



14131 - Origin of double peaks in Lyman-alpha spectra: diffuse halos or Lyman continuum leakage?

Cycle: 23, Proposal Category: GO

(UV Initiative)

(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	(1) SDSS-J121903.98+152608.5	ACS/SBC	2	23-Jan-2016 21:08:11.0	yes
02	(2) SDSS-J145735.13+223201.8	ACS/SBC	2	23-Jan-2016 21:08:13.0	yes
04	(4) SDSS-J113722.14+352426.6	ACS/SBC	2	23-Jan-2016 21:08:14.0	yes
05	(3) SDSS-J124834.63+123402.9	ACS/SBC	2	23-Jan-2016 21:08:15.0	yes
06	(3) SDSS-J124834.63+123402.9	ACS/SBC	2	23-Jan-2016 21:08:16.0	yes
07	(1) SDSS-J121903.98+152608.5	WFC3/UVIS	1	23-Jan-2016 21:08:17.0	yes
08	(2) SDSS-J145735.13+223201.8	WFC3/UVIS	1	23-Jan-2016 21:08:18.0	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>
09	(3) SDSS-J124834.63+123402.9	WFC3/UVIS	1	23-Jan-2016 21:08:20.0	yes
10	(4) SDSS-J113722.14+352426.6	WFC3/UVIS	1	23-Jan-2016 21:08:21.0	yes
11	(1) SDSS-J121903.98+152608.5	ACS/WFC	1	23-Jan-2016 21:08:22.0	yes
12	(2) SDSS-J145735.13+223201.8	ACS/WFC	1	23-Jan-2016 21:08:23.0	yes
13	(4) SDSS-J113722.14+352426.6	ACS/WFC	1	23-Jan-2016 21:08:24.0	yes
14	(3) SDSS-J124834.63+123402.9	ACS/WFC	1	23-Jan-2016 21:08:25.0	yes

18 Total Orbits Used

ABSTRACT

The Lyman-alpha (Ly α) line of hydrogen is a tool of prominent cosmological importance. Most of the observed spectra show P-Cygni profiles, but a fraction of them are double-peaked, interpreted as radiative transfer effects in static media in the realm of the common expanding shell models. However, several studies indicate that this interpretation is inconsistent with ancillary data. We propose a new theoretical scheme for the origin of 2 types of double peaks: 1) Our simulations show that double peaks arise in Ly α "halos", i.e. diffuse Ly α emission in circum-galactic gas. 2) We predict that no Ly α halos are expected at galaxies with escaping Lyman continuum (LyC), and in this case narrow Ly α double peaks result from radiative transfer in low column density of neutral hydrogen. We propose testing these two schemes on Green Peas, a class of local, compact, low-mass, low-metallicity galaxies, which comprise some of the strongest candidates for LyC escape. Most of their HST/COS Ly α spectra are double-peaked, carrying the signal from the entire galaxy and its Ly α halo, thanks to the target compactness. We have selected 4 targets with very different Ly α spectra: narrow and broad, strong and weak double-peaks, and one single-peak spectrum. We will image them in Ly α , FUV continuum and H-alpha. We expect detecting 2 large halos (plus one available in the archive), while the other 2 targets are probable LyC leakers. We will search for connections between spatial Ly α properties (halo extent, surface brightness profile, flux concentration) and spectral Ly α signatures (peak separation, blue peak strength). Our results will have impact on Ly α data interpretation both at low and high redshift.

OBSERVING DESCRIPTION

This program will image 4 compact dwarf galaxies with two ACS/SBC filters to synthesize a Ly α bandpass (F140LP and F150LP - 2 orbits per target for $z < 0.2$, or F150LP and F165LP - 4 orbits per target for $z > 0.2$), with two WFC3/UVIS filters (F390W and F475W, 1 orbit per target), and with ACS/WFC (F850LP and ramp filters FR872N or FR853N, 1 orbit per target). This amounts to 18 orbits.

All SBC visits are kept to 2 orbits to prevent heatup of the detector and the associated increase in dark current. All SBC visits are safe with respect to the bright object limit. We have indicated ETC run numbers for the brightest (in FUV flux) target in all filters used, hence this is conservative and deemed safe by the BOT tool.

All SBC visits should be scheduled so that the SBC HAS NOT BEEN IN USE FOR THE PAST 24 hours to minimize the dark current.

All SBC visits use 4 dither positions per filter to improve photometric accuracy and to mitigate the effect of the detector stripe.

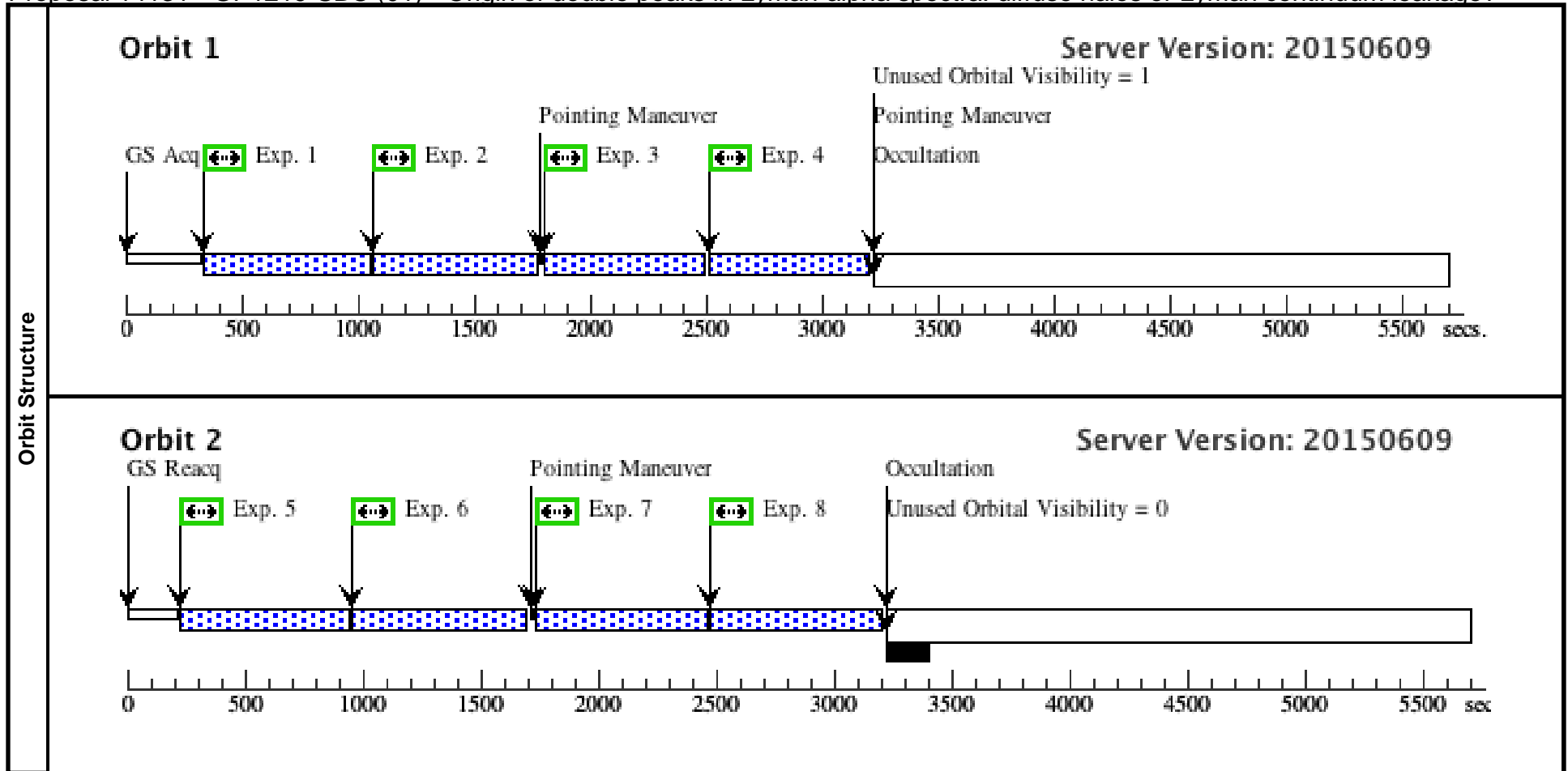
The WFC3/UVIS visits, 1 orbit per target, filters F390W and F475W, utilise a 3 point dither to step over droplets.

ACS/WFC is used for ramp filter imaging and F850LP, utilising SMALL pos-targs.

Proposal 14131 - GP1219-SBC (01) - Origin of double peaks in Lyman-alpha spectra: diffuse halos or Lyman continuum leakage?

