



## 14079 - Unveiling the Dark Baryons II: the First Sample of OVI Emission Imaging

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>
11	(1) SDSS-J110755.87+452809.8	ACS/SBC	2	04-May-2017 21:00:41.0	yes
12	(1) SDSS-J110755.87+452809.8	ACS/SBC	2	04-May-2017 21:00:44.0	yes
13	(1) SDSS-J110755.87+452809.8	ACS/SBC	2	04-May-2017 21:00:46.0	yes
16	(1) SDSS-J110755.87+452809.8	WFC3/UVIS	1	04-May-2017 21:00:48.0	yes
19	(7) J1107+4528-COSPOINT	COS/FUV COS/NUV	1	04-May-2017 21:00:49.0	yes
21	(2) SDSS-J124814.83+155829.3	ACS/SBC	2	04-May-2017 21:00:51.0	yes
22	(2) SDSS-J124814.83+155829.3	ACS/SBC	2	04-May-2017 21:00:52.0	yes

Proposal 14079 (STScI Edit Number: 5, Created: Thursday, May 4, 2017 8:01:15 PM EST) - Overview

<i>Visit</i>	<i>Targets used in Visit</i>	<i>Configurations used in Visit</i>	<i>Orbits Used</i>	<i>Last Orbit Planner Run</i>	<i>OP Current with Visit?</i>
23	(2) SDSS-J124814.83+155829.3	ACS/SBC	2	04-May-2017 21:00:54.0	yes
26	(2) SDSS-J124814.83+155829.3	WFC3/UVIS	1	04-May-2017 21:00:56.0	yes
29	(5) J1248+1558-COSPOINT	COS/FUV COS/NUV	1	04-May-2017 21:00:57.0	yes
31	(3) SDSS-J111211.07+273256.2	ACS/SBC	2	04-May-2017 21:00:58.0	yes
32	(3) SDSS-J111211.07+273256.2	ACS/SBC	2	04-May-2017 21:01:02.0	yes
33	(3) SDSS-J111211.07+273256.2	ACS/SBC	2	04-May-2017 21:01:03.0	yes
36	(3) SDSS-J111211.07+273256.2	WFC3/UVIS	1	04-May-2017 21:01:05.0	yes
39	(8) J1112+2732-COSPOINT	COS/FUV COS/NUV	1	04-May-2017 21:01:05.0	yes
41	(4) SDSS-J154748.41+511910.0	ACS/SBC	2	04-May-2017 21:01:07.0	yes
42	(4) SDSS-J154748.41+511910.0	ACS/SBC	2	04-May-2017 21:01:09.0	yes
43	(4) SDSS-J154748.41+511910.0	ACS/SBC	2	04-May-2017 21:01:11.0	yes
46	(4) SDSS-J154748.41+511910.0	WFC3/UVIS	1	04-May-2017 21:01:12.0	yes
49	(6) J1547+5119-COSPOINT	COS/FUV COS/NUV	1	04-May-2017 21:01:13.0	yes

32 Total Orbits Used

**ABSTRACT**

Hot gas outflows, crossing the extended circumgalactic medium of galaxies, regulate star formation, shape the galaxy luminosity function and mass-metallicity relation, and enrich the intergalactic medium. Over a wide temperature range of  $5 < \log(T/K) < 6$ , the cooling of this hot CGM flow is dominated by OVI ( $\lambda=1032, 1038$  AA) emission. Thus OVI plays a vital role in driving, cooling, and observationally probing galaxy outflows. The difficulty is that OVI gas is typically only seen in absorption against QSOs: spatial information for a single galaxy has therefore never been available, making it difficult to estimate the mass of missing baryons/metals in this phase and its impact on braking galaxy superwinds and enriching the IGM.

We have devised a method of using ACS/SBC to isolate far UV emission lines, demonstrated it many times on Lyman alpha, and in HST Cycle 22

## Proposal 14079 (STScI Edit Number: 5, Created: Thursday, May 4, 2017 8:01:15 PM EST) - Overview

adapted to OVI. For the first time we have mapped OVI emission, revealing the halo of extended emission. We here propose to produce the first set of such images, extending the sample to a total of five galaxies, by targeting four more strong starbursts at  $\langle z \rangle = 0.25$ . From calibrated OVI maps we will calculate the allowed ranges of temperature, metallicity, and density, and estimate the OVI mass from resolved information. New constraints on galactic wind models and input for cosmological simulations may be expected.

This work is exploratory, but the possible scientific return is extremely high, and the method verified. Results will guide subsequent HST observations and next generation UV satellites, and thus it is truly in the spirit of the UV initiative.

### **OBSERVING DESCRIPTION**

We will obtain ACS/SBC imaging, WFC3/UVIS imaging, and COS/FUV spectroscopy of four starburst galaxies that host strong starbursts. The redshift of the objects is between 0.23 and 0.27.

For each galaxy we will obtain:

- 6 orbits imaging with ACS/SBC, split between the F125LP and F140LP filters. These will be done over 3 visits of 2 orbits each.
- 1 orbit imaging with WFC3/UVIS, that obtains F390W, F475W, and F850LP frames
- 1 orbit of UV spectroscopy with COS

### SBC IMAGING

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\*\*\* As with our other programmes, we request that the SBC amplifiers have been turned off for 24 hours prior to our SBC visits. This allows the SBC to cool and 'reset' the Dark Current to its minimum before our observations begin. \*\*\*

For the same reasons of Dark Current, the 6 orbits of SBC imaging are split into 3 visits of 2 orbits each

3 x 2-orbit visits in F125LP and F140LP step over 9 positions on a 3x3 grid spaced by 4 arcsec. This is to reduce the effects of lower frequency

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flatfielding errors. At each position 1 exposure is obtained in each filter that are offset by a manually defined dither that steps over the occulting bar but maintains 1/3 pixel sampling.

The F125LP observation must be conducted in earth shadow, and is therefore placed at the end of the orbit.

ETC runs have assumed the GALEX FUV and NUV magnitudes, point-sources, :

#	SDSS name	m_FUV [AB]	m_NUV	F125LP ETC	F140LP ETC
1	SDSSJ 1107+4528	19.8646	19.1506	714807	714808
2	SDSSJ 1248+1558	20.6293	20.6776	733008	733010
3	SDSSJ 1112+2732	19.2845	19.5276	714811	714812
4	SDSSJ 1547+5119	19.7606	19.4160	733011	733012

Since our exposure times range between 380 and 500 seconds, we adopt 500 sec throughout - that will give the highest number of counts in a given pixel.

## UVIS IMAGING

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Postflashing is used for WRC3/UVIS observations in order to mitigate CTE effects. The level is determined by the ETC. We enter an infeasibly low source surface brightness (40 AB/arcsec<sup>2</sup>) and the exposure time, adjusting the number of postflash electrons to not trigger a warning.

#	EXPTIME			ETC ID			PF e-		
	F390	F475	F850	F390	F475	F850	F390	F475	F850
1	430	348	348	714824	714832	714835	8	3	8
2	365	348	348	714826	714832	714835	9	3	8
3	368	348	348	714827	714832	714835	9	3	8
4	455	348	348	733021	714832	714835	8	3	8

## COS SPECTROSCOPY

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COS spectroscopy is done by targeting the brightest regions in the far UV. These are determined by F140LP and F390W imaging from the above sections.

A full description of how this is optimized can be found in the comments box for visits 19, 29, 39, and 49.

Proposal 14079 - T1 SBC up (11) - Unveiling the Dark Baryons II: the First Sample of OVI Emission Imaging

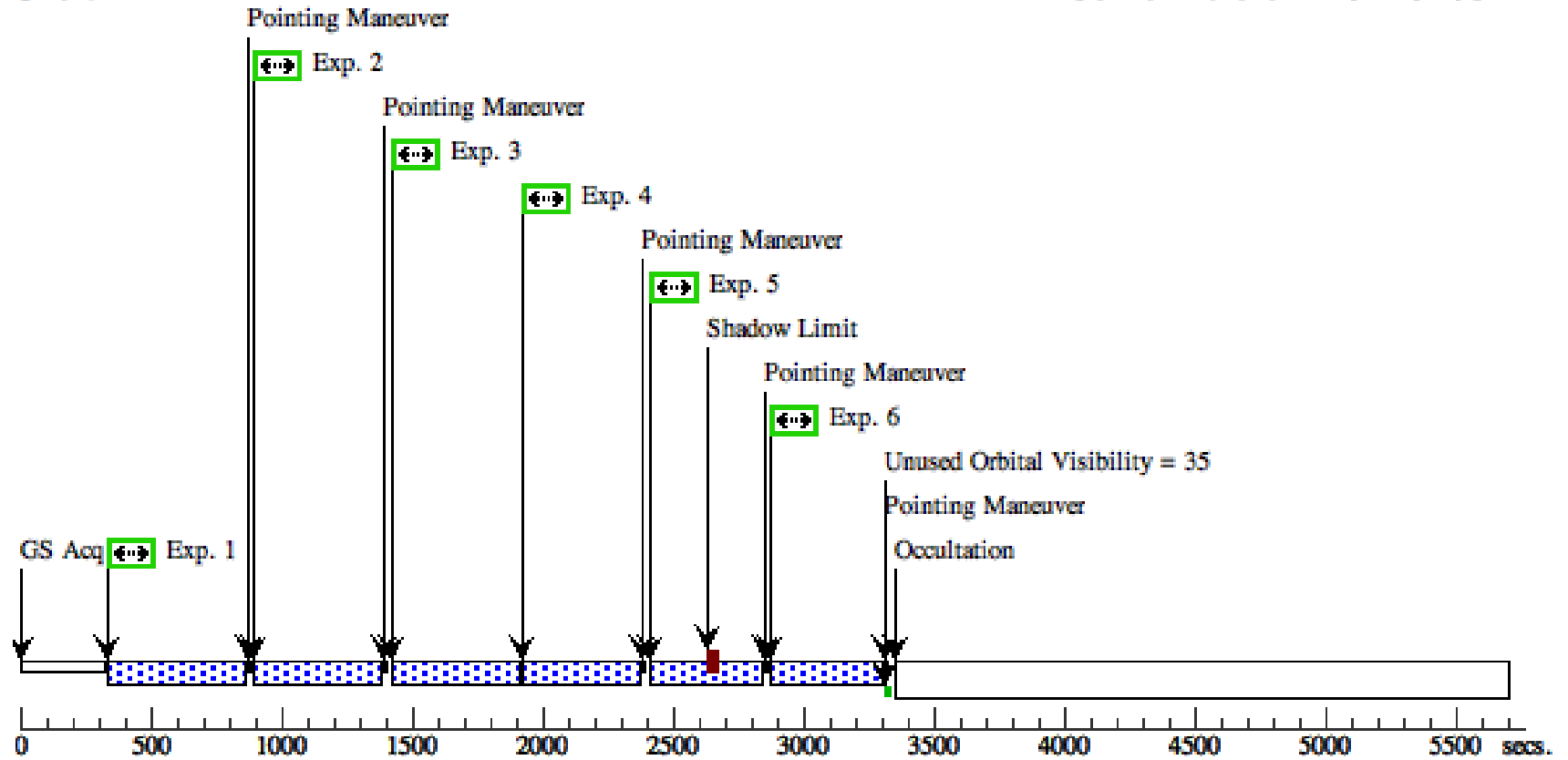
Fri May 05 01:01:15 GMT 2017

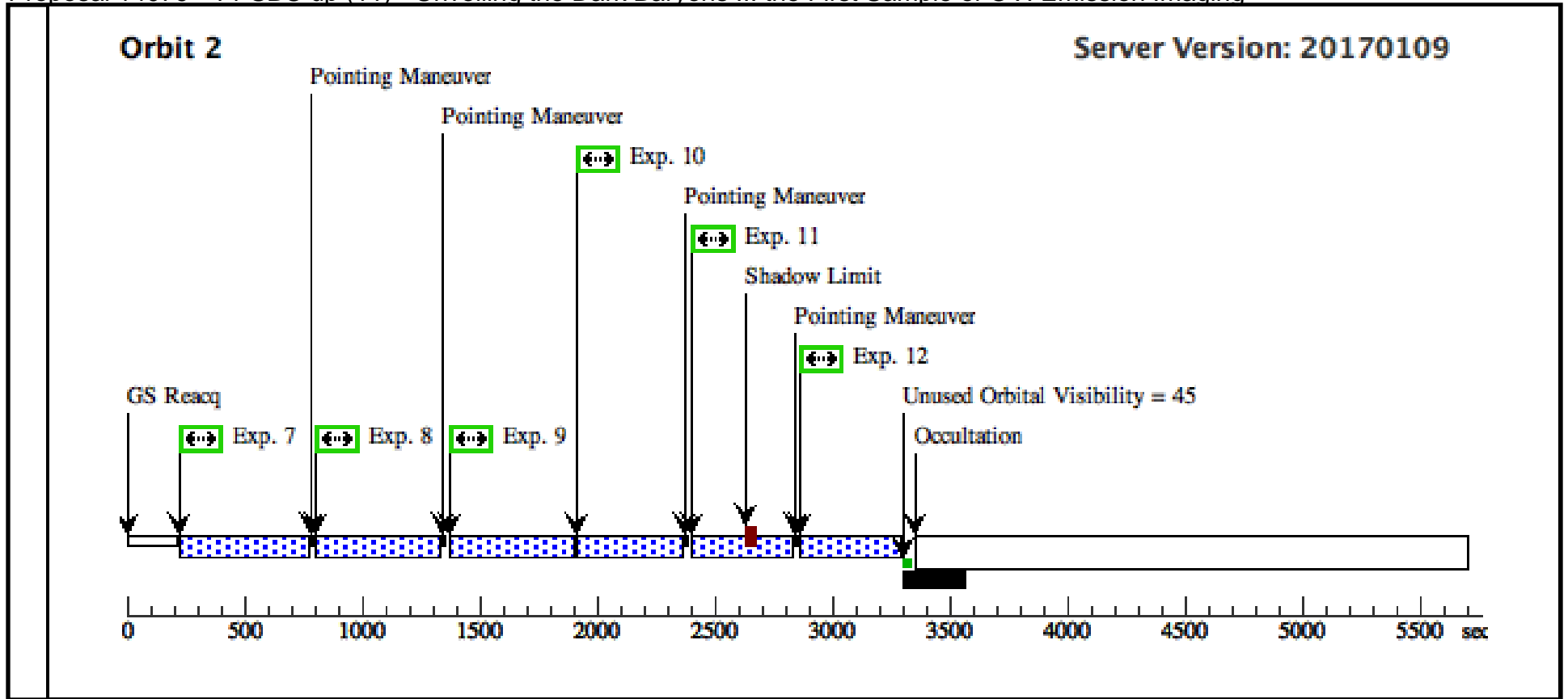
<b>Visit</b>	<b>Proposal 14079, T1 SBC up (11), completed</b> <b>Diagnostic Status: Warning</b> Scientific Instruments: ACS/SBC Special Requirements: (none) <i>Comments: This SBC visit depends critically upon the level of dark current. Please schedule only when the SBC has not been used in the previous 24 hours, so the amplifiers have cooled.</i>																																																																																																																																					
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<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>(1)</td> <td>SDSS-J110755.87+452809.8</td> <td>RA: 11 07 55.8750 (166.9828125d) Dec: +45 28 9.85 (45.46940d) Equinox: J2000</td> <td></td> <td>V=18.3+/-0.2 log L_FUV / Lsun = 10.5</td> <td>Reference Frame: ICRS</td> </tr> </tbody> </table> <i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> Extended=YES					#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous	(1)	SDSS-J110755.87+452809.8	RA: 11 07 55.8750 (166.9828125d) Dec: +45 28 9.85 (45.46940d) Equinox: J2000		V=18.3+/-0.2 log L_FUV / Lsun = 10.5	Reference Frame: ICRS																																																																																																																					
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**Orbit 1**

Server Version: 20170109

Orbit Structure

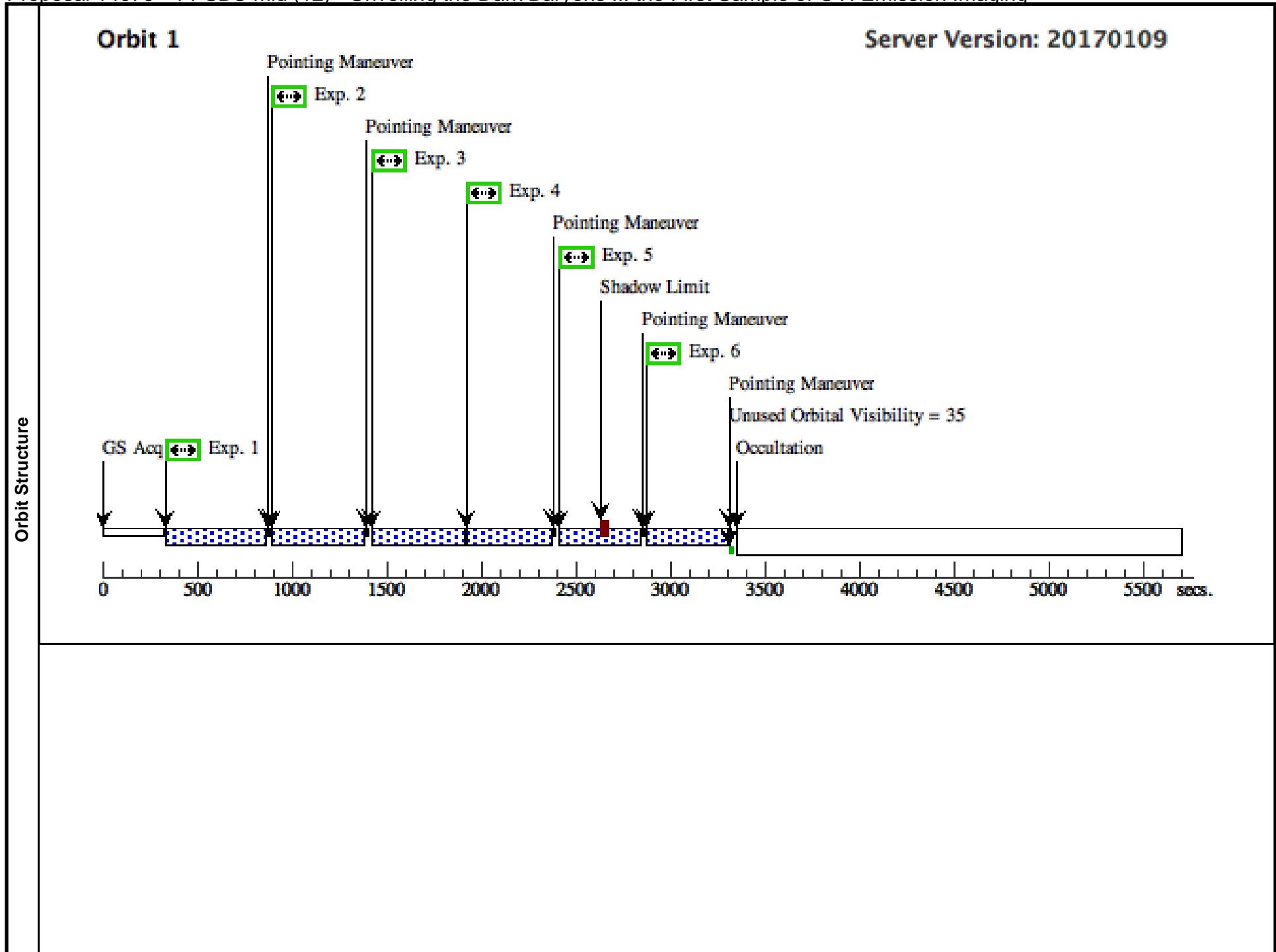


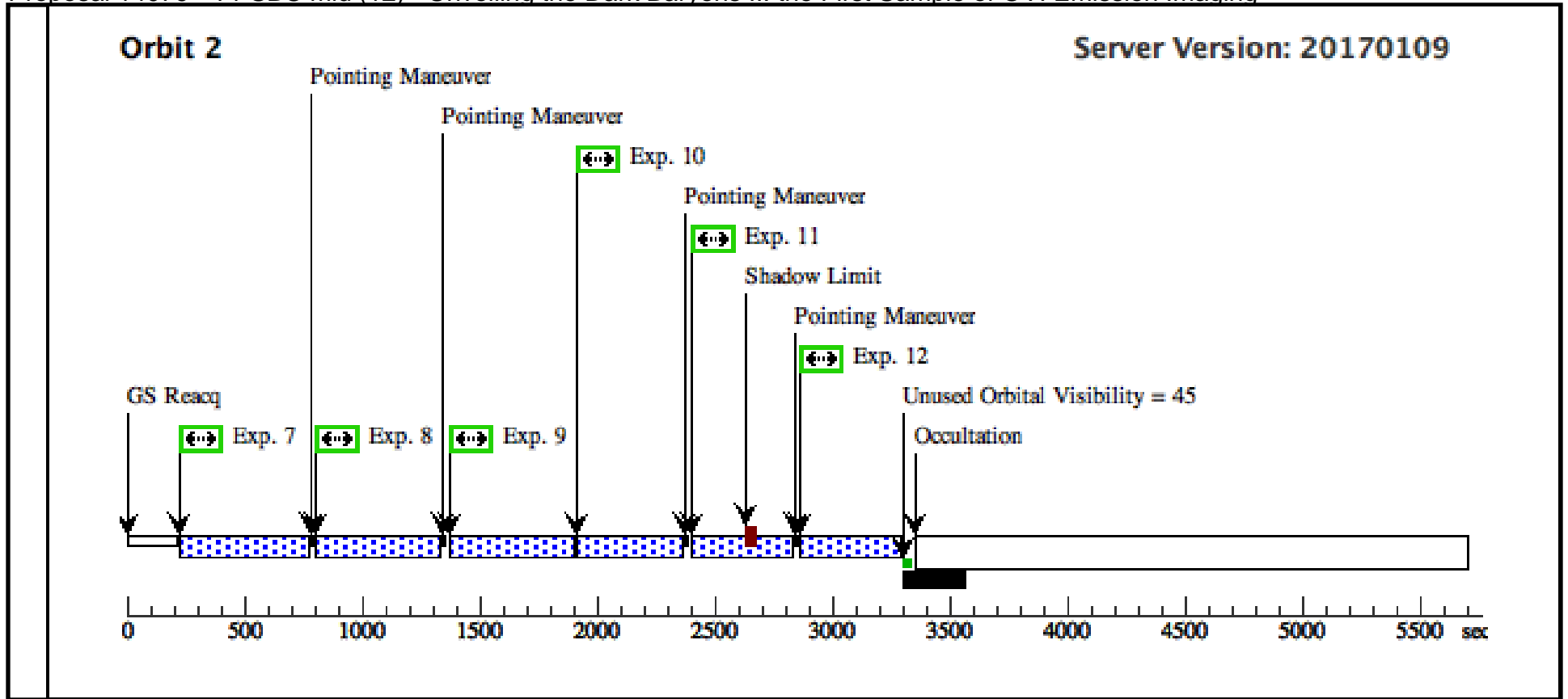


Proposal 14079 - T1 SBC mid (12) - Unveiling the Dark Baryons II: the First Sample of OVI Emission Imaging

