56917d) Equinox: J2000	Redshift: 2.85	V=18.5+/-0.1 GALEX FUV=21.31 NUV=21.7 0	Reference Frame: ICRS				
Comments: Category=GALAXY Description=[LYMAN ALPHA CLOUD, QSO] Extended=NO										
<b>Exposures</b>	<b>#</b>	<b>Label (ETC Run)</b>	<b>Target</b>	<b>Config,Mode,Aperture</b>	<b>Spectral Els.</b>	<b>Opt. Params.</b>	<b>Special Reqs.</b>	<b>Groups</b>	<b>Exp. Time (Total)/[Actual Dur.]</b>	<b>Orbit</b>
	1	(COS.ta.144 7361)	(17) QSO-155804+013409	COS/NUV, ACQ/IMAGE, PSA	MIRRORA				60 Secs (60 Secs) [==>]	[1]
	2	(COS.sp.144 7350)	(17) QSO-155804+013409	COS/FUV, TIME-TAG, PSA	G140L 800 A	BUFFER-TIME=50 00; FP-POS=ALL			600 Secs (1968 Secs) [==>492.0 Secs (Split 1)] [==>492.0 Secs (Split 2)] [==>492.0 Secs (Split 3)] [==>492.0 Secs (Split 4)]	[1]



Proposal 16318 - Visit 18 - The First Measurement of the Distribution of Quasar Lifetimes with the Hell Proximity Effect

Thu Nov 18 15:01:18 GMT 2021

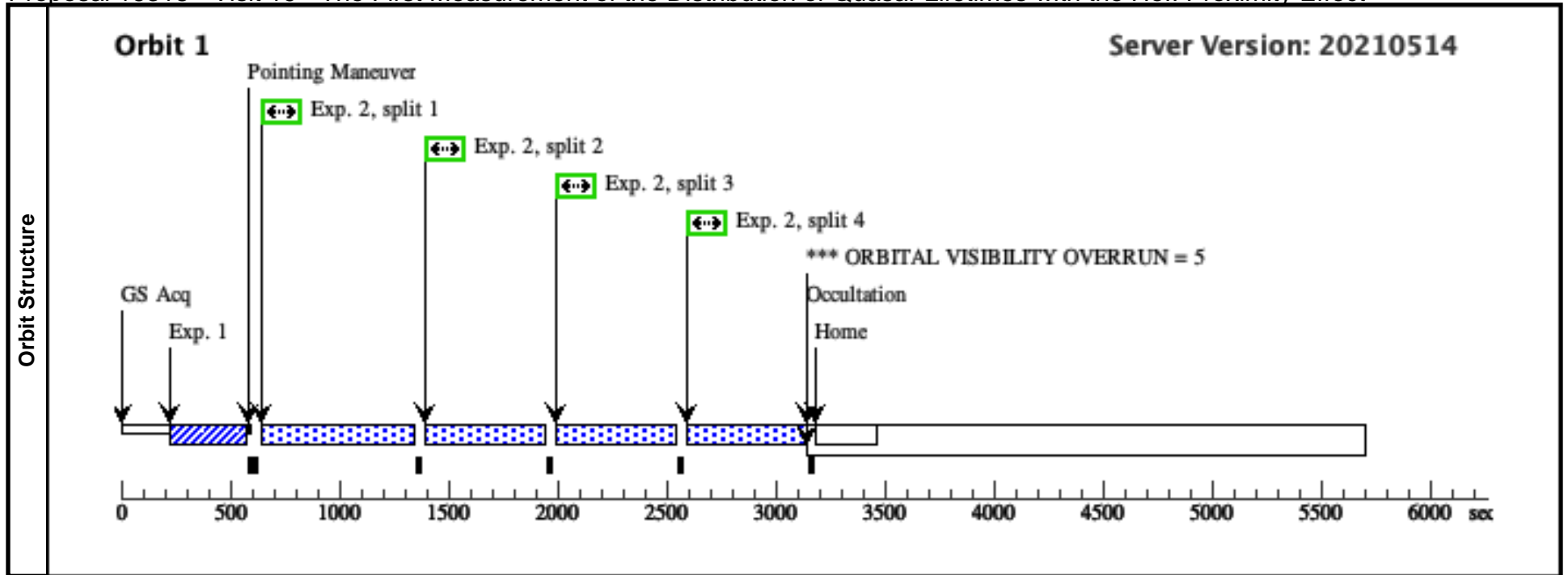
<b>Visit</b>	<b>Proposal 16318, Visit 18, completed</b> <b>Diagnostic Status: Warning</b> Scientific Instruments: COS/FUV, COS/NUV Special Requirements: (none)									
	(Visit 18) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN									
<b>Diagnostics</b>										
<b>Fixed Targets</b>	<b>#</b>	<b>Name</b>	<b>Target Coordinates</b>	<b>Targ. Coord. Corrections</b>	<b>Fluxes</b>	<b>Miscellaneous</b>				
	(18)	QSO-014515+411618	RA: 01 45 15.1900 (26.3132917d) Dec: +41 16 18.00 (41.27167d) Equinox: J2000	Redshift: 2.87	V=18.3+/-0.1 GALEX FUV=20.55 NUV=20.6 6	Reference Frame: ICRS				
Comments: Category=GALAXY Description=[LYMAN ALPHA CLOUD, QSO] Extended=NO										
<b>Exposures</b>	<b>#</b>	<b>Label (ETC Run)</b>	<b>Target</b>	<b>Config,Mode,Aperture</b>	<b>Spectral Els.</b>	<b>Opt. Params.</b>	<b>Special Reqs.</b>	<b>Groups</b>	<b>Exp. Time (Total)/[Actual Dur.]</b>	<b>Orbit</b>
	1	(COS.ta.144 7361)	(18) QSO-014515+411618	COS/NUV, ACQ/IMAGE, PSA	MIRRORA				25 Secs (25 Secs) [==>]	[1]
	2	(COS.sp.144 7350)	(18) QSO-014515+411618	COS/FUV, TIME-TAG, PSA	G140L 800 A	BUFFER-TIME=50 00; FP-POS=ALL			600 Secs (2136 Secs) [==>534.0 Secs (Split 1)] [==>534.0 Secs (Split 2)] [==>534.0 Secs (Split 3)] [==>534.0 Secs (Split 4)]	[1]



Proposal 16318 - Visit 19 - The First Measurement of the Distribution of Quasar Lifetimes with the Hell Proximity Effect

Thu Nov 18 15:01:18 GMT 2021

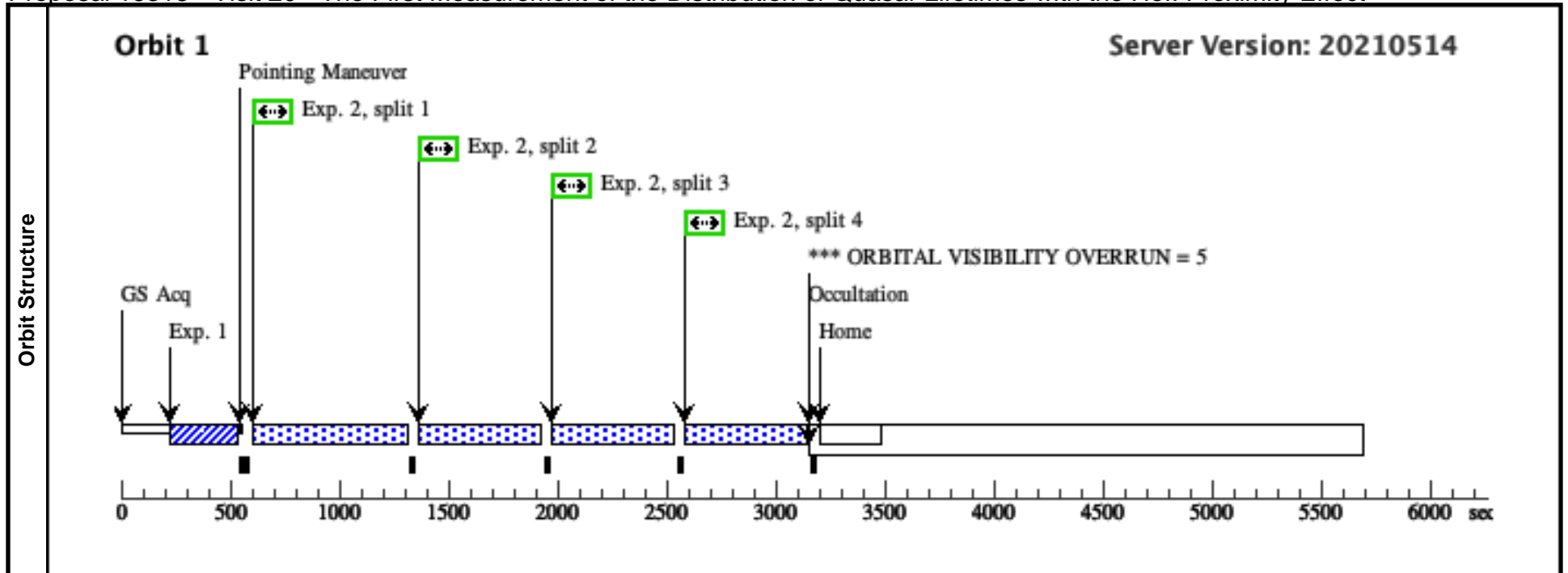
<b>Visit</b>	<b>Proposal 16318, Visit 19, completed</b> <b>Diagnostic Status: Warning</b> Scientific Instruments: COS/FUV, COS/NUV Special Requirements: (none)									
	(Visit 19) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN									
<b>Diagnosics</b>										
<b>Fixed Targets</b>	<b>#</b>	<b>Name</b>	<b>Target Coordinates</b>	<b>Targ. Coord. Corrections</b>	<b>Fluxes</b>	<b>Miscellaneous</b>				
	(19)	SDSSJ1404+0728	RA: 14 04 32.9900 (211.1374583d) Dec: +07 28 46.90 (7.47969d) Equinox: J2000	Redshift: 2.88	V=19.0+/-0.1 GALEX FUV=21.23 NUV=21.8 2	Reference Frame: ICRS				
Comments: Category=GALAXY Description=[LYMAN ALPHA CLOUD, QSO] Extended=NO										
<b>Exposures</b>	<b>#</b>	<b>Label (ETC Run)</b>	<b>Target</b>	<b>Config,Mode,Aperture</b>	<b>Spectral Els.</b>	<b>Opt. Params.</b>	<b>Special Reqs.</b>	<b>Groups</b>	<b>Exp. Time (Total)/[Actual Dur.]</b>	<b>Orbit</b>
	1	(COS.ta.144 7361)	(19) SDSSJ1404+0728	COS/NUV, ACQ/IMAGE, PSA	MIRRORA				60 Secs (60 Secs) [==>]	[1]
	2	(COS.sp.144 7350)	(19) SDSSJ1404+0728	COS/FUV, TIME-TAG, PSA	G140L 800 A	BUFFER-TIME=50 00; FP-POS=ALL			600 Secs (1972 Secs) [==>493.0 Secs (Split 1)] [==>493.0 Secs (Split 2)] [==>493.0 Secs (Split 3)] [==>493.0 Secs (Split 4)]	[1]