Sun Jan 24 02:08:27 GMT 2016

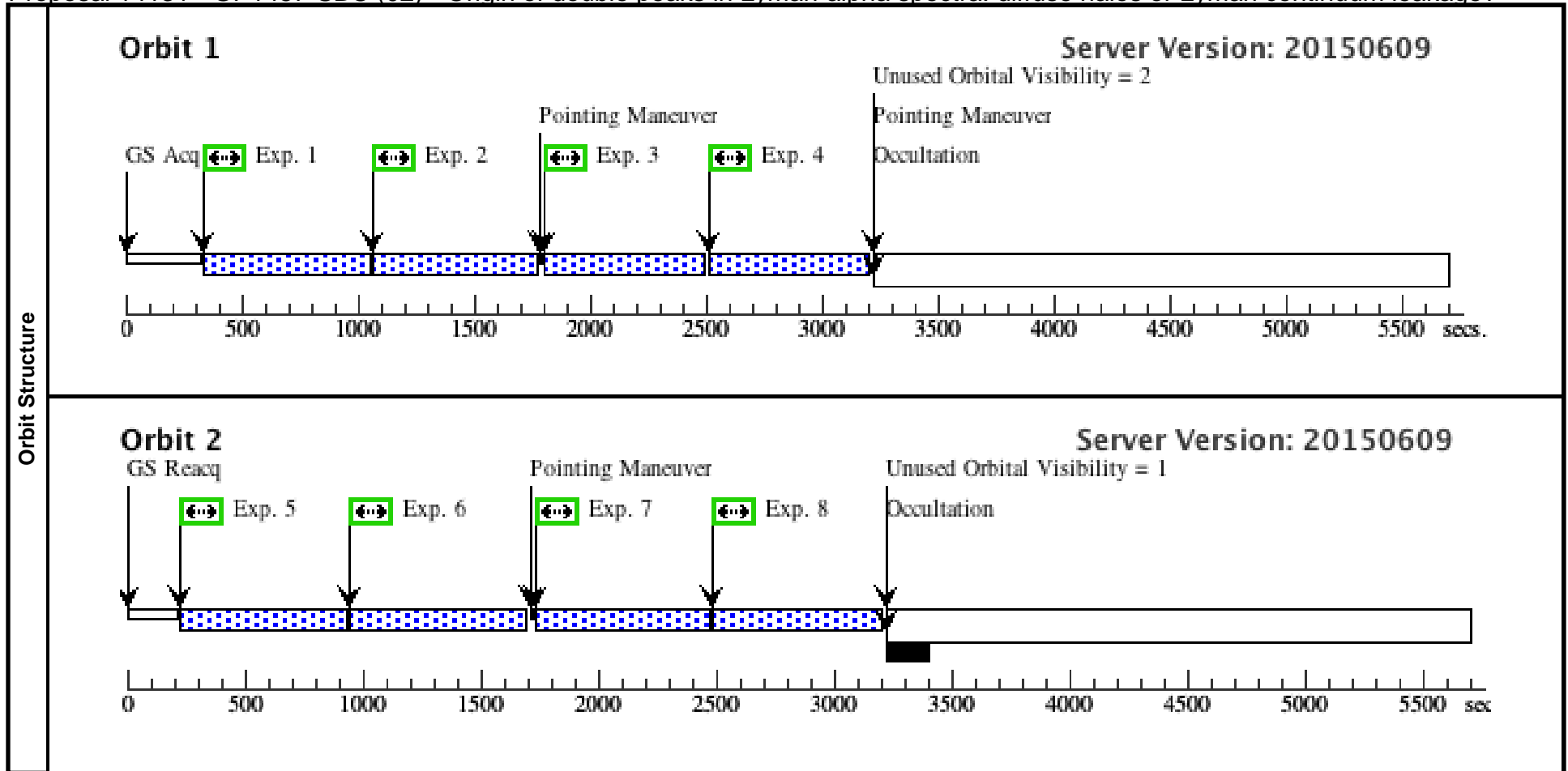
Visit	Proposal 14131, GP1219-SBC (01), scheduling Diagnostic Status: No Diagnostics Scientific Instruments: ACS/SBC Special Requirements: (none) <i>Comments: We request that the SBC not be used 24 hours before this visit in order to mitigate the effects of dark current.</i>																											
	Fixed Targets	<table border="1"> <thead> <tr> <th>#</th> <th>Name</th> <th>Target Coordinates</th> <th>Targ. Coord. Corrections</th> <th>Fluxes</th> <th>Miscellaneous</th> </tr> </thead> <tbody> <tr> <td>(1)</td> <td>SDSS-J121903.98+152608.5</td> <td>RA: 12 19 3.9840 (184.7666000d) Dec: +15 26 8.52 (15.43570d) Equinox: J2000</td> <td>Redshift: 0.1956</td> <td>V=19.6+/-0.1 FUV = 19.3 mag AB</td> <td>Reference Frame: ICRS</td> </tr> <tr> <td colspan="6"><i>Comments: This object was generated by the targetselector and retrieved from the NED database.</i></td> </tr> </tbody> </table>										#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous	(1)	SDSS-J121903.98+152608.5	RA: 12 19 3.9840 (184.7666000d) Dec: +15 26 8.52 (15.43570d) Equinox: J2000	Redshift: 0.1956	V=19.6+/-0.1 FUV = 19.3 mag AB	Reference Frame: ICRS	<i>Comments: This object was generated by the targetselector and retrieved from the NED database.</i>				
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous																							
(1)	SDSS-J121903.98+152608.5	RA: 12 19 3.9840 (184.7666000d) Dec: +15 26 8.52 (15.43570d) Equinox: J2000	Redshift: 0.1956	V=19.6+/-0.1 FUV = 19.3 mag AB	Reference Frame: ICRS																							
<i>Comments: This object was generated by the targetselector and retrieved from the NED database.</i>																												
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit																		
	1	(733404)	(1) SDSS-J121903.98+152608.5	ACS/SBC, ACCUM, SBC	F140LP				650 Secs (650 Secs) [==>]	[1]																		
	2	(733405)	(1) SDSS-J121903.98+152608.5	ACS/SBC, ACCUM, SBC	F150LP		SAME POS AS 1		665 Secs (665 Secs) [==>]	[1]																		
	3	(733405)	(1) SDSS-J121903.98+152608.5	ACS/SBC, ACCUM, SBC	F150LP		POS TARG -0.5205 166987938966,-0.95 00606943305857		665 Secs (665 Secs) [==>]	[1]																		
	4	(733404)	(1) SDSS-J121903.98+152608.5	ACS/SBC, ACCUM, SBC	F140LP		SAME POS AS 3		650 Secs (650 Secs) [==>]	[1]																		
	5	(733404)	(1) SDSS-J121903.98+152608.5	ACS/SBC, ACCUM, SBC	F140LP		POS TARG 0.58424 73570133007,0.9493 177058268445		690 Secs (690 Secs) [==>]	[2]																		
	6	(733405)	(1) SDSS-J121903.98+152608.5	ACS/SBC, ACCUM, SBC	F150LP		SAME POS AS 5		700 Secs (700 Secs) [==>]	[2]																		
	7	(733405)	(1) SDSS-J121903.98+152608.5	ACS/SBC, ACCUM, SBC	F150LP		POS TARG 0.81203 3905790553,-1.4106 813371006068		700 Secs (700 Secs) [==>]	[2]																		
	8	(733404)	(1) SDSS-J121903.98+152608.5	ACS/SBC, ACCUM, SBC	F140LP		SAME POS AS 7		690 Secs (690 Secs) [==>]	[2]																		



Proposal 14131 - GP1457-SBC (02) - Origin of double peaks in Lyman-alpha spectra: diffuse halos or Lyman continuum leakage?

Sun Jan 24 02:08:27 GMT 2016

Visit	Proposal 14131, GP1457-SBC (02), scheduling Diagnostic Status: No Diagnostics Scientific Instruments: ACS/SBC Special Requirements: (none) <i>Comments: We request that the SBC not be used 24 hours before this visit in order to mitigate the effects of dark current</i>																											
	Fixed Targets	<table border="1"> <thead> <tr> <th>#</th> <th>Name</th> <th>Target Coordinates</th> <th>Targ. Coord. Corrections</th> <th>Fluxes</th> <th>Miscellaneous</th> </tr> </thead> <tbody> <tr> <td>(2)</td> <td>SDSS-J145735.13+223201.8</td> <td>RA: 14 57 35.1390 (224.3964125d) Dec: +22 32 1.79 (22.53383d) Equinox: J2000</td> <td>Redshift: 0.1487</td> <td>V=19.3+/-0.1 FUV = 20.2 mag AB</td> <td>Reference Frame: ICRS</td> </tr> <tr> <td colspan="6"><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i></td> </tr> </tbody> </table>										#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous	(2)	SDSS-J145735.13+223201.8	RA: 14 57 35.1390 (224.3964125d) Dec: +22 32 1.79 (22.53383d) Equinox: J2000	Redshift: 0.1487	V=19.3+/-0.1 FUV = 20.2 mag AB	Reference Frame: ICRS	<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i>				
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous																							
(2)	SDSS-J145735.13+223201.8	RA: 14 57 35.1390 (224.3964125d) Dec: +22 32 1.79 (22.53383d) Equinox: J2000	Redshift: 0.1487	V=19.3+/-0.1 FUV = 20.2 mag AB	Reference Frame: ICRS																							
<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i>																												
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit																		
	1	(733404)	(2) SDSS-J145735.13+223201.8	ACS/SBC, ACCUM, SBC	F140LP				650 Secs (650 Secs) [==>]	[1]																		
	2	(733405)	(2) SDSS-J145735.13+223201.8	ACS/SBC, ACCUM, SBC	F150LP		SAME POS AS 1		665 Secs (665 Secs) [==>]	[1]																		
	3	(733405)	(2) SDSS-J145735.13+223201.8	ACS/SBC, ACCUM, SBC	F150LP		POS TARG -0.5205 166987938966,-0.95 00606943305857		665 Secs (665 Secs) [==>]	[1]																		
	4	(733404)	(2) SDSS-J145735.13+223201.8	ACS/SBC, ACCUM, SBC	F140LP		SAME POS AS 3		650 Secs (650 Secs) [==>]	[1]																		
	5	(733404)	(2) SDSS-J145735.13+223201.8	ACS/SBC, ACCUM, SBC	F140LP		POS TARG 0.58424 73570133007,0.9493 177058268445		680 Secs (680 Secs) [==>]	[2]																		
	6	(733405)	(2) SDSS-J145735.13+223201.8	ACS/SBC, ACCUM, SBC	F150LP		SAME POS AS 5		710 Secs (710 Secs) [==>]	[2]																		
	7	(733405)	(2) SDSS-J145735.13+223201.8	ACS/SBC, ACCUM, SBC	F150LP		POS TARG 0.81203 3905790553,-1.4106 813371006068		710 Secs (710 Secs) [==>]	[2]																		
	8	(733404)	(2) SDSS-J145735.13+223201.8	ACS/SBC, ACCUM, SBC	F140LP		SAME POS AS 7		680 Secs (680 Secs) [==>]	[2]																		