Fri May 05 01:01:15 GMT 2017

<b>Visit</b>	<b>Proposal 14079, T1 SBC mid (12), completed</b> <b>Diagnostic Status: Warning</b> Scientific Instruments: ACS/SBC Special Requirements: (none) <i>Comments: This SBC visit depends critically upon the level of dark current. Please schedule only when the SBC has not been used in the previous 24 hours, so the amplifiers have cooled.</i>																																																																																																																																						
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Proposal 14079 - T1 SBC low (13) - Unveiling the Dark Baryons II: the First Sample of OVI Emission Imaging

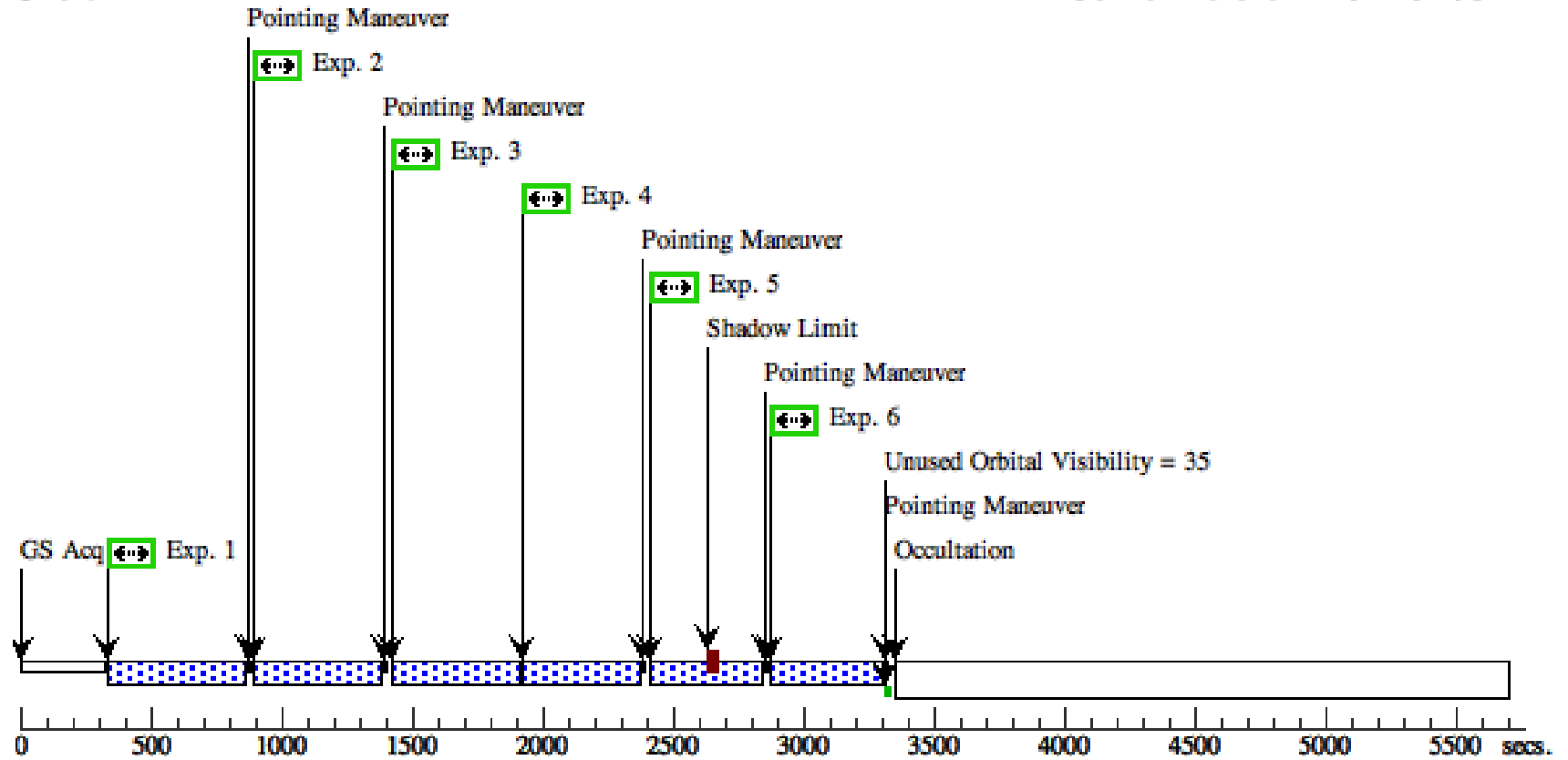
Fri May 05 01:01:16 GMT 2017

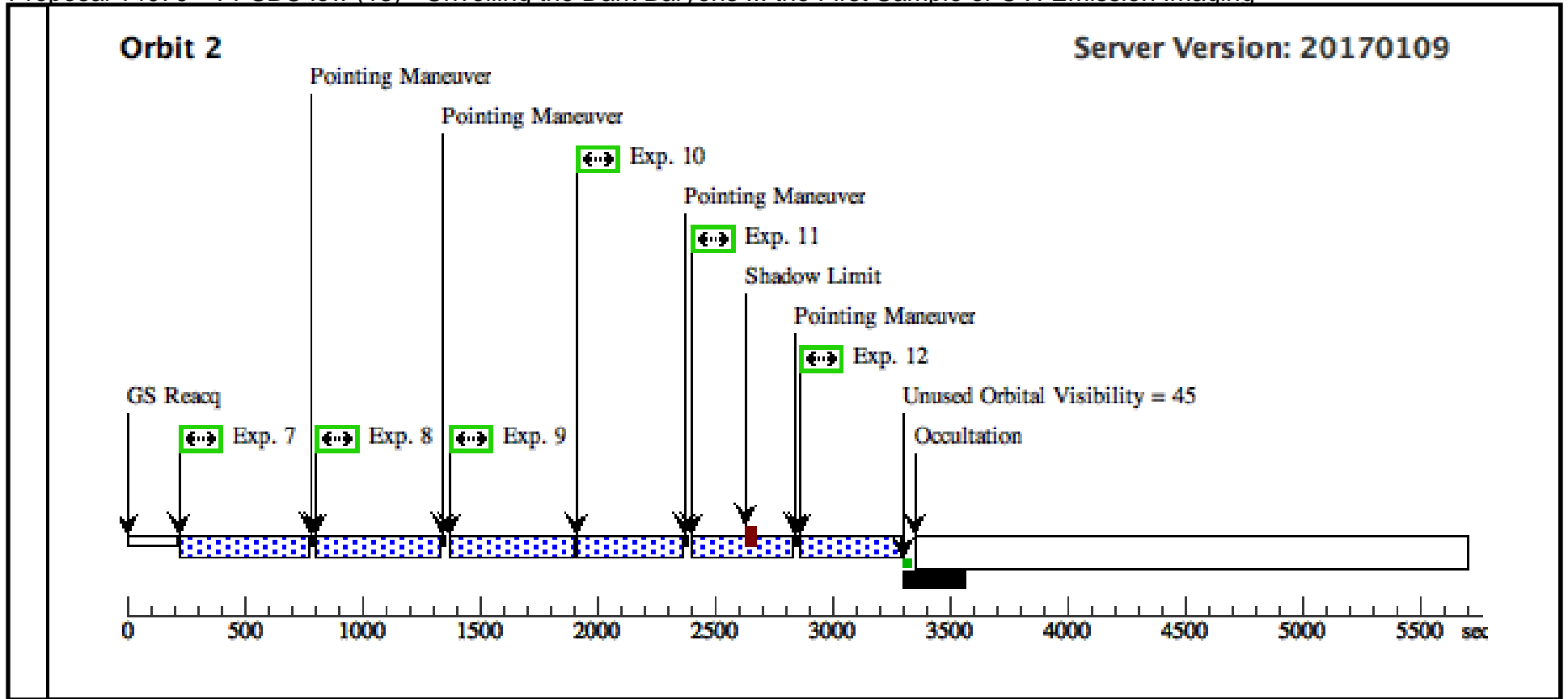
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#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit																																																																																																																														
1	(714808)	(1) SDSS-J110755.87+452809.8	ACS/SBC, ACCUM, SBC-FIX	F140LP		POS TARG -4.032,-3.4965; GS ACQ SCENARIO BASE1B3		460 Secs (460 Secs) [==>]	[1]																																																																																																																														
2	(714808)	(1) SDSS-J110755.87+452809.8	ACS/SBC, ACCUM, SBC-FIX	F140LP		POS TARG 0.0112,-3.1857		460 Secs (460 Secs) [==>]	[1]																																																																																																																														
3	(714808)	(1) SDSS-J110755.87+452809.8	ACS/SBC, ACCUM, SBC-FIX	F140LP		POS TARG 4.0544,-2.8749		460 Secs (460 Secs) [==>]	[1]																																																																																																																														
4	(714807)	(1) SDSS-J110755.87+452809.8	ACS/SBC, ACCUM, SBC-FIX	F125LP		SAME POS AS 3; SHADOW		400 Secs (400 Secs) [==>]	[1]																																																																																																																														
5	(714807)	(1) SDSS-J110755.87+452809.8	ACS/SBC, ACCUM, SBC-FIX	F125LP		SAME POS AS 2; SHADOW		400 Secs (400 Secs) [==>]	[1]																																																																																																																														
6	(714807)	(1) SDSS-J110755.87+452809.8	ACS/SBC, ACCUM, SBC-FIX	F125LP		SAME POS AS 1; SHADOW		400 Secs (400 Secs) [==>]	[1]																																																																																																																														
7	(714808)	(1) SDSS-J110755.87+452809.8	ACS/SBC, ACCUM, SBC-FIX	F140LP		POS TARG -4.0152,-4.47885		500 Secs (500 Secs) [==>]	[2]																																																																																																																														
8	(714808)	(1) SDSS-J110755.87+452809.8	ACS/SBC, ACCUM, SBC-FIX	F140LP		POS TARG 0.028,-4.16805		500 Secs (500 Secs) [==>]	[2]																																																																																																																														
9	(714808)	(1) SDSS-J110755.87+452809.8	ACS/SBC, ACCUM, SBC-FIX	F140LP		POS TARG 4.0712,-3.85725		500 Secs (500 Secs) [==>]	[2]																																																																																																																														
10	(714807)	(1) SDSS-J110755.87+452809.8	ACS/SBC, ACCUM, SBC-FIX	F125LP		SAME POS AS 9; SHADOW		400 Secs (400 Secs) [==>]	[2]																																																																																																																														
11	(714807)	(1) SDSS-J110755.87+452809.8	ACS/SBC, ACCUM, SBC-FIX	F125LP		SAME POS AS 8; SHADOW		400 Secs (400 Secs) [==>]	[2]																																																																																																																														
12	(714807)	(1) SDSS-J110755.87+452809.8	ACS/SBC, ACCUM, SBC-FIX	F125LP		SAME POS AS 7; SHADOW		400 Secs (400 Secs) [==>]	[2]																																																																																																																														

**Orbit 1**

Server Version: 20170109

Orbit Structure

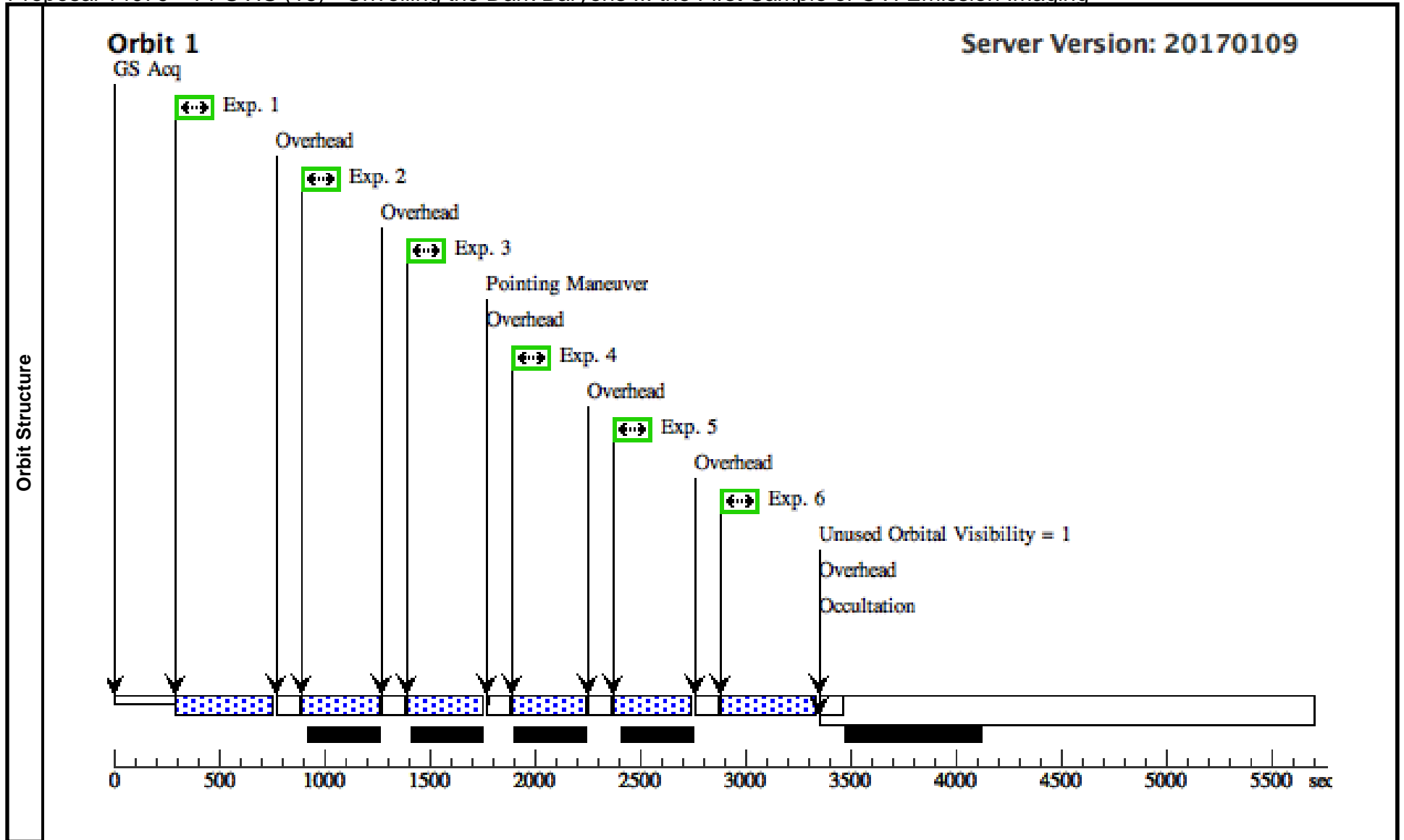




Proposal 14079 - T1 UVIS (16) - Unveiling the Dark Baryons II: the First Sample of OVI Emission Imaging

Fri May 05 01:01:16 GMT 2017

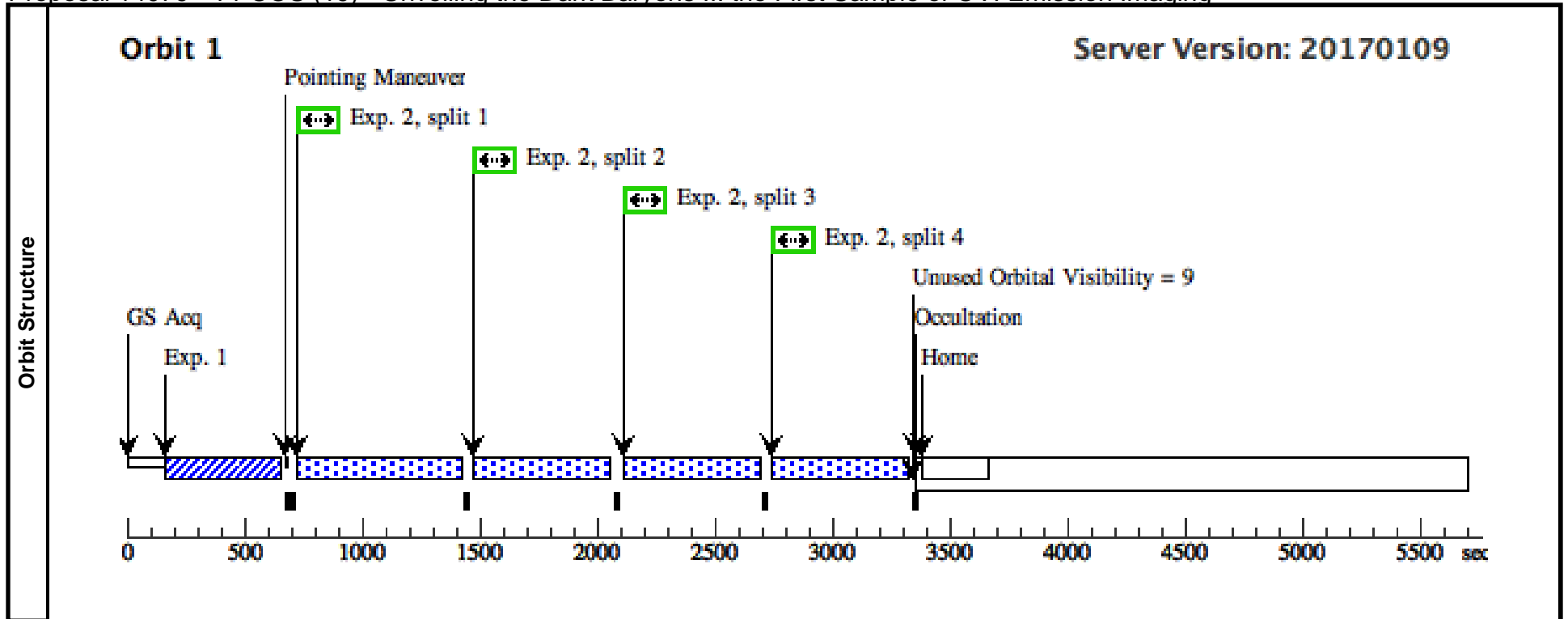
<b>Visit</b>	<b>Proposal 14079, T1 UVIS (16), completed</b> <b>Diagnostic Status: Warning</b> Scientific Instruments: WFC3/UVIS Special Requirements: (none)									
	(Exposure 2 (T1 UVIS (16))) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (Exposure 3 (T1 UVIS (16))) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (Exposure 4 (T1 UVIS (16))) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (Exposure 5 (T1 UVIS (16))) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser									
<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>				
	(1)	SDSS-J110755.87+452809.8	RA: 11 07 55.8750 (166.9828125d) Dec: +45 28 9.85 (45.46940d) Equinox: J2000		V=18.3+/-0.2 log L_FUV / Lsun = 10.5	Reference Frame: ICRS				
Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. Extended=YES										
<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	(714824)	(1) SDSS-J110755.87+452809.8	WFC3/UVIS, ACCUM, UVIS2	F390W	FLASH=8			430 Secs (430 Secs) [==>]	[1]
	2	(714832)	(1) SDSS-J110755.87+452809.8	WFC3/UVIS, ACCUM, UVIS2	F475W	FLASH=3			348 Secs (348 Secs) [==>]	[1]
	3	(714835)	(1) SDSS-J110755.87+452809.8	WFC3/UVIS, ACCUM, UVIS2	F850LP	FLASH=8			348 Secs (348 Secs) [==>]	[1]
	4	(714835)	(1) SDSS-J110755.87+452809.8	WFC3/UVIS, ACCUM, UVIS2	F850LP	FLASH=8	POS TARG 0.158,0.070		348 Secs (348 Secs) [==>]	[1]
	5	(714832)	(1) SDSS-J110755.87+452809.8	WFC3/UVIS, ACCUM, UVIS2	F475W	FLASH=3	POS TARG 0.158,0.070		348 Secs (348 Secs) [==>]	[1]
	6	(714824)	(1) SDSS-J110755.87+452809.8	WFC3/UVIS, ACCUM, UVIS2	F390W	FLASH=8	POS TARG 0.158,0.070		430 Secs (430 Secs) [==>]	[1]



Proposal 14079 - T1 COS (19) - Unveiling the Dark Baryons II: the First Sample of OVI Emission Imaging

