



11727 - UV spectroscopy of Local Lyman Break Galaxy Analogs: New Clues to Galaxy Formation in the Early Universe

Cycle: 17, Proposal Category: GO

(Availability Mode: SUPPORTED)

INVESTIGATORS

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VISITS

<i>Visit</i>	<i>Targets used in Visit</i>	<i>Configurations used in Visit</i>	<i>Orbits Used</i>	<i>Last Orbit Planner Run</i>	<i>OP Current with Visit?</i>
01	(9) HARO11	COS/FUV COS/NUV	2	25-Jan-2010 21:06:19.0	yes
02	(1) SDSSJ093813.49+542825.0	COS/FUV COS/NUV	2	25-Jan-2010 21:06:25.0	yes
03	(2) SDSSJ080844.26+394852.3	COS/FUV COS/NUV	4	25-Jan-2010 21:06:29.0	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>
04	(7) SDSSJ021348.53+125951.4	COS/FUV COS/NUV	3	25-Jan-2010 21:06:33.0	yes
11	(7) SDSSJ021348.53+125951.4	COS/FUV COS/NUV	3	25-Jan-2010 21:06:36.0	yes
05	(4) SDSSJ092600.4+442736.1	COS/FUV COS/NUV	4	25-Jan-2010 21:06:41.0	yes
06	(6) SDSSJ092159.38+450912.3	COS/FUV COS/NUV	4	25-Jan-2010 21:06:45.0	yes
07	(3) SDSSJ210358.74-072802.3	COS/FUV COS/NUV	4	25-Jan-2010 21:06:50.0	yes
08	(5) SDSSJ005527.46-002148.7	COS/FUV COS/NUV	4	25-Jan-2010 21:06:55.0	yes
12	(5) SDSSJ005527.46-002148.7	COS/FUV COS/NUV	2	25-Jan-2010 21:06:59.0	yes
09	(8) SDSSJ015028.4+130858.3	COS/FUV COS/NUV	4	25-Jan-2010 21:07:02.0	yes

36 Total Orbits Used

ABSTRACT

Much of our information about galaxy evolution and the interaction between galaxies and the IGM at high- z has been provided by the Lyman Break Galaxies (LBGs). However, it is difficult to investigate these faint and distant objects in detail. To address this, we have used the GALEX All-Sky Imaging Survey and the SDSS to identify for the first time a rare population of low-redshift galaxies with properties remarkably similar to the high-redshift LBGs. These local "Lyman Break Analogs" (LBAs) resemble LBGs in terms of morphology, size, UV luminosity, star formation rate, UV surface brightness, stellar mass, velocity dispersion, metallicity, and dust content. We are assembling a wide range of data on these objects with the

goal of using them as local laboratories for better understanding the relevant astrophysical processes in LBGs. These data include HST imaging (95 orbits in Cy15 and 16), Spitzer photometry and spectroscopy, Chandra and XMM X-ray imaging and spectroscopy, and near-IR integral field spectroscopy (VLT, Keck, and Gemini). In this proposal we are requesting the most important missing puzzle piece: far-UV spectra with a signal-to-noise and spectral resolution significantly better than available for typical LBGs. We will use these spectra to study the LBA's galactic winds, probe the processes that regulate the escape of Ly- α and Lyman continuum radiation, determine chemical abundances for the stars and gas, and constrain the form of the high-end of the Initial Mass Function. Adding these new COS data will give us vital information about these extraordinary sites of star formation in the local universe. In so-doing it will also shed new light on the processes that led to the formation of stars, the building of galaxies, and the enrichment and heating of the IGM in the early universe.

OBSERVING DESCRIPTION

Each target will be observed with COS/FUV/PSA in grisms G130M and G160M using TIME-TAG mode. Exposures are taken at at least one FP-POS=1 and one FP-POS=4 to get a minimum of two wavelength dithers for each spectrum, and we set FLASH=yes for better wavelength calibration.

The acquisition is done using the NUV imaging mode, either with Mirror A or Mirror B depending on the target surface brightness determined in a 9x9 pixel box. When not too time consuming, the acquisition is done by a 2x2 spiral pattern ACQ/SEARCH and centering on the brightest pixel, followed by an ACQ/IMAGE. However, for the remaining targets the acquisition is done solely by an ACQ/IMAGE, expecting that after several months into the mission the pointing accuracy will be good to 1 arcsec precision. Therefore, we have given the optional requirement that these observations should be carried out only AFTER=01-NOV-2009:00:00:00. Half of the targets have a positional accuracy to about <0.2 arcsec from HST registered with the GSC2 system. The rest have SDSS positions to about <0.5" accuracy.

The table in the 'additional comments' field below gives the FUV magnitudes and surface brightness used to estimate acquisition and buffer times.

For BUFFER-TIME, we assumed a source flat (in Fnu) with a diameter of 1 arcsec and a surface brightness within a 1.0" diameter aperture as measured from the FUV ACS images. The buffer time is the shorter value of 2/3 times the buffer time returned by the ETC and the exposure time

(was always the exposure time).

To calculate the acquisition time, we used the COS ACQ ETC to estimate the time necessary to reach S/N~40 inside a 9x9 pixel box centered on the brightest part of the target. The surface brightnesses inside a 9x9pixel box fed to the ETC are listed in the table below.

(Note to self: In June 2009 we have exchanged target 083803 for 021348. However, given its faintness we may consider further changing 021348 into 113303 at a later stage, depending on the outcome of some of the targets that will be done first. 021348's first visibility window is during 30 Nov-31 Dec 2009.)

ADDITIONAL COMMENTS

FUV magnitudes and surface brightness measured inside apertures with 2.5" and 1.0" diameters, and the maximum surface brightness inside a 9x9 pixel box centered on the brightest component of each source. Last 2 columns give the mirror used and the exposure time for each acquisition image estimated using the COS ACQ ETC.

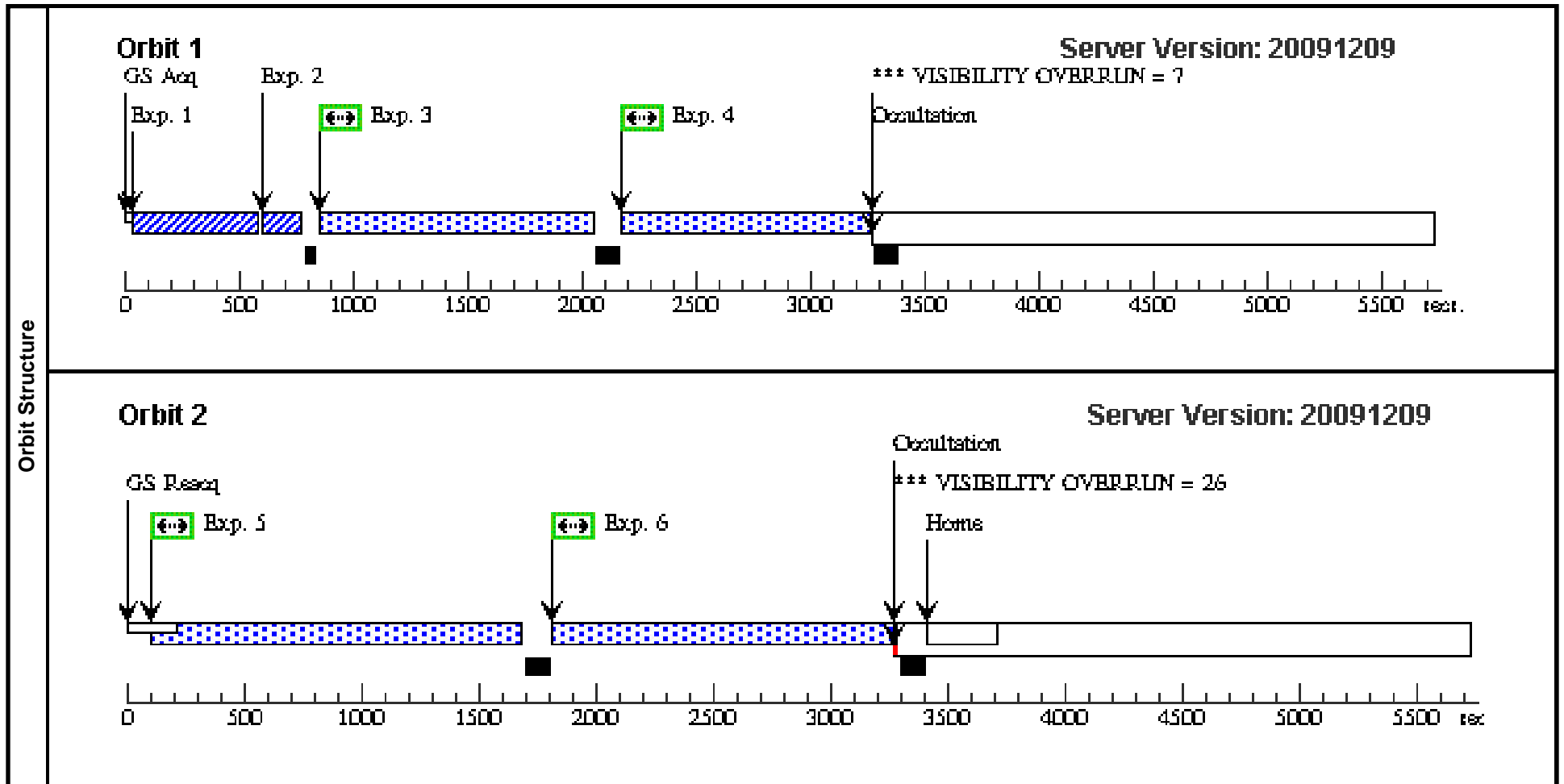
ID	REDSHIFT	MAG(2.5")	SB(2.5")	MAG(1.0")	SB(1.0")	SB(9x9pixels)	MIRROR	ACQ. TIME
		mag	mag/arcsec ²	mag	mag/arcsec ²	mag/arcsec ²	(seconds)	
***** MAGNITUDES ARE IN AB *****								
Haro11	0.02	16.0	17.7	16.4	16.1	14.1	B	28
080844	0.09	18.3	20.1	18.4	18.2	15.4	B	93
093813	0.10	18.0	19.7	18.3	18.0	16.0	B	162
210358	0.14	19.2	21.0	19.5	19.2	16.6	A	41
015028	0.15	19.3	21.1	19.7	19.4	17.6	A	102
005527	0.17	19.4	21.1	19.6	19.3	16.8	A	49
092600	0.18	19.0	20.7	19.2	18.9	17.4	A	85
021348	0.22	20.3	22.0	20.5	20.2	17.7	A	55

092159 0.24 19.2 20.9 19.5 19.2 16.7 A 45

Proposal 11727 - Visit 01 - UV spectroscopy of Local Lyman Break Galaxy Analogs: New Clues to Galaxy Formation in the...