Proposal 16318 - Visit 20 - The First Measurement of the Distribution of Quasar Lifetimes with the Hell Proximity Effect

Thu Nov 18 15:01:19 GMT 2021

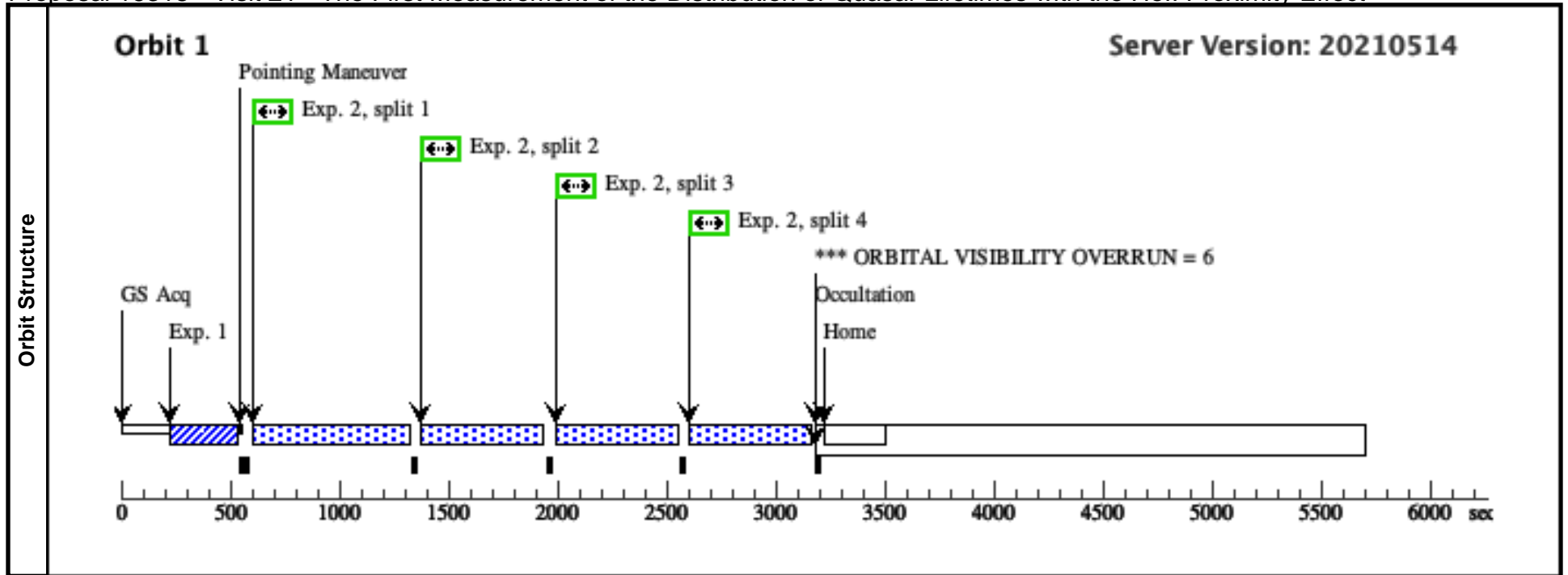
<b>Visit</b>	Proposal 16318, Visit 20, completed <b>Diagnostic Status: Warning</b> Scientific Instruments: COS/FUV, COS/NUV Special Requirements: (none)									
	(Visit 20) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN									
<b>Diagnosics</b>										
<b>Fixed Targets</b>	<b>#</b>	<b>Name</b>	<b>Target Coordinates</b>	<b>Targ. Coord. Corrections</b>	<b>Fluxes</b>	<b>Miscellaneous</b>				
	(20)	QSO-031642-233840	RA: 03 16 42.6400 (49.1776667d) Dec: -23 38 40.30 (-23.64453d) Equinox: J2000	Redshift: 2.88	V=19.2+/-0.1 GALEX FUV=21.38 NUV=21.3 6	Reference Frame: ICRS				
Comments: Category=GALAXY Description=[LYMAN ALPHA CLOUD, QSO] Extended=NO										
<b>Exposures</b>	<b>#</b>	<b>Label (ETC Run)</b>	<b>Target</b>	<b>Config,Mode,Aperture</b>	<b>Spectral Els.</b>	<b>Opt. Params.</b>	<b>Special Reqs.</b>	<b>Groups</b>	<b>Exp. Time (Total)/[Actual Dur.]</b>	<b>Orbit</b>
	1	(COS.ta.144 7361)	(20) QSO-031642-23 3840	COS/NUV, ACQ/IMAGE, PSA	MIRRORA				40 Secs (40 Secs)	
									[==>]	[1]
	2	(COS.sp.144 7350)	(20) QSO-031642-23 3840	COS/FUV, TIME-TAG, PSA	G140L 800 A	BUFFER-TIME=50 00; FP-POS=ALL			600 Secs (2024 Secs)	
								[==>506.0 Secs (Split 1)] [==>506.0 Secs (Split 2)] [==>506.0 Secs (Split 3)] [==>506.0 Secs (Split 4)]	[1]	



Proposal 16318 - Visit 21 - The First Measurement of the Distribution of Quasar Lifetimes with the Hell Proximity Effect

Thu Nov 18 15:01:19 GMT 2021

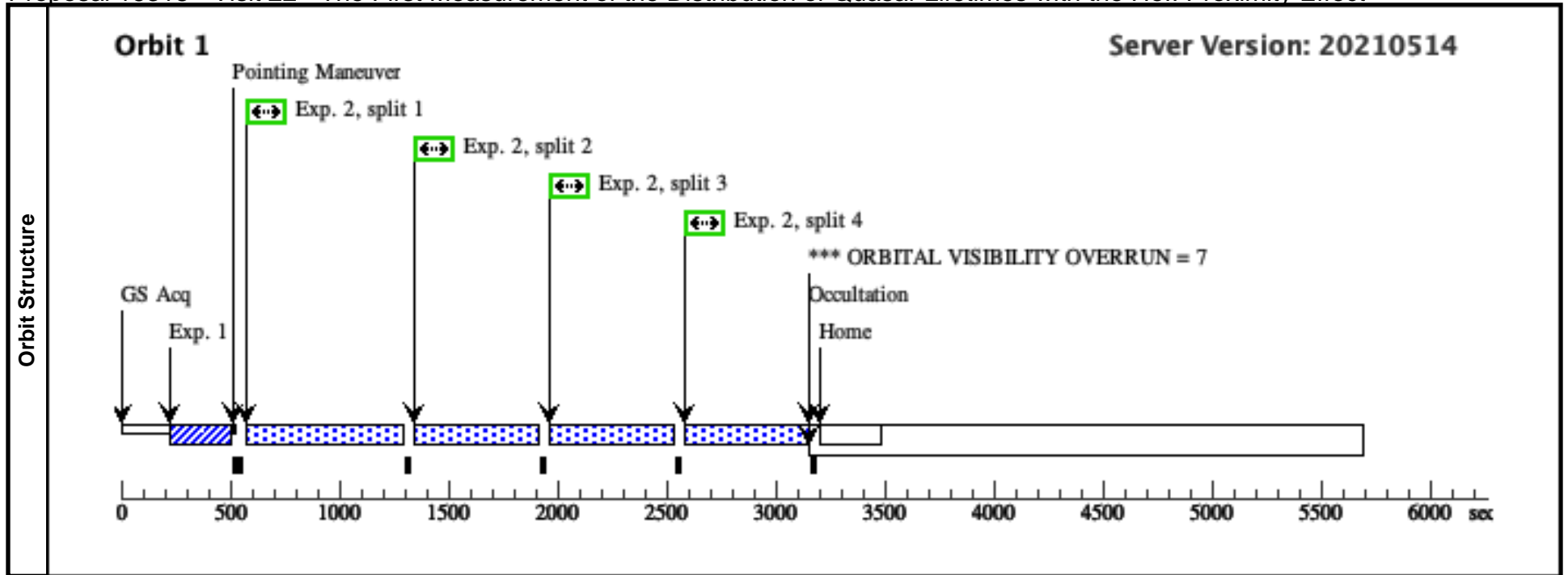
<b>Visit</b>	Proposal 16318, Visit 21, completed <b>Diagnostic Status: Warning</b> Scientific Instruments: COS/FUV, COS/NUV Special Requirements: (none)									
	(Visit 21) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN									
<b>Diagnosics</b>										
<b>Fixed Targets</b>	<b>#</b>	<b>Name</b>	<b>Target Coordinates</b>	<b>Targ. Coord. Corrections</b>	<b>Fluxes</b>	<b>Miscellaneous</b>				
	(21)	SDSSJ1053+3259	RA: 10 53 44.2500 (163.4343750d) Dec: +32 59 17.80 (32.98828d) Equinox: J2000	Redshift: 2.88	V=18.9+/-0.1 GALEX FUV=21.31 NUV=21.2 9	Reference Frame: ICRS				
Comments: Category=GALAXY Description=[LYMAN ALPHA CLOUD, QSO] Extended=NO										
<b>Exposures</b>	<b>#</b>	<b>Label (ETC Run)</b>	<b>Target</b>	<b>Config,Mode,Aperture</b>	<b>Spectral Els.</b>	<b>Opt. Params.</b>	<b>Special Reqs.</b>	<b>Groups</b>	<b>Exp. Time (Total)/[Actual Dur.]</b>	<b>Orbit</b>
	1	(COS.ta.144 7361)	(21) SDSSJ1053+32 59	COS/NUV, ACQ/IMAGE, PSA	MIRRORA				40 Secs (40 Secs) [==>]	[1]
	2	(COS.sp.144 7350)	(21) SDSSJ1053+32 59	COS/FUV, TIME-TAG, PSA	G140L 800 A	BUFFER-TIME=50 00; FP-POS=ALL			600 Secs (2048 Secs) [==>512.0 Secs (Split 1)] [==>512.0 Secs (Split 2)] [==>512.0 Secs (Split 3)] [==>512.0 Secs (Split 4)]	[1]



Proposal 16318 - Visit 22 - The First Measurement of the Distribution of Quasar Lifetimes with the Hell Proximity Effect