Fri May 05 01:01:16 GMT 2017

<b>Visit</b>	<p><b>Proposal 14079, T1 COS (19), completed</b></p> <p><b>Diagnostic Status: No Diagnostics</b></p> <p>Scientific Instruments: COS/FUV, COS/NUV</p> <p>Special Requirements: (none)</p> <p><i>Comments: Photometry that guides target acquisition and integration times is done with HST data from visits 11 and 16 from this program. Flux was measured on the brightest UV source in 0.2 arcsec (acquisition) and 1.25 arcsec (spectroscopic observation) apertures, using the F140LP and F390W filters. Then we interpolated (power-law) between the two, to lambda=2300 AA. Fluxes are quoted below. These numbers (and the beta slope) were entered into the acquisition and spectroscopic ETCs.</i></p> <p><i>HST Imaging Datasets for Photometry:</i>                  F140LP 14079 ictd11010                  F390W 14079 ictd16010</p> <p>FUV full = 9.128 adu/sec = 2.4764e-16 cgs/AA                  FUV ACQ = 3.037 adu/sec = 8.2377e-17 cgs/AA</p> <p>Uband full = 175.235 adu/sec = 9.5808e-17 cgs/AA                  Uband ACQ = 55.659 adu/sec = 3.0431e-17 cgs/AA</p> <p>Beta full = -1.0070                  Beta ACQ = -1.0560</p> <p>COS/NUV full = 1.8167e-16 cgs/AA                  COS/NUV ACQ = 5.9527e-17 cgs/AA</p>																										
	<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>(7)</td> <td>J1107+4528-COSPOINT</td> <td>RA: 11 07 55.9416 (166.9830900d) Dec: +45 28 9.58 (45.46933d) Equinox: J2000</td> <td></td> <td>V=18.3+/-0.2 log L_FUV / Lsun = 10.5</td> <td>Reference Frame: ICRS</td> </tr> <tr> <td colspan="6"><i>Comments: Extended=NO</i></td> </tr> </tbody> </table>										#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous	(7)	J1107+4528-COSPOINT	RA: 11 07 55.9416 (166.9830900d) Dec: +45 28 9.58 (45.46933d) Equinox: J2000		V=18.3+/-0.2 log L_FUV / Lsun = 10.5	Reference Frame: ICRS	<i>Comments: Extended=NO</i>				
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous																						
(7)	J1107+4528-COSPOINT	RA: 11 07 55.9416 (166.9830900d) Dec: +45 28 9.58 (45.46933d) Equinox: J2000		V=18.3+/-0.2 log L_FUV / Lsun = 10.5	Reference Frame: ICRS																						
<i>Comments: Extended=NO</i>																											
<b>Fixed Targets</b>																											
<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.846 894)	(7) J1107+4528-CO SPOINT	COS/NUV, ACQ/IMAGE, PSA	MIRRORA					133 Secs (133 Secs) [==>]	[1]																
2	(COS.sp.846 895)	(7) J1107+4528-CO SPOINT	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=ALL; FLASH=YES; BUFFER-TIME=48 38				530 Secs (2120 Secs) [==>(Split 1)] [==>(Split 2)] [==>(Split 3)] [==>(Split 4)]	[1]																	



Proposal 14079 - T2 SBC up (21) - Unveiling the Dark Baryons II: the First Sample of OVI Emission Imaging

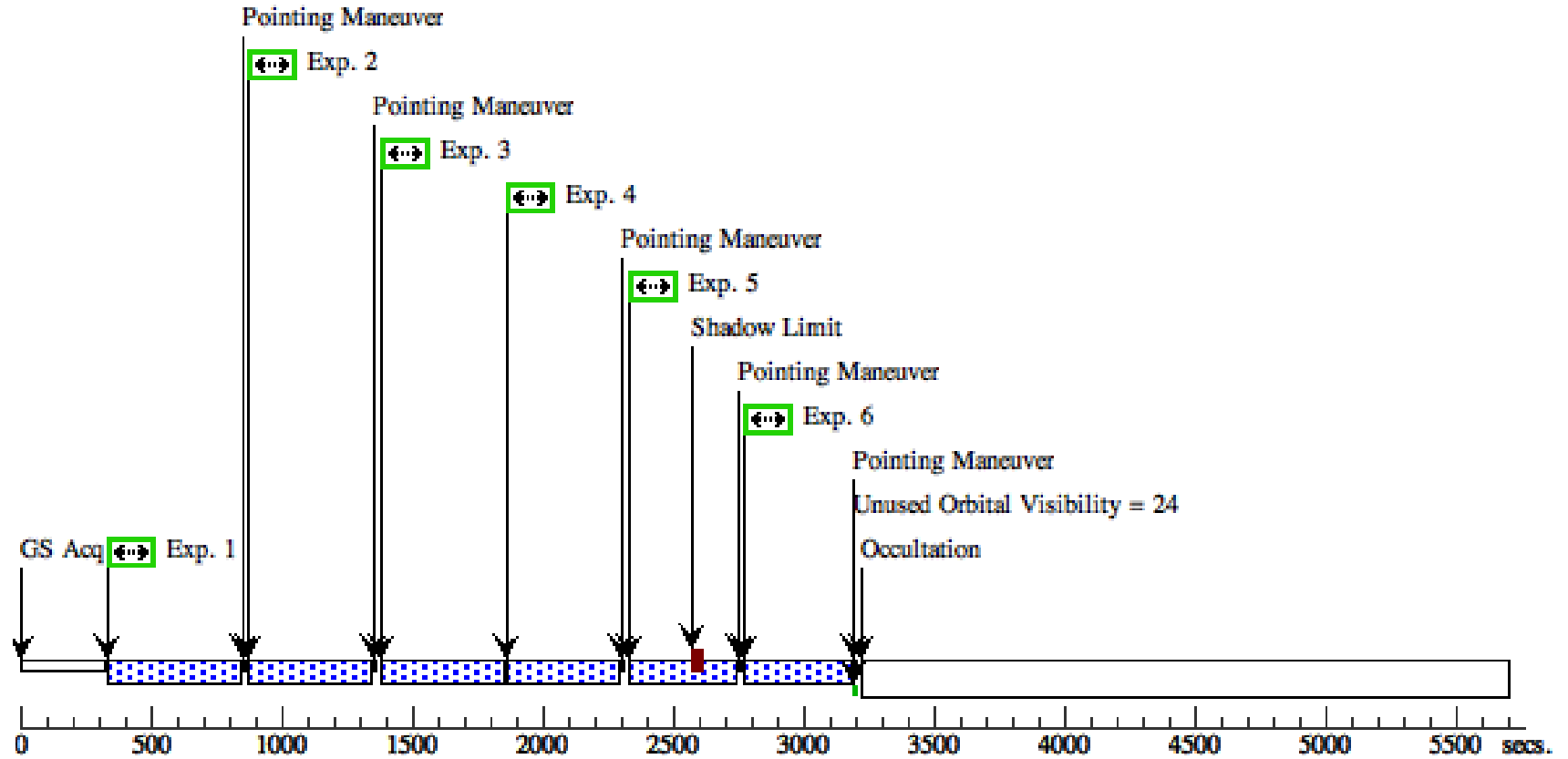
Fri May 05 01:01:16 GMT 2017

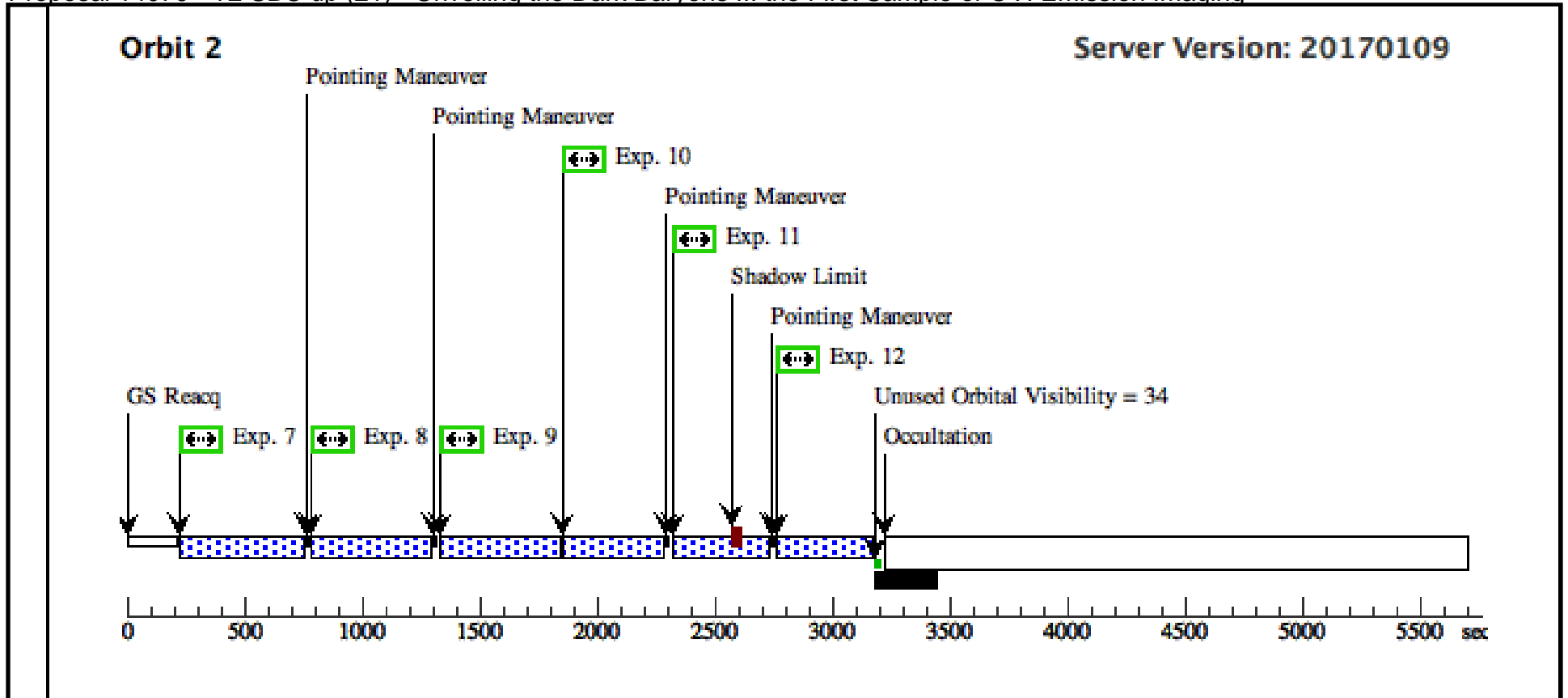
<b>Visit</b>	<b>Proposal 14079, T2 SBC up (21), completed</b> <b>Diagnostic Status: Warning</b> Scientific Instruments: ACS/SBC Special Requirements: (none) <i>Comments: This SBC visit depends critically upon the level of dark current. Please schedule only when the SBC has not been used in the previous 24 hours, so the amplifiers have cooled.</i>				
	<b>Diagnosics</b> (T2 SBC up (21)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN (T2 SBC up (21)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN (T2 SBC up (21)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN (T2 SBC up (21)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN				
<b>Fixed Targets</b>	# <b>Name</b> <b>Target Coordinates</b> <b>Targ. Coord. Corrections</b> <b>Fluxes</b> <b>Miscellaneous</b>	(2)      SDSS- J124814.83+155829.3      RA: 12 48 14.8300 (192.0617917d) Dec: +15 58 29.38 (15.97483d) Equinox: J2000      V=19.9+/-0.2 log L_FUV / Lsun = 10.4      Reference Frame: ICRS			
	<i>Comments: Extended=YES</i>				
<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      (733010)      (2) SDSS-J124814.8 3+155829.3      ACS/SBC, ACCUM, SBC-FIX      F140LP      POS TARG -4.032 , 4.4955; GS ACQ SCENARI O BASE1B3      440 Secs (440 Secs) [==>]      [1]			
	2      (733010)      (2) SDSS-J124814.8 3+155829.3      ACS/SBC, ACCUM, SBC-FIX      F140LP      POS TARG 0.0112,4 .8063      440 Secs (440 Secs) [==>]      [1]				
	3      (733010)      (2) SDSS-J124814.8 3+155829.3      ACS/SBC, ACCUM, SBC-FIX      F140LP      POS TARG 4.0544,5 .1171      440 Secs (440 Secs) [==>]      [1]				
	4      (733008)      (2) SDSS-J124814.8 3+155829.3      ACS/SBC, ACCUM, SBC-FIX      F125LP      SAME POS AS 3; SHADOW      380 Secs (380 Secs) [==>]      [1]				
	5      (733008)      (2) SDSS-J124814.8 3+155829.3      ACS/SBC, ACCUM, SBC-FIX      F125LP      SAME POS AS 2; SHADOW      380 Secs (380 Secs) [==>]      [1]				
	6      (733008)      (2) SDSS-J124814.8 3+155829.3      ACS/SBC, ACCUM, SBC-FIX      F125LP      SAME POS AS 1; SHADOW      380 Secs (380 Secs) [==>]      [1]				
	7      (733010)      (2) SDSS-J124814.8 3+155829.3      ACS/SBC, ACCUM, SBC-FIX      F140LP      POS TARG -4.0152, 3.51315      480 Secs (480 Secs) [==>]      [2]				
	8      (733010)      (2) SDSS-J124814.8 3+155829.3      ACS/SBC, ACCUM, SBC-FIX      F140LP      POS TARG 0.028,3. 82395      480 Secs (480 Secs) [==>]      [2]				
	9      (733010)      (2) SDSS-J124814.8 3+155829.3      ACS/SBC, ACCUM, SBC-FIX      F140LP      POS TARG 4.0712,4 .13475      480 Secs (480 Secs) [==>]      [2]				
	10      (733008)      (2) SDSS-J124814.8 3+155829.3      ACS/SBC, ACCUM, SBC-FIX      F125LP      SAME POS AS 9; SHADOW      380 Secs (380 Secs) [==>]      [2]				
	11      (733008)      (2) SDSS-J124814.8 3+155829.3      ACS/SBC, ACCUM, SBC-FIX      F125LP      SAME POS AS 8; SHADOW      380 Secs (380 Secs) [==>]      [2]				
	12      (733008)      (2) SDSS-J124814.8 3+155829.3      ACS/SBC, ACCUM, SBC-FIX      F125LP      SAME POS AS 7; SHADOW      380 Secs (380 Secs) [==>]      [2]				

**Orbit 1**

Server Version: 20170109

Orbit Structure

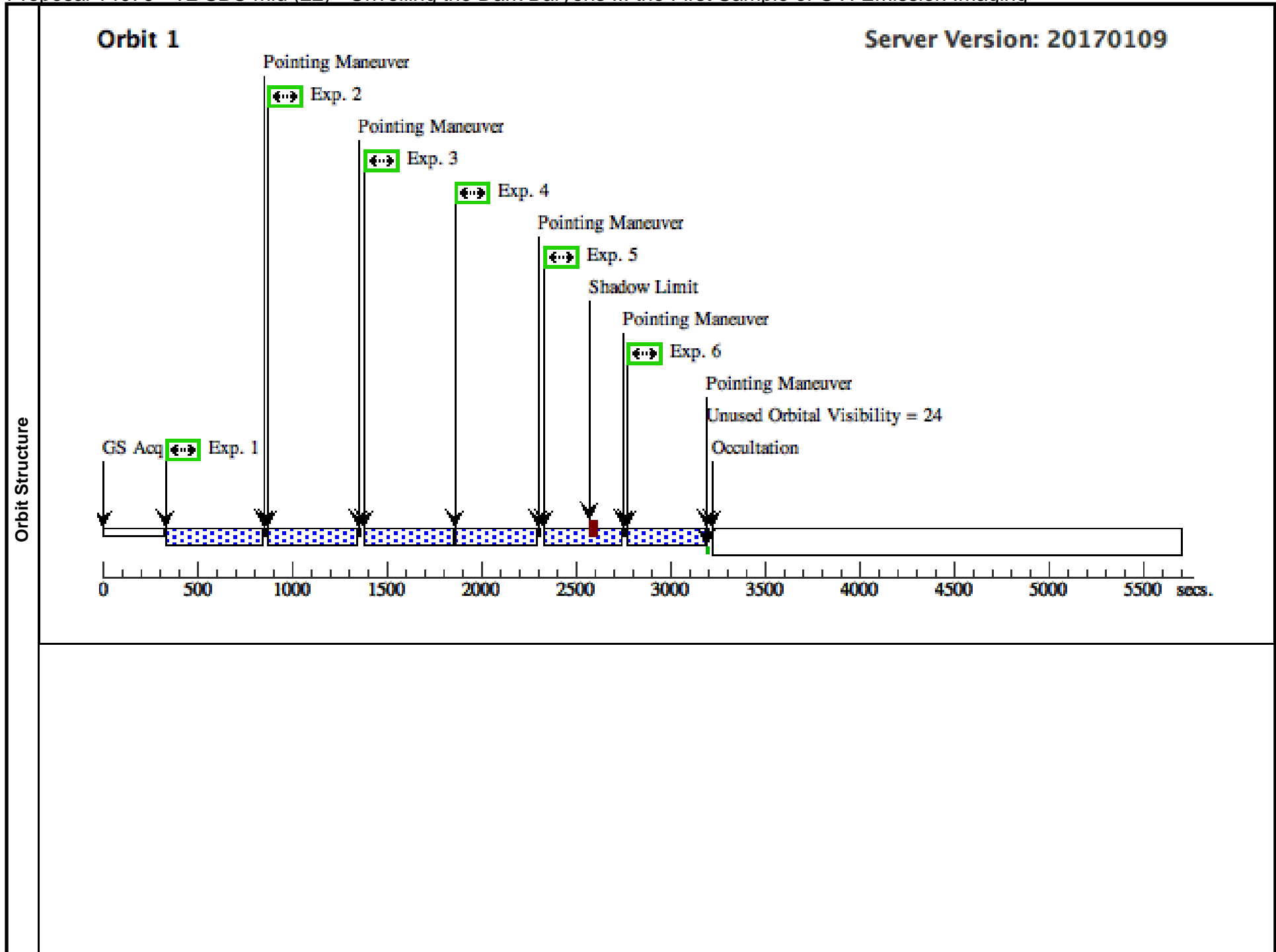


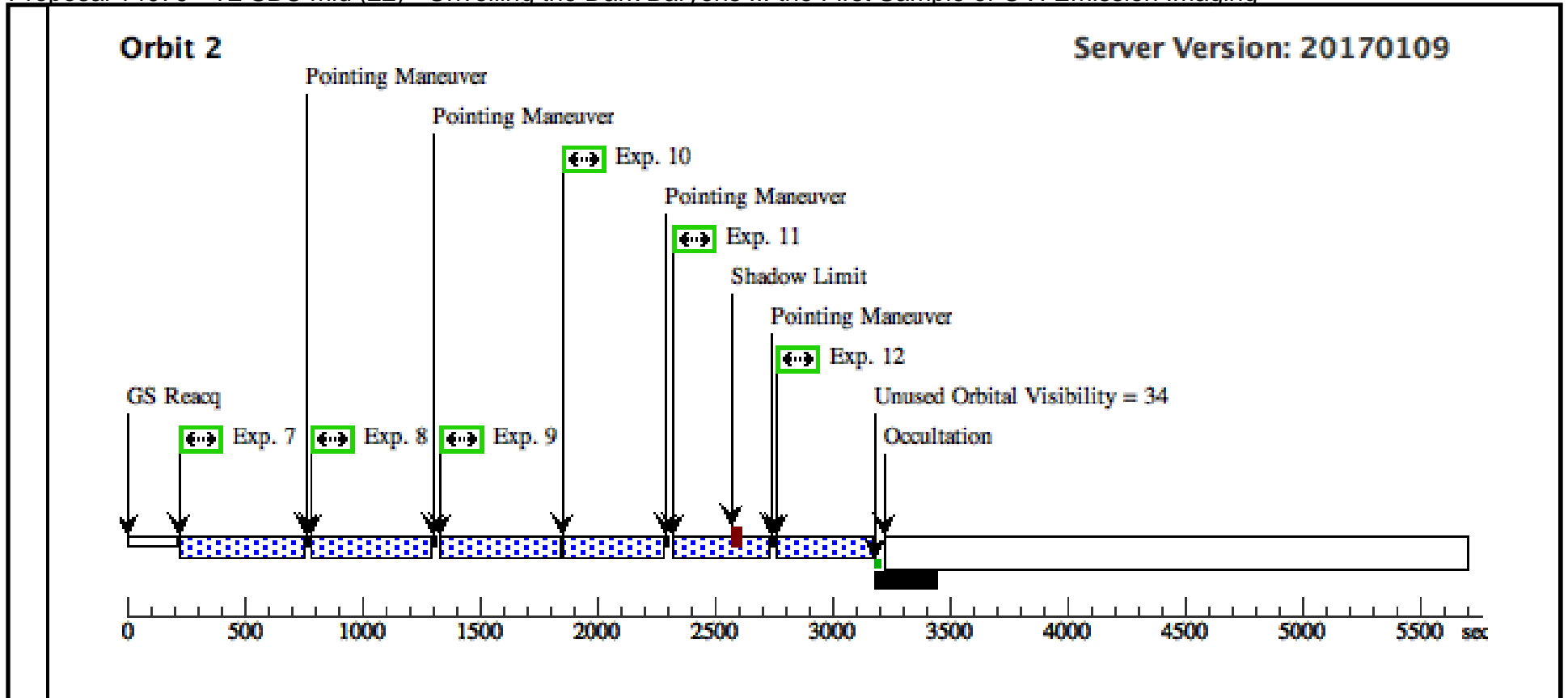


Proposal 14079 - T2 SBC mid (22) - Unveiling the Dark Baryons II: the First Sample of OVI Emission Imaging