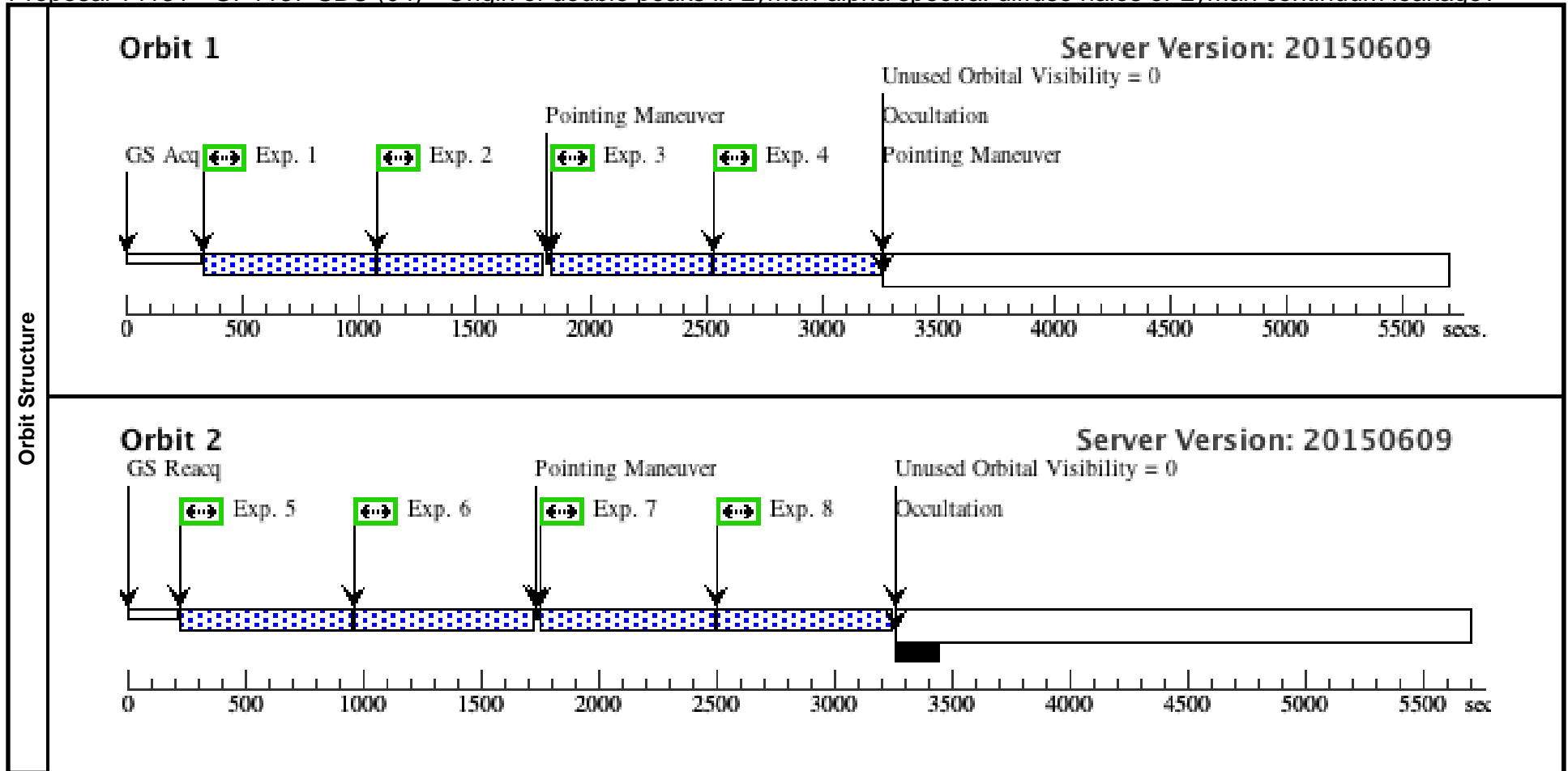


Proposal 14131 - GP1137-SBC (04) - Origin of double peaks in Lyman-alpha spectra: diffuse halos or Lyman continuum leakage?

Sun Jan 24 02:08:27 GMT 2016

Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(4)	SDSS-J113722.14+352426.6	RA: 11 37 22.1450 (174.3422708d) Dec: +35 24 26.69 (35.40741d) Equinox: J2000	Redshift: 0.1944	V=18.9+/-0.1 FUV = 19.3 mag AB	Reference Frame: ICRS
<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i>						

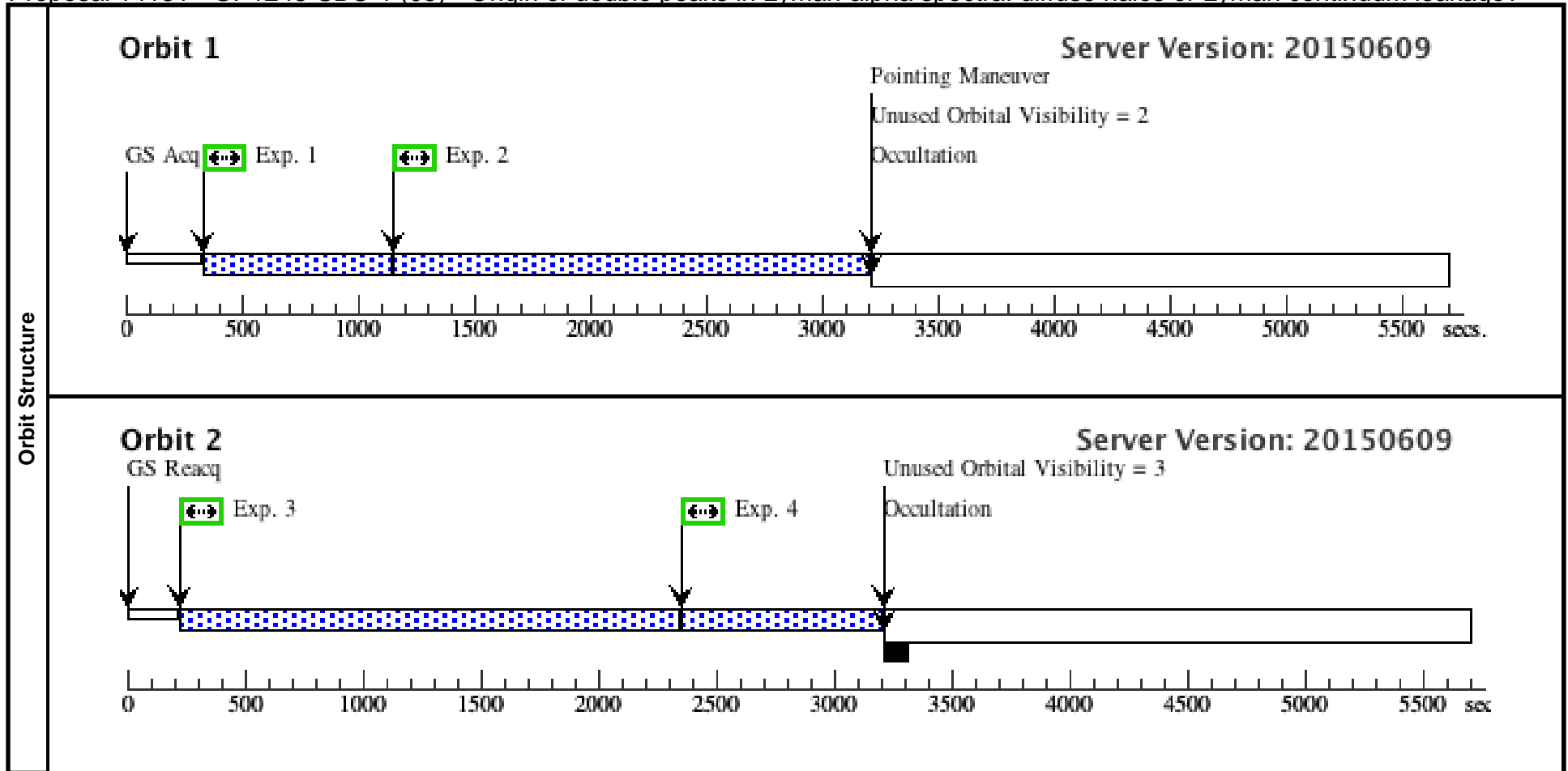
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(733404)	(4) SDSS-J113722.1 4+352426.6	ACS/SBC, ACCUM, SBC	F140LP					674 Secs (674 Secs) [==>]
2	(733405)	(4) SDSS-J113722.1 4+352426.6	ACS/SBC, ACCUM, SBC	F150LP			SAME POS AS 1		669 Secs (669 Secs) [==>]	[1]
3	(733405)	(4) SDSS-J113722.1 4+352426.6	ACS/SBC, ACCUM, SBC	F150LP			POS TARG -0.5205 166987938966,-0.95 00606943305857		660 Secs (660 Secs) [==>]	[1]
4	(733404)	(4) SDSS-J113722.1 4+352426.6	ACS/SBC, ACCUM, SBC	F140LP			SAME POS AS 3		674 Secs (674 Secs) [==>]	[1]
5	(733404)	(4) SDSS-J113722.1 4+352426.6	ACS/SBC, ACCUM, SBC	F140LP			POS TARG 0.58424 73570133007,0.9493 177058268445		700 Secs (700 Secs) [==>]	[2]
6	(733405)	(4) SDSS-J113722.1 4+352426.6	ACS/SBC, ACCUM, SBC	F150LP			SAME POS AS 5		713 Secs (713 Secs) [==>]	[2]
7	(733405)	(4) SDSS-J113722.1 4+352426.6	ACS/SBC, ACCUM, SBC	F150LP			POS TARG 0.81203 3905790553,-1.4106 813371006068		713 Secs (713 Secs) [==>]	[2]
8	(733404)	(4) SDSS-J113722.1 4+352426.6	ACS/SBC, ACCUM, SBC	F140LP			SAME POS AS 7		700 Secs (700 Secs) [==>]	[2]



Proposal 14131 - GP1248-SBC-1 (05) - Origin of double peaks in Lyman-alpha spectra: diffuse halos or Lyman continuum leakage?