Thu Nov 18 15:01:19 GMT 2021

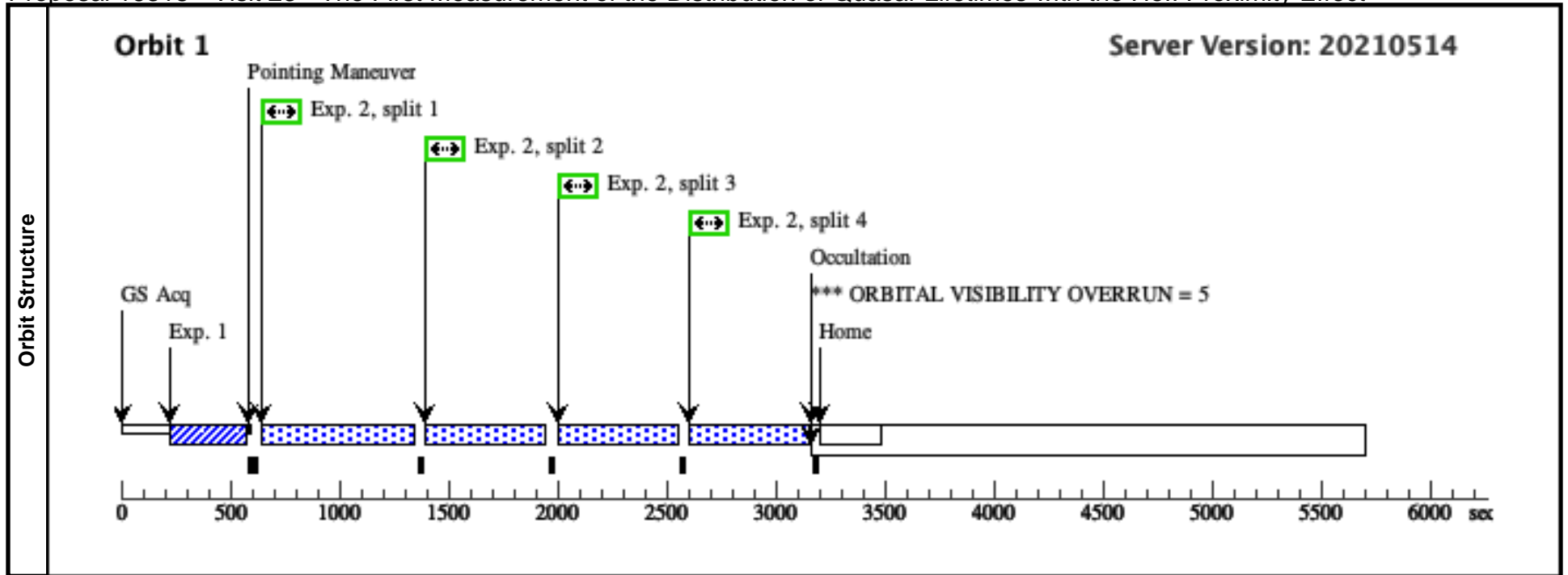
<b>Visit</b>	Proposal 16318, Visit 22, completed Diagnostic Status: Warning Scientific Instruments: COS/FUV, COS/NUV Special Requirements: (none)									
	(Visit 22) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN									
<b>Diagnosics</b>										
<b>Fixed Targets</b>	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(22)	QSO-080147+211019	RA: 08 01 47.1200 (120.4463333d) Dec: +21 10 19.70 (21.17214d) Equinox: J2000	Redshift: 2.89	V=18.1+/-0.1 GALEX FUV=20.27 NUV=20.6 2	Reference Frame: ICRS				
Comments: Category=GALAXY Description=[LYMAN ALPHA CLOUD, QSO] Extended=NO										
<b>Exposures</b>	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(COS.ta.144 7361)	(22) QSO-080147+211019	COS/NUV, ACQ/IMAGE, PSA	MIRRORA				25 Secs (25 Secs) [==>]	[1]
	2	(COS.sp.144 7350)	(22) QSO-080147+211019	COS/FUV, TIME-TAG, PSA	G140L 800 A	BUFFER-TIME=50 00; FP-POS=ALL			600 Secs (2056 Secs) [==>514.0 Secs (Split 1)] [==>514.0 Secs (Split 2)] [==>514.0 Secs (Split 3)] [==>514.0 Secs (Split 4)]	[1]



Proposal 16318 - Visit 23 - The First Measurement of the Distribution of Quasar Lifetimes with the Hell Proximity Effect

Thu Nov 18 15:01:19 GMT 2021

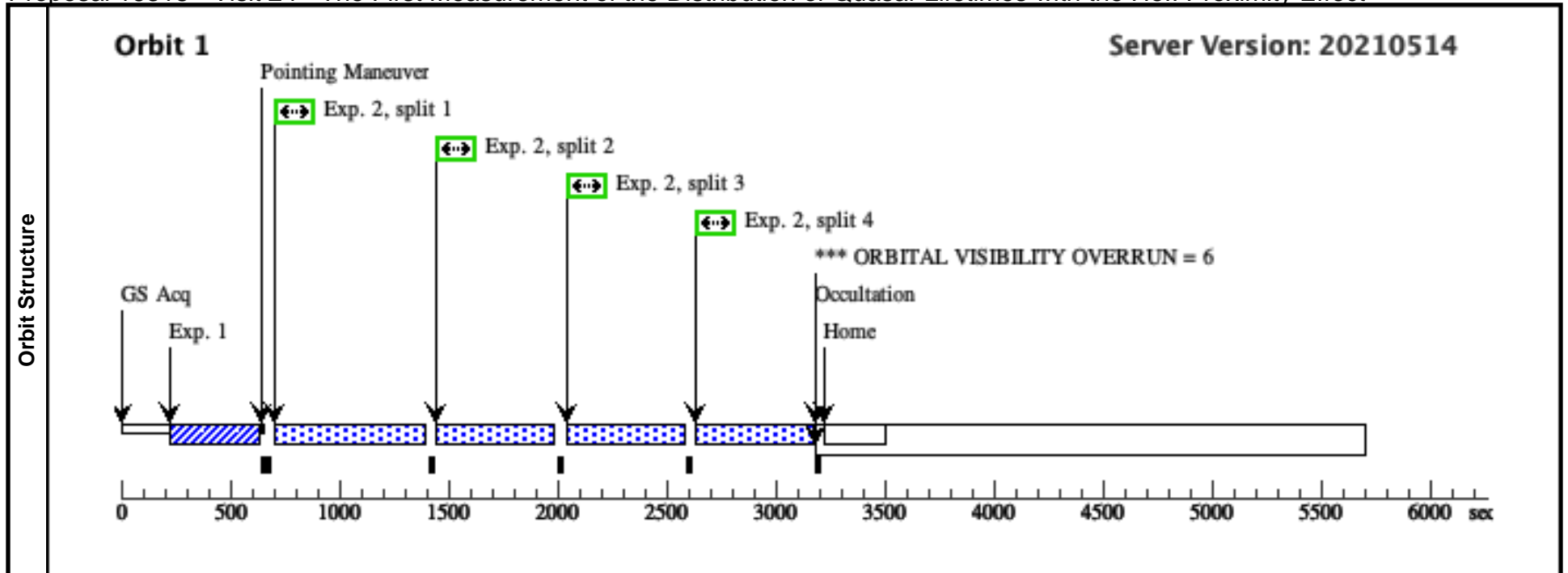
<b>Visit</b>	<b>Proposal 16318, Visit 23, completed</b> <b>Diagnostic Status: Warning</b> Scientific Instruments: COS/FUV, COS/NUV Special Requirements: (none)									
	(Visit 23) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN									
<b>Diagnostics</b>										
<b>Fixed Targets</b>	<b>#</b>	<b>Name</b>	<b>Target Coordinates</b>	<b>Targ. Coord. Corrections</b>	<b>Fluxes</b>	<b>Miscellaneous</b>				
	(23)	QSO-114858+253149	RA: 11 48 58.0800 (177.2420000d) Dec: +25 31 49.10 (25.53031d) Equinox: J2000	Redshift: 2.90	V=18.5+/-0.1 GALEX FUV=21.45 NUV=21.5 9	Reference Frame: ICRS				
Comments: Category=GALAXY Description=[LYMAN ALPHA CLOUD, QSO] Extended=NO										
<b>Exposures</b>	<b>#</b>	<b>Label (ETC Run)</b>	<b>Target</b>	<b>Config,Mode,Aperture</b>	<b>Spectral Els.</b>	<b>Opt. Params.</b>	<b>Special Reqs.</b>	<b>Groups</b>	<b>Exp. Time (Total)/[Actual Dur.]</b>	<b>Orbit</b>
	1	(COS.ta.144 7361)	(23) QSO-114858+253149	COS/NUV, ACQ/IMAGE, PSA	MIRRORA				60 Secs (60 Secs) [==>]	[1]
	2	(COS.sp.144 7350)	(23) QSO-114858+253149	COS/FUV, TIME-TAG, PSA	G140L 800 A	BUFFER-TIME=50 00; FP-POS=ALL			600 Secs (1992 Secs) [==>498.0 Secs (Split 1)] [==>498.0 Secs (Split 2)] [==>498.0 Secs (Split 3)] [==>498.0 Secs (Split 4)]	[1]



Proposal 16318 - Visit 24 - The First Measurement of the Distribution of Quasar Lifetimes with the Hell Proximity Effect

Thu Nov 18 15:01:19 GMT 2021

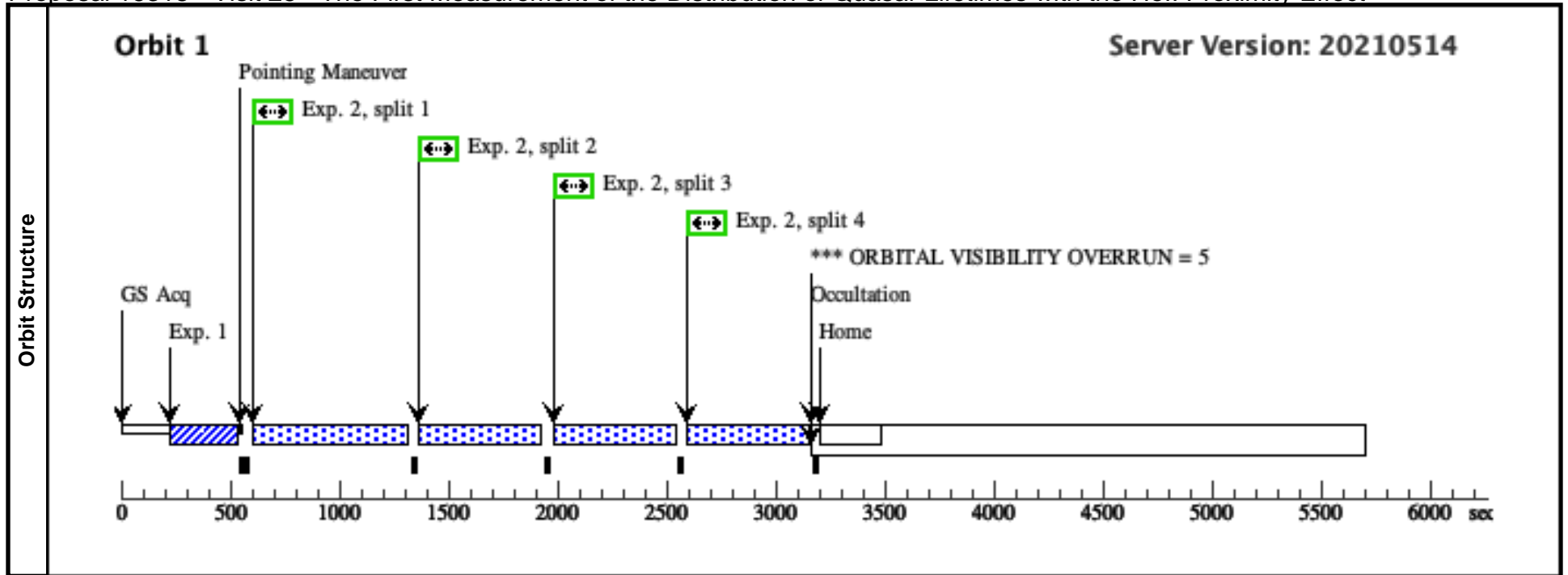
<b>Visit</b>	<b>Proposal 16318, Visit 24, completed</b> <b>Diagnostic Status: Warning</b> Scientific Instruments: COS/FUV, COS/NUV Special Requirements: (none)									
	(Visit 24) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN									
<b>Diagnostics</b>										
<b>Fixed Targets</b>	<b>#</b>	<b>Name</b>	<b>Target Coordinates</b>	<b>Targ. Coord. Corrections</b>	<b>Fluxes</b>	<b>Miscellaneous</b>				
	(24)	QSO-084017+314525	RA: 08 40 17.5000 (130.0729167d) Dec: +31 45 25.00 (31.75694d) Equinox: J2000	Redshift: 2.91	V=19.5+/-0.1 GALEX FUV=20.95 NUV=21.7 5	Reference Frame: ICRS				
Comments: Category=GALAXY Description=[LYMAN ALPHA CLOUD, QSO] Extended=NO										
<b>Exposures</b>	<b>#</b>	<b>Label (ETC Run)</b>	<b>Target</b>	<b>Config,Mode,Aperture</b>	<b>Spectral Els.</b>	<b>Opt. Params.</b>	<b>Special Reqs.</b>	<b>Groups</b>	<b>Exp. Time (Total)/[Actual Dur.]</b>	<b>Orbit</b>
	1	(COS.ta.144 7361)	(24) QSO-084017+314525	COS/NUV, ACQ/IMAGE, PSA	MIRRORA				90 Secs (90 Secs) [==>]	[1]
	2	(COS.sp.144 7350)	(24) QSO-084017+314525	COS/FUV, TIME-TAG, PSA	G140L 800 A	BUFFER-TIME=50 00; FP-POS=ALL			600 Secs (1948 Secs) [==>487.0 Secs (Split 1)] [==>487.0 Secs (Split 2)] [==>487.0 Secs (Split 3)] [==>487.0 Secs (Split 4)]	[1]