Fri May 05 01:01:16 GMT 2017

<b>Visit</b>	<b>Proposal 14079, T2 SBC mid (22), completed</b> <b>Diagnostic Status: Warning</b> Scientific Instruments: ACS/SBC Special Requirements: (none) <i>Comments: This SBC visit depends critically upon the level of dark current. Please schedule only when the SBC has not been used in the previous 24 hours, so the amplifiers have cooled.</i>				
	<b>Diagnosics</b> (T2 SBC mid (22)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN (T2 SBC mid (22)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN (T2 SBC mid (22)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN (T2 SBC mid (22)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN				
<b>Fixed Targets</b>	# <b>Name</b> <b>Target Coordinates</b> <b>Targ. Coord. Corrections</b> <b>Fluxes</b> <b>Miscellaneous</b>				
	(2)      SDSS- J124814.83+155829.3      RA: 12 48 14.8300 (192.0617917d) Dec: +15 58 29.38 (15.97483d) Equinox: J2000      V=19.9+/-0.2 log L_FUV / Lsun = 10.4      Reference Frame: ICRS  <i>Comments: Extended=YES</i>				
<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      (733010)      (2) SDSS-J124814.8 3+155829.3      ACS/SBC, ACCUM, SBC-FIX      F140LP           POS TARG -4.032,0 .4995; GS ACQ SCENARI O BASE1B3           440 Secs (440 Secs) [==>]      [1]				
	2      (733010)      (2) SDSS-J124814.8 3+155829.3      ACS/SBC, ACCUM, SBC-FIX      F140LP           POS TARG 0.0112,0 .8103           440 Secs (440 Secs) [==>]      [1]				
	3      (733010)      (2) SDSS-J124814.8 3+155829.3      ACS/SBC, ACCUM, SBC-FIX      F140LP           POS TARG 4.0544,1 .1211           440 Secs (440 Secs) [==>]      [1]				
	4      (733008)      (2) SDSS-J124814.8 3+155829.3      ACS/SBC, ACCUM, SBC-FIX      F125LP           SAME POS AS 3; SHADOW           380 Secs (380 Secs) [==>]      [1]				
	5      (733008)      (2) SDSS-J124814.8 3+155829.3      ACS/SBC, ACCUM, SBC-FIX      F125LP           SAME POS AS 2; SHADOW           380 Secs (380 Secs) [==>]      [1]				
	6      (733008)      (2) SDSS-J124814.8 3+155829.3      ACS/SBC, ACCUM, SBC-FIX      F125LP           SAME POS AS 1; SHADOW           380 Secs (380 Secs) [==>]      [1]				
	7      (733010)      (2) SDSS-J124814.8 3+155829.3      ACS/SBC, ACCUM, SBC-FIX      F140LP           POS TARG -4.0152, -0.48285           480 Secs (480 Secs) [==>]      [2]				
	8      (733010)      (2) SDSS-J124814.8 3+155829.3      ACS/SBC, ACCUM, SBC-FIX      F140LP           POS TARG 0.028,-0 .17205           480 Secs (480 Secs) [==>]      [2]				
	9      (733010)      (2) SDSS-J124814.8 3+155829.3      ACS/SBC, ACCUM, SBC-FIX      F140LP           POS TARG 4.0712,0 .13875           480 Secs (480 Secs) [==>]      [2]				
	10      (733008)      (2) SDSS-J124814.8 3+155829.3      ACS/SBC, ACCUM, SBC-FIX      F125LP           SAME POS AS 9; SHADOW           380 Secs (380 Secs) [==>]      [2]				
	11      (733008)      (2) SDSS-J124814.8 3+155829.3      ACS/SBC, ACCUM, SBC-FIX      F125LP           SAME POS AS 8; SHADOW           380 Secs (380 Secs) [==>]      [2]				
	12      (733008)      (2) SDSS-J124814.8 3+155829.3      ACS/SBC, ACCUM, SBC-FIX      F125LP           SAME POS AS 7; SHADOW           380 Secs (380 Secs) [==>]      [2]				





Proposal 14079 - T2 SBC low (23) - Unveiling the Dark Baryons II: the First Sample of OVI Emission Imaging

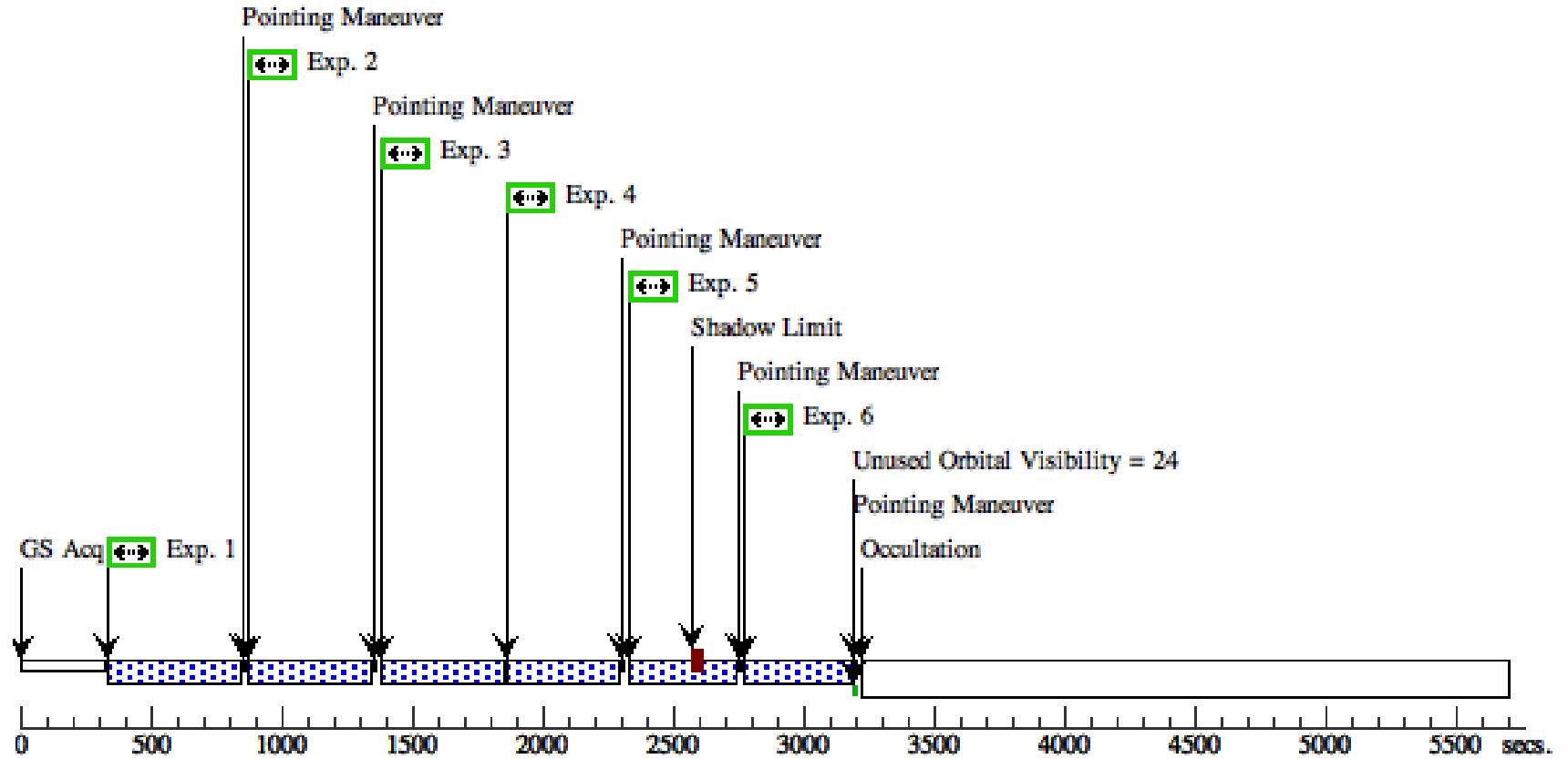
Fri May 05 01:01:16 GMT 2017

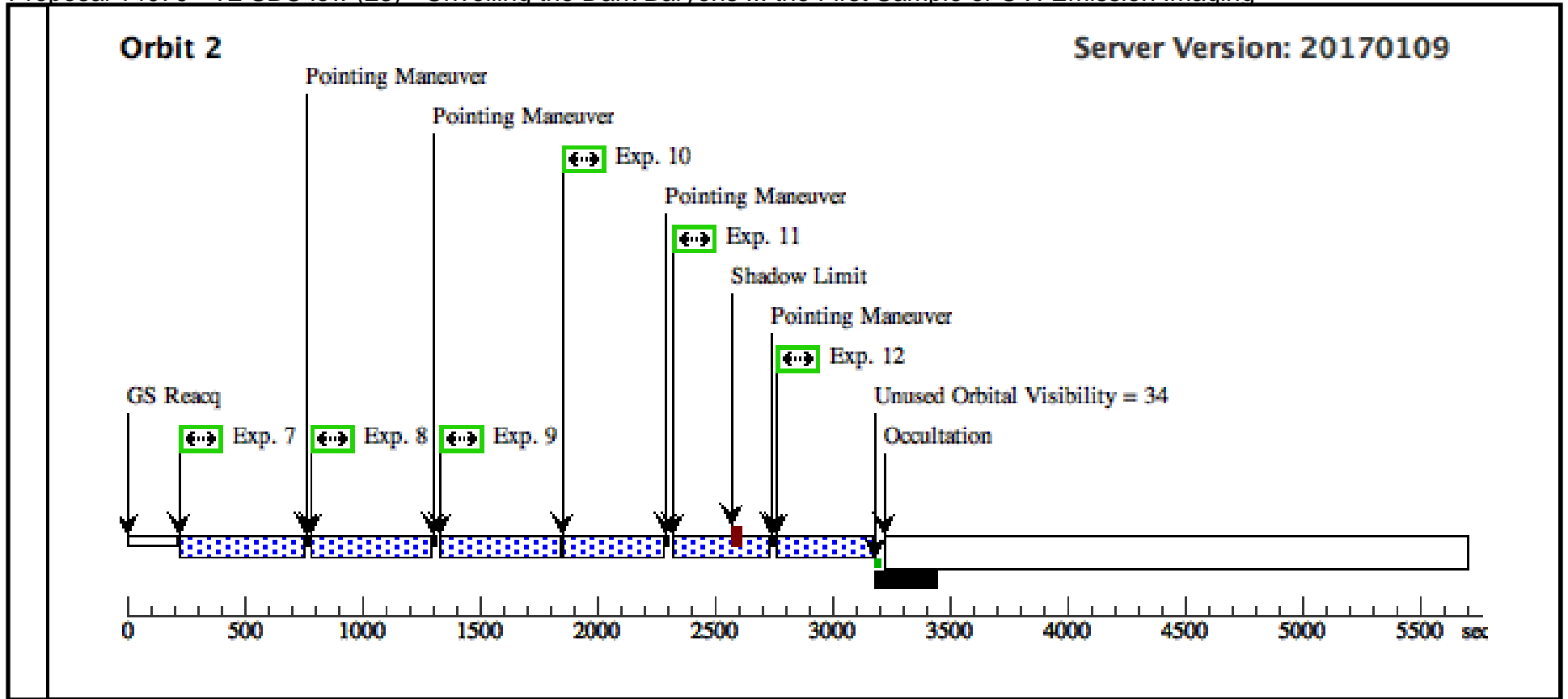
<b>Visit</b>	<b>Proposal 14079, T2 SBC low (23), completed</b> <b>Diagnostic Status: Warning</b> Scientific Instruments: ACS/SBC Special Requirements: (none) <i>Comments: This SBC visit depends critically upon the level of dark current. Please schedule only when the SBC has not been used in the previous 24 hours, so the amplifiers have cooled.</i>																																																																																																																																										
	<b>Diagnosics</b> (T2 SBC low (23)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN (T2 SBC low (23)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN (T2 SBC low (23)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN (T2 SBC low (23)) 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>SDSS-J124814.83+155829.3</td> <td>RA: 12 48 14.8300 (192.0617917d) Dec: +15 58 29.38 (15.97483d) Equinox: J2000</td> <td></td> <td>V=19.9+/-0.2 log L_FUV / Lsun = 10.4</td> <td>Reference Frame: ICRS</td> </tr> </tbody> </table> <i>Comments: Extended=YES</i>										#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous	(2)	SDSS-J124814.83+155829.3	RA: 12 48 14.8300 (192.0617917d) Dec: +15 58 29.38 (15.97483d) Equinox: J2000		V=19.9+/-0.2 log L_FUV / Lsun = 10.4	Reference Frame: ICRS																																																																																																																					
	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous																																																																																																																																					
(2)	SDSS-J124814.83+155829.3	RA: 12 48 14.8300 (192.0617917d) Dec: +15 58 29.38 (15.97483d) Equinox: J2000		V=19.9+/-0.2 log L_FUV / Lsun = 10.4	Reference Frame: ICRS																																																																																																																																						
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**Orbit 1**

Server Version: 20170109

Orbit Structure

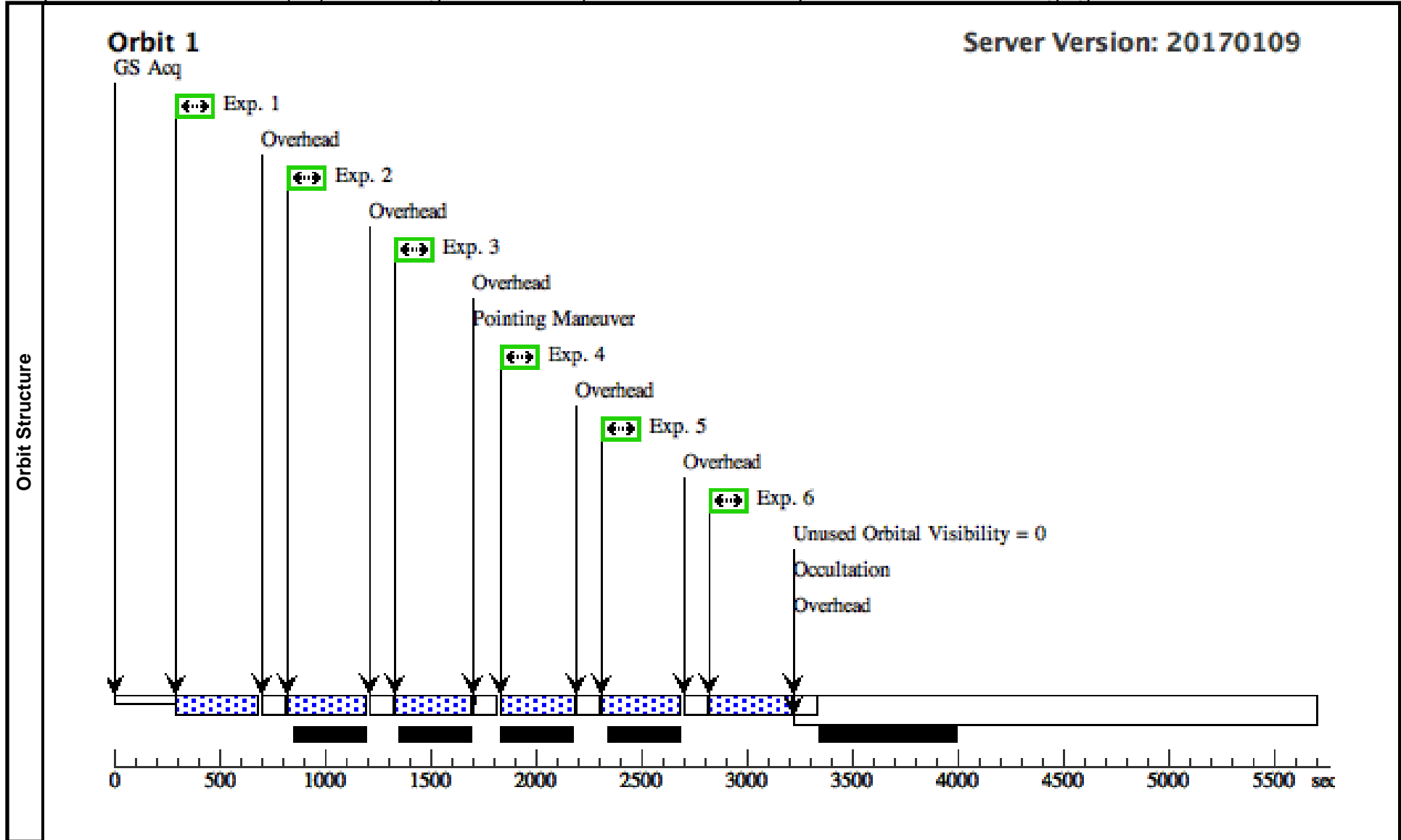




Proposal 14079 - T2 UVIS (26) - Unveiling the Dark Baryons II: the First Sample of OVI Emission Imaging

Fri May 05 01:01:16 GMT 2017

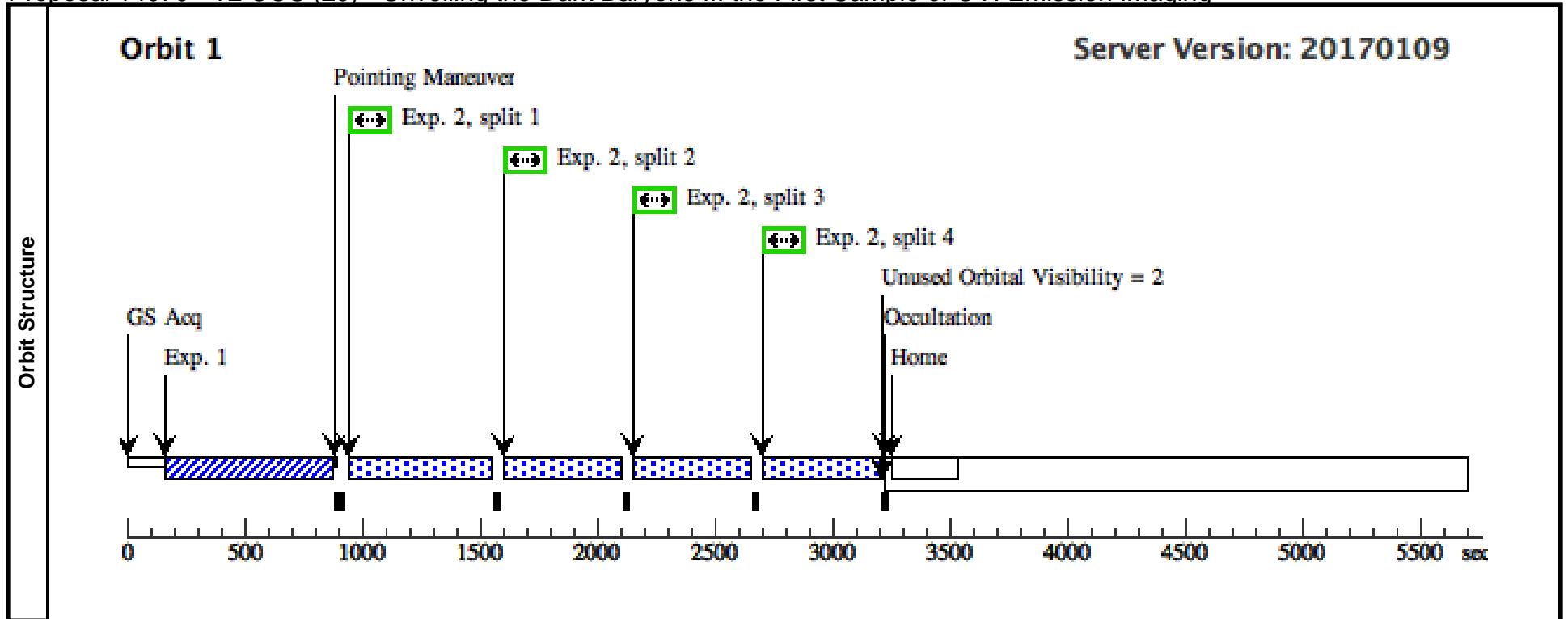
<b>Visit</b>	<b>Proposal 14079, T2 UVIS (26), completed</b> <b>Diagnostic Status: Warning</b> Scientific Instruments: WFC3/UVIS Special Requirements: (none)									
	(Exposure 2 (T2 UVIS (26))) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (Exposure 3 (T2 UVIS (26))) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (Exposure 4 (T2 UVIS (26))) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (Exposure 5 (T2 UVIS (26))) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser									
<b>Fixed Targets</b>	<b>#</b>	<b>Name</b>	<b>Target Coordinates</b>	<b>Targ. Coord. Corrections</b>	<b>Fluxes</b>	<b>Miscellaneous</b>				
	(2)	SDSS-J124814.83+155829.3	RA: 12 48 14.8300 (192.0617917d) Dec: +15 58 29.38 (15.97483d) Equinox: J2000		V=19.9+/-0.2 log L_FUV / Lsun = 10.4	Reference Frame: ICRS				
<i>Comments: Extended=YES</i>										
<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	(714826)	(2) SDSS-J124814.83+155829.3	WFC3/UVIS, ACCUM, UVIS2	F390W	FLASH=9	GS ACQ SCENARI O BASE1B3		365 Secs (365 Secs) [==>]	[1]
	2	(714832)	(2) SDSS-J124814.83+155829.3	WFC3/UVIS, ACCUM, UVIS2	F475W	FLASH=3			348 Secs (348 Secs) [==>]	[1]
	3	(714835)	(2) SDSS-J124814.83+155829.3	WFC3/UVIS, ACCUM, UVIS2	F850LP	FLASH=8			348 Secs (348 Secs) [==>]	[1]
	4	(714835)	(2) SDSS-J124814.83+155829.3	WFC3/UVIS, ACCUM, UVIS2	F850LP	FLASH=8	POS TARG 0.158,0.070		348 Secs (348 Secs) [==>]	[1]
	5	(714832)	(2) SDSS-J124814.83+155829.3	WFC3/UVIS, ACCUM, UVIS2	F475W	FLASH=3	POS TARG 0.158,0.070		348 Secs (348 Secs) [==>]	[1]
	6	(714826)	(2) SDSS-J124814.83+155829.3	WFC3/UVIS, ACCUM, UVIS2	F390W	FLASH=9	POS TARG 0.158,0.070		365 Secs (365 Secs) [==>]	[1]



Proposal 14079 - T2 COS (29) - Unveiling the Dark Baryons II: the First Sample of OVI Emission Imaging