Sun Jan 24 02:08:27 GMT 2016

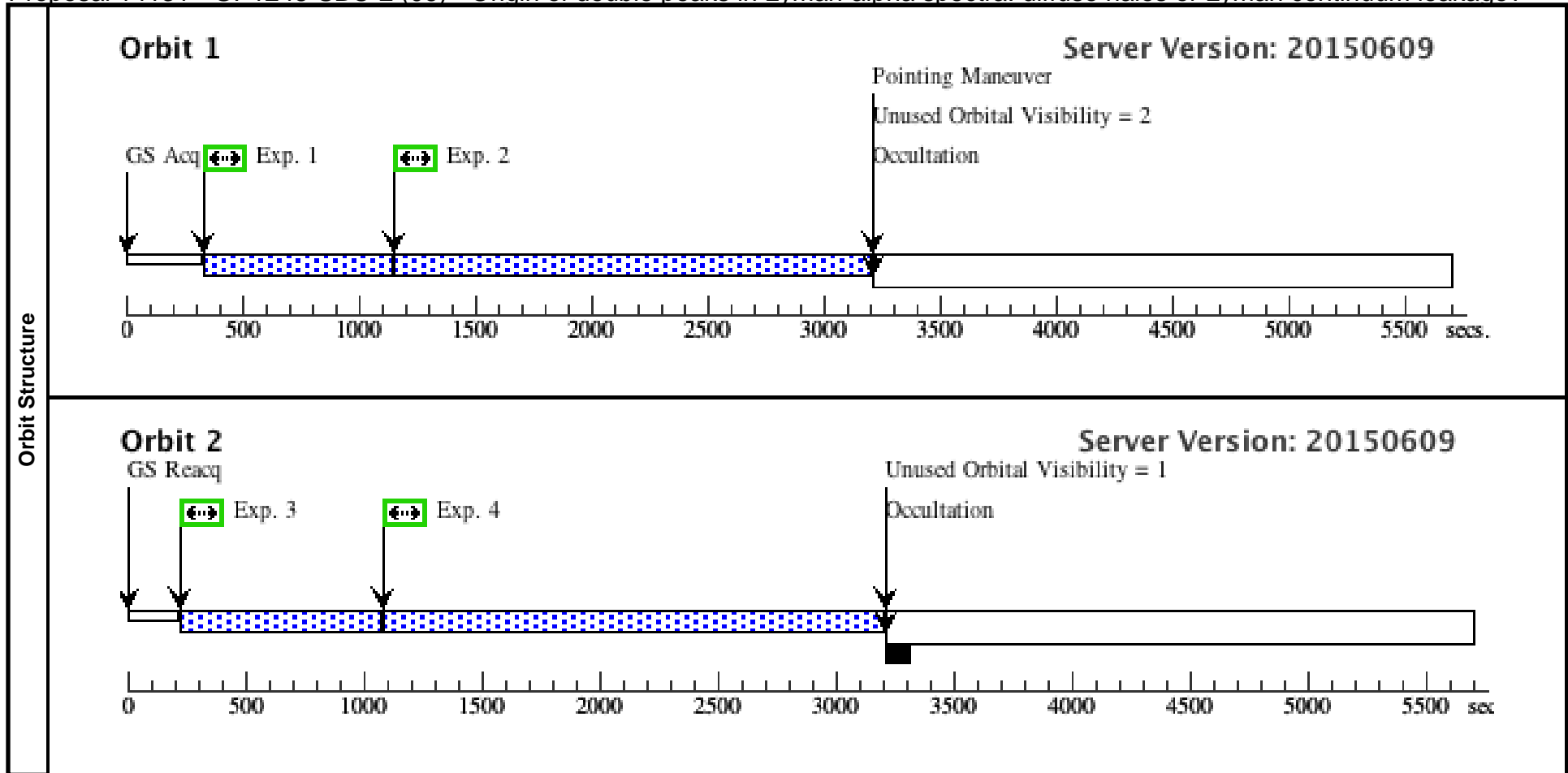
Visit	Proposal 14131, GP1248-SBC-1 (05), scheduling Diagnostic Status: No Diagnostics Scientific Instruments: ACS/SBC Special Requirements: (none) <i>Comments: We request that the SBC not be used 24 hours before this visit in order to mitigate the effects of dark current.</i> <i>SBC observations of GP1248 split in two visits to prevent heatup (and associated increase in dark current) of detector.</i>									
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous			
(3)		SDSS-J124834.63+123402.9	RA: 12 48 34.6360 (192.1443167d) Dec: +12 34 2.93 (12.56748d) Equinox: J2000	Redshift: 0.2634	V=20.0+/-0.1 FUV = 19.6 mag AB	Reference Frame: ICRS				
<i>Comments: This object was generated by the targetselector and retrieved from the NED database.</i>										
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(732688)	(3) SDSS-J124834.63+123402.9	ACS/SBC, ACCUM, SBC	F150LP				740 Secs (740 Secs)	
									[==>]	[1]
	2	(732687)	(3) SDSS-J124834.63+123402.9	ACS/SBC, ACCUM, SBC	F165LP		SAME POS AS 1		2000 Secs (2000 Secs)	
									[==>]	[1]
3	(732687)	(3) SDSS-J124834.63+123402.9	ACS/SBC, ACCUM, SBC	F165LP			POS TARG -0.5205 166987938966,-0.95 00606943305857	2090 Secs (2090 Secs)		
								[==>]	[2]	
4	(732688)	(3) SDSS-J124834.63+123402.9	ACS/SBC, ACCUM, SBC	F150LP			SAME POS AS 3	800 Secs (800 Secs)		
								[==>]	[2]	



Proposal 14131 - GP1248-SBC-2 (06) - Origin of double peaks in Lyman-alpha spectra: diffuse halos or Lyman continuum leakage?

Sun Jan 24 02:08:27 GMT 2016

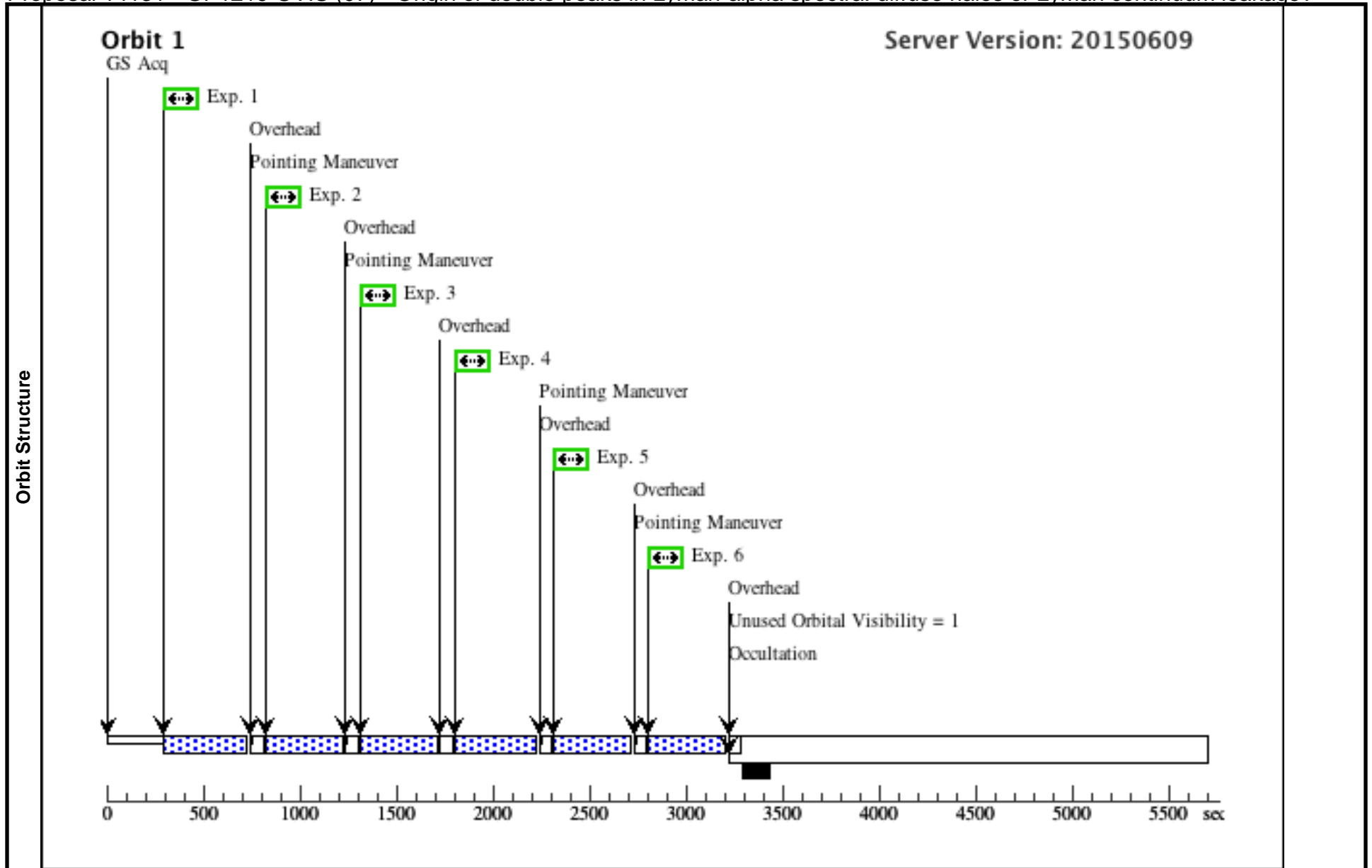
Visit	Proposal 14131, GP1248-SBC-2 (06), scheduling Diagnostic Status: No Diagnostics Scientific Instruments: ACS/SBC Special Requirements: (none) <i>Comments: We request that the SBC not be used 24 hours before this visit in order to mitigate the effects of dark current.</i> <i>SBC observations of GP1248 split in two visits to prevent heatup (and associated increase in dark current) of detector.</i>									
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous			
(3)		SDSS-J124834.63+123402.9	RA: 12 48 34.6360 (192.1443167d) Dec: +12 34 2.93 (12.56748d) Equinox: J2000	Redshift: 0.2634	V=20.0+/-0.1 FUV = 19.6 mag AB	Reference Frame: ICRS				
<i>Comments: This object was generated by the targetselector and retrieved from the NED database.</i>										
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(732688)	(3) SDSS-J124834.63+123402.9	ACS/SBC, ACCUM, SBC	F150LP		POS TARG 0.58424 73570133007,0.9493 177058268445		740 Secs (740 Secs) [==>]	[1]
	2	(732687)	(3) SDSS-J124834.63+123402.9	ACS/SBC, ACCUM, SBC	F165LP		SAME POS AS 1		2000 Secs (2000 Secs) [==>]	[1]
	3	(732688)	(3) SDSS-J124834.63+123402.9	ACS/SBC, ACCUM, SBC	F150LP		SAME POS AS 4		800 Secs (800 Secs) [==>]	[2]
	4	(732687)	(3) SDSS-J124834.63+123402.9	ACS/SBC, ACCUM, SBC	F165LP		POS TARG 0.81203 3905790553,-1.4106 813371006068		2070 Secs (2070 Secs) [==>]	[2]



Proposal 14131 - GP1219-UVIS (07) - Origin of double peaks in Lyman-alpha spectra: diffuse halos or Lyman continuum leakage?