Tue Jan 26 02:07:07 GMT 2010

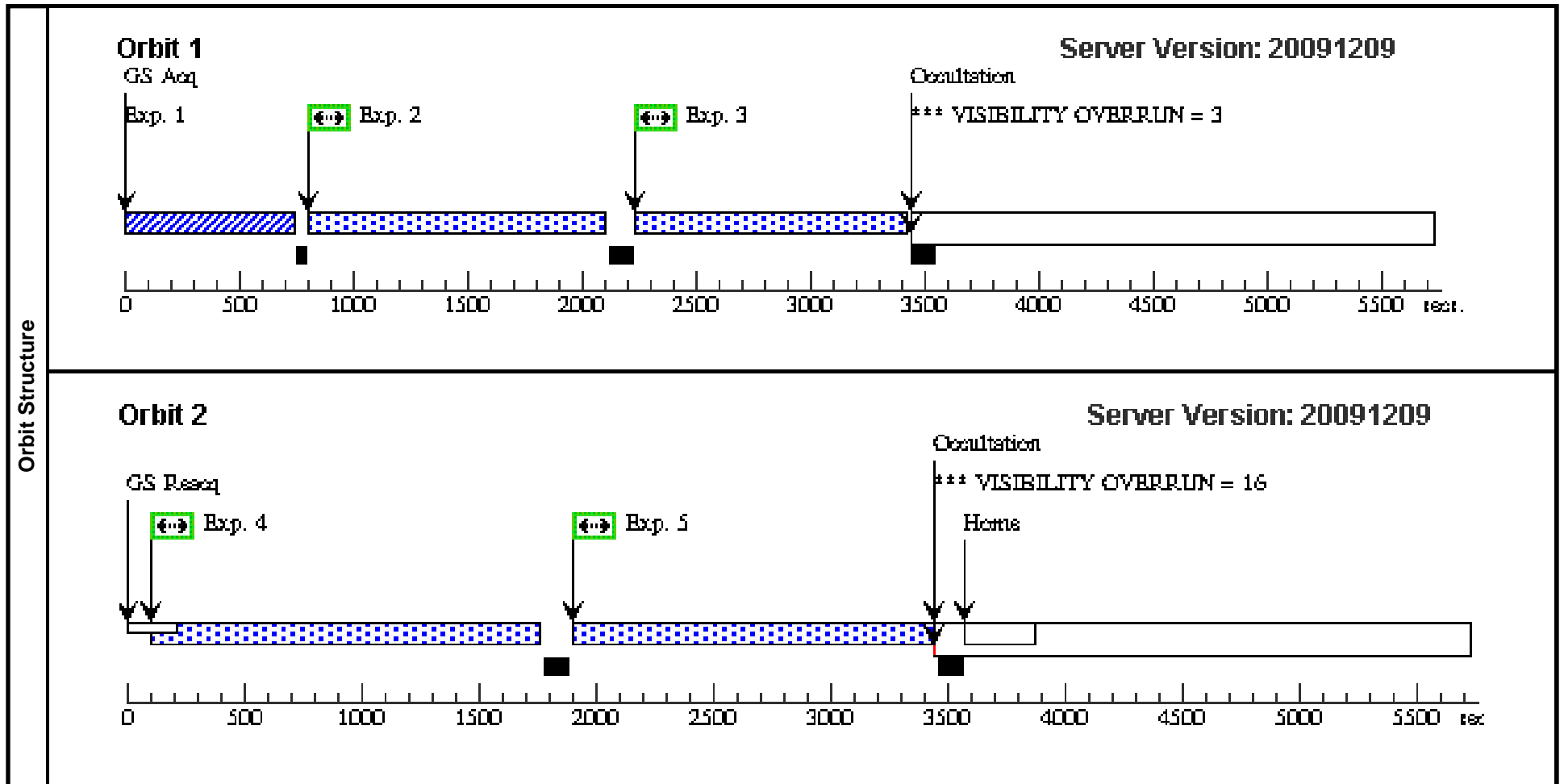
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Fixed Targets		#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous			
	(9) HARO11 RA: 00 36 51.8200 (9.2159167d) Dec: +33 33 17.00 (33.55472d) Equinox: J2000 V=15.0+/-0.1 FUV=15.96 Reference Frame: ICRS									
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	Haro11_acq_search	(9) HARO11	COS/NUV, ACQ/SEARCH, PSA	MIRRORB	CENTER=BRIGHT EST;	SCAN-SIZE=2		28 Secs [==>]	[1]
	2	Haro11_acq_image	(9) HARO11	COS/NUV, ACQ/IMAGE, PSA	MIRRORB				28 Secs [==>]	[1]
	3	Haro11_G1_30M_orbit1a	(9) HARO11	COS/FUV, TIME-TAG, PSA	G130M 1309 A	BUFFER-TIME=10 35;	FLASH=YES; FP-POS=1		1035 Secs [==>]	[1]
	4	Haro11_G1_30M_orbit1b	(9) HARO11	COS/FUV, TIME-TAG, PSA	G130M 1309 A	BUFFER-TIME=10 35;	FLASH=YES; FP-POS=4		1035 Secs [==>]	[1]
	5	Haro11_G1_60M_orbit2a	(9) HARO11	COS/FUV, TIME-TAG, PSA	G160M 1623 A	BUFFER-TIME=14 15;	FLASH=YES; FP-POS=1		1415 Secs [==>]	[2]
	6	Haro11_G1_60M_orbit2b	(9) HARO11	COS/FUV, TIME-TAG, PSA	G160M 1623 A	BUFFER-TIME=14 15;	FLASH=YES; FP-POS=4		1415 Secs [==>]	[2]



Proposal 11727 - Visit 02 - UV spectroscopy of Local Lyman Break Galaxy Analogs: New Clues to Galaxy Formation in the...

Tue Jan 26 02:07:08 GMT 2010

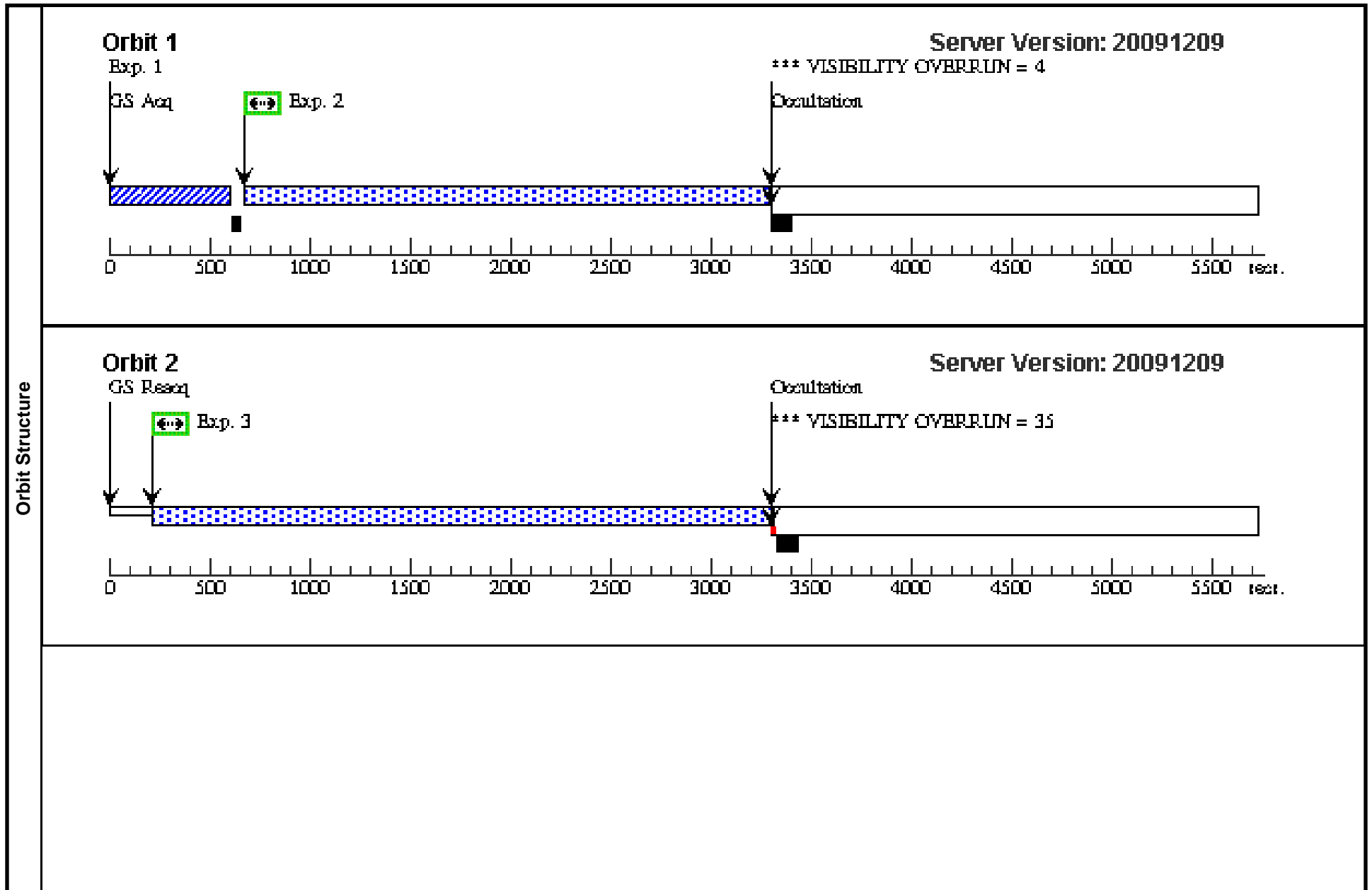
Visit	Proposal 11727, Visit 02, scheduling Diagnostic Status: Warning Scientific Instruments: COS/NUV, COS/FUV Special Requirements: AFTER 01-NOV-2009:00:00:00									
	Diagnostics	(Visit 02) Warning (Orbit Planner): VISIBILITY OVERRUN (Visit 02) Warning (Orbit Planner): VISIBILITY OVERRUN								
Fixed Targets		#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous			
	(1) SDSSJ093813.49+542825.0 RA: 09 38 13.4900 (144.5562083d) Dec: +54 28 25.09 (54.47364d) Equinox: J2000 V=17.57+/-0.1 FUV=18.0 Reference Frame: ICRS									
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	093813_acq_image	(1) SDSSJ093813.49 +542825.0	COS/NUV, ACQ/IMAGE, PSA	MIRRORB				162 Secs	
									[==>]	[1]
	2	093813_G1_30M_orbit1a	(1) SDSSJ093813.49 +542825.0	COS/FUV, TIME-TAG, PSA	G130M 1291 A		BUFFER-TIME=11 40; FLASH=YES; FP-POS=1		1140 Secs	
									[==>]	[1]
	3	093813_G1_30M_orbit1b	(1) SDSSJ093813.49 +542825.0	COS/FUV, TIME-TAG, PSA	G130M 1291 A		BUFFER-TIME=11 40; FLASH=YES; FP-POS=4		1140 Secs	
								[==>]	[1]	
4	093813_G1_60M_orbit2a	(1) SDSSJ093813.49 +542825.0	COS/FUV, TIME-TAG, PSA	G160M 1600 A		BUFFER-TIME=15 00; FLASH=YES; FP-POS=1		1500 Secs		
								[==>]	[2]	
5	093813_G1_60M_orbit2b	(1) SDSSJ093813.49 +542825.0	COS/FUV, TIME-TAG, PSA	G160M 1600 A		BUFFER-TIME=14 90; FLASH=YES; FP-POS=4		1490 Secs		
								[==>]	[2]	