Proposal 16318 - Visit 25 - The First Measurement of the Distribution of Quasar Lifetimes with the Hell Proximity Effect

Thu Nov 18 15:01:19 GMT 2021

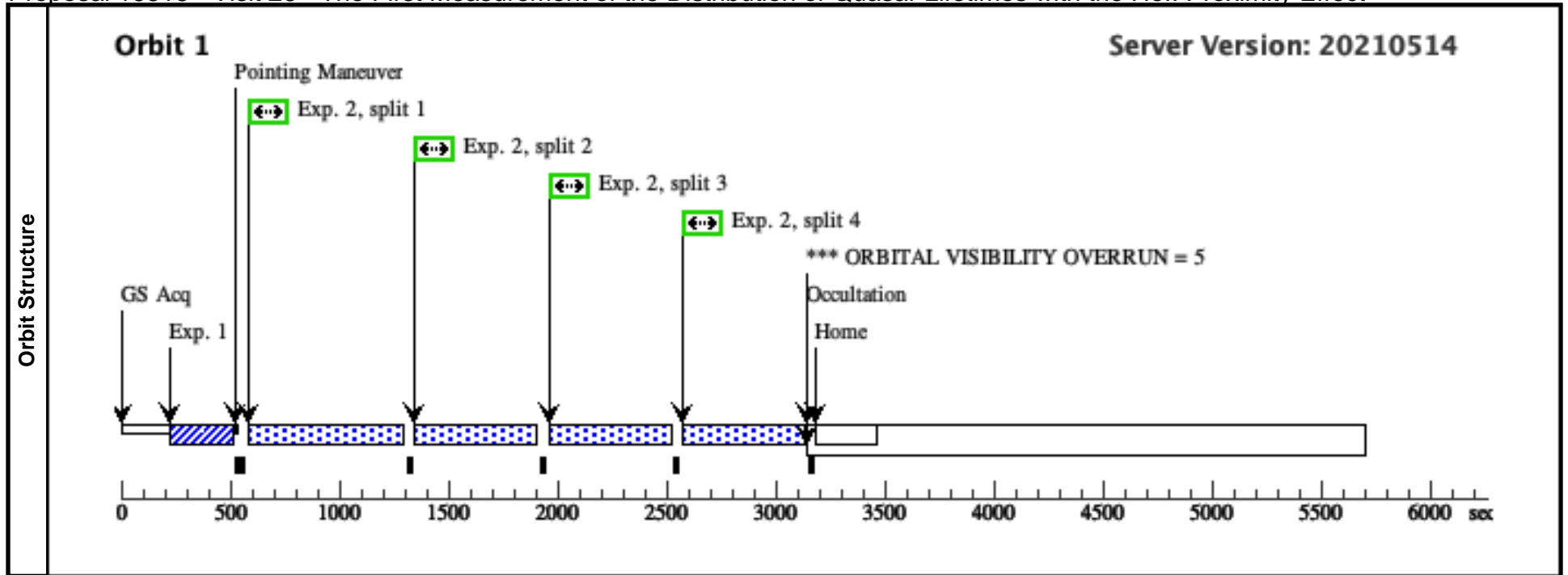
<b>Visit</b>	<b>Proposal 16318, Visit 25, completed</b> <b>Diagnostic Status: Warning</b> Scientific Instruments: COS/FUV, COS/NUV Special Requirements: (none)									
	(Visit 25) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN									
<b>Diagnostics</b>										
<b>Fixed Targets</b>	<b>#</b>	<b>Name</b>	<b>Target Coordinates</b>	<b>Targ. Coord. Corrections</b>	<b>Fluxes</b>	<b>Miscellaneous</b>				
	(25)	QSO-033340-265227	RA: 03 33 40.2200 (53.4175833d) Dec: -26 52 27.50 (-26.87431d) Equinox: J2000	Redshift: 2.92	V=18.0+/-0.1 GALEX FUV=21.11 NUV=21.5 6	Reference Frame: ICRS				
Comments: Category=GALAXY Description=[LYMAN ALPHA CLOUD, QSO] Extended=NO										
<b>Exposures</b>	<b>#</b>	<b>Label (ETC Run)</b>	<b>Target</b>	<b>Config,Mode,Aperture</b>	<b>Spectral Els.</b>	<b>Opt. Params.</b>	<b>Special Reqs.</b>	<b>Groups</b>	<b>Exp. Time (Total)/[Actual Dur.]</b>	<b>Orbit</b>
	1	(COS.ta.144 7361)	(25) QSO-033340-26 5227	COS/NUV, ACQ/IMAGE, PSA	MIRRORA				40 Secs (40 Secs) [==>]	[1]
	2	(COS.sp.144 7350)	(25) QSO-033340-26 5227	COS/FUV, TIME-TAG, PSA	G140L 800 A	BUFFER-TIME=50 00; FP-POS=ALL			600 Secs (2032 Secs) [==>508.0 Secs (Split 1)] [==>508.0 Secs (Split 2)] [==>508.0 Secs (Split 3)] [==>508.0 Secs (Split 4)]	[1]



Proposal 16318 - Visit 26 - The First Measurement of the Distribution of Quasar Lifetimes with the Hell Proximity Effect

Thu Nov 18 15:01:19 GMT 2021

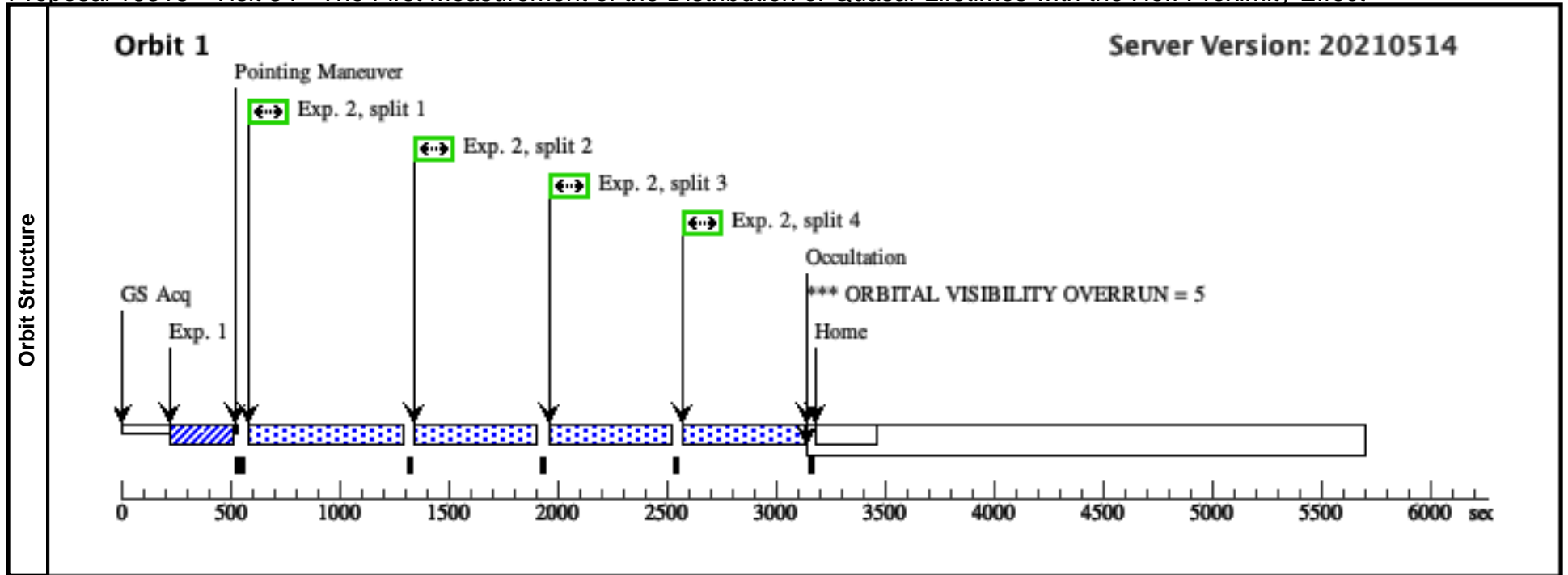
<b>Visit</b>	<b>Proposal 16318, Visit 26, failed</b> <b>Diagnostic Status: Warning</b> Scientific Instruments: COS/FUV, COS/NUV Special Requirements: (none)									
	(Visit 26) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN									
<b>Fixed Targets</b>	<b>#</b>	<b>Name</b>	<b>Target Coordinates</b>	<b>Targ. Coord. Corrections</b>	<b>Fluxes</b>	<b>Miscellaneous</b>				
	(26)	QSO-J164852+095942	RA: 16 48 52.7500 (252.2197917d) Dec: +09 59 42.10 (9.99503d) Equinox: J2000	Redshift: 2.92	V=18.0+/-0.1 GALEX FUV=21.28 NUV=20.8 0	Reference Frame: ICRS				
Comments: Category=GALAXY Description=[LYMAN ALPHA CLOUD, QSO] Extended=NO										
<b>Exposures</b>	<b>#</b>	<b>Label (ETC Run)</b>	<b>Target</b>	<b>Config,Mode,Aperture</b>	<b>Spectral Els.</b>	<b>Opt. Params.</b>	<b>Special Reqs.</b>	<b>Groups</b>	<b>Exp. Time (Total)/[Actual Dur.]</b>	<b>Orbit</b>
	1	(COS.ta.144 7361)	(26) QSO-J164852+095942	COS/NUV, ACQ/IMAGE, PSA	MIRRORA				30 Secs (30 Secs)	
									[==>]	[1]
2	(COS.sp.144 7350)	(26) QSO-J164852+095942	COS/FUV, TIME-TAG, PSA	G140L 800 A		BUFFER-TIME=50 00; FP-POS=ALL			600 Secs (2032 Secs)	
									[==>508.0 Secs (Split 1)] [==>508.0 Secs (Split 2)] [==>508.0 Secs (Split 3)] [==>508.0 Secs (Split 4)]	[1]