Sun Jan 24 02:08:27 GMT 2016

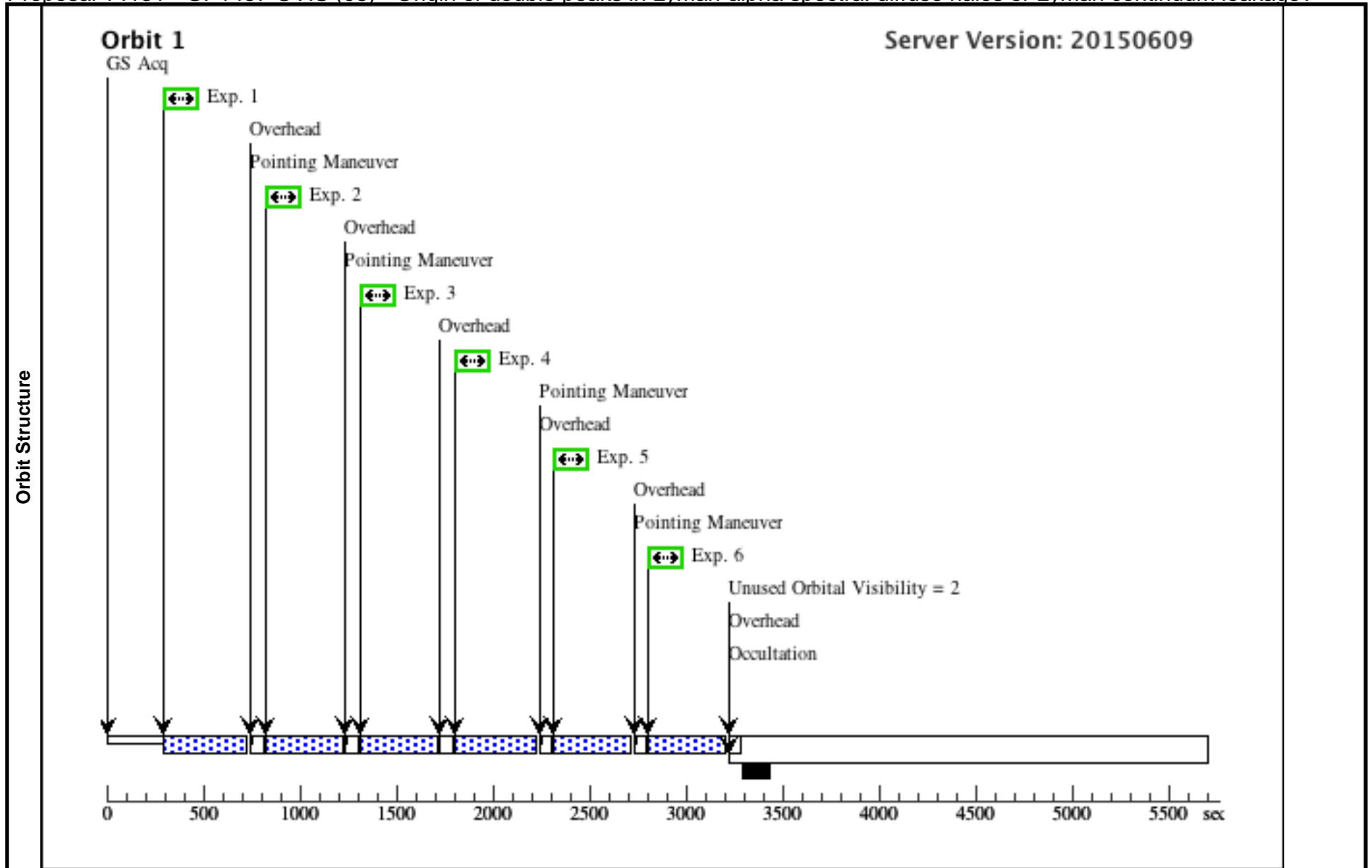
Visit	Proposal 14131, GP1219-UVIS (07), scheduling Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/UVIS Special Requirements: (none)									
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous			
	(1)	SDSS- J121903.98+152608.5	RA: 12 19 3.9840 (184.7666000d) Dec: +15 26 8.52 (15.43570d) Equinox: J2000	Redshift: 0.1956	V=19.6+/-0.1 FUV = 19.3 mag AB	Reference Frame: ICRS				
	<i>Comments: This object was generated by the targetselector and retrieved from the NED database.</i>									
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(WFC3UVI S.im.750173)	(1) SDSS-J121903.9 8+152608.5	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F438W	FLASH=8			400 Secs (400 Secs) [==>]	[1]
	2	(WFC3UVI S.im.750173)	(1) SDSS-J121903.9 8+152608.5	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F438W	FLASH=8	POS TARG 2.9568,2 .9568		400 Secs (400 Secs) [==>]	[1]
	3	(WFC3UVI S.im.750173)	(1) SDSS-J121903.9 8+152608.5	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F438W	FLASH=8	POS TARG 5.9136,5 .9136		400 Secs (400 Secs) [==>]	[1]
	4	(WFC3UVI S.im.750178)	(1) SDSS-J121903.9 8+152608.5	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F475W	FLASH=4	SAME POS AS 3		400 Secs (400 Secs) [==>]	[1]
	5	(WFC3UVI S.im.750178)	(1) SDSS-J121903.9 8+152608.5	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F475W	FLASH=4	SAME POS AS 2		400 Secs (400 Secs) [==>]	[1]
	6	(WFC3UVI S.im.750181)	(1) SDSS-J121903.9 8+152608.5	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F475W	FLASH=4	SAME POS AS 1		400 Secs (400 Secs) [==>]	[1]



Proposal 14131 - GP1457-UVIS (08) - Origin of double peaks in Lyman-alpha spectra: diffuse halos or Lyman continuum leakage?

Sun Jan 24 02:08:27 GMT 2016

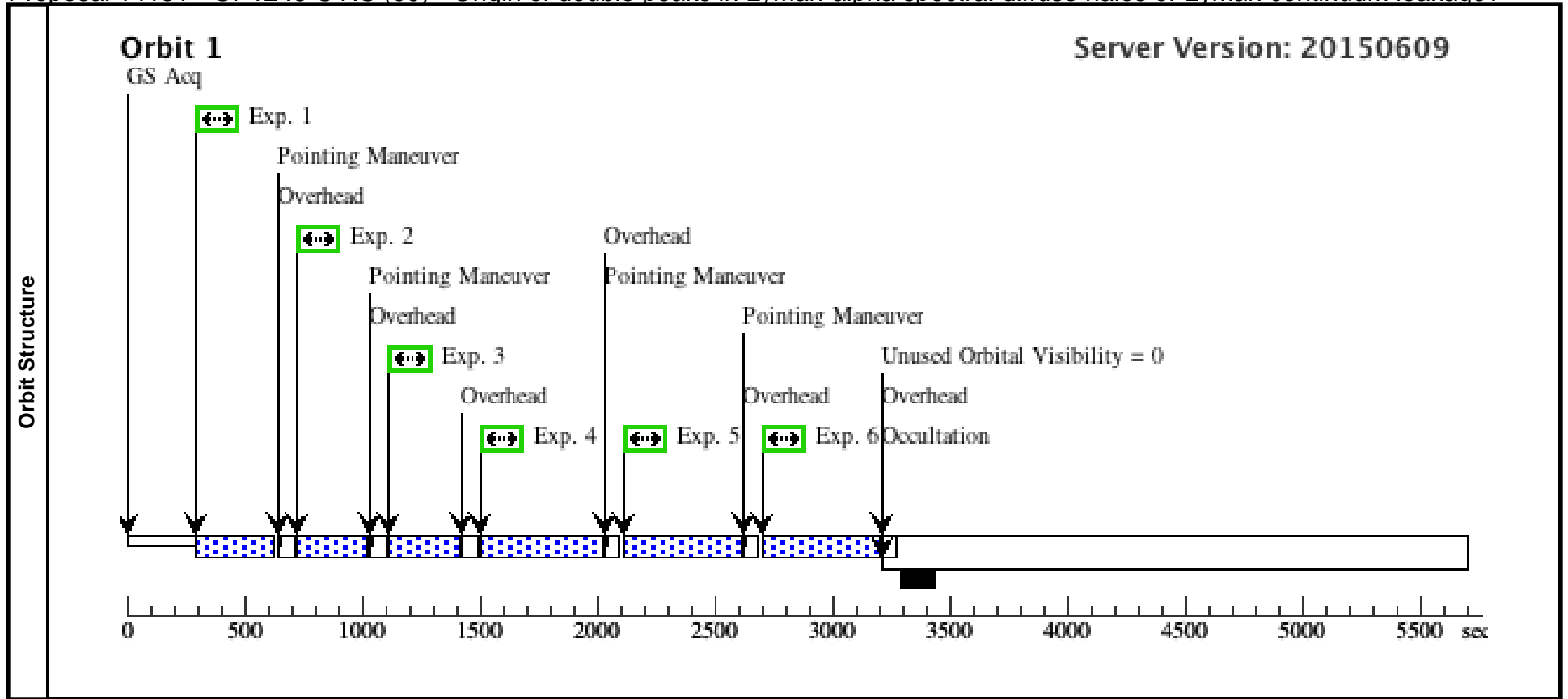
Visit	Proposal 14131, GP1457-UVIS (08), scheduling Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/UVIS Special Requirements: (none)									
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous			
	(2)	SDSS-J145735.13+223201.8	RA: 14 57 35.1390 (224.3964125d) Dec: +22 32 1.79 (22.53383d) Equinox: J2000	Redshift: 0.1487	V=19.3+/-0.1 FUV = 20.2 mag AB	Reference Frame: ICRS				
	<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i>									
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(WFC3UVI S.im.750187)	(2) SDSS-J145735.1 3+223201.8	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F390W	FLASH=9			400 Secs (400 Secs) [==>]	[1]
	2	(WFC3UVI S.im.750187)	(2) SDSS-J145735.1 3+223201.8	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F390W	FLASH=9	POS TARG 2.9568,2 .9568		400 Secs (400 Secs) [==>]	[1]
	3	(WFC3UVI S.im.750187)	(2) SDSS-J145735.1 3+223201.8	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F390W	FLASH=9	POS TARG 5.9136,5 .9136		400 Secs (400 Secs) [==>]	[1]
	4	(WFC3UVI S.im.750236)	(2) SDSS-J145735.1 3+223201.8	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F475W	FLASH=5	SAME POS AS 3		400 Secs (400 Secs) [==>]	[1]
	5	(WFC3UVI S.im.750236)	(2) SDSS-J145735.1 3+223201.8	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F475W	FLASH=5	SAME POS AS 2		400 Secs (400 Secs) [==>]	[1]
	6	(WFC3UVI S.im.750238)	(2) SDSS-J145735.1 3+223201.8	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F475W	FLASH=6	SAME POS AS 1		400 Secs (400 Secs) [==>]	[1]