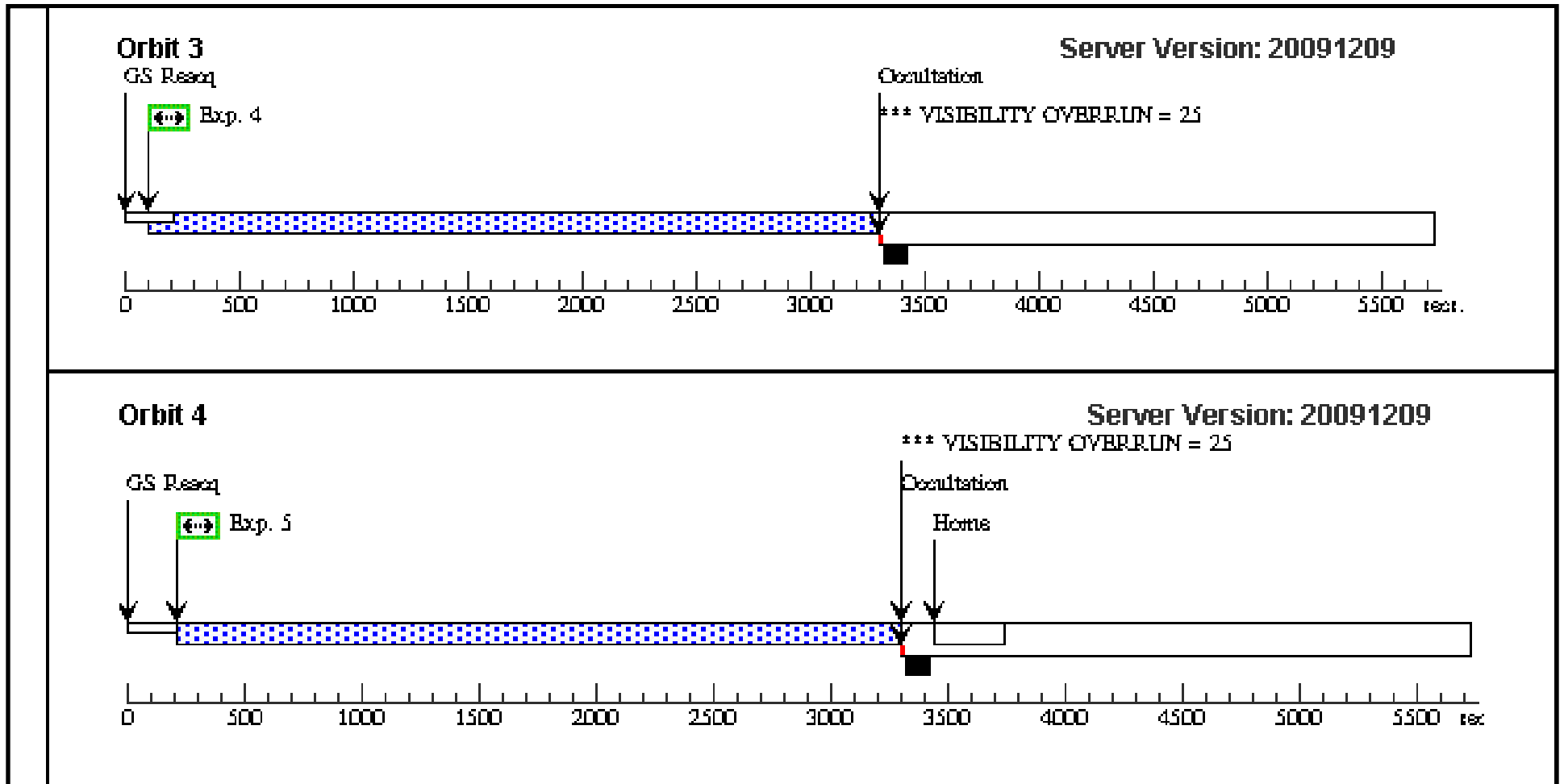


Proposal 11727 - Visit 03 - UV spectroscopy of Local Lyman Break Galaxy Analogs: New Clues to Galaxy Formation in the...

Tue Jan 26 02:07:09 GMT 2010

Visit	Proposal 11727, Visit 03, scheduling Diagnostic Status: Warning Scientific Instruments: COS/NUV, COS/FUV Special Requirements: AFTER 01-NOV-2009:00:00:00									
	Diagnostics	(Visit 03) Warning (Orbit Planner): VISIBILITY OVERRUN (Visit 03) Warning (Orbit Planner): VISIBILITY OVERRUN (Visit 03) Warning (Orbit Planner): VISIBILITY OVERRUN (Visit 03) Warning (Orbit Planner): VISIBILITY OVERRUN								
Fixed Targets		#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous			
	(2) SDSSJ080844.26+394852.3 RA: 08 08 44.2800 (122.1845000d) Dec: +39 48 52.51 (39.81459d) Equinox: J2000 V=17.4+/-0.1 FUV=18.3 Reference Frame: ICRS									
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	080844_acq_image	(2) SDSSJ080844.26+394852.3	COS/NUV, ACQ/IMAGE, PSA	MIRRORB				93 Secs [==>]	[1]
	2	080844_G1_30M_orbit1	(2) SDSSJ080844.26+394852.3	COS/FUV, TIME-TAG, PSA	G130M 1291 A		BUFFER-TIME=24 60; FLASH=YES; FP-POS=1		2460 Secs [==>]	[1]
	3	080844_G1_30M_orbit2	(2) SDSSJ080844.26+394852.3	COS/FUV, TIME-TAG, PSA	G130M 1291 A		BUFFER-TIME=30 50; FLASH=YES; FP-POS=4		3050 Secs [==>]	[2]
	4	080844_G1_60M_orbit1	(2) SDSSJ080844.26+394852.3	COS/FUV, TIME-TAG, PSA	G160M 1577 A		BUFFER-TIME=30 40; FLASH=YES; FP-POS=1		3040 Secs [==>]	[3]
	5	080844_G1_60M_orbit2	(2) SDSSJ080844.26+394852.3	COS/FUV, TIME-TAG, PSA	G160M 1577 A		BUFFER-TIME=30 40; FLASH=YES; FP-POS=4		3040 Secs [==>]	[4]

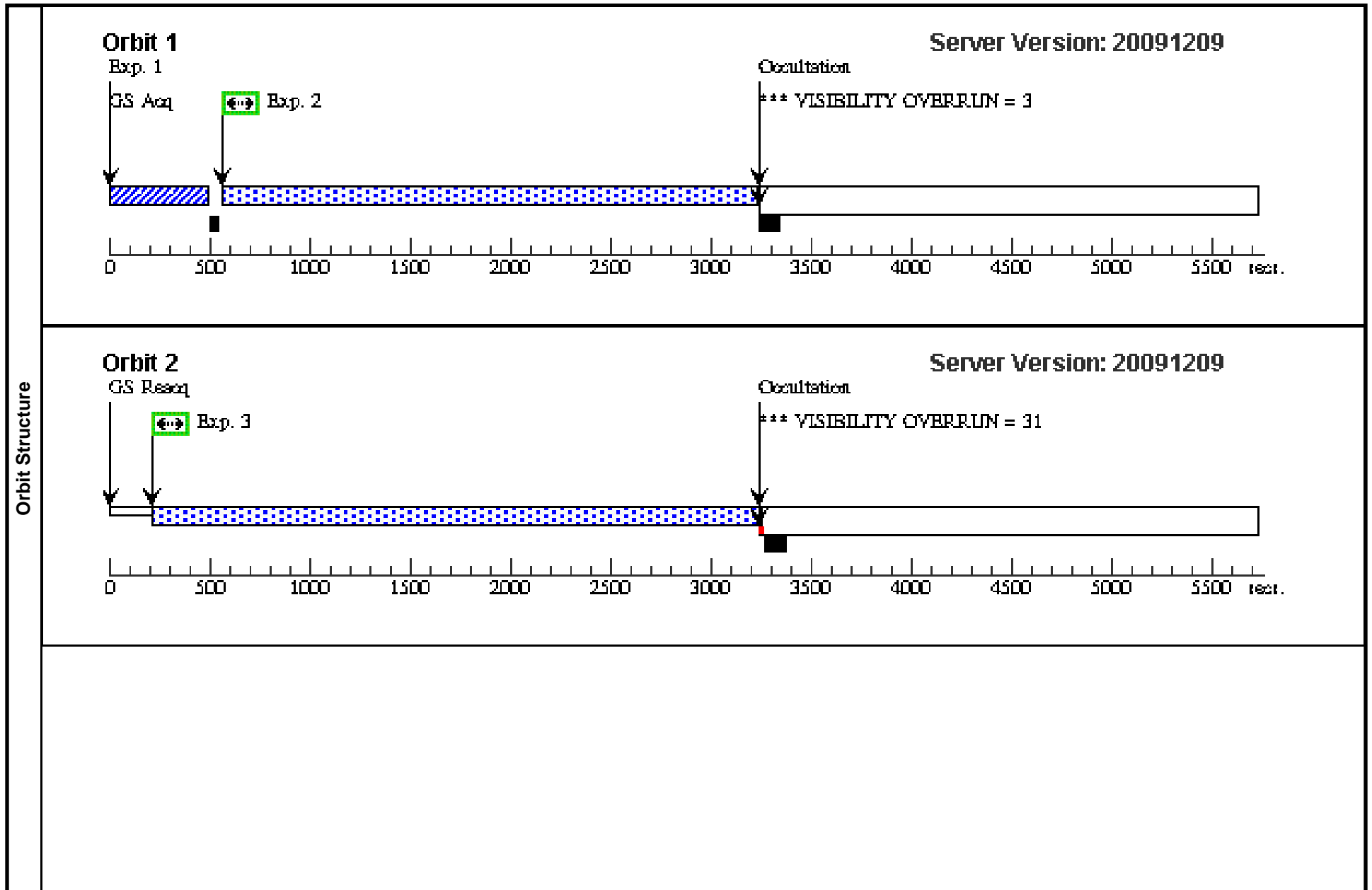


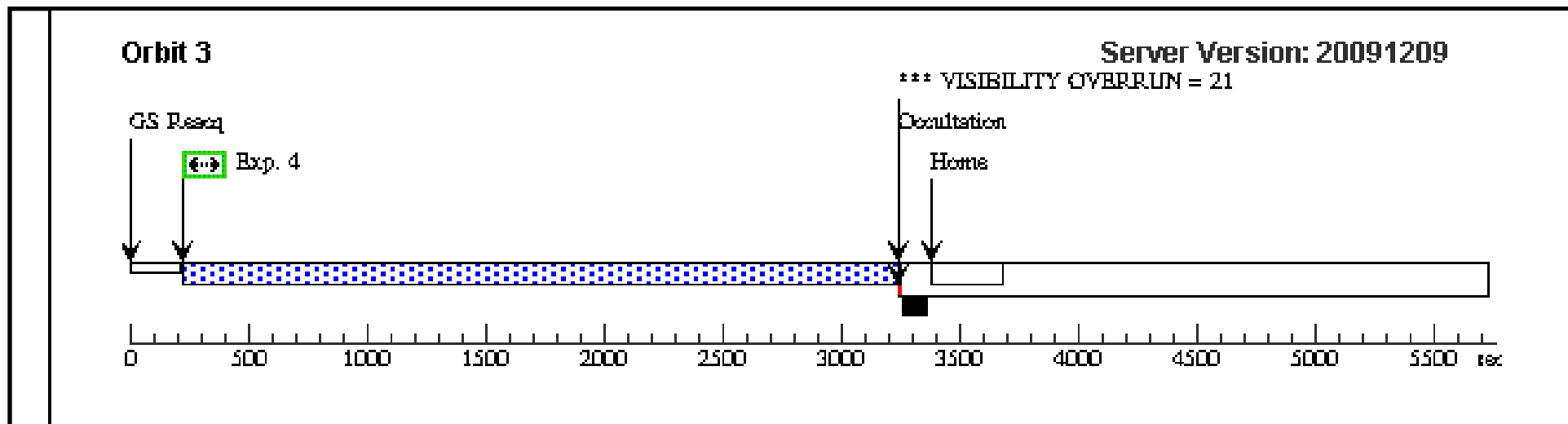


Proposal 11727 - Visit 04 - UV spectroscopy of Local Lyman Break Galaxy Analogs: New Clues to Galaxy Formation in the...

