



15293 - Pinpointing the cosmic web between massive galaxy clusters

Cycle: 25, Proposal Category: GO

(UV Initiative)

(Availability Mode: SUPPORTED)

INVESTIGATORS

<i>Name</i>	<i>Institution</i>	<i>E-Mail</i>
Prof. Nicolas Tejos (PI) (Contact)	Pontificia Universidad Catolica de Valparaiso	ntejos@gmail.com
Dr. Jason X. Prochaska (CoI) (AdminUSPI)	University of California - Santa Cruz	xavier@ucolick.org
Prof. Simon L. Morris (CoI) (ESA Member)	Durham Univ.	simon.morris@durham.ac.uk
Dr. Jessica Kay Werk (CoI)	University of Washington	jess.werk@gmail.com
Dr. Sebastian Lopez (CoI)	Universidad de Chile	slopez@das.uchile.cl
Dr. Rich Bielby (CoI) (ESA Member)	Durham Univ.	richard.bielby@durham.ac.uk
Dr. Roberto Gonzalez (CoI)	Pontificia Universidad Catolica de Chile	regonzar@astro.puc.cl
Prof. Nelson Padilla (CoI)	Pontificia Universidad Catolica de Chile	npadilla@astro.puc.cl
Dr. Cameron Hummels (CoI)	California Institute of Technology	chummels@caltech.edu
Dr. Britton D. Smith (CoI) (ESA Member)	Royal Observatory Edinburgh	brs@roe.ac.uk
Dr. Tom Theuns (CoI) (ESA Member)	Durham Univ.	tom.theuns@durham.ac.uk
Prof. L Felipe Barrientos (CoI)	Pontificia Universidad Catolica de Chile	barrientos@astro.puc.cl
Mr. Ismael Pessa (CoI)	Pontificia Universidad Catolica de Chile	ismael.pessa@gmail.com

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) J1456+2750	COS/FUV COS/NUV	3	02-Aug-2018 17:40:09.0	yes
02	(2) J1257+4429	COS/FUV COS/NUV	2	02-Aug-2018 17:40:10.0	yes

Proposal 15293 (STScI Edit Number: 0, Created: Thursday, August 2, 2018 4:40:31 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>
03	(2) J1257+4429	COS/FUV COS/NUV	3	02-Aug-2018 17:40:11.0	yes
04	(3) J1410+0910	COS/FUV COS/NUV	3	02-Aug-2018 17:40:12.0	yes
21	(3) J1410+0910	COS/FUV COS/NUV	2	02-Aug-2018 17:40:13.0	yes
05	(4) J1419+3739	COS/FUV COS/NUV	4	02-Aug-2018 17:40:14.0	yes
06	(4) J1419+3739	COS/FUV COS/NUV	3	02-Aug-2018 17:40:15.0	yes
07	(5) J1216+1819	COS/FUV COS/NUV	4	02-Aug-2018 17:40:16.0	yes
08	(5) J1216+1819	COS/FUV COS/NUV	4	02-Aug-2018 17:40:17.0	yes
09	(6) J1358+0213	COS/FUV COS/NUV	3	02-Aug-2018 17:40:18.0	yes
10	(6) J1358+0213	COS/FUV COS/NUV	3	02-Aug-2018 17:40:19.0	yes
22	(6) J1358+0213	COS/FUV COS/NUV	2	02-Aug-2018 17:40:19.0	yes
11	(7) J1210+0154	COS/FUV COS/NUV	3	02-Aug-2018 17:40:20.0	yes
12	(7) J1210+0154	COS/FUV COS/NUV	3	02-Aug-2018 17:40:21.0	yes
13	(7) J1210+0154	COS/FUV COS/NUV	3	02-Aug-2018 17:40:23.0	yes
14	(8) J1120+1104	COS/FUV COS/NUV	4	02-Aug-2018 17:40:24.0	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>
15	(8) J1120+1104	COS/FUV COS/NUV	3	02-Aug-2018 17:40:25.0	yes
65	(8) J1120+1104	COS/FUV COS/NUV	3	02-Aug-2018 17:40:26.0	yes
16	(8) J1120+1104	COS/FUV COS/NUV	3	02-Aug-2018 17:40:27.0	yes
17	(9) J1637+4254	COS/FUV COS/NUV	2	02-Aug-2018 17:40:27.0	yes
18	(9) J1637+4254	COS/FUV COS/NUV	3	02-Aug-2018 17:40:28.0	yes
19	(9) J1637+4254	COS/FUV COS/NUV	3	02-Aug-2018 17:40:29.0	yes
20	(9) J1637+4254	COS/FUV COS/NUV	4	02-Aug-2018 17:40:31.0	yes