Proposal 14131 - GP1248-UVIS (09) - Origin of double peaks in Lyman-alpha spectra: diffuse halos or Lyman continuum leakage?

Sun Jan 24 02:08:27 GMT 2016

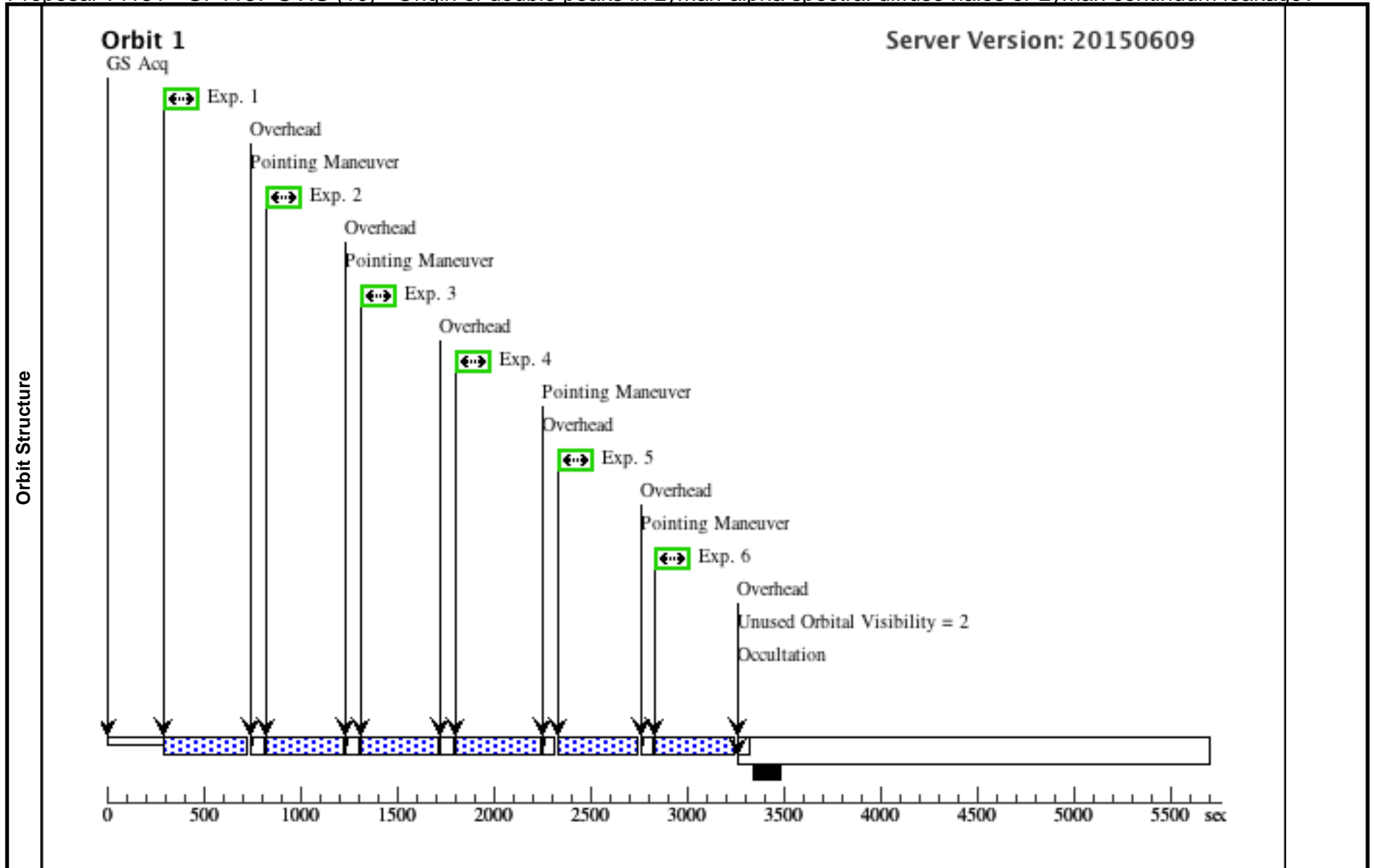
Visit	Proposal 14131, GP1248-UVIS (09), scheduling Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/UVIS Special Requirements: (none)									
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous			
	(3)	SDSS-J124834.63+123402.9	RA: 12 48 34.6360 (192.1443167d) Dec: +12 34 2.93 (12.56748d) Equinox: J2000	Redshift: 0.2634	V=20.0+/-0.1 FUV = 19.6 mag AB	Reference Frame: ICRS				
	<i>Comments: This object was generated by the targetselector and retrieved from the NED database.</i>									
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(WFC3UVI S.im.750243)	(3) SDSS-J124834.6 3+123402.9	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F438W	FLASH=9			300 Secs (300 Secs) [==>]	[1]
	2	(WFC3UVI S.im.750243)	(3) SDSS-J124834.6 3+123402.9	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F438W	FLASH=9	POS TARG 2.9568,2 .9568		300 Secs (300 Secs) [==>]	[1]
	3	(WFC3UVI S.im.750243)	(3) SDSS-J124834.6 3+123402.9	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F438W	FLASH=9	POS TARG 5.9136,5 .9136		300 Secs (300 Secs) [==>]	[1]
	4	(WFC3UVI S.im.750247)	(3) SDSS-J124834.6 3+123402.9	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F547M	FLASH=6	SAME POS AS 3		500 Secs (500 Secs) [==>]	[1]
	5	(WFC3UVI S.im.750247)	(3) SDSS-J124834.6 3+123402.9	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F547M	FLASH=6	SAME POS AS 2		500 Secs (500 Secs) [==>]	[1]
	6	(WFC3UVI S.im.750249)	(3) SDSS-J124834.6 3+123402.9	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F547M	FLASH=6	SAME POS AS 1		499 Secs (499 Secs) [==>]	[1]



Proposal 14131 - GP1137-UVIS (10) - Origin of double peaks in Lyman-alpha spectra: diffuse halos or Lyman continuum leakage?

Sun Jan 24 02:08:27 GMT 2016

Visit	Proposal 14131, GP1137-UVIS (10), scheduling Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/UVIS Special Requirements: (none)									
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous			
	(4)	SDSS-J113722.14+352426.6	RA: 11 37 22.1450 (174.3422708d) Dec: +35 24 26.69 (35.40741d) Equinox: J2000	Redshift: 0.1944	V=18.9+/-0.1 FUV = 19.3 mag AB	Reference Frame: ICRS				
	<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i>									
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(WFC3UVI S.im.750255)	(4) SDSS-J113722.1 4+352426.6	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F390W	FLASH=9			400 Secs (400 Secs) [==>]	[1]
	2	(WFC3UVI S.im.750255)	(4) SDSS-J113722.1 4+352426.6	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F390W	FLASH=9	POS TARG 2.9568,2 .9568		400 Secs (400 Secs) [==>]	[1]
	3	(WFC3UVI S.im.750255)	(4) SDSS-J113722.1 4+352426.6	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F390W	FLASH=9	POS TARG 5.9136,5 .9136		400 Secs (400 Secs) [==>]	[1]
	4	(WFC3UVI S.im.750259)	(4) SDSS-J113722.1 4+352426.6	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F475W	FLASH=4	SAME POS AS 3		415 Secs (415 Secs) [==>]	[1]
	5	(WFC3UVI S.im.750259)	(4) SDSS-J113722.1 4+352426.6	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F475W	FLASH=4	SAME POS AS 2		415 Secs (415 Secs) [==>]	[1]
	6	(WFC3UVI S.im.750260)	(4) SDSS-J113722.1 4+352426.6	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F475W	FLASH=4	SAME POS AS 1		415 Secs (415 Secs) [==>]	[1]



Proposal 14131 - GP1219-ACS-WFC (11) - Origin of double peaks in Lyman-alpha spectra: diffuse halos or Lyman continuum leakage?