Tue Jan 26 02:07:09 GMT 2010

Visit	Proposal 11727, Visit 04, scheduling Diagnostic Status: Warning Scientific Instruments: COS/NUV, COS/FUV Special Requirements: AFTER 01-NOV-2009:00:00:00									
	(Visit 04) Warning (Orbit Planner): VISIBILITY OVERRUN (Visit 04) Warning (Orbit Planner): VISIBILITY OVERRUN (Visit 04) Warning (Orbit Planner): VISIBILITY OVERRUN									
Diagnosics										
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(7)	SDSSJ021348.53+125951.4	RA: 02 13 48.5300 (33.4522083d) Dec: +12 59 51.40 (12.99761d) Equinox: J2000		V=18.73+/-0.1 FUV=20.3	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	021348_acq_image	(7) SDSSJ021348.53 +125951.4	COS/NUV, ACQ/IMAGE, PSA	MIRRORA				54 Secs [==>]	[1]
	2	021348_G1_30M_orbit1	(7) SDSSJ021348.53 +125951.4	COS/FUV, TIME-TAG, PSA	G130M 1309 A		BUFFER-TIME=25 10; FLASH=YES; FP-POS=1		2510 Secs [==>]	[1]
	3	021348_G1_30M_orbit2	(7) SDSSJ021348.53 +125951.4	COS/FUV, TIME-TAG, PSA	G130M 1309 A		BUFFER-TIME=29 90; FLASH=YES; FP-POS=4		2990 Secs [==>]	[2]
	4	021348_G1_30M_orbit3	(7) SDSSJ021348.53 +125951.4	COS/FUV, TIME-TAG, PSA	G130M 1309 A		BUFFER-TIME=29 80; FLASH=YES; FP-POS=4		2980 Secs [==>]	[3]

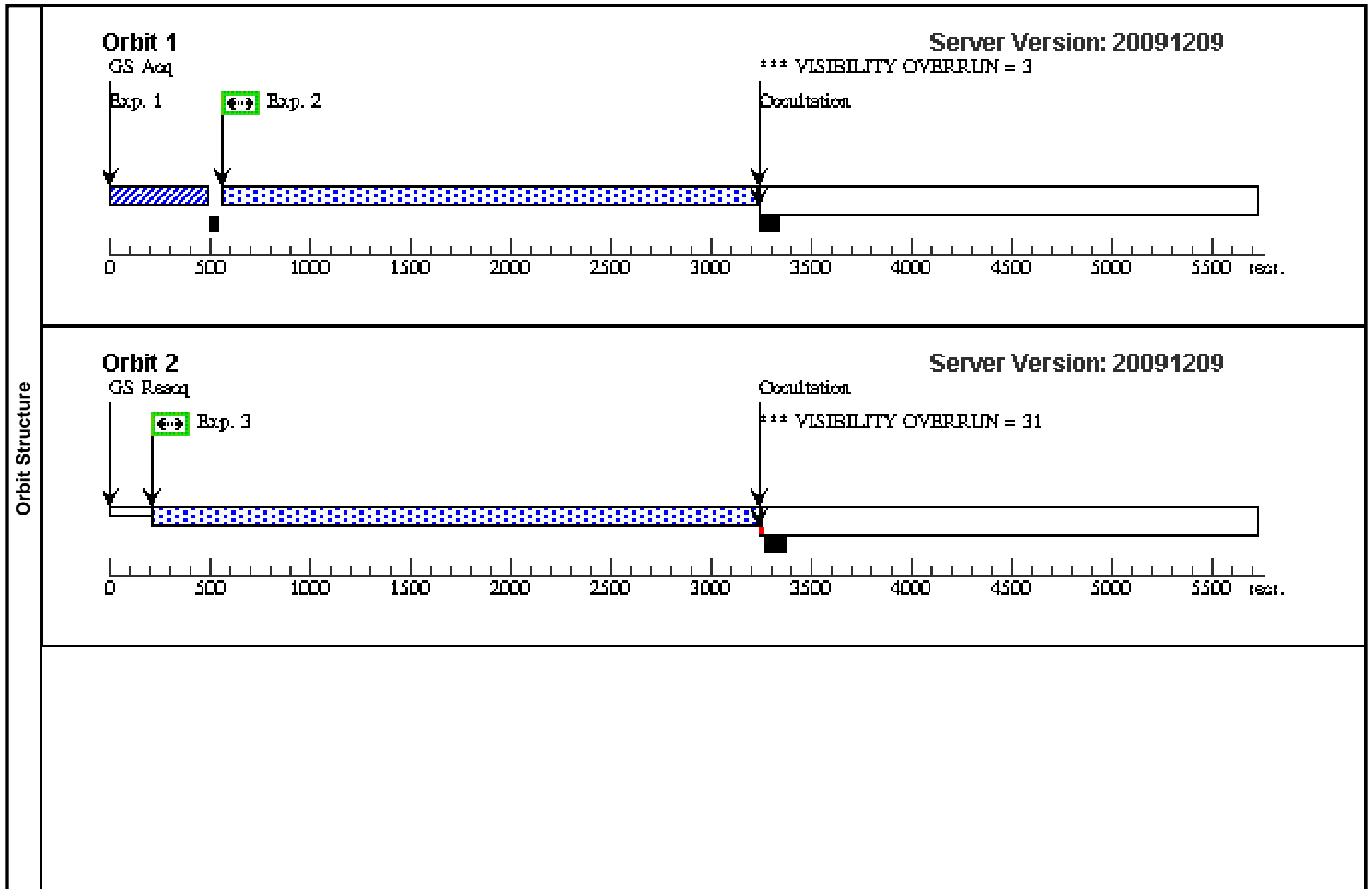


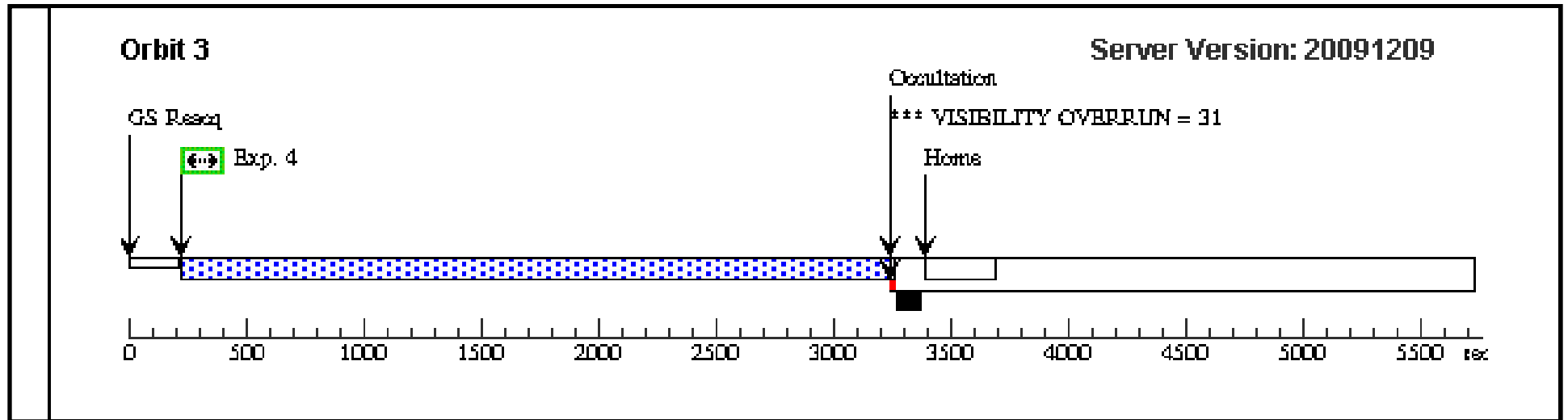


Proposal 11727 - Visit 11 - UV spectroscopy of Local Lyman Break Galaxy Analogs: New Clues to Galaxy Formation in the...

Tue Jan 26 02:07:10 GMT 2010

Visit	Proposal 11727, Visit 11, scheduling Diagnostic Status: Warning Scientific Instruments: COS/NUV, COS/FUV Special Requirements: AFTER 01-NOV-2009:00:00:00									
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Diagnosics										
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(7)	SDSSJ021348.53+125951.4	RA: 02 13 48.5300 (33.4522083d) Dec: +12 59 51.40 (12.99761d) Equinox: J2000		V=18.73+/-0.1 FUV=20.3	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	021348_acq_image	(7) SDSSJ021348.53 +125951.4	COS/NUV, ACQ/IMAGE, PSA	MIRRORA				54 Secs [==>]	[1]
	2	021348_G1_60M_orbit1	(7) SDSSJ021348.53 +125951.4	COS/FUV, TIME-TAG, PSA	G160M 1577 A		BUFFER-TIME=24 65; FLASH=YES; FP-POS=1		2465 Secs [==>]	[1]
	3	021348_G1_60M_orbit2	(7) SDSSJ021348.53 +125951.4	COS/FUV, TIME-TAG, PSA	G160M 1577 A		BUFFER-TIME=29 90; FLASH=YES; FP-POS=4		2990 Secs [==>]	[2]
	4	021348_G1_60M_orbit3	(7) SDSSJ021348.53 +125951.4	COS/FUV, TIME-TAG, PSA	G160M 1577 A		BUFFER-TIME=29 90; FLASH=YES; FP-POS=4		2990 Secs [==>]	[3]