Proposal 16318 - Visit 34 - The First Measurement of the Distribution of Quasar Lifetimes with the Hell Proximity Effect

Thu Nov 18 15:01:19 GMT 2021

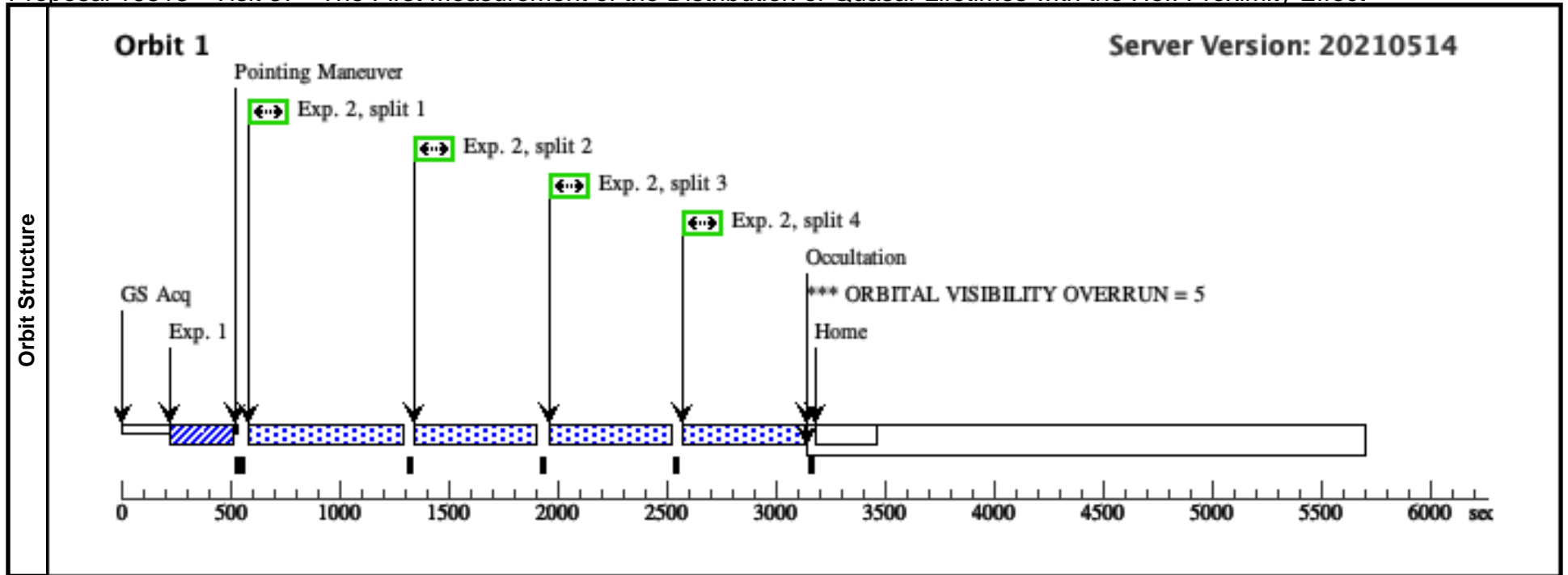
<b>Visit</b>	<b>Proposal 16318, Visit 34, failed</b> <b>Diagnostic Status: Warning</b> Scientific Instruments: COS/FUV, COS/NUV Special Requirements: (none) <i>Comments: HOPR copy of visit 26</i>					
	(Visit 34) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN					
<b>Diagnosics</b>						
<b>Fixed Targets</b>	# <b>Name</b> <b>Target Coordinates</b> <b>Targ. Coord. Corrections</b> <b>Fluxes</b> <b>Miscellaneous</b>					
	(26)      QSO-J164852+095942      RA: 16 48 52.7500 (252.2197917d) Dec: +09 59 42.10 (9.99503d) Equinox: J2000	Redshift: 2.92 V=18.0+/-0.1      Reference Frame: ICRS GALEX FUV=21.28 NUV=20.8 0				
<i>Comments:</i> Category=GALAXY Description=[LYMAN ALPHA CLOUD, QSO] Extended=NO						
<b>Exposures</b>	# <b>Label (ETC Run)</b> <b>Target</b> <b>Config,Mode,Aperture</b> <b>Spectral Els.</b> <b>Opt. Params.</b> <b>Special Reqs.</b> <b>Groups</b> <b>Exp. Time (Total)/[Actual Dur.]</b> <b>Orbit</b>					
	1      (COS.ta.144 7361)      (26) QSO-J164852+095942      COS/NUV, ACQ/IMAGE, PSA      MIRRORA	30 Secs (30 Secs) [==>]      [1]				
	2      (COS.sp.144 7350)      (26) QSO-J164852+095942      COS/FUV, TIME-TAG, PSA      G140L 800 A      BUFFER-TIME=50 00;      FP-POS=ALL	600 Secs (2032 Secs) [==>508.0 Secs (Split 1)] [==>508.0 Secs (Split 2)] [==>508.0 Secs (Split 3)] [==>508.0 Secs (Split 4)]      [1]				



Proposal 16318 - Visit 37 - The First Measurement of the Distribution of Quasar Lifetimes with the Hell Proximity Effect

Thu Nov 18 15:01:19 GMT 2021

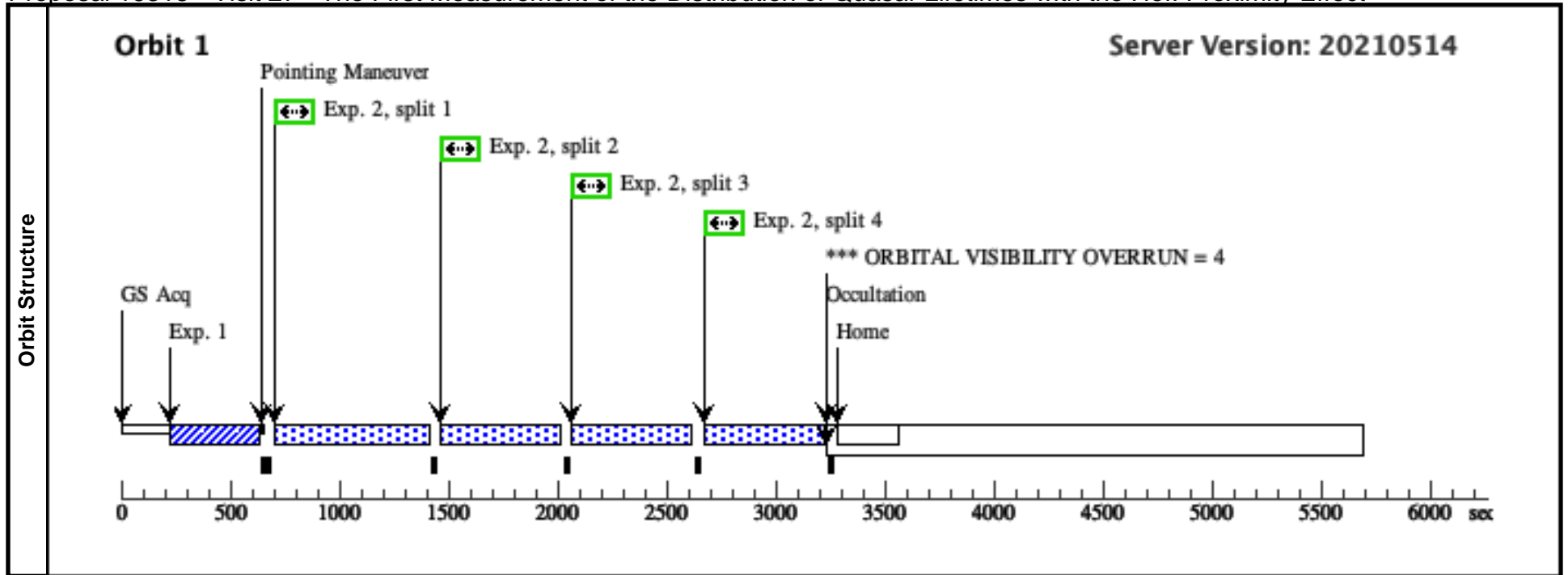
<b>Visit</b>	<b>Proposal 16318, Visit 37, completed</b> <b>Diagnostic Status: Warning</b> Scientific Instruments: COS/FUV, COS/NUV Special Requirements: (none) <i>Comments: HOPR copy of visit 34</i>								
	(Visit 37) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN								
<b>Diagnostics</b>									
<b>Fixed Targets</b>	# <b>Name</b> <b>Target Coordinates</b> <b>Targ. Coord. Corrections</b> <b>Fluxes</b> <b>Miscellaneous</b>								
	(26)      QSO-J164852+095942      RA: 16 48 52.7500 (252.2197917d) Dec: +09 59 42.10 (9.99503d) Equinox: J2000	Redshift: 2.92 V=18.0+/-0.1      Reference Frame: ICRS GALEX FUV=21.28 NUV=20.8 0							
<i>Comments:</i> Category=GALAXY Description=[LYMAN ALPHA CLOUD, QSO] Extended=NO									
<b>Exposures</b>	# <b>Label (ETC Run)</b> <b>Target</b> <b>Config,Mode,Aperture</b> <b>Spectral Els.</b> <b>Opt. Params.</b> <b>Special Reqs.</b> <b>Groups</b> <b>Exp. Time (Total)/[Actual Dur.]</b> <b>Orbit</b>								
	1	(COS.ta.144 7361)	(26) QSO-J164852+095942	COS/NUV, ACQ/IMAGE, PSA	MIRRORA			30 Secs (30 Secs)	
								[==>]	[1]
2	(COS.sp.144 7350)	(26) QSO-J164852+095942	COS/FUV, TIME-TAG, PSA	G140L 800 A	BUFFER-TIME=50 00; FP-POS=ALL			600 Secs (2032 Secs)	
								[==>508.0 Secs (Split 1)] [==>508.0 Secs (Split 2)] [==>508.0 Secs (Split 3)] [==>508.0 Secs (Split 4)]	[1]



Proposal 16318 - Visit 27 - The First Measurement of the Distribution of Quasar Lifetimes with the Hell Proximity Effect