70 Total Orbits Used

ABSTRACT

We propose to observe and characterize the intergalactic medium (IGM) in the densest filaments of the cosmic web at $0.1 < z < 0.5$. We use massive galaxy cluster-pairs ($M_{cl} > 1.3 \times 10^{14} M_{sun}$) to identify zones where inter-cluster filaments should reside with high probabilities, and cross-matched them with bright UV QSOs for feasible FUV spectroscopy. Here we propose to observe the 9 best QSOs with HST/COS, in order to probe the HI and OVI transitions at the redshifts of 9 independent massive cluster-pairs within < 3 Mpc from the inter-cluster axes. We require $S/N > 12$ using the G130M (and G160M for those at $z > 0.16$) to ensure a full characterization of low column density gas ($N \sim 10^{13.0-13.5} \text{ cm}^{-2}$) in these intervening structures. This proposal builds upon our previous pilot programs from single targeted QSO sightlines intersecting multiple cluster-pairs (IDs 12958 and 13832, PI Tejos), which have led to promising results (Tejos et al. 2016). In particular, the present experiment will enable the detection of broad and shallow HI lines with OVI (if any), believed to be associated with portions of the warm-hot intergalactic medium (WHIM), as well as test alternative hypothesis regarding the origin of OVI lines. This proposal will double the current sample available in the HST archive, for a total of ~ 20 high-quality cluster-pairs probed. According to our estimations, this sample will provide a robust statistical detection of the elusive WHIM signatures, at the 99% confidence level. Even more fundamentally, these data will provide a unique test of structure and galaxy formation by

comparing them with state-of-the-art hydrodynamical simulations.

OBSERVING DESCRIPTION

We use galaxy cluster-pairs to identify and target the densest filaments in the "cosmic web". We cross-match these cluster-pairs with QSO positions, with the aim to probe the filamentary structures in absorption along the QSO sightlines (e.g. Tejos et al. 2016).

We used clusters from the redMaPPer catalog (Rykoff et al. 2014). Although the redMaPPer detection algorithm is mainly based on photometry, around 50% of these have spectroscopic redshifts from their Brightest Galaxy Cluster (BCG). We use the BCG spectroscopic redshift as the cluster redshift when available.

The QSOs were chosen from the combination of SDSS DR7 data (Schneider+2010), BOSS data (Paris+2012), and the UVQS survey (Monroe+2016) intersecting the SDSS volume, imposing a magnitude limit of $FUV = 18.5$ (AB). These comprise a large number of reliably identified QSOs with well known spectroscopic redshifts which are bright enough for FUV spectroscopy in relatively short exposure times each.

We constructed a sample of galaxy cluster-pairs satisfying the following criteria: (i) the redshift of the clusters must be $0.1 < z < 0.5$; (ii) the minimum richness of the clusters must be 15 (which for redMaPPer roughly corresponds to $\sim 1.3 \times 10^{14}$ Msun); (iii) the maximum transverse separation between two clusters of a pair must be no larger than 15 Mpc; (iv) the redshift difference between the clusters of a pair has to be no larger than 1500 km/s; and (v) both clusters must have a spectroscopic redshift. These criteria are stricter than those used in Tejos+2016, in order to ensure a high fidelity in probing real filaments and thus minimize potential systematic uncertainties. Finally, for each cluster-pair we assign its redshift to be the average between the two cluster members.