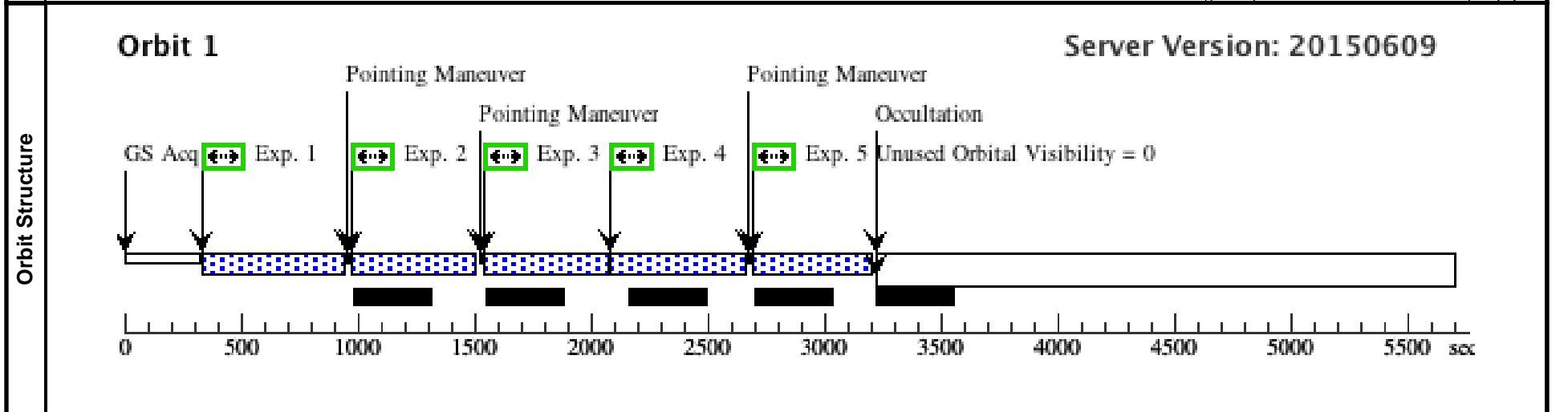
Sun Jan 24 02:08:28 GMT 2016

Visit	Proposal 14131, GP1219-ACS-WFC (11), scheduling Diagnostic Status: Warning Scientific Instruments: ACS/WFC Special Requirements: (none)
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Diagnostics	(Exposure 2 (GP1219-ACS-WFC (11))) Warning (Form): POS TARG & PATTERN should be used carefully with ACS ramp or WFC3 quad filters as central wavelengths & transmission efficiencies vary within the apertures.
	(Exposure 3 (GP1219-ACS-WFC (11))) Warning (Form): POS TARG & PATTERN should be used carefully with ACS ramp or WFC3 quad filters as central wavelengths & transmission efficiencies vary within the apertures.

Fixed Targets	<table border="1"> <thead> <tr> <th>#</th> <th>Name</th> <th>Target Coordinates</th> <th>Targ. Coord. Corrections</th> <th>Fluxes</th> <th>Miscellaneous</th> </tr> </thead> <tbody> <tr> <td>(1)</td> <td>SDSS-J121903.98+152608.5</td> <td>RA: 12 19 3.9840 (184.7666000d) Dec: +15 26 8.52 (15.43570d) Equinox: J2000</td> <td>Redshift: 0.1956</td> <td>V=19.6+/-0.1 FUV = 19.3 mag AB</td> <td>Reference Frame: ICRS</td> </tr> </tbody> </table>	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous	(1)	SDSS-J121903.98+152608.5	RA: 12 19 3.9840 (184.7666000d) Dec: +15 26 8.52 (15.43570d) Equinox: J2000	Redshift: 0.1956	V=19.6+/-0.1 FUV = 19.3 mag AB	Reference Frame: ICRS
	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous							
(1)	SDSS-J121903.98+152608.5	RA: 12 19 3.9840 (184.7666000d) Dec: +15 26 8.52 (15.43570d) Equinox: J2000	Redshift: 0.1956	V=19.6+/-0.1 FUV = 19.3 mag AB	Reference Frame: ICRS								
<i>Comments: This object was generated by the targetselector and retrieved from the NED database.</i>													

Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(ACS.rf.750 268)	(1) SDSS-J121903.9 8+152608.5	ACS/WFC, ACCUM, WFC2-ORAMP	FR782N 7849 A	FLASH=15				400 Secs (400 Secs) [==>]
2	(ACS.rf.750 268)	(1) SDSS-J121903.9 8+152608.5	ACS/WFC, ACCUM, WFC2-ORAMP	FR782N 7849 A	FLASH=15	POS TARG 0.115,0.125			400 Secs (400 Secs) [==>]	[1]
3	(ACS.rf.750 268)	(1) SDSS-J121903.9 8+152608.5	ACS/WFC, ACCUM, WFC2-ORAMP	FR782N 7849 A	FLASH=15	POS TARG 0.231,0.259			400 Secs (400 Secs) [==>]	[1]
4	(ACS.im.75 0311)	(1) SDSS-J121903.9 8+152608.5	ACS/WFC, ACCUM, WFC2-ORAMP	F850LP	FLASH=1	SAME POS AS 3			380 Secs (380 Secs) [==>]	[1]
5	(ACS.im.75 0311)	(1) SDSS-J121903.9 8+152608.5	ACS/WFC, ACCUM, WFC2-ORAMP	F850LP	FLASH=1	SAME POS AS 1			380 Secs (380 Secs) [==>]	[1]



Proposal 14131 - GP1457-ACS-WFC (12) - Origin of double peaks in Lyman-alpha spectra: diffuse halos or Lyman continuum leakage?

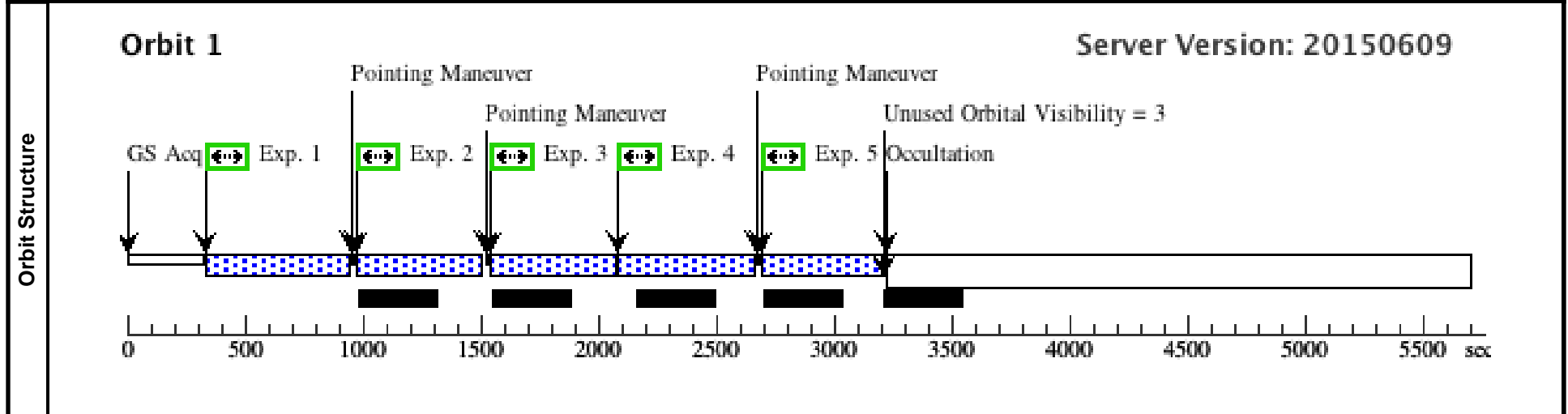
Sun Jan 24 02:08:28 GMT 2016

Visit	Proposal 14131, GP1457-ACS-WFC (12), scheduling Diagnostic Status: Warning Scientific Instruments: ACS/WFC Special Requirements: (none)
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Diagnostics	(Exposure 2 (GP1457-ACS-WFC (12))) Warning (Form): POS TARG & PATTERN should be used carefully with ACS ramp or WFC3 quad filters as central wavelengths & transmission efficiencies vary within the apertures.
	(Exposure 3 (GP1457-ACS-WFC (12))) Warning (Form): POS TARG & PATTERN should be used carefully with ACS ramp or WFC3 quad filters as central wavelengths & transmission efficiencies vary within the apertures.

Fixed Targets	<table border="1"> <thead> <tr> <th>#</th> <th>Name</th> <th>Target Coordinates</th> <th>Targ. Coord. Corrections</th> <th>Fluxes</th> <th>Miscellaneous</th> </tr> </thead> <tbody> <tr> <td>(2)</td> <td>SDSS-J145735.13+223201.8</td> <td>RA: 14 57 35.1390 (224.3964125d) Dec: +22 32 1.79 (22.53383d) Equinox: J2000</td> <td>Redshift: 0.1487</td> <td>V=19.3+/-0.1 FUV = 20.2 mag AB</td> <td>Reference Frame: ICRS</td> </tr> </tbody> </table>	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous	(2)	SDSS-J145735.13+223201.8	RA: 14 57 35.1390 (224.3964125d) Dec: +22 32 1.79 (22.53383d) Equinox: J2000	Redshift: 0.1487	V=19.3+/-0.1 FUV = 20.2 mag AB	Reference Frame: ICRS
	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous							
(2)	SDSS-J145735.13+223201.8	RA: 14 57 35.1390 (224.3964125d) Dec: +22 32 1.79 (22.53383d) Equinox: J2000	Redshift: 0.1487	V=19.3+/-0.1 FUV = 20.2 mag AB	Reference Frame: ICRS								
Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.													