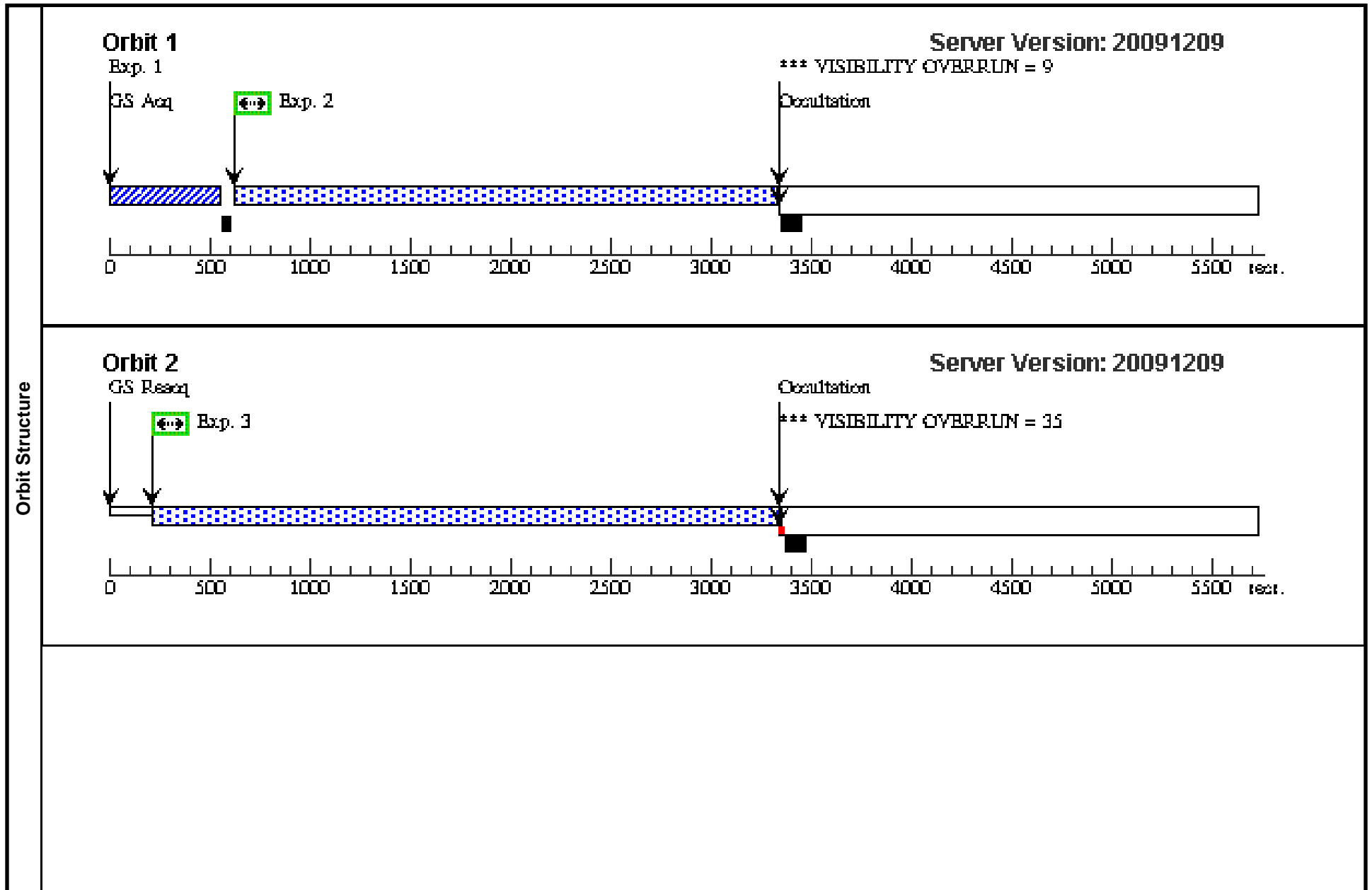


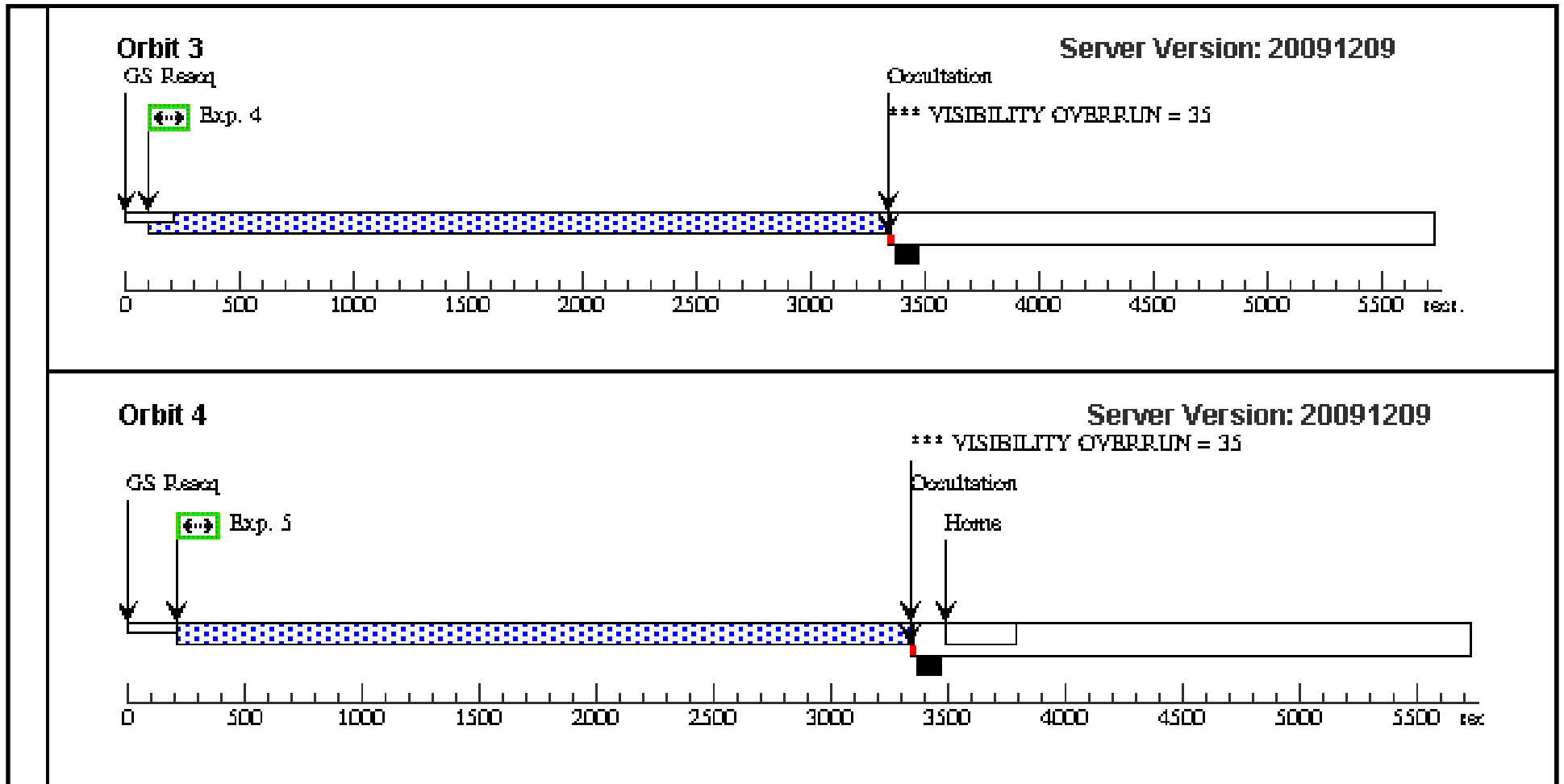


Proposal 11727 - Visit 05 - UV spectroscopy of Local Lyman Break Galaxy Analogs: New Clues to Galaxy Formation in the...