We then cross-matched these cluster-pairs with our bright UV QSO list, imposing the following criteria: (i) the redshift of the QSOs must be larger than the redshift of the cluster-pair probed plus 3000 km/s from the QSOs systemic redshift (to avoid the proximity zone of the QSO); (ii) the QSO sightline must be within 3 Mpc from the inter-cluster axis; and (iii) the QSO sightline must be at a distance larger than 3 Mpc from the closest cluster of a pair, along the inter-cluster axis (to avoid zones close to individual galaxy clusters). For a given QSO, we counted the number of intervening cluster-pairs satisfying our criteria. When multiple cluster-pairs appeared in a given QSO, we grouped those lying within 1000 km/s from one another, and treated each of these final grouped structures as independent, n_{ind} , taking its redshift to be the average between its grouped cluster-pairs. Finally, for a given QSO with at least 1 independent cluster-pair, we calculated the

Proposal 15293 (STScI Edit Number: 0, Created: Thursday, August 2, 2018 4:40:31 PM EST) - Overview

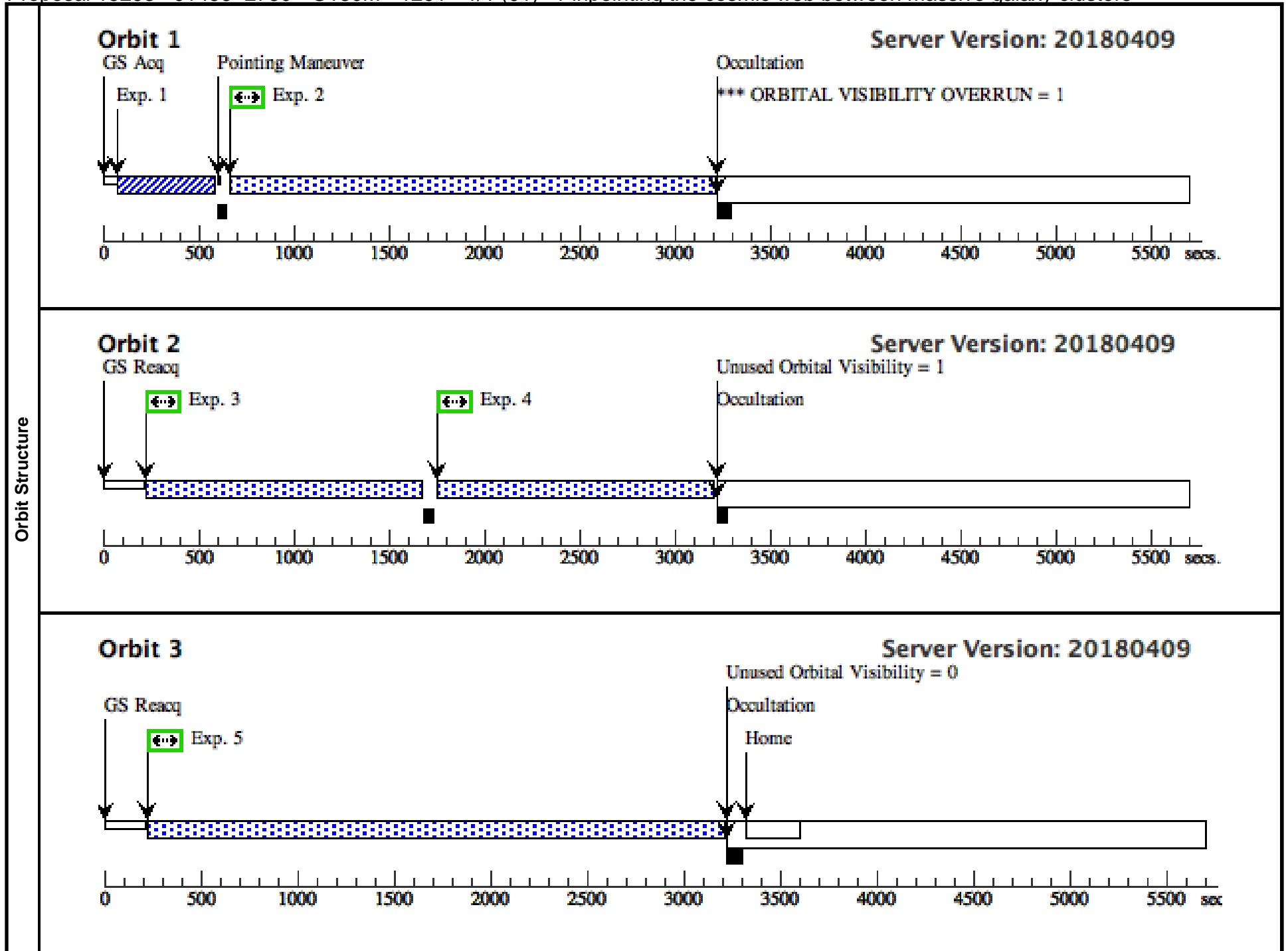
number of orbits, n_{orb} , needed to reach a signal-to-noise of $S/N = 12$ per resolution element, at the redshift of the known cluster-pairs for HI Ly α and OVI, using the COS ETC (v25.1.1). We note that for cluster-pairs at $0.1 < z < 0.16$, only G130M is needed to cover both species, and this fact was taken into account in our calculations. We then sorted the QSO list by $n_{\text{ind}}/n_{\text{orb}}$, and chose the required 9 most optimal QSOs for this project. We also made sure that none of our top priority QSOs showed strong intervening MgII absorption that may compromise the quality of the FUV data due to the presence of a Lyman Limit System.