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	(ACS.rf.750 270)	(2) SDSS-J145735.1 3+223201.8	ACS/WFC, ACCUM, WFC2-ORAMP	FR782N 7541 A	FLASH=16			400 Secs (400 Secs) [==>]	[1]
2	(ACS.rf.750 270)	(2) SDSS-J145735.1 3+223201.8	ACS/WFC, ACCUM, WFC2-ORAMP	FR782N 7541 A	FLASH=16	POS TARG 0.115,0.125		400 Secs (400 Secs) [==>]	[1]
3	(ACS.rf.750 270)	(2) SDSS-J145735.1 3+223201.8	ACS/WFC, ACCUM, WFC2-ORAMP	FR782N 7541 A	FLASH=16	POS TARG 0.231,0.259		400 Secs (400 Secs) [==>]	[1]
4	(ACS.im.75 0296)	(2) SDSS-J145735.1 3+223201.8	ACS/WFC, ACCUM, WFC2-ORAMP	F850LP	FLASH=6	SAME POS AS 3		379 Secs (379 Secs) [==>]	[1]
5	(ACS.im.75 0296)	(2) SDSS-J145735.1 3+223201.8	ACS/WFC, ACCUM, WFC2-ORAMP	F850LP	FLASH=6	SAME POS AS 1		379 Secs (379 Secs) [==>]	[1]



Proposal 14131 - GP1137-ACS-WFC (13) - Origin of double peaks in Lyman-alpha spectra: diffuse halos or Lyman continuum leakage?

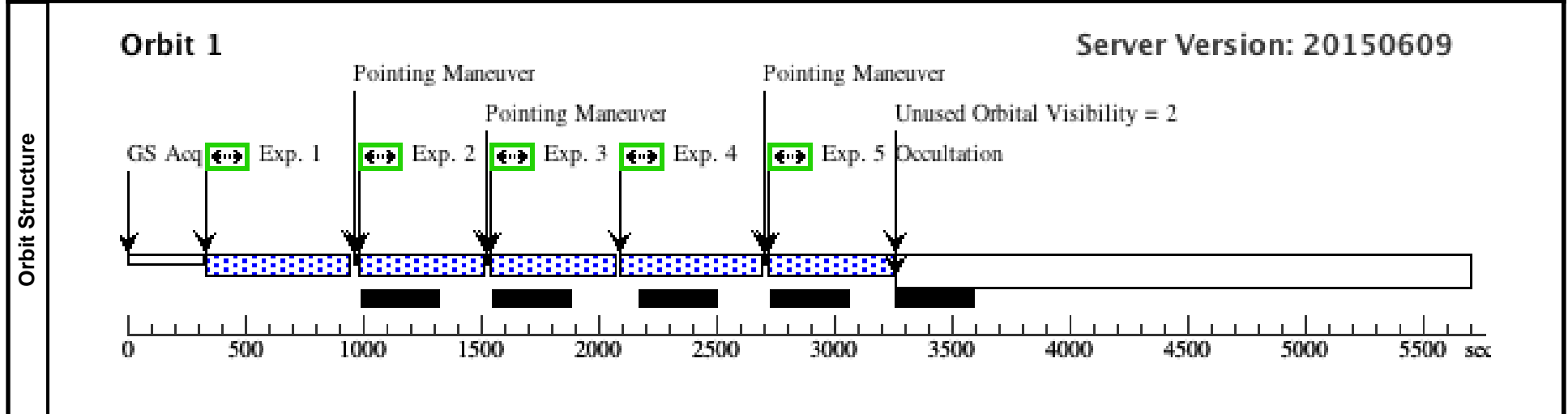
Sun Jan 24 02:08:28 GMT 2016

Visit	Proposal 14131, GP1137-ACS-WFC (13), scheduling Diagnostic Status: Warning Scientific Instruments: ACS/WFC Special Requirements: (none)
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Diagnostics	(Exposure 2 (GP1137-ACS-WFC (13))) Warning (Form): POS TARG & PATTERN should be used carefully with ACS ramp or WFC3 quad filters as central wavelengths & transmission efficiencies vary within the apertures.
	(Exposure 3 (GP1137-ACS-WFC (13))) Warning (Form): POS TARG & PATTERN should be used carefully with ACS ramp or WFC3 quad filters as central wavelengths & transmission efficiencies vary within the apertures.

Fixed Targets	<table border="1"> <thead> <tr> <th>#</th> <th>Name</th> <th>Target Coordinates</th> <th>Targ. Coord. Corrections</th> <th>Fluxes</th> <th>Miscellaneous</th> </tr> </thead> <tbody> <tr> <td>(4)</td> <td>SDSS-J113722.14+352426.6</td> <td>RA: 11 37 22.1450 (174.3422708d) Dec: +35 24 26.69 (35.40741d) Equinox: J2000</td> <td>Redshift: 0.1944</td> <td>V=18.9+/-0.1 FUV = 19.3 mag AB</td> <td>Reference Frame: ICRS</td> </tr> </tbody> </table>	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous	(4)	SDSS-J113722.14+352426.6	RA: 11 37 22.1450 (174.3422708d) Dec: +35 24 26.69 (35.40741d) Equinox: J2000	Redshift: 0.1944	V=18.9+/-0.1 FUV = 19.3 mag AB	Reference Frame: ICRS
	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous							
(4)	SDSS-J113722.14+352426.6	RA: 11 37 22.1450 (174.3422708d) Dec: +35 24 26.69 (35.40741d) Equinox: J2000	Redshift: 0.1944	V=18.9+/-0.1 FUV = 19.3 mag AB	Reference Frame: ICRS								
Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.													

Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(ACS.rf.750 273)	(4) SDSS-J113722.1 4+352426.6	ACS/WFC, ACCUM, WFC2-ORAMP	FR782N 7841 A	FLASH=16				402 Secs (402 Secs) [==>]
2	(ACS.rf.750 273)	(4) SDSS-J113722.1 4+352426.6	ACS/WFC, ACCUM, WFC2-ORAMP	FR782N 7841 A	FLASH=16	POS TARG 0.115,0.125			402 Secs (402 Secs) [==>]	[1]
3	(ACS.rf.750 273)	(4) SDSS-J113722.1 4+352426.6	ACS/WFC, ACCUM, WFC2-ORAMP	FR782N 7841 A	FLASH=16	POS TARG 0.231,0.259			402 Secs (402 Secs) [==>]	[1]
4	(ACS.im.75 0318)	(4) SDSS-J113722.1 4+352426.6	ACS/WFC, ACCUM, WFC2-ORAMP	F850LP	FLASH=4	SAME POS AS 3			399 Secs (399 Secs) [==>]	[1]
5	(ACS.im.75 0318)	(4) SDSS-J113722.1 4+352426.6	ACS/WFC, ACCUM, WFC2-ORAMP	F850LP	FLASH=4	SAME POS AS 1			399 Secs (399 Secs) [==>]	[1]



Proposal 14131 - GP1248-ACS-WFC (14) - Origin of double peaks in Lyman-alpha spectra: diffuse halos or Lyman continuum leakage?

Sun Jan 24 02:08:28 GMT 2016

Visit	Proposal 14131, GP1248-ACS-WFC (14), scheduling Diagnostic Status: Warning Scientific Instruments: ACS/WFC Special Requirements: (none)
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Diagnostics	(Exposure 2 (GP1248-ACS-WFC (14))) Warning (Form): POS TARG & PATTERN should be used carefully with ACS ramp or WFC3 quad filters as central wavelengths & transmission efficiencies vary within the apertures.
	(Exposure 3 (GP1248-ACS-WFC (14))) Warning (Form): POS TARG & PATTERN should be used carefully with ACS ramp or WFC3 quad filters as central wavelengths & transmission efficiencies vary within the apertures.

Fixed Targets	<table border="1"> <thead> <tr> <th>#</th> <th>Name</th> <th>Target Coordinates</th> <th>Targ. Coord. Corrections</th> <th>Fluxes</th> <th>Miscellaneous</th> </tr> </thead> <tbody> <tr> <td>(3)</td> <td>SDSS-J124834.63+123402.9</td> <td>RA: 12 48 34.6360 (192.1443167d) Dec: +12 34 2.93 (12.56748d) Equinox: J2000</td> <td>Redshift: 0.2634</td> <td>V=20.0+/-0.1 FUV = 19.6 mag AB</td> <td>Reference Frame: ICRS</td> </tr> </tbody> </table>	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous	(3)	SDSS-J124834.63+123402.9	RA: 12 48 34.6360 (192.1443167d) Dec: +12 34 2.93 (12.56748d) Equinox: J2000	Redshift: 0.2634	V=20.0+/-0.1 FUV = 19.6 mag AB	Reference Frame: ICRS
	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous							
(3)	SDSS-J124834.63+123402.9	RA: 12 48 34.6360 (192.1443167d) Dec: +12 34 2.93 (12.56748d) Equinox: J2000	Redshift: 0.2634	V=20.0+/-0.1 FUV = 19.6 mag AB	Reference Frame: ICRS								
Comments: This object was generated by the targetselector and retrieved from the NED database.													

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	(ACS.rf.750 276)	(3) SDSS-J124834.6 3+123402.9	ACS/WFC, ACCUM, WFC1-IRAMP	FR853N 8294 A	FLASH=16			400 Secs (400 Secs) [==>]	[1]
2	(ACS.rf.750 276)	(3) SDSS-J124834.6 3+123402.9	ACS/WFC, ACCUM, WFC1-IRAMP	FR853N 8294 A	FLASH=16	POS TARG 0.115,0.125		400 Secs (400 Secs) [==>]	[1]
3	(ACS.rf.750 276)	(3) SDSS-J124834.6 3+123402.9	ACS/WFC, ACCUM, WFC1-IRAMP	FR853N 8294 A	FLASH=16	POS TARG 0.231,0.259		400 Secs (400 Secs) [==>]	[1]
4	(ACS.im.75 0322)	(3) SDSS-J124834.6 3+123402.9	ACS/WFC, ACCUM, WFC1-IRAMP	F850LP	FLASH=2	SAME POS AS 3		382 Secs (382 Secs) [==>]	[1]
5	(ACS.im.75 0322)	(3) SDSS-J124834.6 3+123402.9	ACS/WFC, ACCUM, WFC1-IRAMP	F850LP	FLASH=2	SAME POS AS 1		382 Secs (382 Secs) [==>]	[1]