Thu Nov 18 15:01:19 GMT 2021

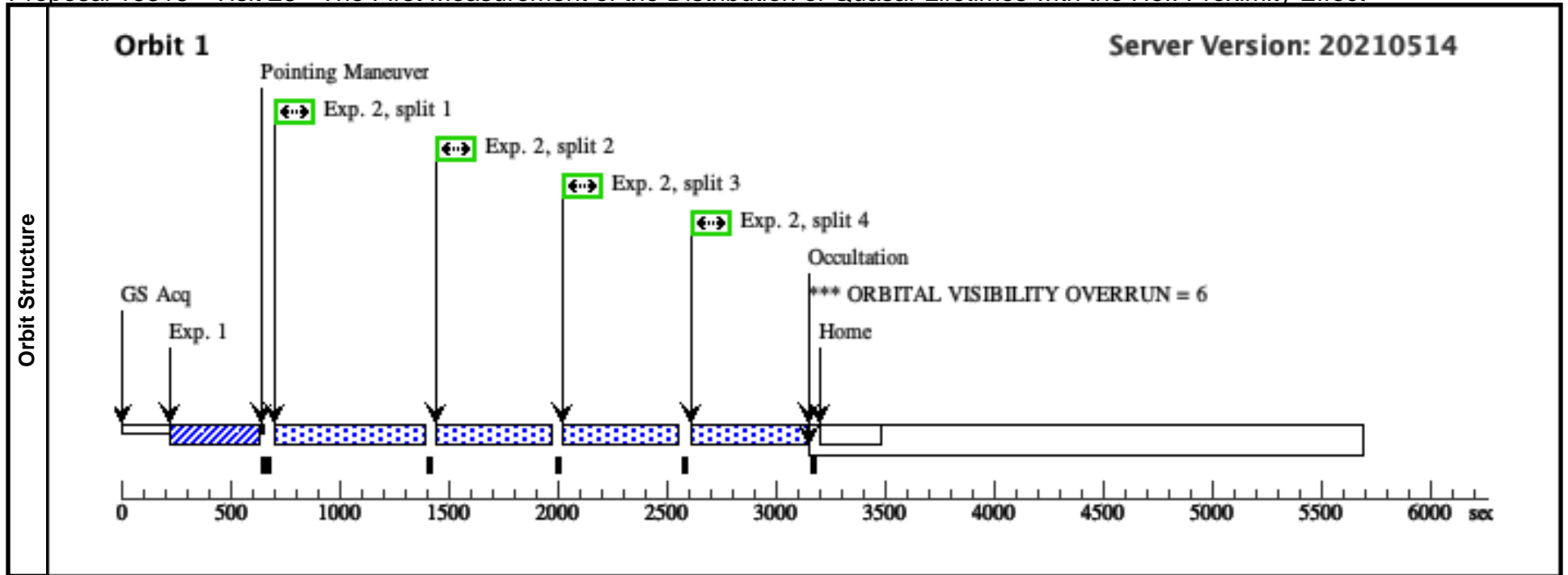
<b>Visit</b>	<b>Proposal 16318, Visit 27, completed</b> <b>Diagnostic Status: Warning</b> Scientific Instruments: COS/FUV, COS/NUV Special Requirements: (none)									
	(Visit 27) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN									
<b>Diagnostics</b>										
<b>Fixed Targets</b>	<b>#</b>	<b>Name</b>	<b>Target Coordinates</b>	<b>Targ. Coord. Corrections</b>	<b>Fluxes</b>	<b>Miscellaneous</b>				
	(27)	QSO-130841+404823	RA: 13 08 41.2400 (197.1718333d) Dec: +40 48 23.80 (40.80661d) Equinox: J2000	Redshift: 2.92	V=18.9+/-0.1 GALEX FUV=21.36 NUV=22.1 6	Reference Frame: ICRS				
Comments: Category=GALAXY Description=[LYMAN ALPHA CLOUD, QSO] Extended=NO										
<b>Exposures</b>	<b>#</b>	<b>Label (ETC Run)</b>	<b>Target</b>	<b>Config,Mode,Aperture</b>	<b>Spectral Els.</b>	<b>Opt. Params.</b>	<b>Special Reqs.</b>	<b>Groups</b>	<b>Exp. Time (Total)/[Actual Dur.]</b>	<b>Orbit</b>
	1	(COS.ta.144 7361)	(27) QSO-130841+404823	COS/NUV, ACQ/IMAGE, PSA	MIRRORA				90 Secs (90 Secs)	
									[==>]	[1]
2	(COS.sp.144 7350)	(27) QSO-130841+404823	COS/FUV, TIME-TAG, PSA	G140L 800 A	BUFFER-TIME=50 00; FP-POS=ALL				600 Secs (2004 Secs)	
									[==>501.0 Secs (Split 1)] [==>501.0 Secs (Split 2)] [==>501.0 Secs (Split 3)] [==>501.0 Secs (Split 4)]	[1]



Proposal 16318 - Visit 28 - The First Measurement of the Distribution of Quasar Lifetimes with the Hell Proximity Effect

Thu Nov 18 15:01:19 GMT 2021

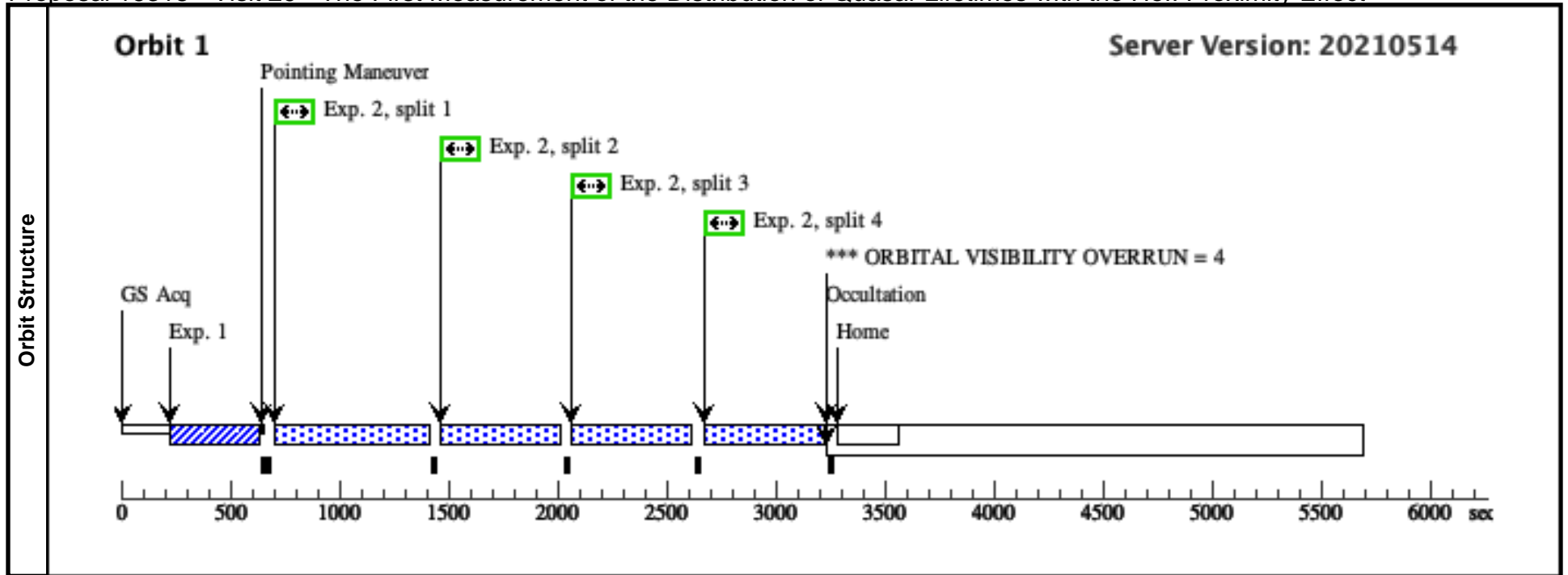
<b>Visit</b>	Proposal 16318, Visit 28, completed Diagnostic Status: Warning Scientific Instruments: COS/FUV, COS/NUV Special Requirements: (none)									
	(Visit 28) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN									
<b>Fixed Targets</b>	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(28)	SDSSJ1028+1729	RA: 10 28 7.7400 (157.0322500d) Dec: +17 29 56.80 (17.49911d) Equinox: J2000	Redshift: 2.93	V=18.1+/-0.1 GALEX FUV=21.03 NUV=22.0 2	Reference Frame: ICRS				
Comments: Category=GALAXY Description=[LYMAN ALPHA CLOUD, QSO] Extended=NO										
<b>Exposures</b>	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(COS.ta.144 7361)	(28) SDSSJ1028+1729	COS/NUV, ACQ/IMAGE, PSA	MIRRORA				90 Secs (90 Secs)	
									[==>]	[1]
2	(COS.sp.144 7350)	(28) SDSSJ1028+1729	COS/FUV, TIME-TAG, PSA	G140L 800 A	BUFFER-TIME=50 00; FP-POS=ALL				600 Secs (1924 Secs)	
									[==>481.0 Secs (Split 1)] [==>481.0 Secs (Split 2)] [==>481.0 Secs (Split 3)] [==>481.0 Secs (Split 4)]	[1]



Proposal 16318 - Visit 29 - The First Measurement of the Distribution of Quasar Lifetimes with the Hell Proximity Effect

Thu Nov 18 15:01:19 GMT 2021

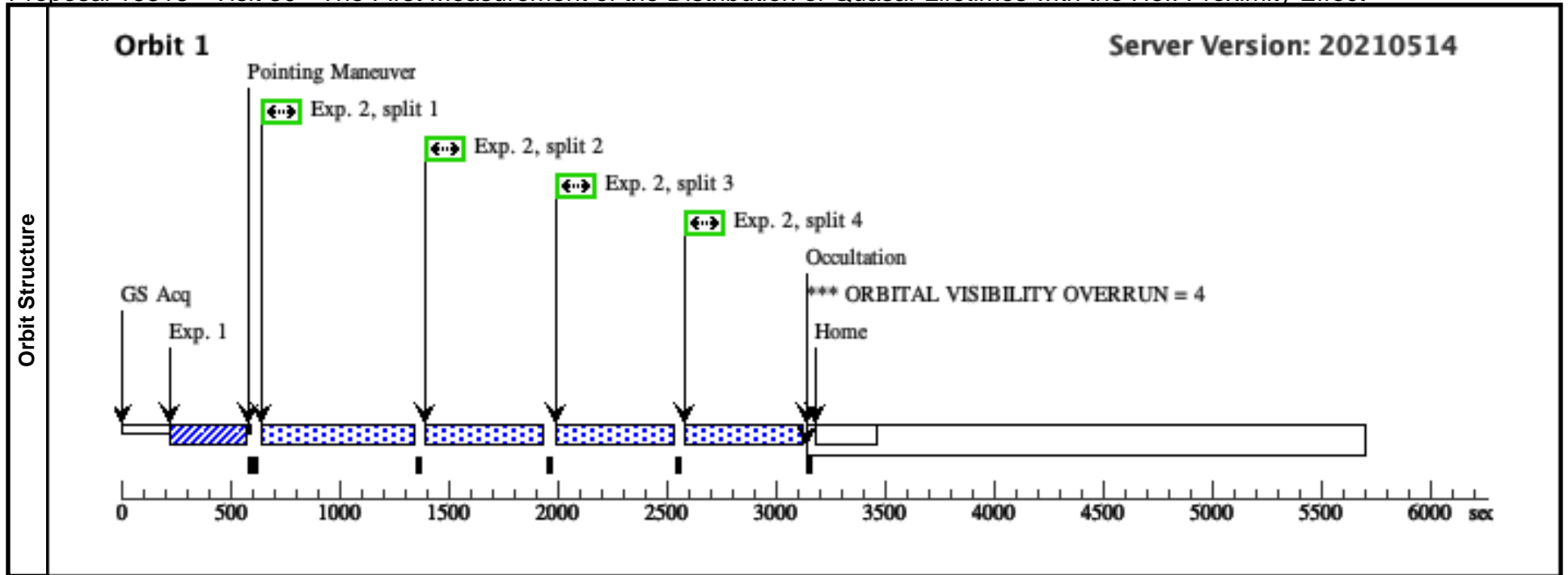
<b>Visit</b>	<b>Proposal 16318, Visit 29, completed</b> <b>Diagnostic Status: Warning</b> Scientific Instruments: COS/FUV, COS/NUV Special Requirements: (none)									
	(Visit 29) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN									
<b>Diagnostics</b>										
<b>Fixed Targets</b>	<b>#</b>	<b>Name</b>	<b>Target Coordinates</b>	<b>Targ. Coord. Corrections</b>	<b>Fluxes</b>	<b>Miscellaneous</b>				
	(29)	QSO-104915+421923	RA: 10 49 15.0400 (162.3126667d) Dec: +42 19 23.70 (42.32325d) Equinox: J2000	Redshift: 2.93	V=19.3+/-0.1 GALEX FUV=21.27 NUV=22.3 3	Reference Frame: ICRS				
Comments: Category=GALAXY Description=[LYMAN ALPHA CLOUD, QSO] Extended=NO										
<b>Exposures</b>	<b>#</b>	<b>Label (ETC Run)</b>	<b>Target</b>	<b>Config,Mode,Aperture</b>	<b>Spectral Els.</b>	<b>Opt. Params.</b>	<b>Special Reqs.</b>	<b>Groups</b>	<b>Exp. Time (Total)/[Actual Dur.]</b>	<b>Orbit</b>
	1	(COS.ta.144 7361)	(29) QSO-104915+4 21923	COS/NUV, ACQ/IMAGE, PSA	MIRRORA				90 Secs (90 Secs)	
									[==>]	[1]
2	(COS.sp.144 7350)	(29) QSO-104915+4 21923	COS/FUV, TIME-TAG, PSA	G140L 800 A	BUFFER-TIME=50 00; FP-POS=ALL				600 Secs (2004 Secs)	
									[==>501.0 Secs (Split 1)] [==>501.0 Secs (Split 2)] [==>501.0 Secs (Split 3)] [==>501.0 Secs (Split 4)]	[1]