Note: the optimization strategy was done before the COS2025 policies were known to the community.

Proposal 15293 - J1456+2750 - G130M - 1291 - 1/1 (01) - Pinpointing the cosmic web between massive galaxy clusters

Thu Aug 02 21:40:31 GMT 2018

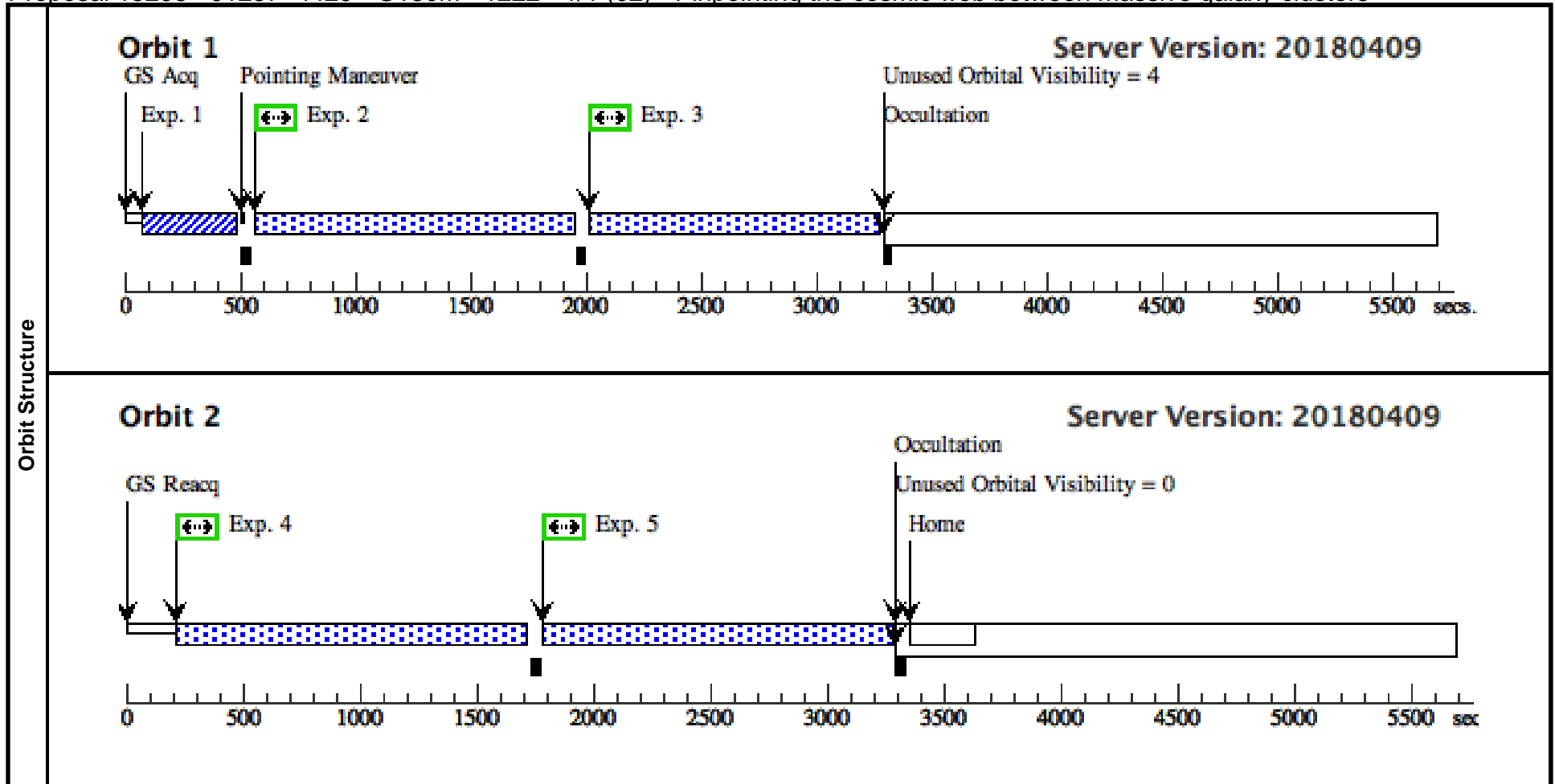
Visit	<p>Proposal 15293, J1456+2750 - G130M - 1291 - 1/1 (01), scheduling</p> <p>Diagnostic Status: Warning</p> <p>Scientific Instruments: COS/FUV, COS/NUV</p> <p>Special Requirements: (none)</p> <p><i>Comments: This visit corresponds to the visit 1/1 of the J1456+2750 using G130M:</i></p> <ul style="list-style-type: none"> - 3 orbits in total - 1 central wavelengths 1291 - 2 segments A+B - 2 FP-POS in total (COS2025 policy) - Buffer times set to 2/3 of that given by the ETC 																																																																					
	<p>(J1456+2750 - G130M - 1291 - 1/1 (01)) Warning (Form): For the best data quality, it is strongly recommended that the maximum number of allowed FP-POS positions is used when observing at a given COS CENWAVE setting. See full description for details.</p> <p>(J1456+2750 - G130M - 1291 - 1/1 (01)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN</p>																																																																					
Fixed Targets	<table border="1" style="width: 100%; border-collapse: collapse;"> <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>J1456+2750</td> <td>RA: 14 56 8.6434 (224.0360142d) Dec: +27 50 8.48 (27.83569d) Equinox: J2000</td> <td></td> <td>V=17.43 FUV=17.41</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></p> <p>Category=GALAXY Description=[QSO] Extended=NO</p>										#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous	(1)	J1456+2750	RA: 14 56 8.6434 (224.0360142d) Dec: +27 50 8.48 (27.83569d) Equinox: J2000		V=17.43 FUV=17.41	Reference Frame: ICRS																																																