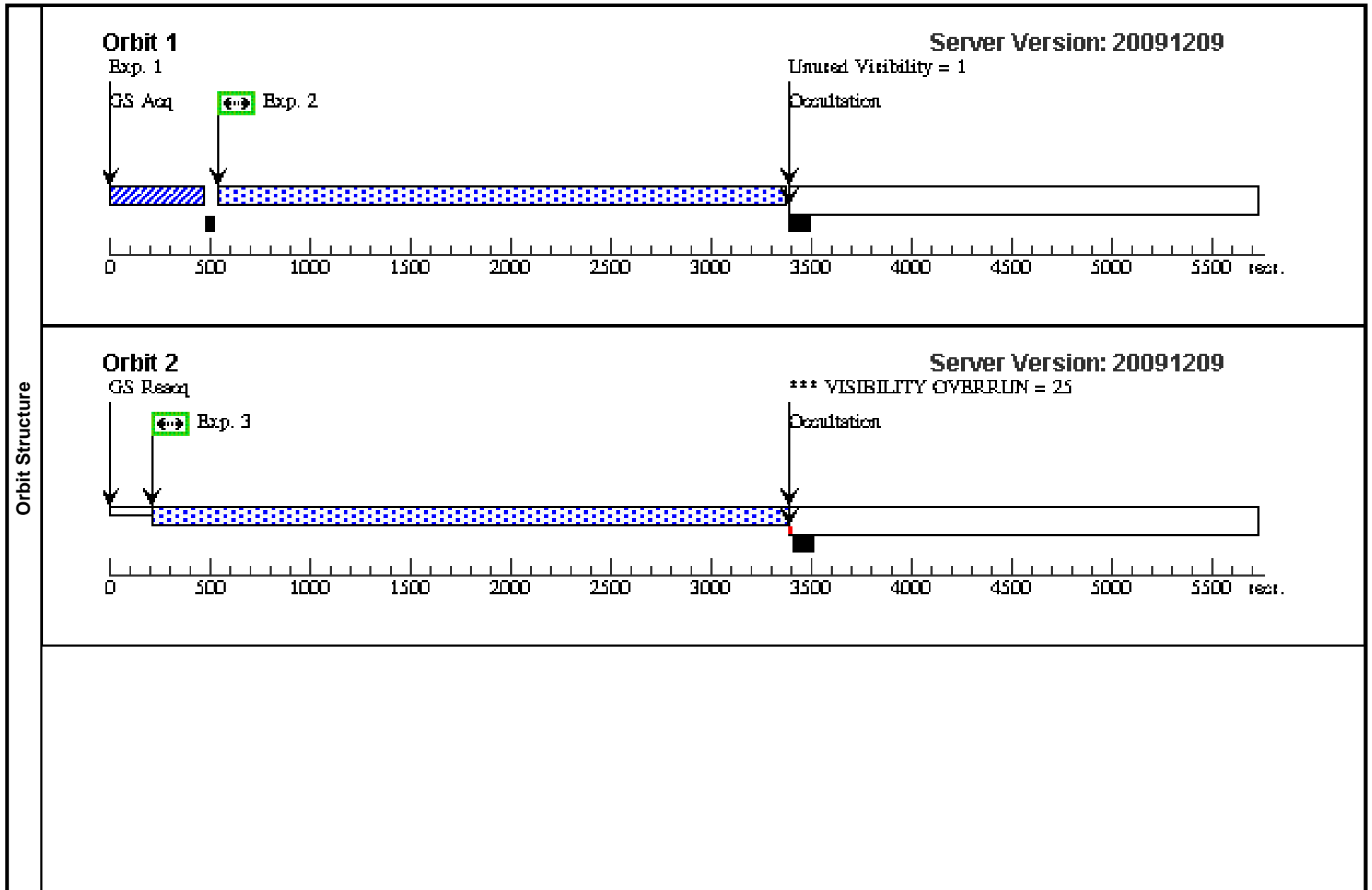
Tue Jan 26 02:07:11 GMT 2010

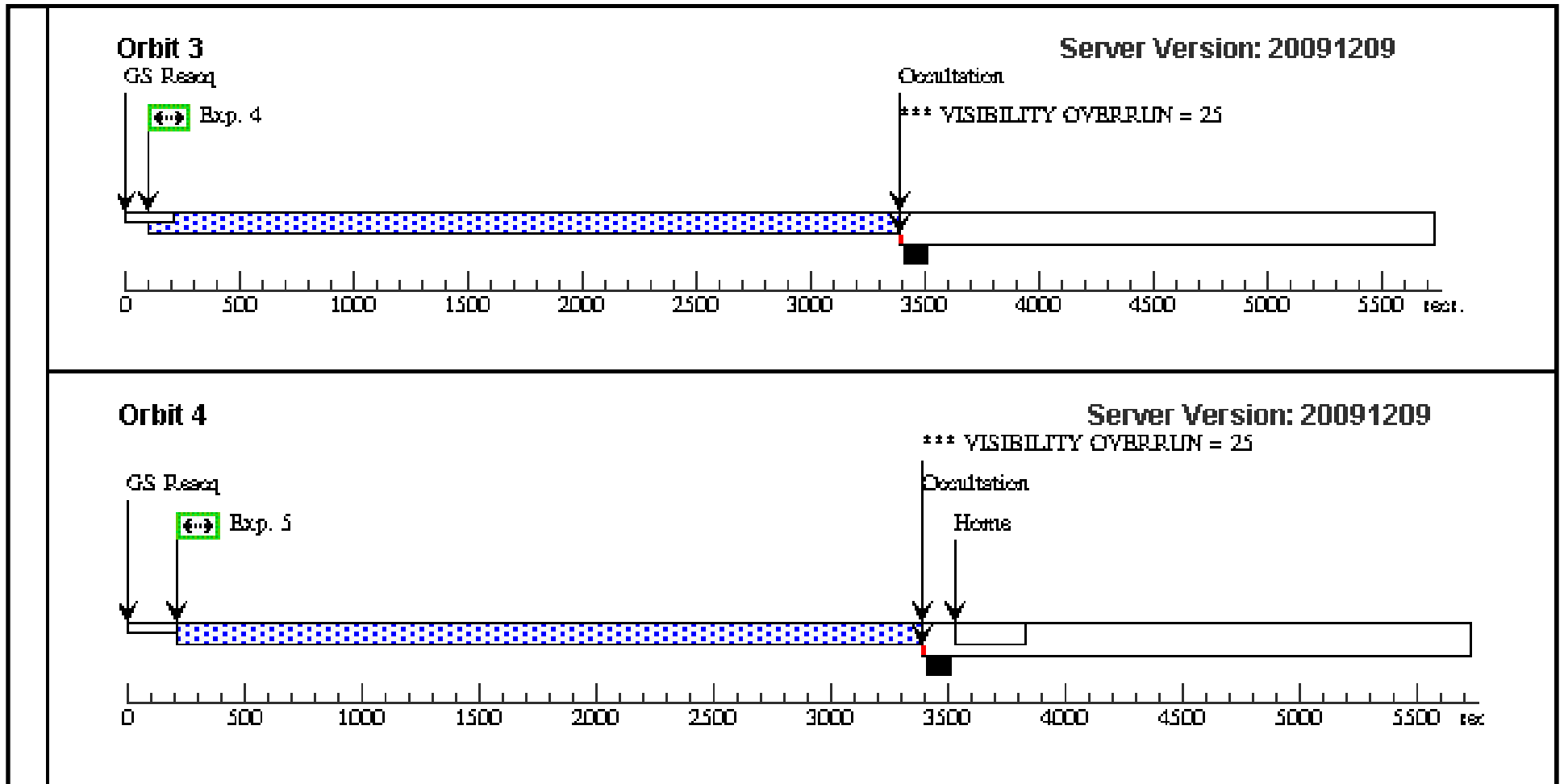
Visit	Proposal 11727, Visit 05, scheduling Diagnostic Status: Warning Scientific Instruments: COS/NUV, COS/FUV Special Requirements: AFTER 01-NOV-2009:00:00:00									
	Diagnostics	(Visit 05) Warning (Orbit Planner): VISIBILITY OVERRUN (Visit 05) Warning (Orbit Planner): VISIBILITY OVERRUN (Visit 05) Warning (Orbit Planner): VISIBILITY OVERRUN (Visit 05) Warning (Orbit Planner): VISIBILITY OVERRUN								
Fixed Targets		#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous			
	(4)	SDSSJ092600.4+442736.1	RA: 09 26 0.4400 (141.5018333d) Dec: +44 27 36.54 (44.46015d) Equinox: J2000		V=18.5+/-0.1 FUV=19.0	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	092600_acq_image	(4) SDSSJ092600.4+442736.1	COS/NUV, ACQ/IMAGE, PSA	MIRRORA				85 Secs [==>]	[1]
	2	092600_G1_30M_orbit1	(4) SDSSJ092600.4+442736.1	COS/FUV, TIME-TAG, PSA	G130M 1300 A		BUFFER-TIME=25 50; FLASH=YES; FP-POS=1		2550 Secs [==>]	[1]
	3	092600_G1_30M_orbit2	(4) SDSSJ092600.4+442736.1	COS/FUV, TIME-TAG, PSA	G130M 1300 A		BUFFER-TIME=30 90; FLASH=YES; FP-POS=4		3090 Secs [==>]	[2]
	4	092600_G1_60M_orbit1	(4) SDSSJ092600.4+442736.1	COS/FUV, TIME-TAG, PSA	G160M 1611 A		BUFFER-TIME=30 90; FLASH=YES; FP-POS=1		3090 Secs [==>]	[3]
	5	092600_G1_60M_orbit2	(4) SDSSJ092600.4+442736.1	COS/FUV, TIME-TAG, PSA	G160M 1611 A		BUFFER-TIME=30 90; FLASH=YES; FP-POS=4		3090 Secs [==>]	[4]





Visit	Proposal 11727, Visit 06, scheduling Diagnostic Status: Warning Scientific Instruments: COS/NUV, COS/FUV Special Requirements: AFTER 01-NOV-2009:00:00:00									
	(Visit 06) Warning (Orbit Planner): VISIBILITY OVERRUN (Visit 06) Warning (Orbit Planner): VISIBILITY OVERRUN (Visit 06) Warning (Orbit Planner): VISIBILITY OVERRUN									
Diagnosics										
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(6)	SDSSJ092159.38+450912.3	RA: 09 21 59.3900 (140.4974583d) Dec: +45 09 12.38 (45.15344d) Equinox: J2000		V=17.7+/-0.1 FUV=19.2	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	092159_acq_image	(6) SDSSJ092159.38 +450912.3	COS/NUV, ACQ/IMAGE, PSA	MIRRORA				45 Secs [==>]	[1]
	2	092159_G1_30M_orbit1	(6) SDSSJ092159.38 +450912.3	COS/FUV, TIME-TAG, PSA	G130M 1327 A		BUFFER-TIME=26 70; FLASH=YES; FP-POS=1		2670 Secs [==>]	[1]
	3	092159_G1_30M_orbit2	(6) SDSSJ092159.38 +450912.3	COS/FUV, TIME-TAG, PSA	G130M 1327 A		BUFFER-TIME=31 30; FLASH=YES; FP-POS=4		3130 Secs [==>]	[2]
	4	092159_G1_60M_orbit1	(6) SDSSJ092159.38 +450912.3	COS/FUV, TIME-TAG, PSA	G160M 1589 A		BUFFER-TIME=31 30; FLASH=YES; FP-POS=1		3130 Secs [==>]	[3]
	5	092159_G1_60M_orbit2	(6) SDSSJ092159.38 +450912.3	COS/FUV, TIME-TAG, PSA	G160M 1589 A		BUFFER-TIME=31 30; FLASH=YES; FP-POS=4		3130 Secs [==>]	[4]