Proposal 16318 - Visit 30 - The First Measurement of the Distribution of Quasar Lifetimes with the Hell Proximity Effect

Thu Nov 18 15:01:19 GMT 2021

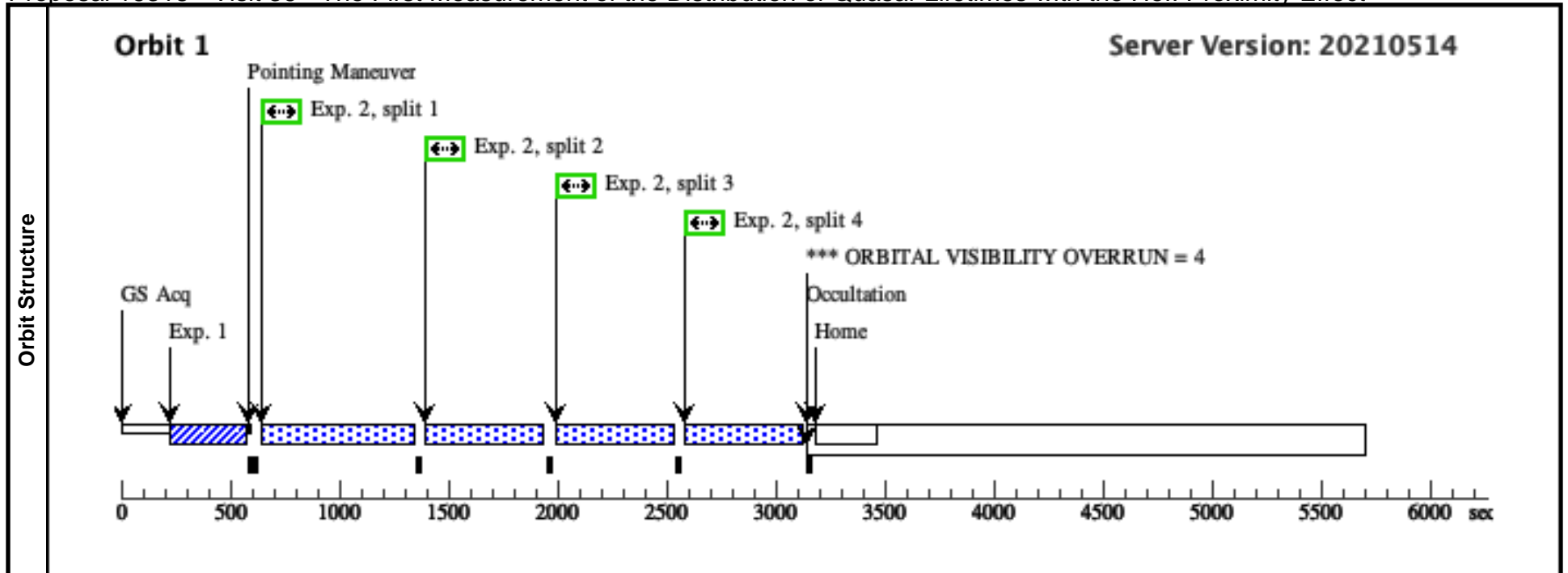
<b>Visit</b>	<b>Proposal 16318, Visit 30, failed</b> <b>Diagnostic Status: Warning</b> Scientific Instruments: COS/FUV, COS/NUV Special Requirements: (none)									
	(Visit 30) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN									
<b>Diagnostics</b>										
<b>Fixed Targets</b>	<b>#</b>	<b>Name</b>	<b>Target Coordinates</b>	<b>Targ. Coord. Corrections</b>	<b>Fluxes</b>	<b>Miscellaneous</b>				
	(30)	SDSSJ2200+0008	RA: 22 00 40.9100 (330.1704583d) Dec: +00 08 32.20 (.14228d) Equinox: J2000	Redshift: 3.13	V=19.2+/-0.1 GALEX FUV=21.53 NUV=21.8 1	Reference Frame: ICRS				
Comments: Category=GALAXY Description=[LYMAN ALPHA CLOUD, QSO] Extended=NO										
<b>Exposures</b>	<b>#</b>	<b>Label (ETC Run)</b>	<b>Target</b>	<b>Config,Mode,Aperture</b>	<b>Spectral Els.</b>	<b>Opt. Params.</b>	<b>Special Reqs.</b>	<b>Groups</b>	<b>Exp. Time (Total)/[Actual Dur.]</b>	<b>Orbit</b>
	1	(COS.ta.144 7361)	(30) SDSSJ2200+0008	COS/NUV, ACQ/IMAGE, PSA	MIRRORA				60 Secs (60 Secs) [==>]	[1]
	2	(COS.sp.144 7350)	(30) SDSSJ2200+0008	COS/FUV, TIME-TAG, PSA	G140L 800 A	BUFFER-TIME=50 00; FP-POS=ALL			600 Secs (1968 Secs) [==>492.0 Secs (Split 1)] [==>492.0 Secs (Split 2)] [==>492.0 Secs (Split 3)] [==>492.0 Secs (Split 4)]	[1]



Proposal 16318 - Visit 36 - The First Measurement of the Distribution of Quasar Lifetimes with the Hell Proximity Effect

Thu Nov 18 15:01:19 GMT 2021

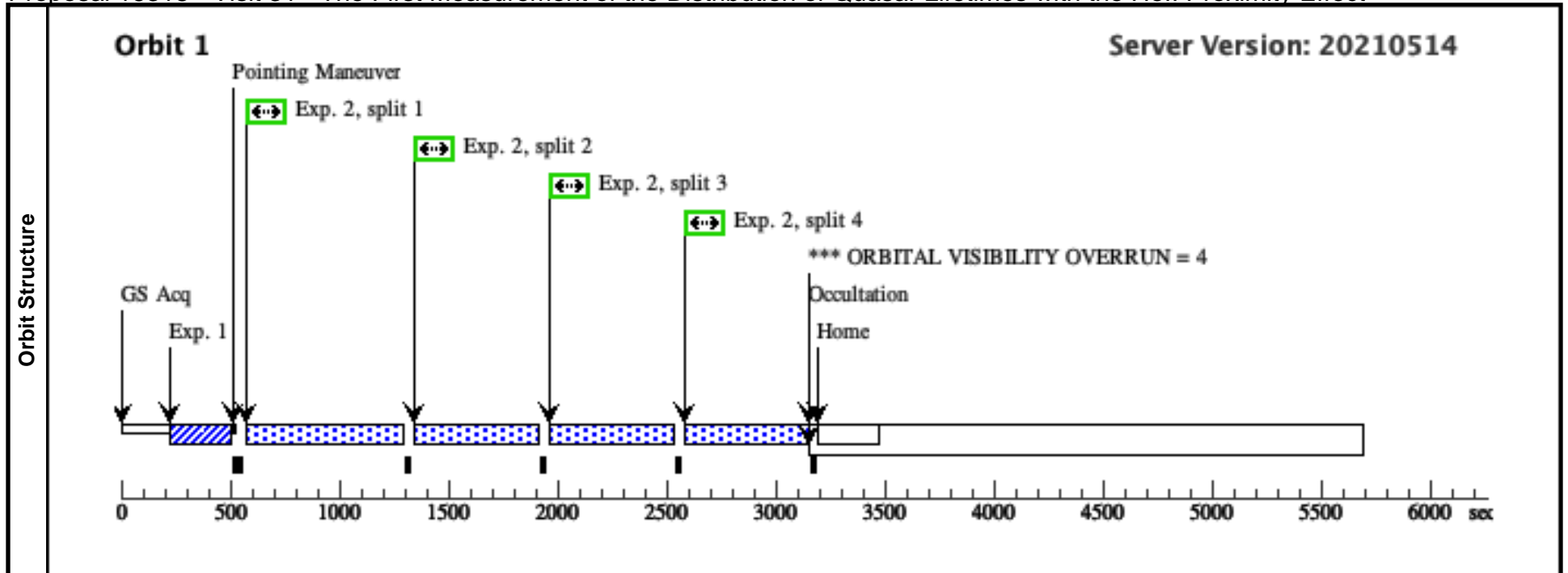
<b>Visit</b>	<b>Proposal 16318, Visit 36, completed</b> <b>Diagnostic Status: Warning</b> Scientific Instruments: COS/FUV, COS/NUV Special Requirements: (none) <i>Comments: HOPR copy of visit 30</i>								
	(Visit 36) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN								
<b>Diagnosics</b>									
<b>Fixed Targets</b>	# <b>Name</b> <b>Target Coordinates</b> <b>Targ. Coord. Corrections</b> <b>Fluxes</b> <b>Miscellaneous</b>								
	(30)      SDSSJ2200+0008      RA: 22 00 40.9100 (330.1704583d) Dec: +00 08 32.20 (.14228d) Equinox: J2000	Redshift: 3.13 V=19.2+/-0.1      Reference Frame: ICRS GALEX FUV=21.53 NUV=21.8 1							
<i>Comments:</i> Category=GALAXY Description=[LYMAN ALPHA CLOUD, QSO] Extended=NO									
<b>Exposures</b>	# <b>Label (ETC Run)</b> <b>Target</b> <b>Config,Mode,Aperture</b> <b>Spectral Els.</b> <b>Opt. Params.</b> <b>Special Reqs.</b> <b>Groups</b> <b>Exp. Time (Total)/[Actual Dur.]</b> <b>Orbit</b>								
	1	(COS.ta.144 7361)	(30) SDSSJ2200+0008	COS/NUV, ACQ/IMAGE, PSA	MIRRORA			60 Secs (60 Secs)	
								[==>]	[1]
2	(COS.sp.144 7350)	(30) SDSSJ2200+0008	COS/FUV, TIME-TAG, PSA	G140L 800 A	BUFFER-TIME=50 00; FP-POS=ALL			600 Secs (1968 Secs)	
								[==>492.0 Secs (Split 1)] [==>492.0 Secs (Split 2)] [==>492.0 Secs (Split 3)] [==>492.0 Secs (Split 4)]	[1]