	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous																																																																
(1)	J1456+2750	RA: 14 56 8.6434 (224.0360142d) Dec: +27 50 8.48 (27.83569d) Equinox: J2000		V=17.43 FUV=17.41	Reference Frame: ICRS																																																																	
Exposures	<table border="1" style="width: 100%; border-collapse: collapse;"> <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>ACQ (COS.im.10 07582)</td> <td>(1) J1456+2750</td> <td>COS/NUV, ACQ/IMAGE, PSA</td> <td>MIRRORB</td> <td></td> <td></td> <td></td> <td>100 Secs (100 Secs) [==>]</td> <td>[1]</td> </tr> <tr> <td>2</td> <td>G130M - 12 91 - FP3 - o 1 (COS.sp.101 0683)</td> <td>(1) J1456+2750</td> <td>COS/FUV, TIME-TAG, PSA</td> <td>G130M 1291 A</td> <td>FP-POS=3; BUFFER-TIME=4000; SEGMENT=BOTH</td> <td></td> <td></td> <td>1000 Secs (2382 Secs) [==>2382.0 Secs]</td> <td>[1]</td> </tr> <tr> <td>3</td> <td>G130M - 12 91 - FP3 - o 2 (COS.sp.101 0684)</td> <td>(1) J1456+2750</td> <td>COS/FUV, TIME-TAG, PSA</td> <td>G130M 1291 A</td> <td>FP-POS=3; BUFFER-TIME=4000; SEGMENT=BOTH</td> <td></td> <td></td> <td>1000 Secs (1402 Secs) [==>1402.0 Secs]</td> <td>[2]</td> </tr> <tr> <td>4</td> <td>G130M - 12 91 - FP4 - o 2 (COS.sp.101 0684)</td> <td>(1) J1456+2750</td> <td>COS/FUV, TIME-TAG, PSA</td> <td>G130M 1291 A</td> <td>FP-POS=4; BUFFER-TIME=4000; SEGMENT=BOTH</td> <td></td> <td></td> <td>1000 Secs (1402 Secs) [==>1402.0 Secs]</td> <td>[2]</td> </tr> <tr> <td>5</td> <td>G130M - 12 91 - FP4 - o 3 (COS.sp.101 0685)</td> <td>(1) J1456+2750</td> <td>COS/FUV, TIME-TAG, PSA</td> <td>G130M 1291 A</td> <td>FP-POS=4; BUFFER-TIME=4000; SEGMENT=BOTH</td> <td></td> <td></td> <td>1000 Secs (2939 Secs) [==>2939.0 