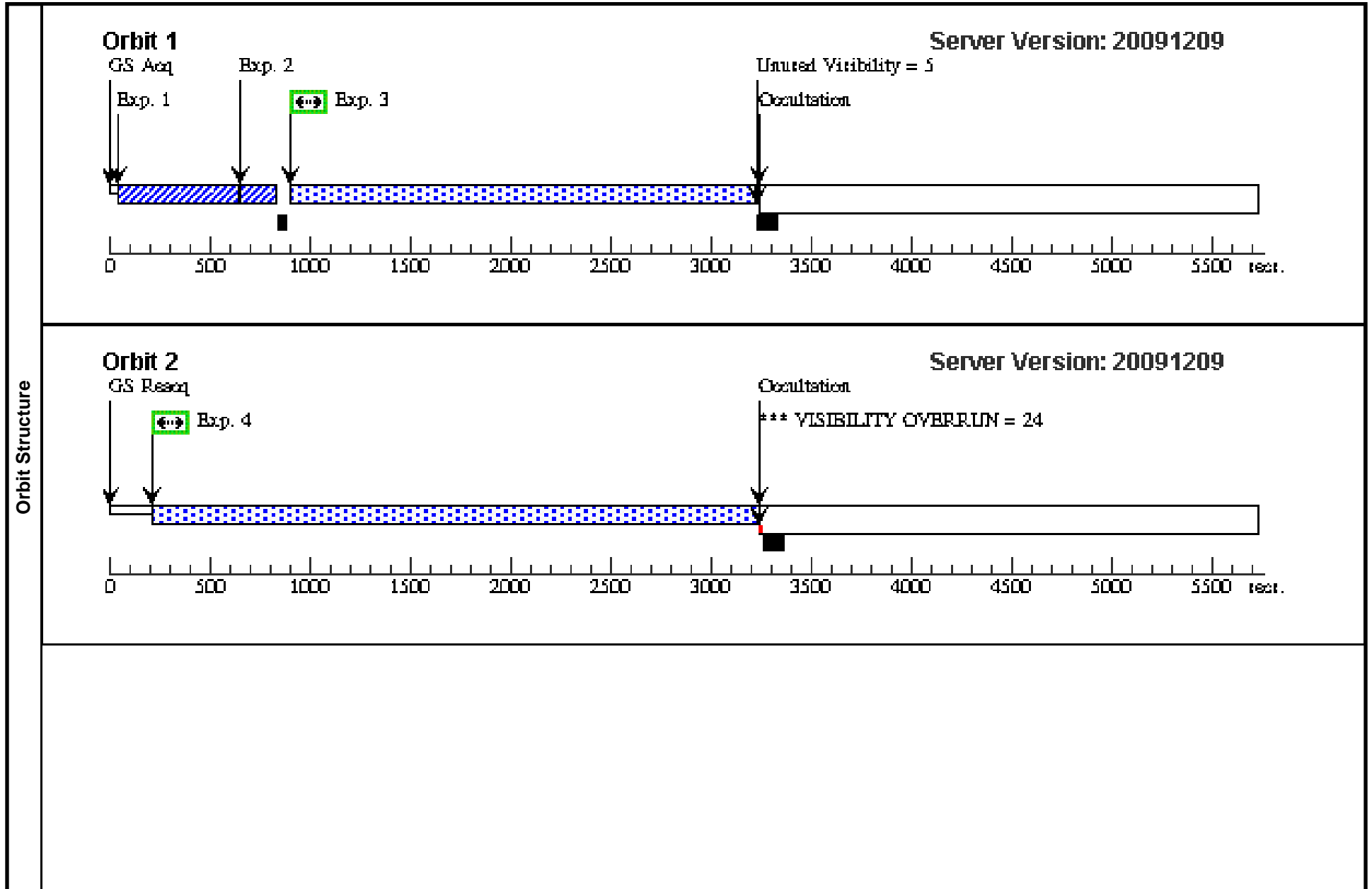


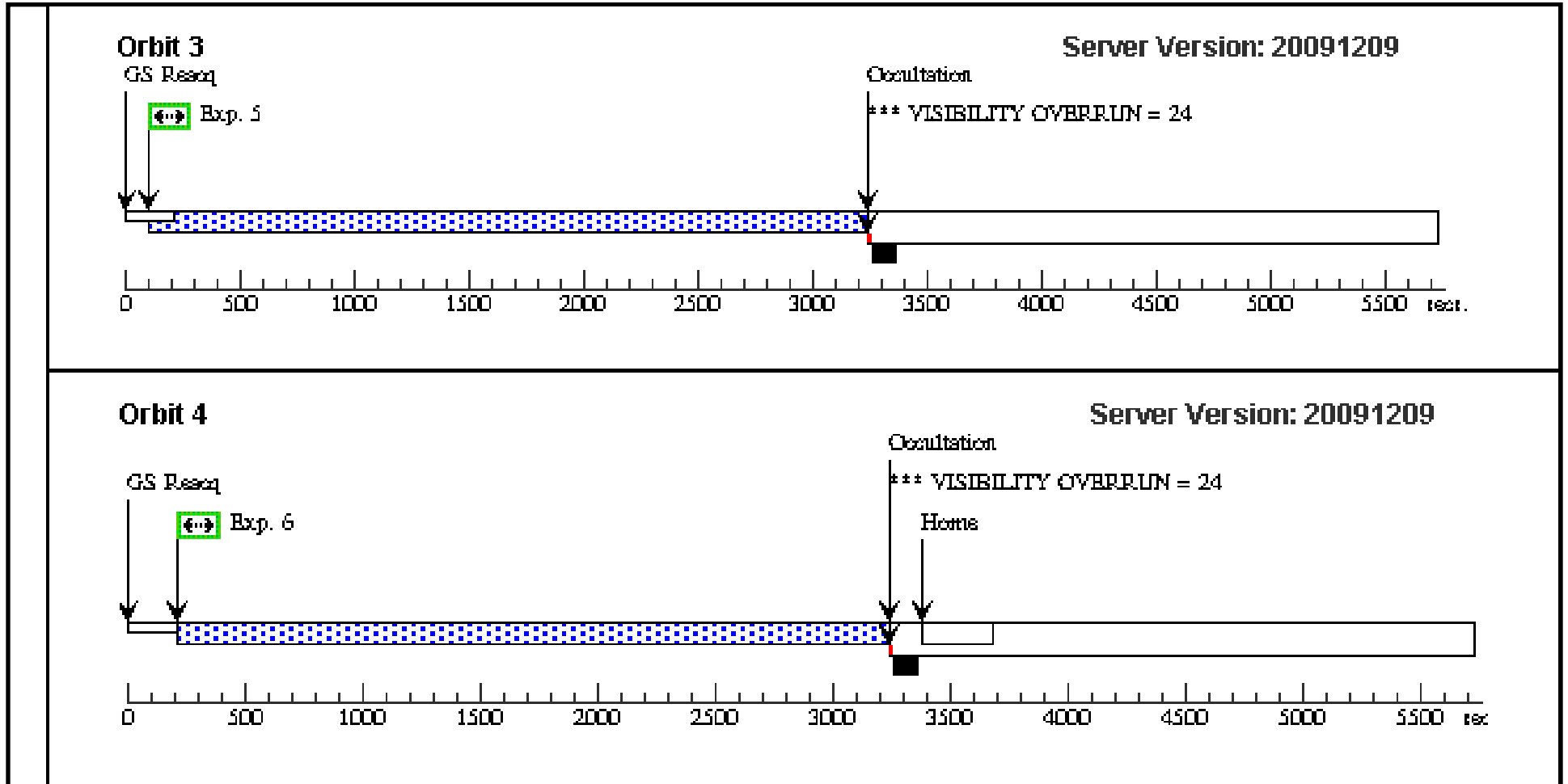


Proposal 11727 - Visit 07 - UV spectroscopy of Local Lyman Break Galaxy Analogs: New Clues to Galaxy Formation in the...

Tue Jan 26 02:07:12 GMT 2010

Visit	Proposal 11727, Visit 07, scheduling Diagnostic Status: Warning Scientific Instruments: COS/NUV, COS/FUV Special Requirements: (none)									
	Diagnostics	(Visit 07) Warning (Orbit Planner): VISIBILITY OVERRUN (Visit 07) Warning (Orbit Planner): VISIBILITY OVERRUN (Visit 07) Warning (Orbit Planner): VISIBILITY OVERRUN								
Fixed Targets		#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous			
		(3)	SDSSJ210358.74-072802.3	RA: 21 03 58.7400 (315.9947500d) Dec: -07 28 2.48 (-7.46736d) Equinox: J2000		V=16.32+/-0.1 FUV=19.2	Reference Frame: ICRS			
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	210358_acq_search	(3) SDSSJ210358.74-072802.3	COS/NUV, ACQ/SEARCH, PSA	MIRRORA	CENTER=BRIGHT EST; SCAN-SIZE=2			41 Secs [==>]	[1]
	2	210358_acq_image	(3) SDSSJ210358.74-072802.3	COS/NUV, ACQ/IMAGE, PSA	MIRRORA				41 Secs [==>]	[1]
	3	210358_G1_30M_orbit1	(3) SDSSJ210358.74-072802.3	COS/FUV, TIME-TAG, PSA	G130M 1327 A	BUFFER-TIME=21 55; FLASH=YES; FP-POS=1			2155 Secs [==>]	[1]
	4	210358_G1_30M_orbit2	(3) SDSSJ210358.74-072802.3	COS/FUV, TIME-TAG, PSA	G130M 1327 A	BUFFER-TIME=29 80; FLASH=YES; FP-POS=4			2980 Secs [==>]	[2]
	5	210358_G1_60M_orbit1	(3) SDSSJ210358.74-072802.3	COS/FUV, TIME-TAG, PSA	G160M 1623 A	BUFFER-TIME=29 80; FLASH=YES; FP-POS=1			2980 Secs [==>]	[3]
	6	210358_G1_60M_orbit2	(3) SDSSJ210358.74-072802.3	COS/FUV, TIME-TAG, PSA	G160M 1623 A	BUFFER-TIME=29 80; FLASH=YES; FP-POS=4			2980 Secs [==>]	[4]

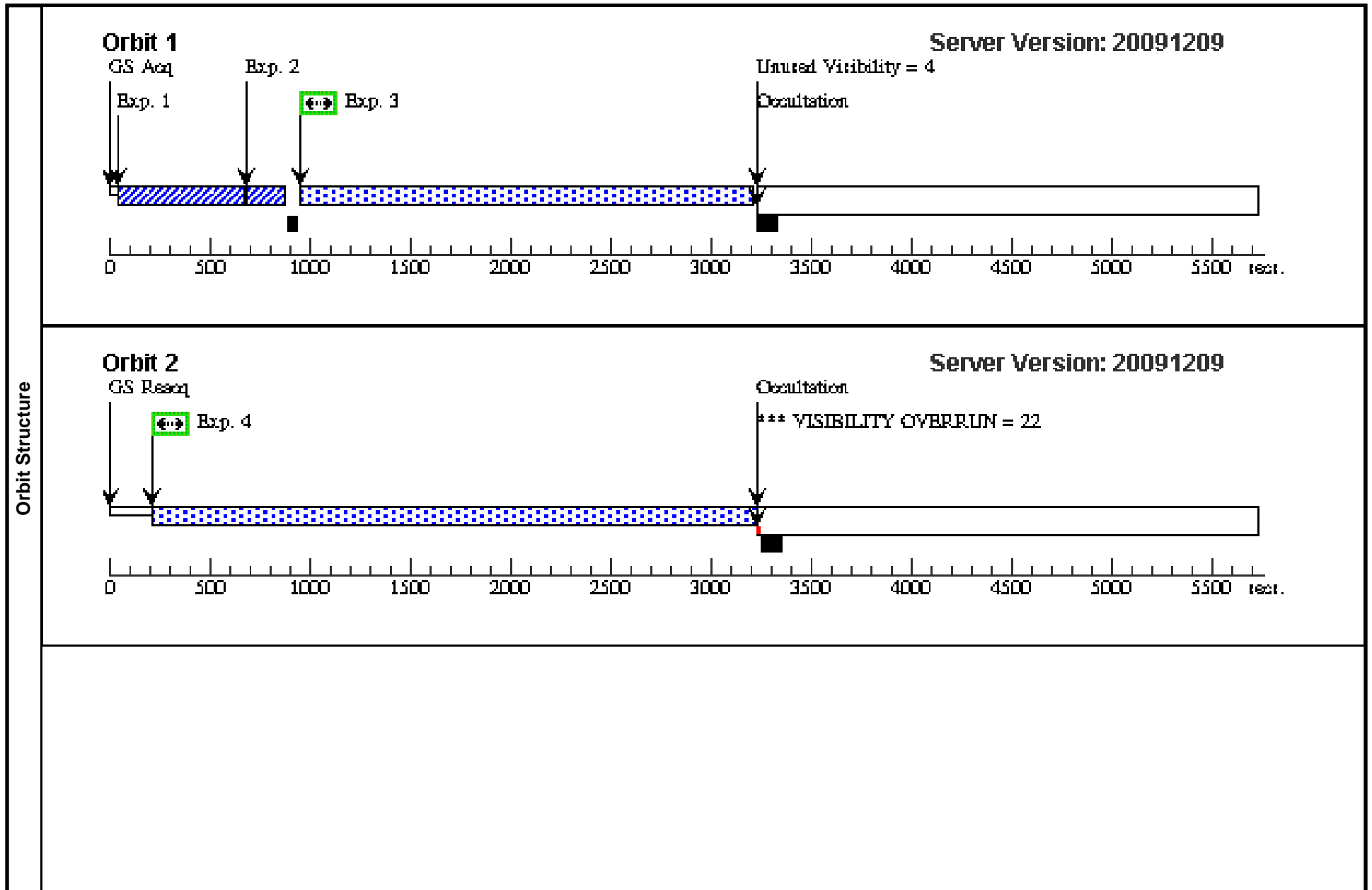


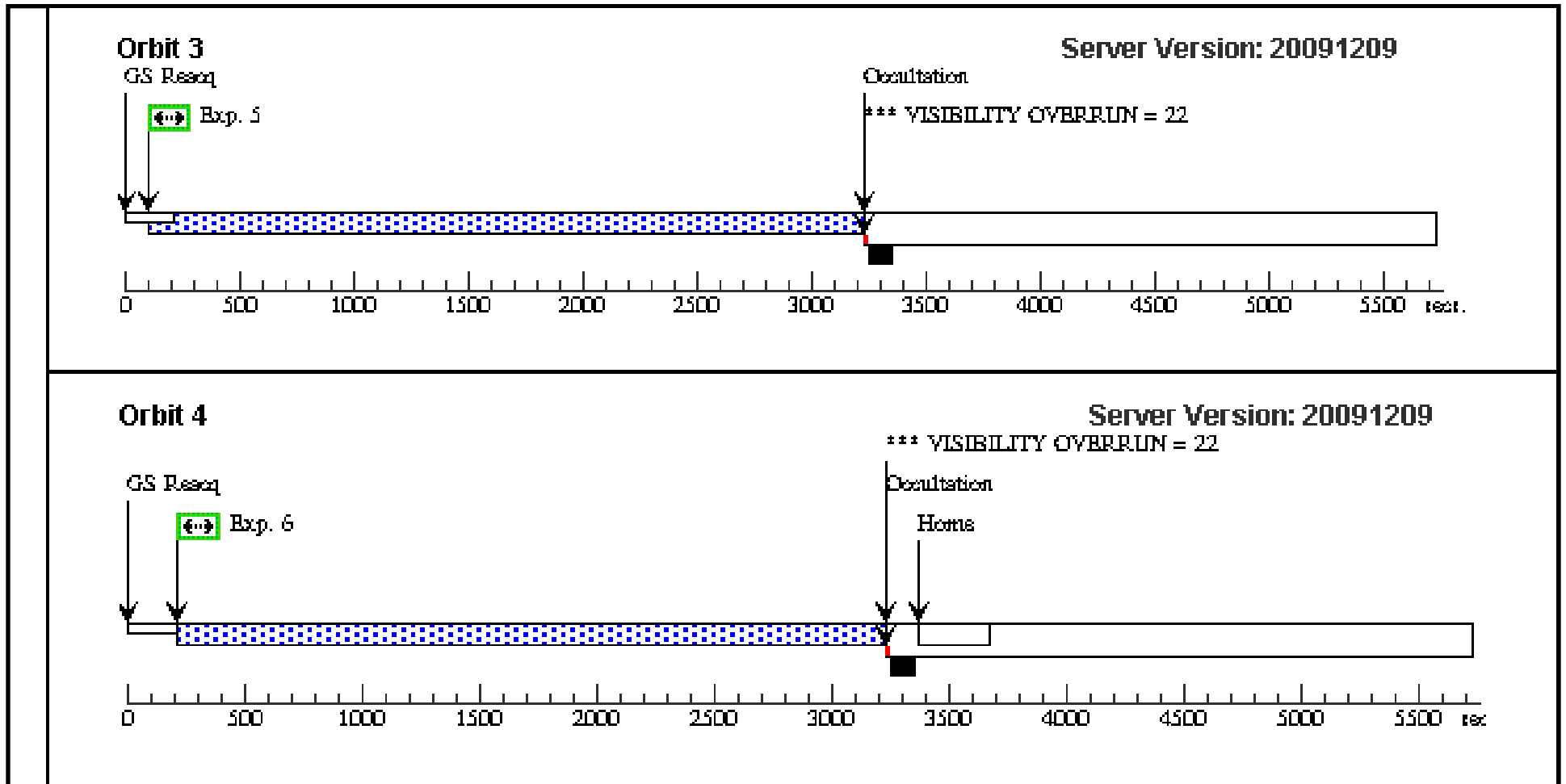


Proposal 11727 - Visit 08 - UV spectroscopy of Local Lyman Break Galaxy Analogs: New Clues to Galaxy Formation in the...