Fri May 05 01:01:16 GMT 2017

<b>Visit</b>	<p><b>Proposal 14079, T2 COS (29), completed</b></p> <p><b>Diagnostic Status: No Diagnostics</b></p> <p>Scientific Instruments: COS/FUV, COS/NUV</p> <p>Special Requirements: (none)</p> <p><i>Comments: Photometry that guides target acquisition and integration times is done with HST data from visits 21,22,23, and 26 of this program. Flux was measured on the brightest UV source in 0.2 arcsec (acquisition) and 1.25 arcsec (spectroscopic observation) apertures, in the F140LP and F390W filters. Then we interpolated (power-law) between the two, to lambda=2300 AA. Fluxes are quoted below. These numbers (and the beta slope) were entered into the acquisition and spectroscopic ETCs.</i></p> <p>HST Imaging Datasets for Photometry:                      F140LP : jctd21010                      F390W : ictd26010</p> <p>FUV full = 8.521 adu/sec = 2.3116e-16 cgs/AA                      FUV ACQ = 1.850 adu/sec = 5.0201e-17 cgs/AA                      Uband full = 102.079 adu/sec = 5.5532e-17 cgs/AA                      Uband ACQ = 25.545 adu/sec = 1.3897e-17 cgs/AA                      Beta full = -1.5123                      Beta ACQ = -1.3620</p> <p>COS/NUV full = 1.4516e-16 cgs/AA                      COS/NUV ACQ = 3.3017e-17 cgs/AA</p>																																							
	<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>(5)</td> <td>J1248+1558-COSPOINT</td> <td>RA: 12 48 14.8248 (192.0617700d) Dec: +15 58 29.46 (15.97485d) Equinox: J2000</td> <td></td> <td>V=19.9+/-0.2 log L_FUV / Lsun = 10.4</td> <td>Reference Frame: ICRS</td> </tr> </tbody> </table> <p><i>Comments: Extended=NO</i></p>										#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous	(5)	J1248+1558-COSPOINT	RA: 12 48 14.8248 (192.0617700d) Dec: +15 58 29.46 (15.97485d) Equinox: J2000		V=19.9+/-0.2 log L_FUV / Lsun = 10.4	Reference Frame: ICRS																		
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Proposal 14079 - T3 SBC up (31) - Unveiling the Dark Baryons II: the First Sample of OVI Emission Imaging

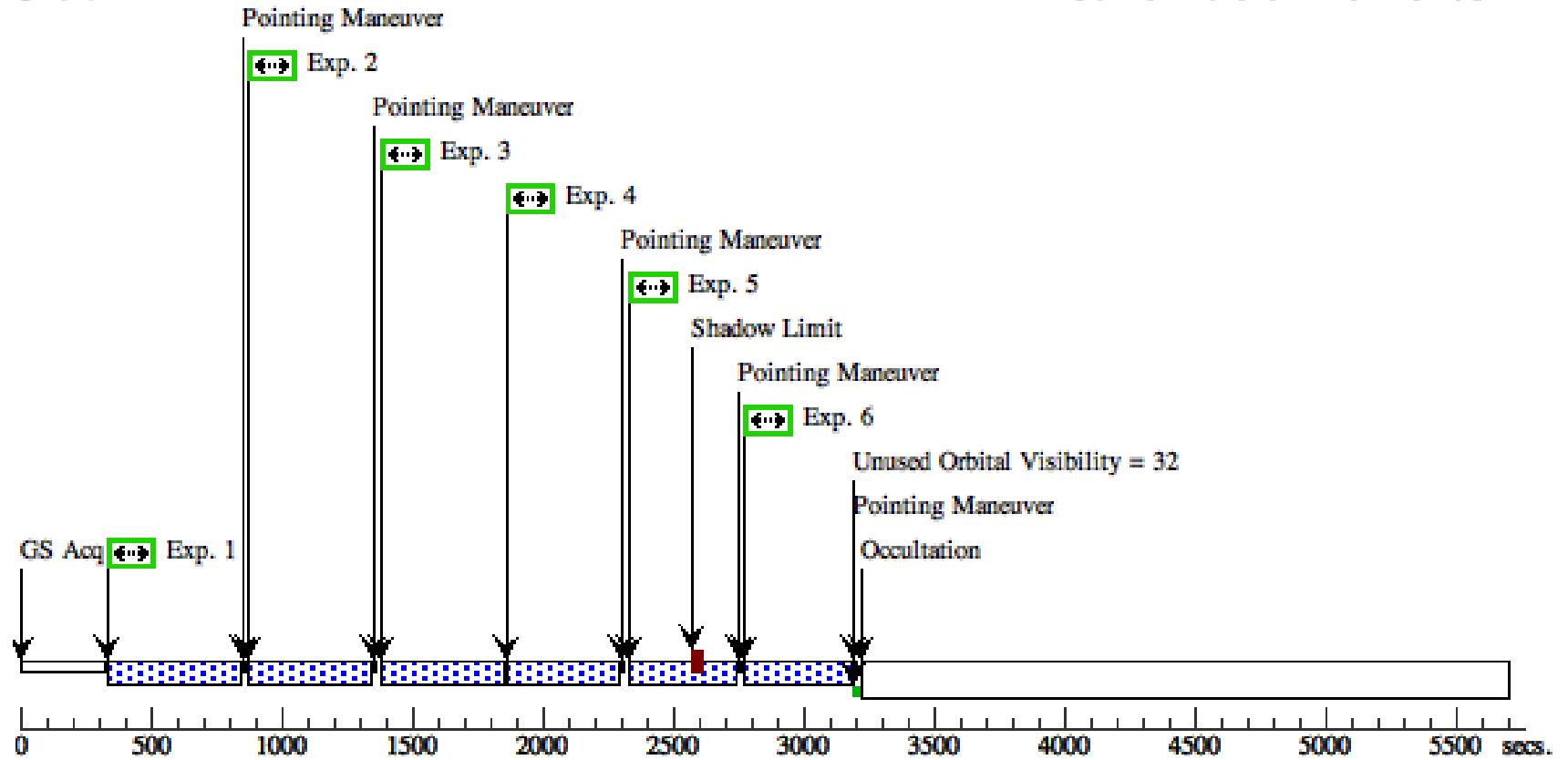
Fri May 05 01:01:16 GMT 2017

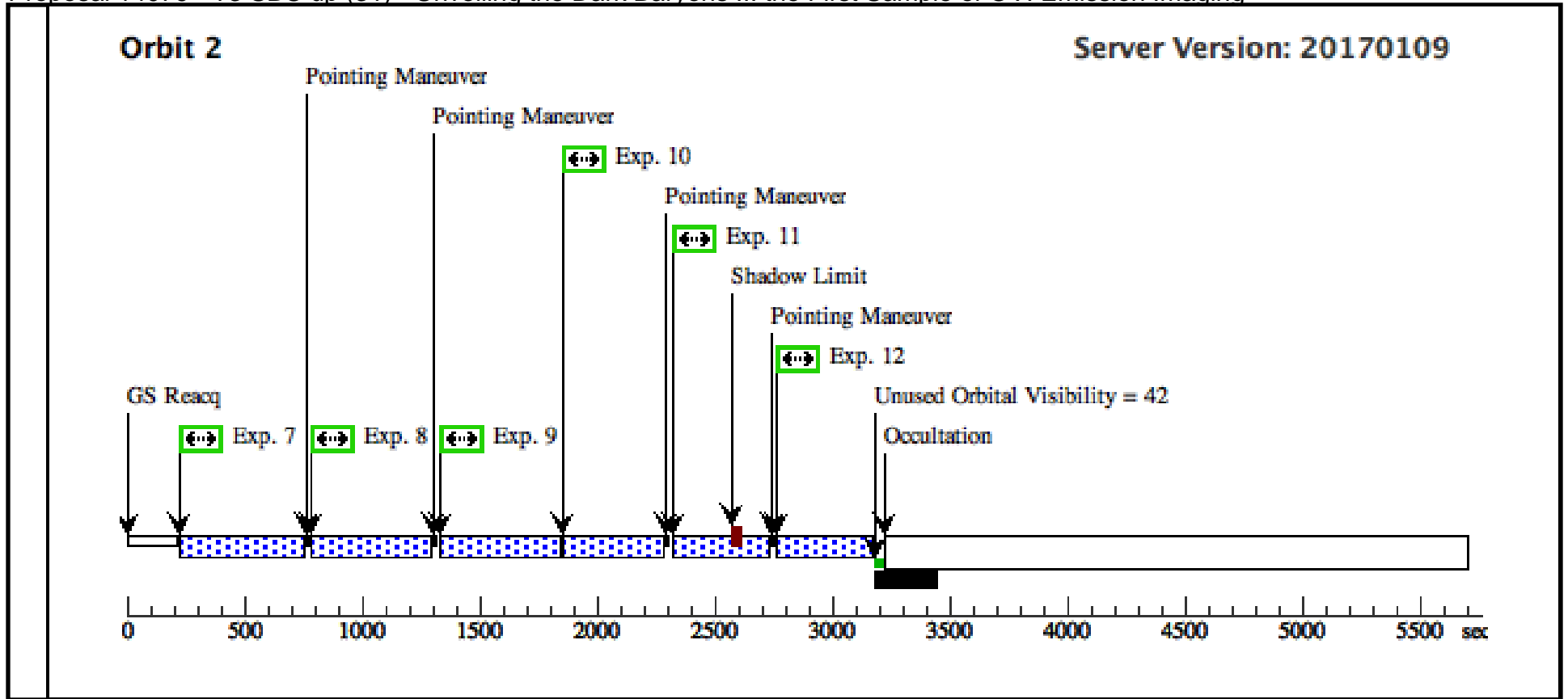
<b>Visit</b>	<b>Proposal 14079, T3 SBC up (31), completed</b> <b>Diagnostic Status: Warning</b> Scientific Instruments: ACS/SBC Special Requirements: (none) <i>Comments: This SBC visit depends critically upon the level of dark current. Please schedule only when the SBC has not been used in the previous 24 hours, so the amplifiers have cooled.</i>								
	<b>Diagnosics</b> (T3 SBC up (31)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN (T3 SBC up (31)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN (T3 SBC up (31)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN (T3 SBC up (31)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN								
<b>Fixed Targets</b>	# <b>Name</b> <b>Target Coordinates</b> <b>Targ. Coord. Corrections</b> <b>Fluxes</b> <b>Miscellaneous</b>	(3)      SDSS- J111211.07+273256.2      RA: 11 12 11.1060 (168.0462750d) Dec: +27 32 56.16 (27.54893d) Equinox: J2000 V=17.8+/-0.2      Reference Frame: ICRS log L_FUV / Lsun = 10.8 <i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> Extended=YES							
	<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      (714812)      (3) SDSS-J111211.0 7+273256.2      ACS/SBC, ACCUM, SBC-FIX      F140LP      POS TARG -4.032 , 4.4955      440 Secs (440 Secs)      [1]							
	2      (714812)      (3) SDSS-J111211.0      ACS/SBC, ACCUM, SBC-FIX      F140LP      POS TARG 0.0112,4 7+273256.2      .8063      440 Secs (440 Secs)      [1]								
	3      (714812)      (3) SDSS-J111211.0      ACS/SBC, ACCUM, SBC-FIX      F140LP      POS TARG 4.0544,5 7+273256.2      .1171      440 Secs (440 Secs)      [1]								
	4      (714811)      (3) SDSS-J111211.0      ACS/SBC, ACCUM, SBC-FIX      F125LP      SAME POS AS 3; 7+273256.2      SHADOW      380 Secs (380 Secs)      [1]								
	5      (714811)      (3) SDSS-J111211.0      ACS/SBC, ACCUM, SBC-FIX      F125LP      SAME POS AS 2; 7+273256.2      SHADOW      380 Secs (380 Secs)      [1]								
	6      (714811)      (3) SDSS-J111211.0      ACS/SBC, ACCUM, SBC-FIX      F125LP      SAME POS AS 1; 7+273256.2      SHADOW      380 Secs (380 Secs)      [1]								
	7      (714812)      (3) SDSS-J111211.0      ACS/SBC, ACCUM, SBC-FIX      F140LP      POS TARG -4.0152, 7+273256.2      3.51315      480 Secs (480 Secs)      [2]								
	8      (714812)      (3) SDSS-J111211.0      ACS/SBC, ACCUM, SBC-FIX      F140LP      POS TARG 0.028,3. 7+273256.2      82395      480 Secs (480 Secs)      [2]								
	9      (714812)      (3) SDSS-J111211.0      ACS/SBC, ACCUM, SBC-FIX      F140LP      POS TARG 4.0712,4 7+273256.2      .13475      480 Secs (480 Secs)      [2]								
	10      (714811)      (3) SDSS-J111211.0      ACS/SBC, ACCUM, SBC-FIX      F125LP      SAME POS AS 9; 7+273256.2      SHADOW      380 Secs (380 Secs)      [2]								
	11      (714811)      (3) SDSS-J111211.0      ACS/SBC, ACCUM, SBC-FIX      F125LP      SAME POS AS 8; 7+273256.2      SHADOW      380 Secs (380 Secs)      [2]								
	12      (714811)      (3) SDSS-J111211.0      ACS/SBC, ACCUM, SBC-FIX      F125LP      SAME POS AS 7; 7+273256.2      SHADOW      380 Secs (380 Secs)      [2]								

**Orbit 1**

Server Version: 20170109

Orbit Structure





Proposal 14079 - T3 SBC mid (32) - Unveiling the Dark Baryons II: the First Sample of OVI Emission Imaging

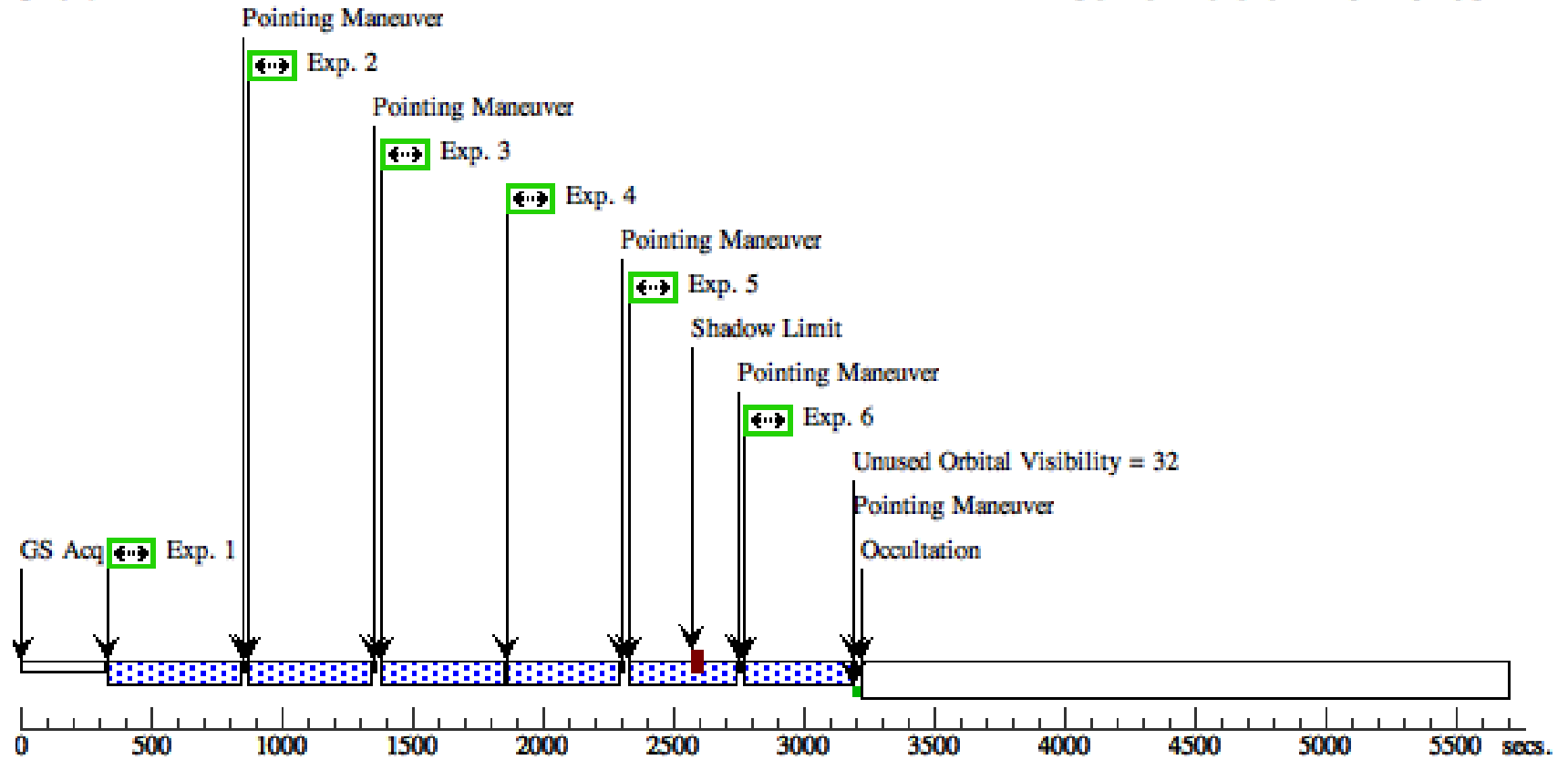
Fri May 05 01:01:16 GMT 2017

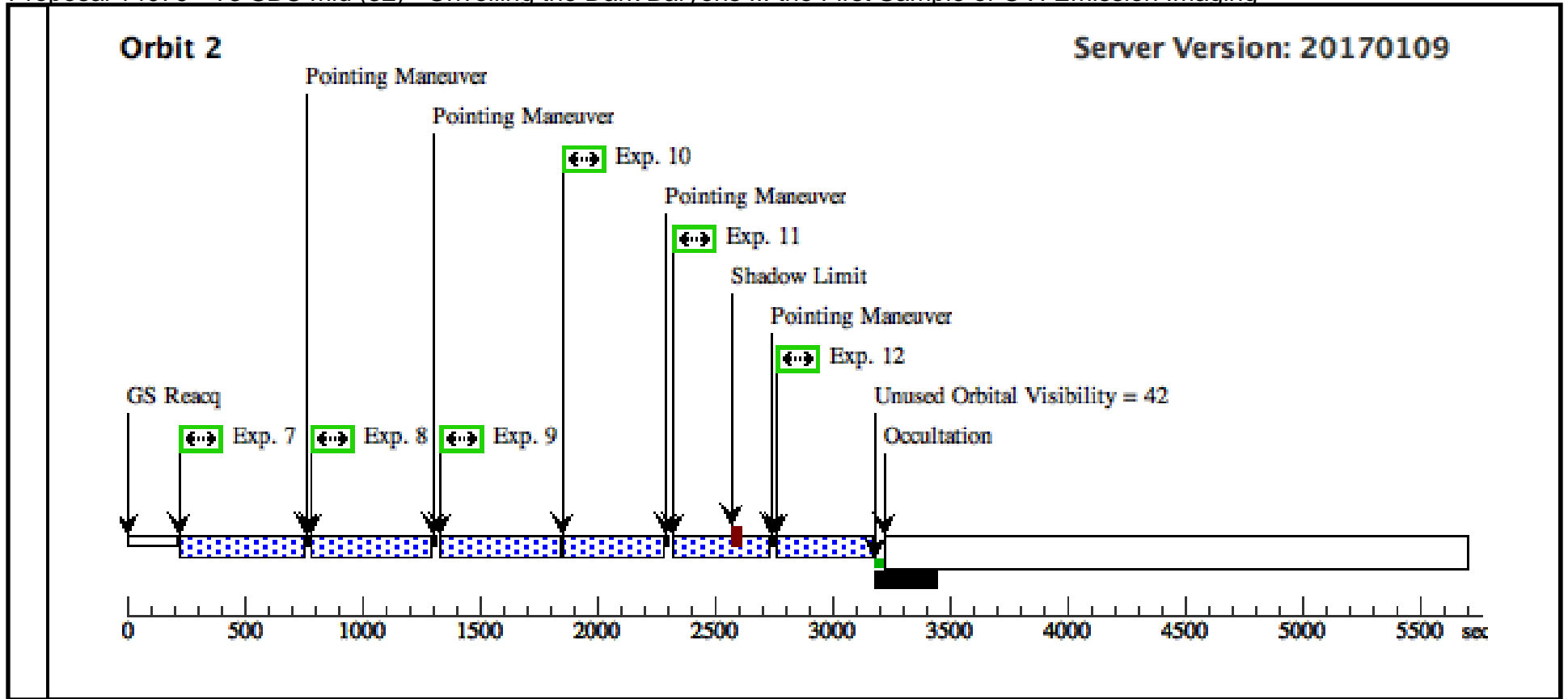
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	<b>Diagnosics</b> (T3 SBC mid (32)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN (T3 SBC mid (32)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN (T3 SBC mid (32)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN (T3 SBC mid (32)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN									
<b>Fixed Targets</b>	# <b>Name</b> <b>Target Coordinates</b> <b>Targ. Coord. Corrections</b> <b>Fluxes</b> <b>Miscellaneous</b>	(3)      SDSS- J111211.07+273256.2      RA: 11 12 11.1060 (168.0462750d) Dec: +27 32 56.16 (27.54893d) Equinox: J2000 V=17.8+/-0.2 log L_FUV / Lsun = 10.8 Reference Frame: ICRS <i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> Extended=YES								
<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	(714812)	(3) SDSS-J111211.0 7+273256.2	ACS/SBC, ACCUM, SBC-FIX	F140LP		POS TARG -4.032,0 .4995		440 Secs (440 Secs) [==>]	[1]
	2	(714812)	(3) SDSS-J111211.0 7+273256.2	ACS/SBC, ACCUM, SBC-FIX	F140LP		POS TARG 0.0112,0 .8103		440 Secs (440 Secs) [==>]	[1]
	3	(714812)	(3) SDSS-J111211.0 7+273256.2	ACS/SBC, ACCUM, SBC-FIX	F140LP		POS TARG 4.0544,1 .1211		440 Secs (440 Secs) [==>]	[1]
	4	(714811)	(3) SDSS-J111211.0 7+273256.2	ACS/SBC, ACCUM, SBC-FIX	F125LP		SAME POS AS 3; SHADOW		380 Secs (380 Secs) [==>]	[1]
	5	(714811)	(3) SDSS-J111211.0 7+273256.2	ACS/SBC, ACCUM, SBC-FIX	F125LP		SAME POS AS 2; SHADOW		380 Secs (380 Secs) [==>]	[1]
	6	(714811)	(3) SDSS-J111211.0 7+273256.2	ACS/SBC, ACCUM, SBC-FIX	F125LP		SAME POS AS 1; SHADOW		380 Secs (380 Secs) [==>]	[1]
	7	(714812)	(3) SDSS-J111211.0 7+273256.2	ACS/SBC, ACCUM, SBC-FIX	F140LP		POS TARG -4.0152, -0.48285		480 Secs (480 Secs) [==>]	[2]
	8	(714812)	(3) SDSS-J111211.0 7+273256.2	ACS/SBC, ACCUM, SBC-FIX	F140LP		POS TARG 0.028,-0 .17205		480 Secs (480 Secs) [==>]	[2]
	9	(714812)	(3) SDSS-J111211.0 7+273256.2	ACS/SBC, ACCUM, SBC-FIX	F140LP		POS TARG 4.0712,0 .13875		480 Secs (480 Secs) [==>]	[2]
	10	(714811)	(3) SDSS-J111211.0 7+273256.2	ACS/SBC, ACCUM, SBC-FIX	F125LP		SAME POS AS 9; SHADOW		380 Secs (380 Secs) [==>]	[2]
	11	(714811)	(3) SDSS-J111211.0 7+273256.2	ACS/SBC, ACCUM, SBC-FIX	F125LP		SAME POS AS 8; SHADOW		380 Secs (380 Secs) [==>]	[2]
12	(714811)	(3) SDSS-J111211.0 7+273256.2	ACS/SBC, ACCUM, SBC-FIX	F125LP		SAME POS AS 7; SHADOW		380 Secs (380 Secs) [==>]	[2]	