Proposal 16318 - Visit 31 - The First Measurement of the Distribution of Quasar Lifetimes with the Hell Proximity Effect

Thu Nov 18 15:01:19 GMT 2021

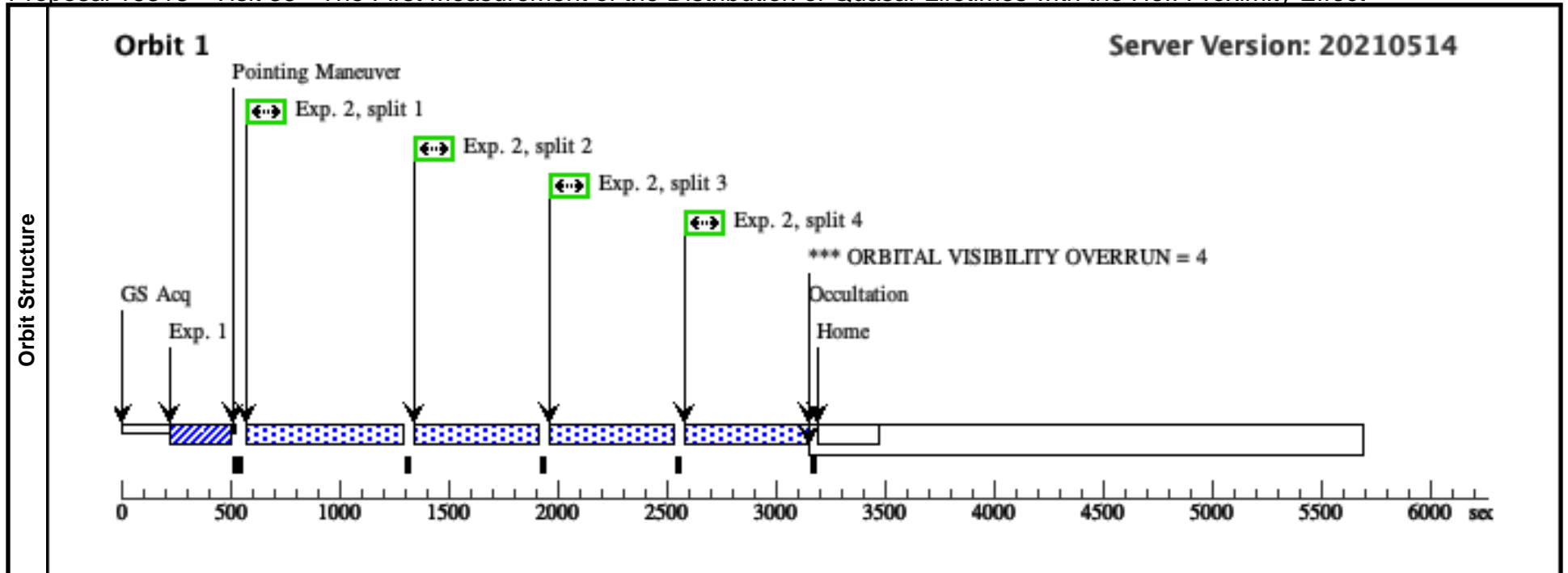
<b>Visit</b>	<b>Proposal 16318, Visit 31, failed</b> <b>Diagnostic Status: Warning</b> Scientific Instruments: COS/FUV, COS/NUV Special Requirements: (none)									
	(Visit 31) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN									
<b>Fixed Targets</b>	<b>#</b>	<b>Name</b>	<b>Target Coordinates</b>	<b>Targ. Coord. Corrections</b>	<b>Fluxes</b>	<b>Miscellaneous</b>				
	(31)	MG1J220825+1808	RA: 22 08 24.1900 (332.1007917d) Dec: +18 08 26.80 (18.14078d) Equinox: J2000	Redshift: 3.14	V=17.8+/-0.1 GALEX FUV=20.97 NUV=20.8 0	Reference Frame: ICRS				
Comments: Category=GALAXY Description=[LYMAN ALPHA CLOUD, QSO] Extended=NO										
<b>Exposures</b>	<b>#</b>	<b>Label (ETC Run)</b>	<b>Target</b>	<b>Config,Mode,Aperture</b>	<b>Spectral Els.</b>	<b>Opt. Params.</b>	<b>Special Reqs.</b>	<b>Groups</b>	<b>Exp. Time (Total)/[Actual Dur.]</b>	<b>Orbit</b>
	1	(COS.ta.144 7361)	(31) MG1J220825+1808	COS/NUV, ACQ/IMAGE, PSA	MIRRORA				25 Secs (25 Secs)	
									[==>]	[1]
2	(COS.sp.144 7350)	(31) MG1J220825+1808	COS/FUV, TIME-TAG, PSA	G140L 800 A		BUFFER-TIME=50 00; FP-POS=ALL			600 Secs (2052 Secs)	
									[==>513.0 Secs (Split 1)] [==>513.0 Secs (Split 2)] [==>513.0 Secs (Split 3)] [==>513.0 Secs (Split 4)]	[1]



Proposal 16318 - Visit 35 - The First Measurement of the Distribution of Quasar Lifetimes with the Hell Proximity Effect

Thu Nov 18 15:01:19 GMT 2021

<b>Visit</b>	<b>Proposal 16318, Visit 35, completed</b> <b>Diagnostic Status: Warning</b> Scientific Instruments: COS/FUV, COS/NUV Special Requirements: (none) <i>Comments: HOPR copy of visit 31</i>																																		
	(Visit 35) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN																																		
<b>Diagnosics</b>																																			
<b>Fixed Targets</b>	<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>(31)</td> <td>MG1J220825+1808</td> <td>RA: 22 08 24.1900 (332.1007917d) Dec: +18 08 26.80 (18.14078d) Equinox: J2000</td> <td>Redshift: 3.14</td> <td>V=17.8+/-0.1 GALEX FUV=20.97 NUV=20.8 0</td> <td>Reference Frame: ICRS</td> </tr> </tbody> </table>	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous	(31)	MG1J220825+1808	RA: 22 08 24.1900 (332.1007917d) Dec: +18 08 26.80 (18.14078d) Equinox: J2000	Redshift: 3.14	V=17.8+/-0.1 GALEX FUV=20.97 NUV=20.8 0	Reference Frame: ICRS	<i>Comments:</i> Category=GALAXY Description=[LYMAN ALPHA CLOUD, QSO] Extended=NO																					
	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous																													
(31)	MG1J220825+1808	RA: 22 08 24.1900 (332.1007917d) Dec: +18 08 26.80 (18.14078d) Equinox: J2000	Redshift: 3.14	V=17.8+/-0.1 GALEX FUV=20.97 NUV=20.8 0	Reference Frame: ICRS																														
<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>(COS.ta.144 7361)</td> <td>(31) MG1J220825+1808</td> <td>COS/NUV, ACQ/IMAGE, PSA</td> <td>MIRRORA</td> <td></td> <td></td> <td></td> <td>25 Secs (25 Secs) [==&gt;]</td> <td>[1]</td> </tr> <tr> <td>2</td> <td>(COS.sp.144 7350)</td> <td>(31) MG1J220825+1808</td> <td>COS/FUV, TIME-TAG, PSA</td> <td>G140L 800 A</td> <td>BUFFER-TIME=50 00; FP-POS=ALL</td> <td></td> <td></td> <td>600 Secs (2052 Secs) [==&gt;513.0 Secs (Split 1)] [==&gt;513.0 Secs (Split 2)] [==&gt;513.0 Secs (Split 3)] [==&gt;513.0 Secs (Split 4)]</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	(COS.ta.144 7361)	(31) MG1J220825+1808	COS/NUV, ACQ/IMAGE, PSA	MIRRORA				25 Secs (25 Secs) [==>]	[1]	2	(COS.sp.144 7350)	(31) MG1J220825+1808	COS/FUV, TIME-TAG, PSA	G140L 800 A	BUFFER-TIME=50 00; FP-POS=ALL			600 Secs (2052 Secs) [==>513.0 Secs (Split 1)] [==>513.0 Secs (Split 2)] [==>513.0 Secs (Split 3)] [==>513.0 Secs (Split 4)]	[1]
#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit																										
1	(COS.ta.144 7361)	(31) MG1J220825+1808	COS/NUV, ACQ/IMAGE, PSA	MIRRORA				25 Secs (25 Secs) [==>]	[1]																										
2	(COS.sp.144 7350)	(31) MG1J220825+1808	COS/FUV, TIME-TAG, PSA	G140L 800 A	BUFFER-TIME=50 00; FP-POS=ALL			600 Secs (2052 Secs) [==>513.0 Secs (Split 1)] [==>513.0 Secs (Split 2)] [==>513.0 Secs (Split 3)] [==>513.0 Secs (Split 4)]	[1]																										
<b>Exposures</b>																																			



Proposal 16318 - Visit 32 - The First Measurement of the Distribution of Quasar Lifetimes with the Hell Proximity Effect

Thu Nov 18 15:01:19 GMT 2021

<b>Visit</b>	Proposal 16318, Visit 32, completed Diagnostic Status: Warning Scientific Instruments: COS/FUV, COS/NUV Special Requirements: (none)					
	(Visit 32) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN					
<b>Fixed Targets</b>	#      Name      Target Coordinates      Targ. Coord. Corrections      Fluxes      Miscellaneous					
	(32)      SDSSJ0847+3831      RA: 08 47 15.1600 (131.8131667d) Dec: +38 31 9.90 (38.51942d) Equinox: J2000 Comments: Category=GALAXY Description=[LYMAN ALPHA CLOUD, QSO] Extended=NO					
<b>Exposures</b>	#      Label (ETC Run)      Target      Config,Mode,Aperture      Spectral Els.      Opt. Params.      Special Reqs.      Groups      Exp. Time (Total)/[Actual Dur.]      Orbit					
	1      (COS.ta.144 7361)      (32) SDSSJ0847+38 31      COS/NUV, ACQ/IMAGE, PSA      MIRRORA                          30 Secs (30 Secs) [==>]      [1]					
2      (COS.sp.144 7350)      (32) SDSSJ0847+38 31      COS/FUV, TIME-TAG, PSA      G140L 800 A      BUFFER-TIME=50 00; FP-POS=ALL                     600 Secs (2088 Secs) [==>522.0 Secs (Split 1)] [==>522.0 Secs (Split 2)] [==>522.0 Secs (Split 3)] [==>522.0 Secs (Split 4)]      [1]						