Tue Jan 26 02:07:13 GMT 2010

Visit	Proposal 11727, Visit 08, failed Diagnostic Status: Warning Scientific Instruments: COS/NUV, COS/FUV Special Requirements: (none)									
	Diagnostics	(Visit 08) Warning (Orbit Planner): VISIBILITY OVERRUN (Visit 08) Warning (Orbit Planner): VISIBILITY OVERRUN (Visit 08) Warning (Orbit Planner): VISIBILITY OVERRUN								
Fixed Targets		#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous			
	(5)	SDSSJ005527.46-002148.7	RA: 00 55 27.4700 (13.8644583d) Dec: -00 21 48.55 (-.36349d) Equinox: J2000		V=18.1+/-0.1 FUV=19.4	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	005527_acq_search	(5) SDSSJ005527.46-002148.7	COS/NUV, ACQ/SEARCH, PSA	MIRRORA	CENTER=BRIGHT EST; SCAN-SIZE=2			49 Secs [==>]	[1]
	2	005527_acq_image	(5) SDSSJ005527.46-002148.7	COS/NUV, ACQ/IMAGE, PSA	MIRRORA				49 Secs [==>]	[1]
	3	005527_G1_30M_orbit1	(5) SDSSJ005527.46-002148.7	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=21 00; FLASH=YES; FP-POS=1			2100 Secs [==>]	[1]
	4	005527_G1_30M_orbit2	(5) SDSSJ005527.46-002148.7	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=29 70; FLASH=YES; FP-POS=4			2970 Secs [==>]	[2]
	5	005527_G1_60M_orbit1	(5) SDSSJ005527.46-002148.7	COS/FUV, TIME-TAG, PSA	G160M 1589 A	BUFFER-TIME=29 70; FLASH=YES; FP-POS=1			2970 Secs [==>]	[3]
	6	005527_G1_60M_orbit2	(5) SDSSJ005527.46-002148.7	COS/FUV, TIME-TAG, PSA	G160M 1589 A	BUFFER-TIME=29 70; FLASH=YES; FP-POS=4			2970 Secs [==>]	[4]

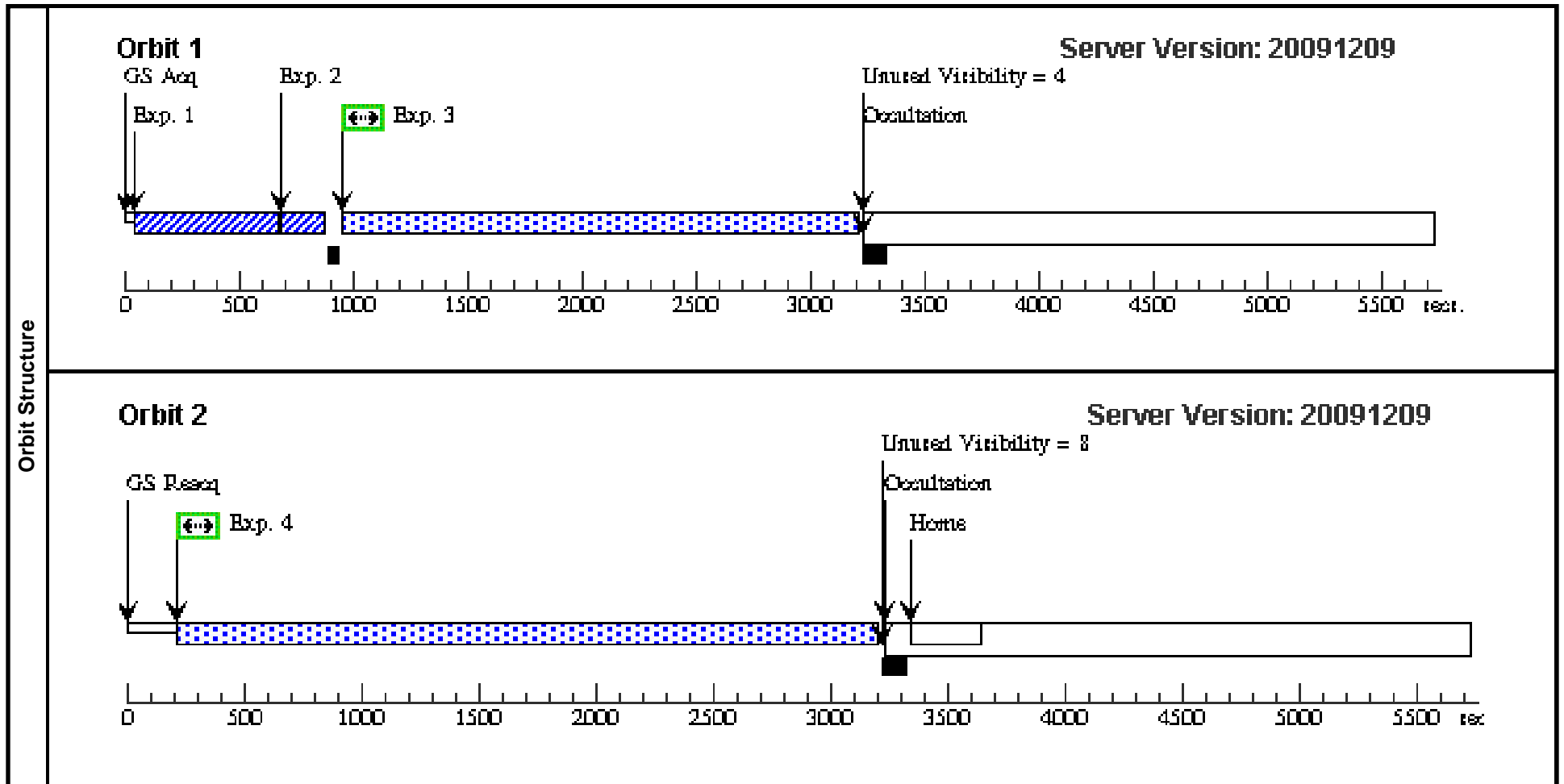




Proposal 11727 - Visit 12 - UV spectroscopy of Local Lyman Break Galaxy Analogs: New Clues to Galaxy Formation in the...

Tue Jan 26 02:07:14 GMT 2010

Visit	Proposal 11727, Visit 12, implementation Diagnostic Status: No Diagnostics Scientific Instruments: COS/NUV, COS/FUV Special Requirements: (none)									
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous			
	(5)	SDSSJ005527.46-002148.7	RA: 00 55 27.4700 (13.8644583d) Dec: -00 21 48.55 (-.36349d) Equinox: J2000		V=18.1+/-0.1 FUV=19.4	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	005527_acq_search	(5) SDSSJ005527.46-002148.7	COS/NUV, ACQ/SEARCH, PSA	MIRRORA	CENTER=BRIGHT EST; SCAN-SIZE=2	GS ACQ SCENARI O BASE1B3		49 Secs [==>]	[1]
	2	005527_acq_image	(5) SDSSJ005527.46-002148.7	COS/NUV, ACQ/IMAGE, PSA	MIRRORA				49 Secs [==>]	[1]
	3	005527_G1_30M_orbit1	(5) SDSSJ005527.46-002148.7	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=2100; FLASH=YES; FP-POS=1			2100 Secs [==>]	[1]
	4	005527_G1_30M_orbit2	(5) SDSSJ005527.46-002148.7	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=2940; FLASH=YES; FP-POS=4			2940 Secs [==>]	[2]



Proposal 11727 - Visit 09 - UV spectroscopy of Local Lyman Break Galaxy Analogs: New Clues to Galaxy Formation in the...

Tue Jan 26 02:07:14 GMT 2010

Visit	Proposal 11727, Visit 09, completed Diagnostic Status: Warning Scientific Instruments: COS/NUV, COS/FUV Special Requirements: (none)									
	Diagnostics	(Visit 09) Warning (Orbit Planner): VISIBILITY OVERRUN (Visit 09) Warning (Orbit Planner): VISIBILITY OVERRUN (Visit 09) Warning (Orbit Planner): VISIBILITY OVERRUN (Visit 09) Warning (Orbit Planner): VISIBILITY OVERRUN								
Fixed Targets		#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous			
		(8)	SDSSJ015028.4+130858.3	RA: 01 50 28.4100 (27.6183750d) Dec: +13 08 58.40 (13.14956d) Equinox: J2000		V=17.81+/-0.1 FUV=19.30	Reference Frame: ICRS			
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	015028_acq_search	(8) SDSSJ015028.4+130858.3	COS/NUV, ACQ/SEARCH, PSA	MIRRORA	CENTER=BRIGHT EST;	SCAN-SIZE=2		102 Secs [==>]	[1]
	2	015028_acq_image	(8) SDSSJ015028.4+130858.3	COS/NUV, ACQ/IMAGE, PSA	MIRRORA				102 Secs [==>]	[1]
	3	015028_G1_30M_orbit1	(8) SDSSJ015028.4+130858.3	COS/FUV, TIME-TAG, PSA	G130M 1327 A	BUFFER-TIME=1800;	FLASH=YES; FP-POS=1		1800 Secs [==>]	[1]
	4	015028_G1_30M_orbit2	(8) SDSSJ015028.4+130858.3	COS/FUV, TIME-TAG, PSA	G130M 1327 A	BUFFER-TIME=2990;	FLASH=YES; FP-POS=4		2990 Secs [==>]	[2]
	5	015028_G1_60M_orbit1	(8) SDSSJ015028.4+130858.3	COS/FUV, TIME-TAG, PSA	G160M 1623 A	BUFFER-TIME=2990;	FLASH=YES; FP-POS=1		2990 Secs [==>]	[3]
	6	015028_G1_60M_orbit2	(8) SDSSJ015028.4+130858.3	COS/FUV, TIME-TAG, PSA	G160M 1623 A	BUFFER-TIME=2990;	FLASH=YES; FP-POS=4		2990 Secs [==>]	[4]