**Orbit 1**

Server Version: 20170109

Orbit Structure





Proposal 14079 - T3 SBC low (33) - Unveiling the Dark Baryons II: the First Sample of OVI Emission Imaging

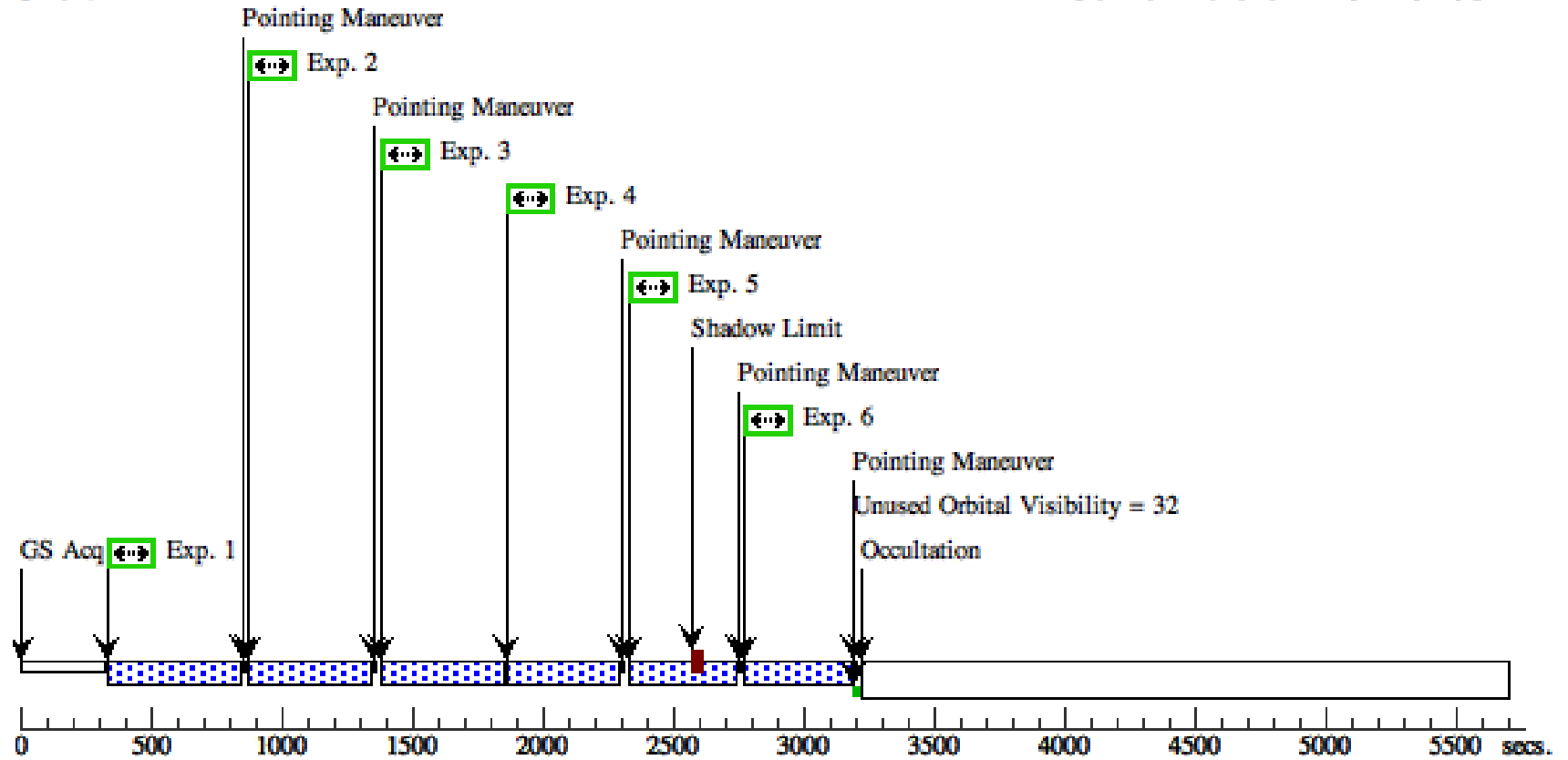
Fri May 05 01:01:16 GMT 2017

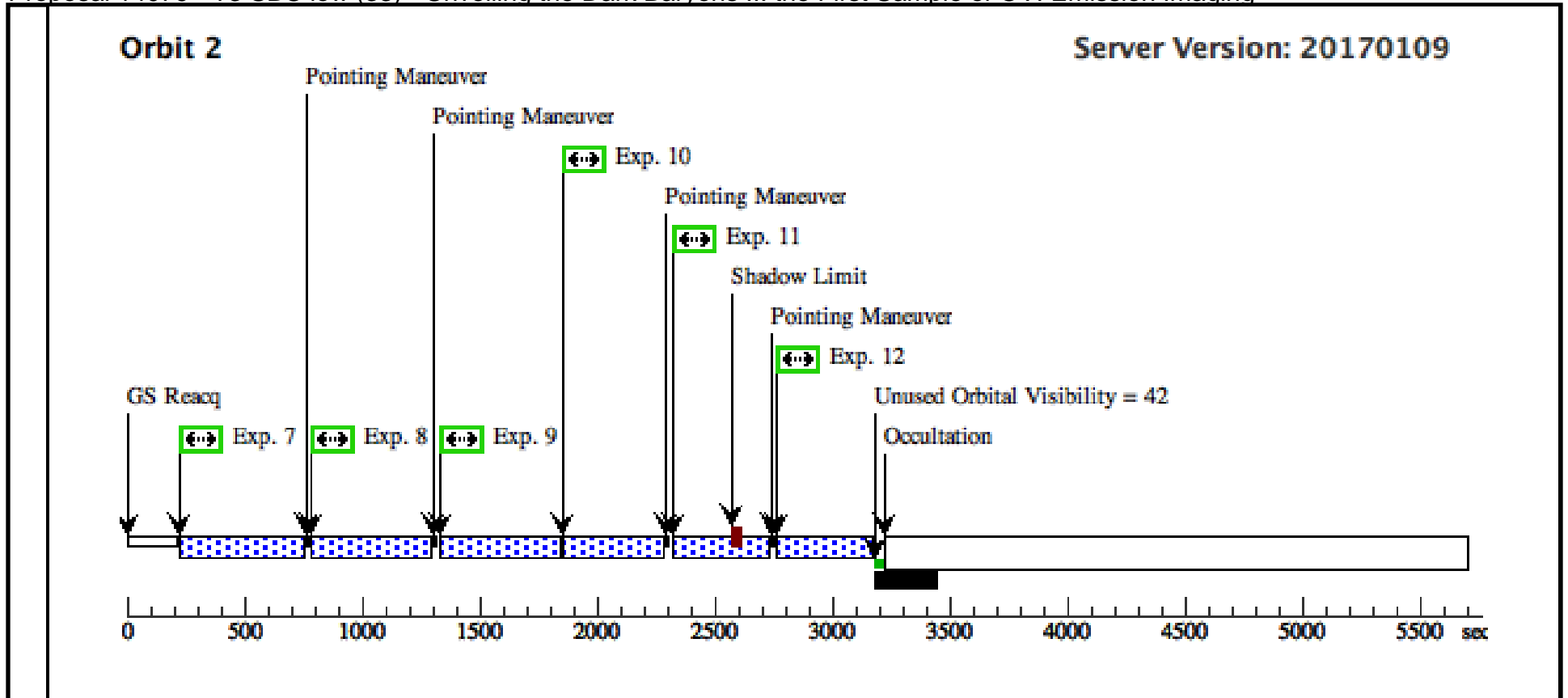
<b>Visit</b>	<b>Proposal 14079, T3 SBC low (33), completed</b> <b>Diagnostic Status: Warning</b> Scientific Instruments: ACS/SBC Special Requirements: (none) <i>Comments: This SBC visit depends critically upon the level of dark current. Please schedule only when the SBC has not been used in the previous 24 hours, so the amplifiers have cooled.</i>																																																																																																																																										
	<b>Diagnosics</b> (T3 SBC low (33)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN (T3 SBC low (33)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN (T3 SBC low (33)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN (T3 SBC low (33)) 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>(3)</td> <td>SDSS-J111211.07+273256.2</td> <td>RA: 11 12 11.1060 (168.0462750d) Dec: +27 32 56.16 (27.54893d) Equinox: J2000</td> <td></td> <td>V=17.8+/-0.2 log L_FUV / Lsun = 10.8</td> <td>Reference Frame: ICRS</td> </tr> </tbody> </table> <p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> Extended=YES</p>										#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous	(3)	SDSS-J111211.07+273256.2	RA: 11 12 11.1060 (168.0462750d) Dec: +27 32 56.16 (27.54893d) Equinox: J2000		V=17.8+/-0.2 log L_FUV / Lsun = 10.8	Reference Frame: ICRS																																																																																																																					
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<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>(714812)</td> <td>(3) SDSS-J111211.07+273256.2</td> <td>ACS/SBC, ACCUM, SBC-FIX</td> <td>F140LP</td> <td></td> <td>POS TARG -4.032,-3.4965</td> <td></td> <td>440 Secs (440 Secs) [==&gt;]</td> <td>[1]</td> </tr> <tr> <td>2</td> <td>(714812)</td> <td>(3) SDSS-J111211.07+273256.2</td> <td>ACS/SBC, ACCUM, SBC-FIX</td> <td>F140LP</td> <td></td> <td>POS TARG 0.0112,-3.1857</td> <td></td> <td>440 Secs (440 Secs) [==&gt;]</td> <td>[1]</td> </tr> <tr> <td>3</td> <td>(714812)</td> <td>(3) SDSS-J111211.07+273256.2</td> <td>ACS/SBC, ACCUM, SBC-FIX</td> <td>F140LP</td> <td></td> <td>POS TARG 4.0544,-2.8749</td> <td></td> <td>440 Secs (440 Secs) [==&gt;]</td> <td>[1]</td> </tr> <tr> <td>4</td> <td>(714811)</td> <td>(3) SDSS-J111211.07+273256.2</td> <td>ACS/SBC, ACCUM, SBC-FIX</td> <td>F125LP</td> <td></td> <td>SAME POS AS 3; SHADOW</td> <td></td> <td>380 Secs (380 Secs) [==&gt;]</td> <td>[1]</td> </tr> <tr> <td>5</td> <td>(714811)</td> <td>(3) SDSS-J111211.07+273256.2</td> <td>ACS/SBC, ACCUM, SBC-FIX</td> <td>F125LP</td> <td></td> <td>SAME POS AS 2; SHADOW</td> <td></td> <td>380 Secs (380 Secs) [==&gt;]</td> <td>[1]</td> </tr> <tr> <td>6</td> <td>(714811)</td> <td>(3) SDSS-J111211.07+273256.2</td> <td>ACS/SBC, ACCUM, SBC-FIX</td> <td>F125LP</td> <td></td> <td>SAME POS AS 1; SHADOW</td> <td></td> <td>380 Secs (380 Secs) [==&gt;]</td> <td>[1]</td> </tr> <tr> <td>7</td> <td>(714812)</td> <td>(3) SDSS-J111211.07+273256.2</td> <td>ACS/SBC, ACCUM, SBC-FIX</td> <td>F140LP</td> <td></td> <td>POS TARG -4.0152,-4.47885</td> <td></td> <td>480 Secs (480 Secs) [==&gt;]</td> <td>[2]</td> </tr> <tr> <td>8</td> <td>(714812)</td> <td>(3) SDSS-J111211.07+273256.2</td> <td>ACS/SBC, ACCUM, SBC-FIX</td> <td>F140LP</td> <td></td> <td>POS TARG 0.028,-4.16805</td> <td></td> <td>480 Secs (480 Secs) [==&gt;]</td> <td>[2]</td> </tr> <tr> <td>9</td> <td>(714812)</td> <td>(3) SDSS-J111211.07+273256.2</td> <td>ACS/SBC, ACCUM, SBC-FIX</td> <td>F140LP</td> <td></td> <td>POS TARG 4.0712,-3.85725</td> <td></td> <td>480 Secs (480 Secs) [==&gt;]</td> <td>[2]</td> </tr> <tr> <td>10</td> <td>(714811)</td> <td>(3) SDSS-J111211.07+273256.2</td> <td>ACS/SBC, ACCUM, SBC-FIX</td> <td>F125LP</td> <td></td> <td>SAME POS AS 9; SHADOW</td> <td></td> <td>380 Secs (380 Secs) [==&gt;]</td> <td>[2]</td> </tr> <tr> <td>11</td> <td>(714811)</td> <td>(3) SDSS-J111211.07+273256.2</td> <td>ACS/SBC, ACCUM, SBC-FIX</td> <td>F125LP</td> <td></td> <td>SAME POS AS 8; SHADOW</td> <td></td> <td>380 Secs (380 Secs) [==&gt;]</td> <td>[2]</td> </tr> <tr> <td>12</td> <td>(714811)</td> <td>(3) SDSS-J111211.07+273256.2</td> <td>ACS/SBC, ACCUM, SBC-FIX</td> <td>F125LP</td> <td></td> <td>SAME POS AS 7; SHADOW</td> <td></td> <td>380 Secs (380 Secs) [==&gt;]</td> <td>[2]</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	(714812)	(3) SDSS-J111211.07+273256.2	ACS/SBC, ACCUM, SBC-FIX	F140LP		POS TARG -4.032,-3.4965		440 Secs (440 Secs) [==>]	[1]	2	(714812)	(3) SDSS-J111211.07+273256.2	ACS/SBC, ACCUM, SBC-FIX	F140LP		POS TARG 0.0112,-3.1857		440 Secs (440 Secs) [==>]	[1]	3	(714812)	(3) SDSS-J111211.07+273256.2	ACS/SBC, ACCUM, SBC-FIX	F140LP		POS TARG 4.0544,-2.8749		440 Secs (440 Secs) [==>]	[1]	4	(714811)	(3) SDSS-J111211.07+273256.2	ACS/SBC, ACCUM, SBC-FIX	F125LP		SAME POS AS 3; SHADOW		380 Secs (380 Secs) [==>]	[1]	5	(714811)	(3) SDSS-J111211.07+273256.2	ACS/SBC, ACCUM, SBC-FIX	F125LP		SAME POS AS 2; SHADOW		380 Secs (380 Secs) [==>]	[1]	6	(714811)	(3) SDSS-J111211.07+273256.2	ACS/SBC, ACCUM, SBC-FIX	F125LP		SAME POS AS 1; SHADOW		380 Secs (380 Secs) [==>]	[1]	7	(714812)	(3) SDSS-J111211.07+273256.2	ACS/SBC, ACCUM, SBC-FIX	F140LP		POS TARG -4.0152,-4.47885		480 Secs (480 Secs) [==>]	[2]	8	(714812)	(3) SDSS-J111211.07+273256.2	ACS/SBC, ACCUM, SBC-FIX	F140LP		POS TARG 0.028,-4.16805		480 Secs (480 Secs) [==>]	[2]	9	(714812)	(3) SDSS-J111211.07+273256.2	ACS/SBC, ACCUM, SBC-FIX	F140LP		POS TARG 4.0712,-3.85725		480 Secs (480 Secs) [==>]	[2]	10	(714811)	(3) SDSS-J111211.07+273256.2	ACS/SBC, ACCUM, SBC-FIX	F125LP		SAME POS AS 9; SHADOW		380 Secs (380 Secs) [==>]	[2]	11	(714811)	(3) SDSS-J111211.07+273256.2	ACS/SBC, ACCUM, SBC-FIX	F125LP		SAME POS AS 8; SHADOW		380 Secs (380 Secs) [==>]	[2]	12	(714811)	(3) SDSS-J111211.07+273256.2	ACS/SBC, ACCUM, SBC-FIX	F125LP		SAME POS AS 7; SHADOW		380 Secs (380 Secs) [==>]	[2]
#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit																																																																																																																																		
1	(714812)	(3) SDSS-J111211.07+273256.2	ACS/SBC, ACCUM, SBC-FIX	F140LP		POS TARG -4.032,-3.4965		440 Secs (440 Secs) [==>]	[1]																																																																																																																																		
2	(714812)	(3) SDSS-J111211.07+273256.2	ACS/SBC, ACCUM, SBC-FIX	F140LP		POS TARG 0.0112,-3.1857		440 Secs (440 Secs) [==>]	[1]																																																																																																																																		
3	(714812)	(3) SDSS-J111211.07+273256.2	ACS/SBC, ACCUM, SBC-FIX	F140LP		POS TARG 4.0544,-2.8749		440 Secs (440 Secs) [==>]	[1]																																																																																																																																		
4	(714811)	(3) SDSS-J111211.07+273256.2	ACS/SBC, ACCUM, SBC-FIX	F125LP		SAME POS AS 3; SHADOW		380 Secs (380 Secs) [==>]	[1]																																																																																																																																		
5	(714811)	(3) SDSS-J111211.07+273256.2	ACS/SBC, ACCUM, SBC-FIX	F125LP		SAME POS AS 2; SHADOW		380 Secs (380 Secs) [==>]	[1]																																																																																																																																		
6	(714811)	(3) SDSS-J111211.07+273256.2	ACS/SBC, ACCUM, SBC-FIX	F125LP		SAME POS AS 1; SHADOW		380 Secs (380 Secs) [==>]	[1]																																																																																																																																		
7	(714812)	(3) SDSS-J111211.07+273256.2	ACS/SBC, ACCUM, SBC-FIX	F140LP		POS TARG -4.0152,-4.47885		480 Secs (480 Secs) [==>]	[2]																																																																																																																																		
8	(714812)	(3) SDSS-J111211.07+273256.2	ACS/SBC, ACCUM, SBC-FIX	F140LP		POS TARG 0.028,-4.16805		480 Secs (480 Secs) [==>]	[2]																																																																																																																																		
9	(714812)	(3) SDSS-J111211.07+273256.2	ACS/SBC, ACCUM, SBC-FIX	F140LP		POS TARG 4.0712,-3.85725		480 Secs (480 Secs) [==>]	[2]																																																																																																																																		
10	(714811)	(3) SDSS-J111211.07+273256.2	ACS/SBC, ACCUM, SBC-FIX	F125LP		SAME POS AS 9; SHADOW		380 Secs (380 Secs) [==>]	[2]																																																																																																																																		
11	(714811)	(3) SDSS-J111211.07+273256.2	ACS/SBC, ACCUM, SBC-FIX	F125LP		SAME POS AS 8; SHADOW		380 Secs (380 Secs) [==>]	[2]																																																																																																																																		
12	(714811)	(3) SDSS-J111211.07+273256.2	ACS/SBC, ACCUM, SBC-FIX	F125LP		SAME POS AS 7; SHADOW		380 Secs (380 Secs) [==>]	[2]																																																																																																																																		

**Orbit 1**

Server Version: 20170109

Orbit Structure

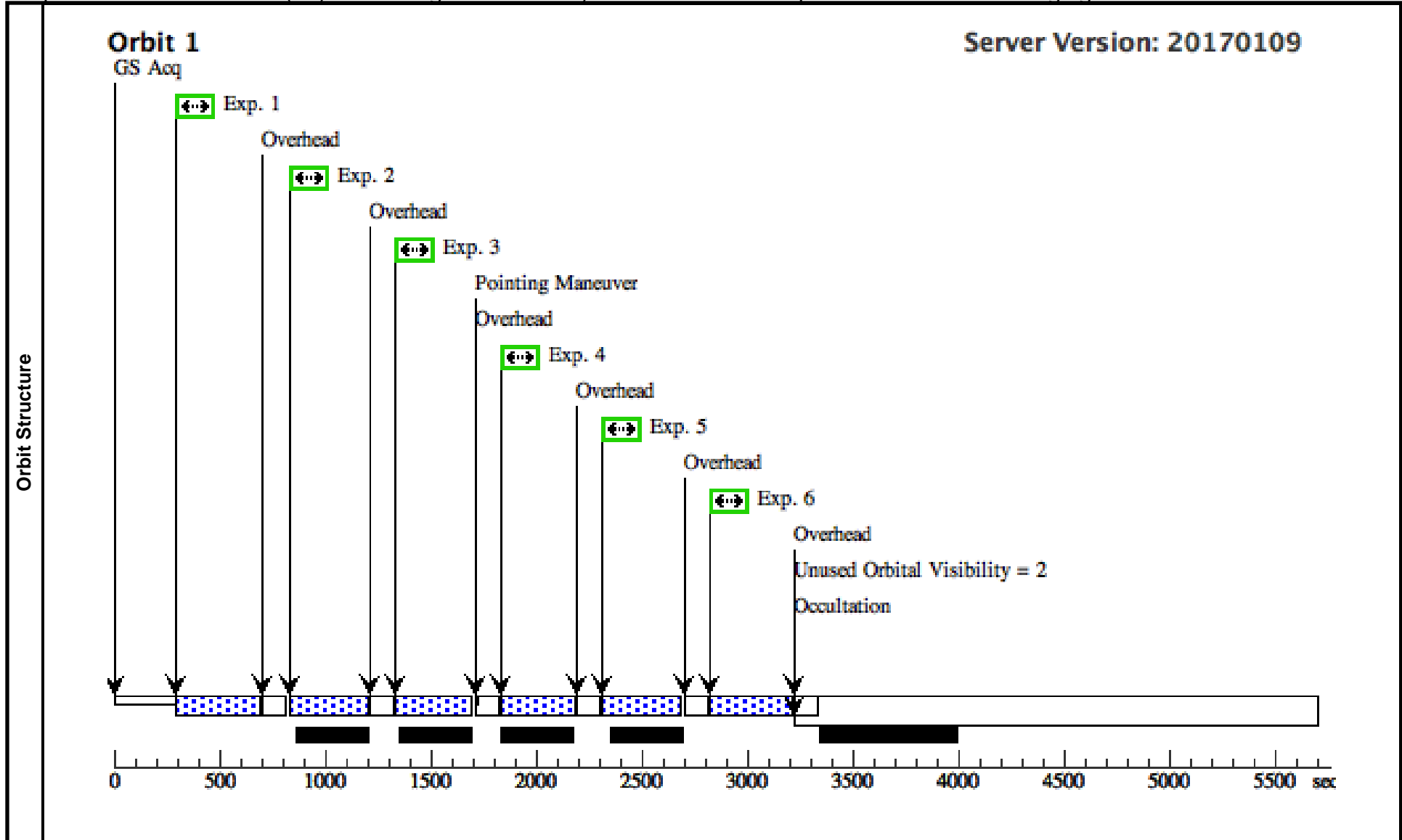




Proposal 14079 - T3 UVIS (36) - Unveiling the Dark Baryons II: the First Sample of OVI Emission Imaging

Fri May 05 01:01:16 GMT 2017

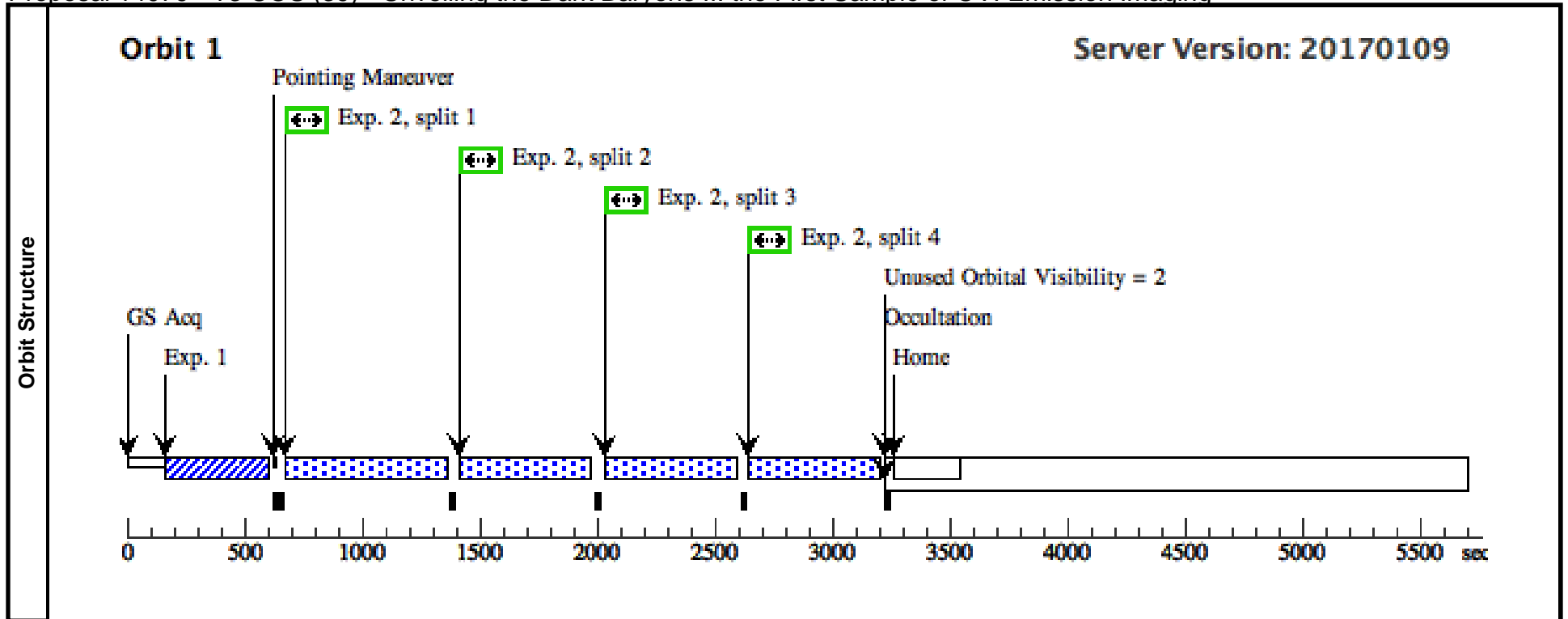
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	(Exposure 2 (T3 UVIS (36))) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (Exposure 3 (T3 UVIS (36))) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (Exposure 4 (T3 UVIS (36))) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (Exposure 5 (T3 UVIS (36))) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser									
<b>Fixed Targets</b>	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(3)	SDSS-J111211.07+273256.2	RA: 11 12 11.1060 (168.0462750d) Dec: +27 32 56.16 (27.54893d) Equinox: J2000		V=17.8+/-0.2 log L_FUV / Lsun = 10.8	Reference Frame: ICRS				
<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. Extended=YES</i>										
<b>Exposures</b>	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(714827)	(3) SDSS-J111211.07+273256.2	WFC3/UVIS, ACCUM, UVIS2	F390W	FLASH=9			368 Secs (368 Secs) [==>]	[1]
	2	(714832)	(3) SDSS-J111211.07+273256.2	WFC3/UVIS, ACCUM, UVIS2	F475W	FLASH=3			348 Secs (348 Secs) [==>]	[1]
	3	(714835)	(3) SDSS-J111211.07+273256.2	WFC3/UVIS, ACCUM, UVIS2	F850LP	FLASH=8			348 Secs (348 Secs) [==>]	[1]
	4	(714835)	(3) SDSS-J111211.07+273256.2	WFC3/UVIS, ACCUM, UVIS2	F850LP	FLASH=8	POS TARG 0.158,0.070		348 Secs (348 Secs) [==>]	[1]
	5	(714832)	(3) SDSS-J111211.07+273256.2	WFC3/UVIS, ACCUM, UVIS2	F475W	FLASH=3	POS TARG 0.158,0.070		348 Secs (348 Secs) [==>]	[1]
	6	(714827)	(3) SDSS-J111211.07+273256.2	WFC3/UVIS, ACCUM, UVIS2	F390W	FLASH=9	POS TARG 0.158,0.070		368 Secs (368 Secs) [==>]	[1]



Proposal 14079 - T3 COS (39) - Unveiling the Dark Baryons II: the First Sample of OVI Emission Imaging

Fri May 05 01:01:16 GMT 2017

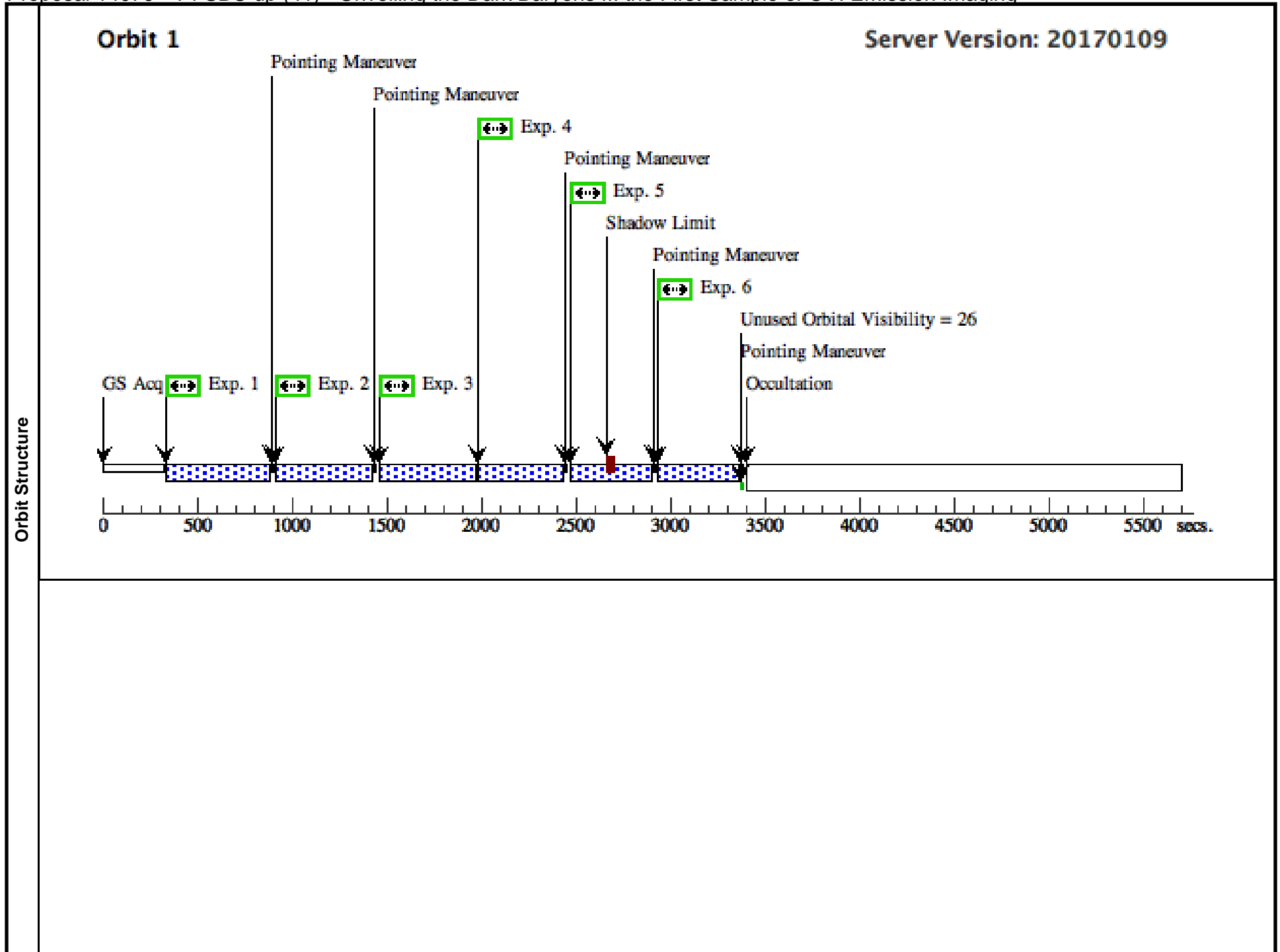
<b>Visit</b>	<p><b>Proposal 14079, T3 COS (39), implementation</b></p> <p><b>Diagnostic Status: No Diagnostics</b></p> <p>Scientific Instruments: COS/FUV, COS/NUV</p> <p>Special Requirements: (none)</p> <p><i>Comments: Photometry that guides target acquisition and integration times is done with HST data from visits 31 and 36 of this program. Flux was measured on the brightest UV source in 0.2 arcsec (acquisition) and 1.25 arcsec (spectroscopic observation) apertures, in the F140LP and F390W filters. Then we interpolated (power-law) between the two, to lambda=2300 AA. Fluxes are quoted below. These numbers (and the beta slope) were entered into the acquisition and spectroscopic ETCs.</i></p> <p>HST Imaging Datasets for Photometry:                      F140LP : jctd31010                      F390W : ictd36010</p> <p>FUV full = 18.159 adu/sec = 4.9262e-16 cgs/AA                      FUV ACQ = 3.710 adu/sec = 1.0064e-16 cgs/AA</p> <p>Uband full = 389.931 adu/sec = 2.1213e-16 cgs/AA                      Uband ACQ = 71.130 adu/sec = 3.8696e-17 cgs/AA</p> <p>COS/NUV full = 3.7423e-16 cgs/AA                      COS/NUV ACQ = 7.368e-17 cgs/AA</p>																										
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	1	(COS.ta.993 278)	(8) J1112+2732-CO SPOINT	COS/NUV, ACQ/IMAGE, PSA	MIRRORA				108 Secs (108 Secs)																		
	2	(COS.sp.993 279)	(8) J1112+2732-CO SPOINT	COS/FUV, TIME-TAG, PSA	G130M 1318 A	FP-POS=ALL; FLASH=YES; BUFFER-TIME=54 96			511 Secs (2044 Secs) [==>(Split 1)] [==>(Split 2)] [==>(Split 3)] [==>(Split 4)]	[1]																	

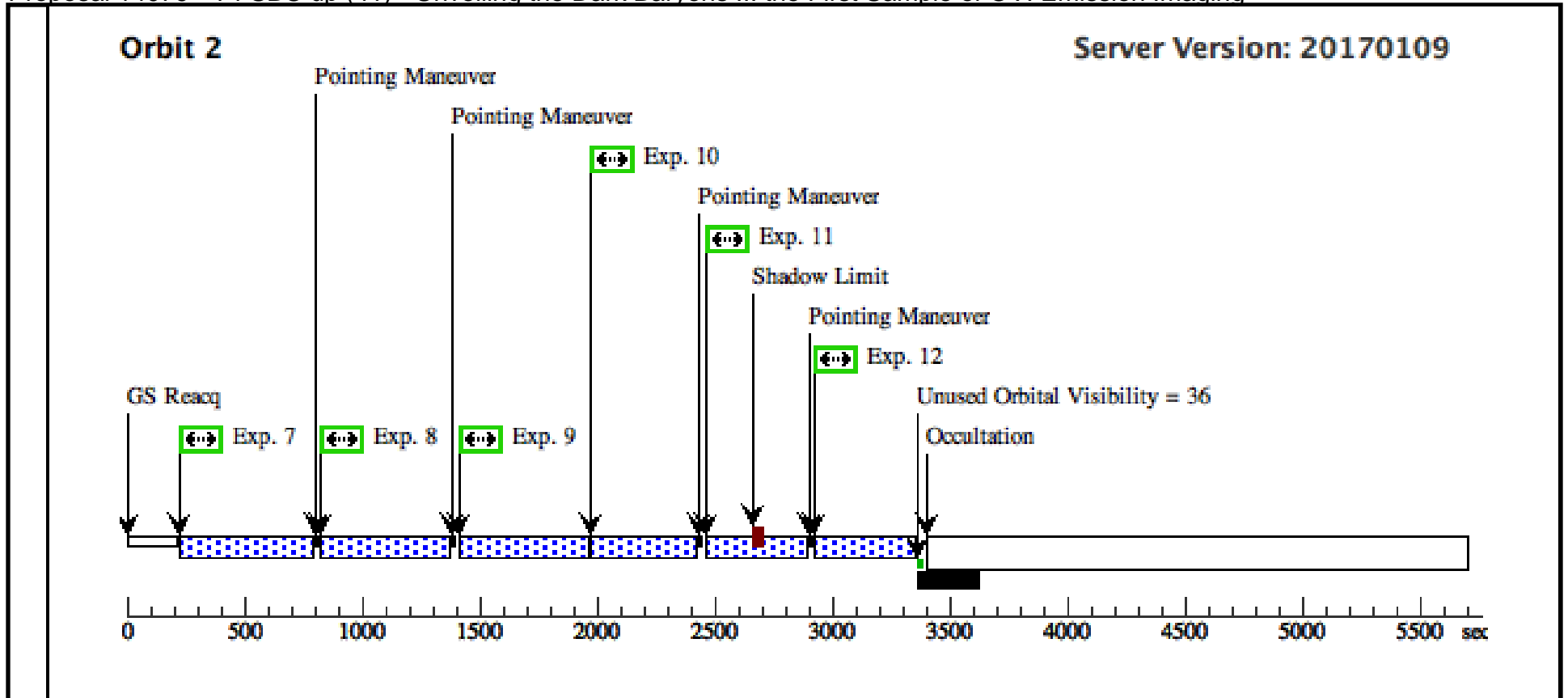


Proposal 14079 - T4 SBC up (41) - Unveiling the Dark Baryons II: the First Sample of OVI Emission Imaging

Fri May 05 01:01:16 GMT 2017

<b>Visit</b>	<b>Proposal 14079, T4 SBC up (41), completed</b> <b>Diagnostic Status: Warning</b> Scientific Instruments: ACS/SBC Special Requirements: (none) <i>Comments: This SBC visit depends critically upon the level of dark current. Please schedule only when the SBC has not been used in the previous 24 hours, so the amplifiers have cooled.</i>																																																																																																																																										
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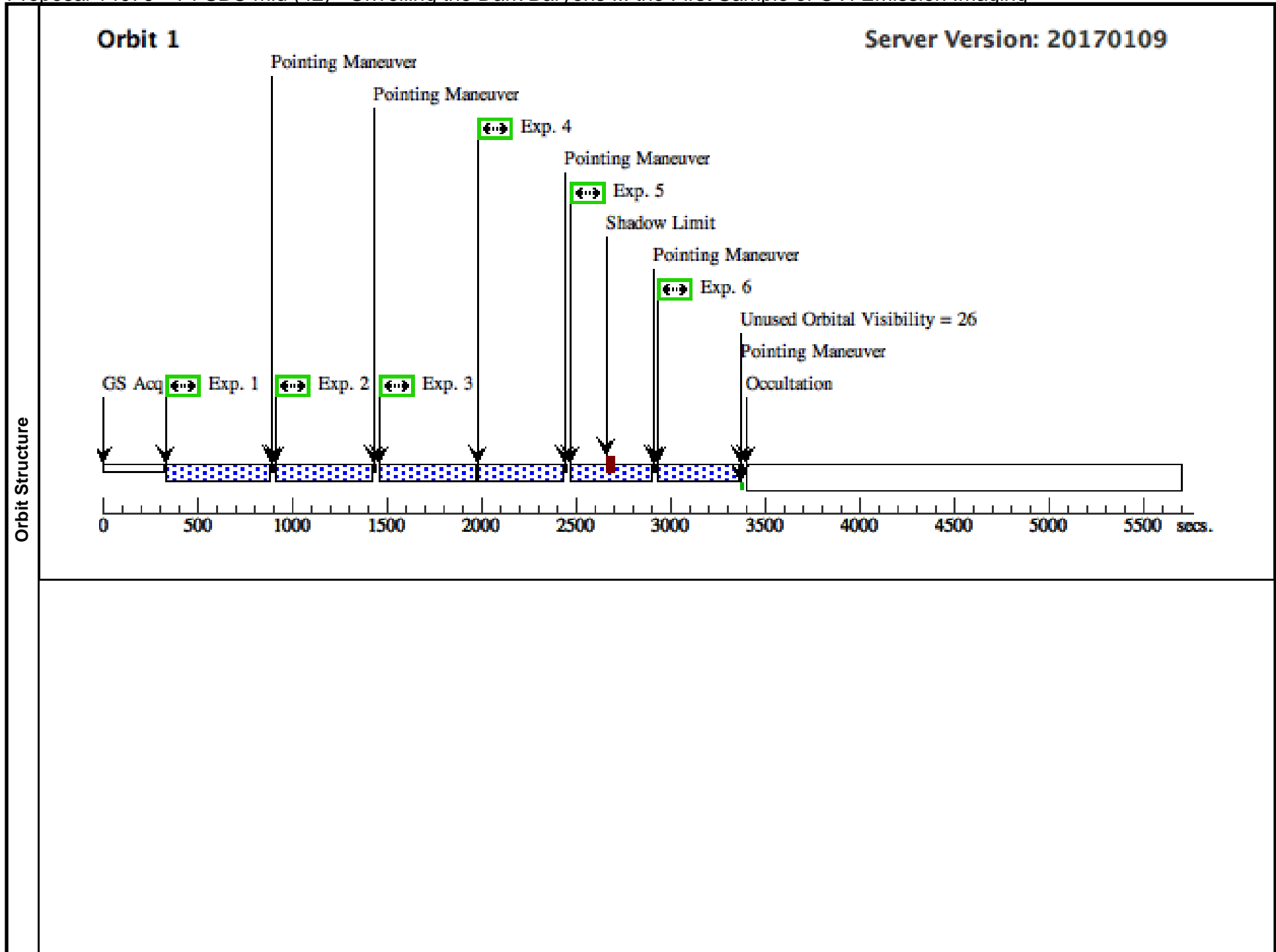


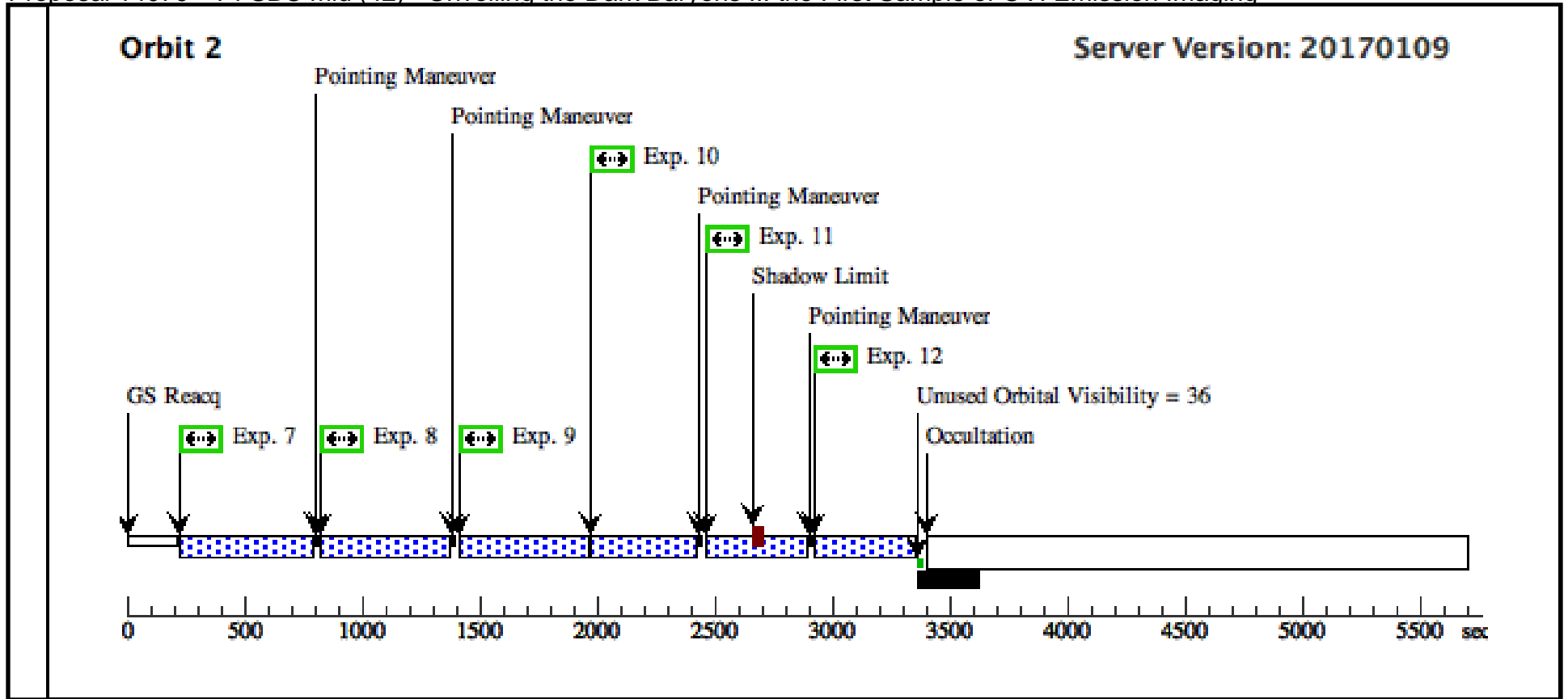


Proposal 14079 - T4 SBC mid (42) - Unveiling the Dark Baryons II: the First Sample of OVI Emission Imaging

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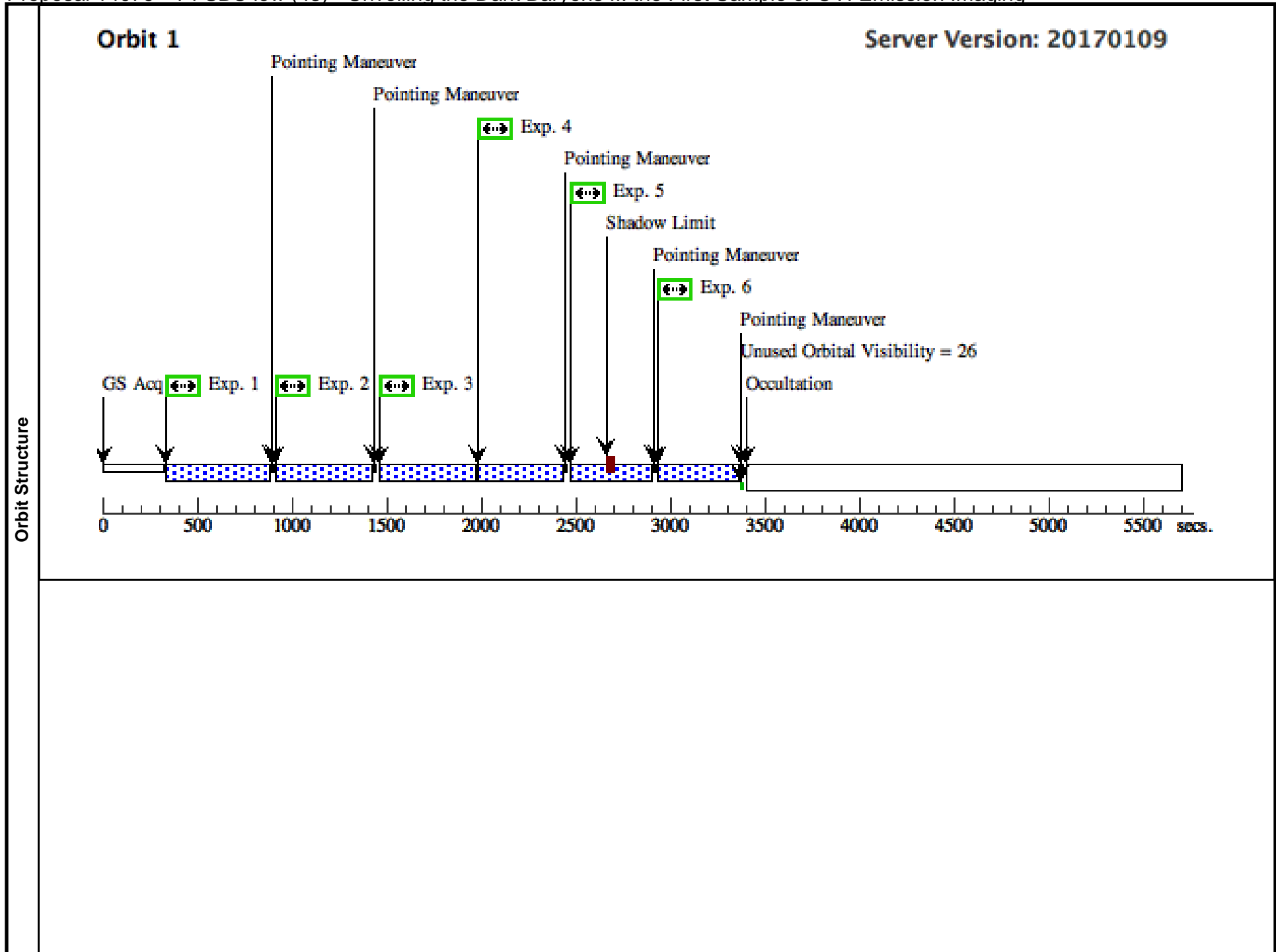


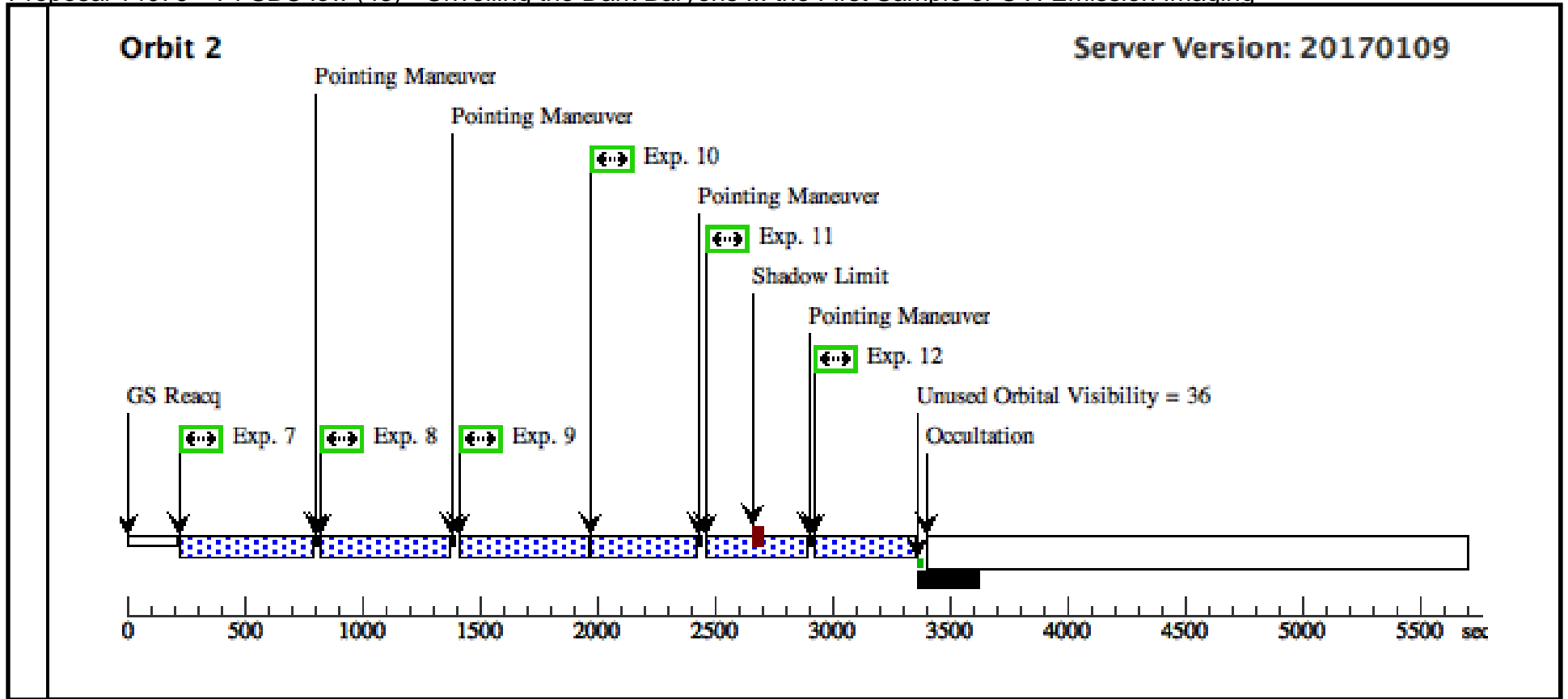


Proposal 14079 - T4 SBC low (43) - Unveiling the Dark Baryons II: the First Sample of OVI Emission Imaging

Fri May 05 01:01:16 GMT 2017

<b>Visit</b>	<b>Proposal 14079, T4 SBC low (43), completed</b> <b>Diagnostic Status: Warning</b> Scientific Instruments: ACS/SBC Special Requirements: (none) <i>Comments: This SBC visit depends critically upon the level of dark current. Please schedule only when the SBC has not been used in the previous 24 hours, so the amplifiers have cooled.</i>																																																																																																																																						
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5	(733011)	(4) SDSS-J154748.4 1+511910.0	ACS/SBC, ACCUM, SBC-FIX	F125LP		SAME POS AS 2; SHADOW		400 Secs (400 Secs) [==>]	[1]																																																																																																																														
6	(733011)	(4) SDSS-J154748.4 1+511910.0	ACS/SBC, ACCUM, SBC-FIX	F125LP		SAME POS AS 1; SHADOW		400 Secs (400 Secs) [==>]	[1]																																																																																																																														
7	(733012)	(4) SDSS-J154748.4 1+511910.0	ACS/SBC, ACCUM, SBC-FIX	F140LP		POS TARG -4.0152 ,-4.47885		520 Secs (520 Secs) [==>]	[2]																																																																																																																														
8	(733012)	(4) SDSS-J154748.4 1+511910.0	ACS/SBC, ACCUM, SBC-FIX	F140LP		POS TARG 0.028,-4 .16805		520 Secs (520 Secs) [==>]	[2]																																																																																																																														
9	(733012)	(4) SDSS-J154748.4 1+511910.0	ACS/SBC, ACCUM, SBC-FIX	F140LP		POS TARG 4.0712,- 3.85725		520 Secs (520 Secs) [==>]	[2]																																																																																																																														
10	(733011)	(4) SDSS-J154748.4 1+511910.0	ACS/SBC, ACCUM, SBC-FIX	F125LP		SAME POS AS 9; SHADOW		400 Secs (400 Secs) [==>]	[2]																																																																																																																														
11	(733011)	(4) SDSS-J154748.4 1+511910.0	ACS/SBC, ACCUM, SBC-FIX	F125LP		SAME POS AS 8; SHADOW		400 Secs (400 Secs) [==>]	[2]																																																																																																																														
12	(733011)	(4) SDSS-J154748.4 1+511910.0	ACS/SBC, ACCUM, SBC-FIX	F125LP		SAME POS AS 7; SHADOW		400 Secs (400 Secs) [==>]	[2]																																																																																																																														

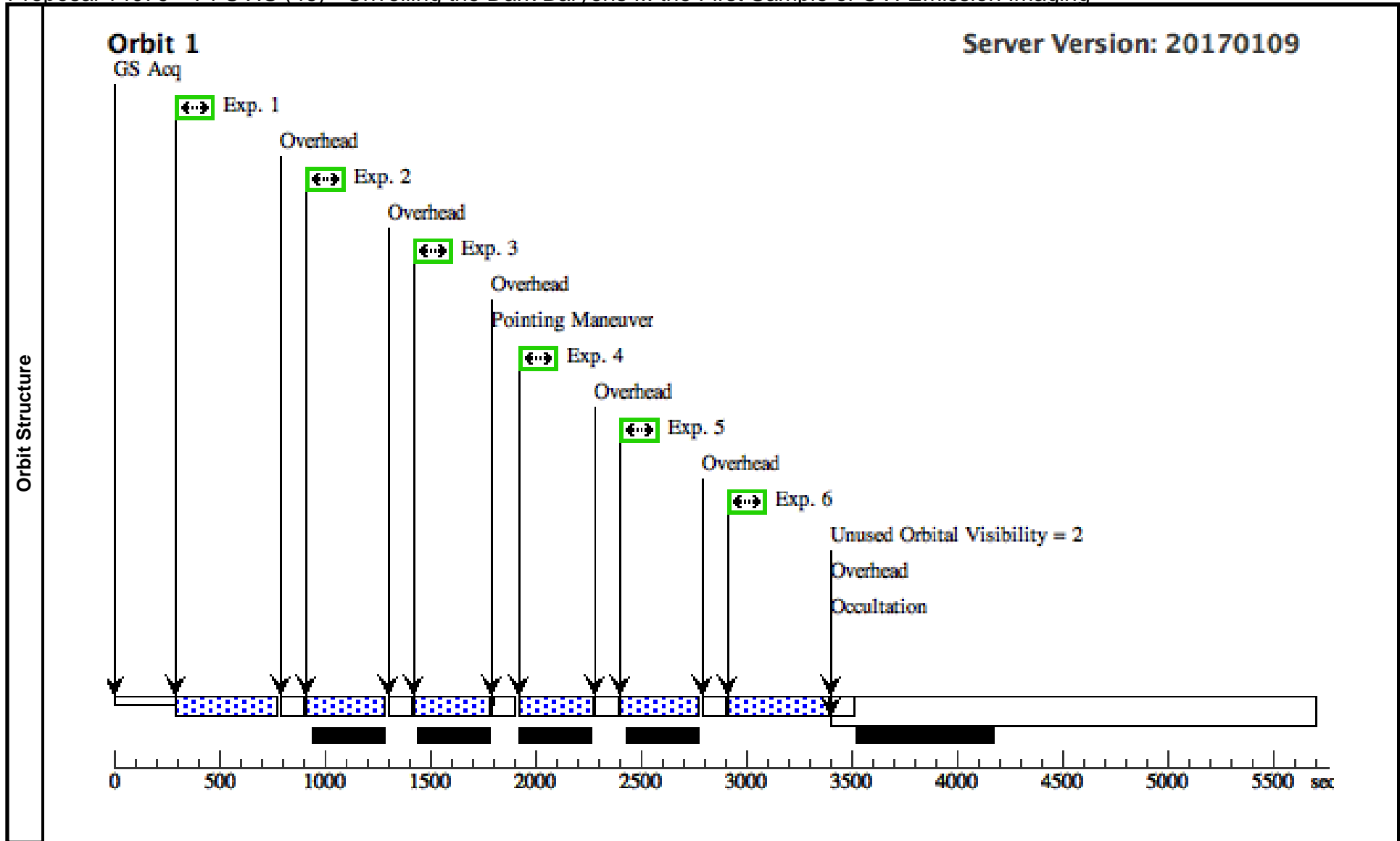




Proposal 14079 - T4 UVIS (46) - Unveiling the Dark Baryons II: the First Sample of OVI Emission Imaging

Fri May 05 01:01:16 GMT 2017

<b>Visit</b>	<b>Proposal 14079, T4 UVIS (46), completed</b> <b>Diagnostic Status: Warning</b> Scientific Instruments: WFC3/UVIS Special Requirements: (none)										
	(Exposure 2 (T4 UVIS (46))) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (Exposure 3 (T4 UVIS (46))) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (Exposure 4 (T4 UVIS (46))) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (Exposure 5 (T4 UVIS (46))) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser										
<b>Fixed Targets</b>	<b>#</b>	<b>Name</b>	<b>Target Coordinates</b>		<b>Targ. Coord. Corrections</b>		<b>Fluxes</b>	<b>Miscellaneous</b>			
	(4)	SDSS-J154748.41+511910.0	RA: 15 47 48.4100 (236.9517083d) Dec: +51 19 10.04 (51.31946d) Equinox: J2000				V=18.1+/-0.2 log L_FUV / Lsun = 10.6	Reference Frame: ICRS			
<i>Comments: Extended=YES</i>											
<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	(733021)	(4) SDSS-J154748.41+511910.0	WFC3/UVIS, ACCUM, UVIS2	F390W	FLASH=8			455 Secs (455 Secs)		
									[==>]		[1]
	2	(714832)	(4) SDSS-J154748.41+511910.0	WFC3/UVIS, ACCUM, UVIS2	F475W	FLASH=3			348 Secs (348 Secs)		
									[==>]		[1]
	3	(714835)	(4) SDSS-J154748.41+511910.0	WFC3/UVIS, ACCUM, UVIS2	F850LP	FLASH=8			348 Secs (348 Secs)		
									[==>]		[1]
4	(714835)	(4) SDSS-J154748.41+511910.0	WFC3/UVIS, ACCUM, UVIS2	F850LP	FLASH=8		POS TARG 0.158,0.070	348 Secs (348 Secs)			
								[==>]		[1]	
5	(714832)	(4) SDSS-J154748.41+511910.0	WFC3/UVIS, ACCUM, UVIS2	F475W	FLASH=3		POS TARG 0.158,0.070	348 Secs (348 Secs)			
								[==>]		[1]	
6	(733021)	(4) SDSS-J154748.41+511910.0	WFC3/UVIS, ACCUM, UVIS2	F390W	FLASH=8		POS TARG 0.158,0.070	455 Secs (455 Secs)			
								[==>]		[1]	



Proposal 14079 - T4 COS (49) - Unveiling the Dark Baryons II: the First Sample of OVI Emission Imaging

Fri May 05 01:01:17 GMT 2017

<b>Visit</b>	<p><b>Proposal 14079, T4 COS (49), completed</b></p> <p><b>Diagnostic Status: Warning</b></p> <p>Scientific Instruments: COS/FUV, COS/NUV</p> <p>Special Requirements: ON HOLD</p> <p><i>Comments: Photometry that guides target acquisition and integration times is done with HST data from visits 41 and 46 from this program. Flux was measured on the brightest UV source in 0.2 arcsec (acquisition) and 1.25 arcsec (spectroscopic observation) apertures, using the F140LP and F390W filters. Then we interpolated (power-law) between the two, to lambda=2300 AA. Fluxes are quoted below. These numbers (and the beta slope) were entered into the acquisition and spectroscopic ETCs.</i></p> <p>HST Imaging Datasets for Photometry</p> <p>.....</p> <p>F140LP 14079 jctd41010</p> <p>F390W 14079 ictd46010</p> <p>Fluxes</p> <p>.....</p> <p>FUV full = 21.869 adu/sec = 5.9328e-16 cgs/AA</p> <p>FUV ACQ = 3.922 adu/sec = 1.064e-16 cgs/AA</p> <p>Uband full = 370.592 adu/sec = 2.0161e-16 cgs/AA</p> <p>Uband ACQ = 69.632 adu/sec = 3.788e-17 cgs/AA</p> <p>COS/NUV full = 4.1719e-16 cgs/AA</p> <p>COS/NUV ACQ = 7.5968e-17 cgs/AA</p> <p><i>On Hold Comments: Visit is ON HOLD until the UVIS/F390W and one SBC/F140LP image are in hand. This will allow us to properly define the acquisition procedure, and optimise the integration times.</i></p>																																		
	<p>(T4 COS (49)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN</p> <p>(Exposure 2 (T4 COS (49))) Warning (Form): COS FUV PSA science exposures with extended targets have special calibration limitations. See "Errors and Warnings" for more details.</p>																																		
<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>(6)</td> <td>J1547+5119-COSPOINT</td> <td>RA: 15 47 48.4704 (236.9519600d) Dec: +51 19 10.25 (51.31951d) Equinox: J2000</td> <td></td> <td>V=18.1+/-0.2 log L_FUV / Lsun = 10.6</td> <td>Reference Frame: ICRS</td> </tr> </tbody> </table> <p><i>Comments: Extended=YES</i></p>						#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous	(6)	J1547+5119-COSPOINT	RA: 15 47 48.4704 (236.9519600d) Dec: +51 19 10.25 (51.31951d) Equinox: J2000		V=18.1+/-0.2 log L_FUV / Lsun = 10.6	Reference Frame: ICRS																	
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#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit																										
1	(COS.ta.839 428)	(6) J1547+5119-CO SPOINT	COS/NUV, ACQ/IMAGE, PSA	MIRRORA				105 Secs (105 Secs)																											
2	(COS.sp.839 430)	(6) J1547+5119-CO SPOINT	COS/FUV, TIME-TAG, PSA	G130M 1327 A	FP-POS=ALL; FLASH=YES; BUFFER-TIME=45 89			550 Secs (2200 Secs)	[1]																										