Secs]</td> <td>[3]</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	ACQ (COS.im.10 07582)	(1) J1456+2750	COS/NUV, ACQ/IMAGE, PSA	MIRRORB				100 Secs (100 Secs) [==>]	[1]	2	G130M - 12 91 - FP3 - o 1 (COS.sp.101 0683)	(1) J1456+2750	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=3; BUFFER-TIME=4000; SEGMENT=BOTH			1000 Secs (2382 Secs) [==>2382.0 Secs]	[1]	3	G130M - 12 91 - FP3 - o 2 (COS.sp.101 0684)	(1) J1456+2750	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=3; BUFFER-TIME=4000; SEGMENT=BOTH			1000 Secs (1402 Secs) [==>1402.0 Secs]	[2]	4	G130M - 12 91 - FP4 - o 2 (COS.sp.101 0684)	(1) J1456+2750	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=4; BUFFER-TIME=4000; SEGMENT=BOTH			1000 Secs (1402 Secs) [==>1402.0 Secs]	[2]	5	G130M - 12 91 - FP4 - o 3 (COS.sp.101 0685)	(1) J1456+2750	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=4; BUFFER-TIME=4000; SEGMENT=BOTH			1000 Secs (2939 Secs) [==>2939.0 Secs]	[3]
	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit																																																												
	1	ACQ (COS.im.10 07582)	(1) J1456+2750	COS/NUV, ACQ/IMAGE, PSA	MIRRORB				100 Secs (100 Secs) [==>]	[1]																																																												
	2	G130M - 12 91 - FP3 - o 1 (COS.sp.101 0683)	(1) J1456+2750	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=3; BUFFER-TIME=4000; SEGMENT=BOTH			1000 Secs (2382 Secs) [==>2382.0 Secs]	[1]																																																												
	3	G130M - 12 91 - FP3 - o 2 (COS.sp.101 0684)	(1) J1456+2750	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=3; BUFFER-TIME=4000; SEGMENT=BOTH			1000 Secs (1402 Secs) [==>1402.0 Secs]	[2]																																																												
	4	G130M - 12 91 - FP4 - o 2 (COS.sp.101 0684)	(1) J1456+2750	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=4; BUFFER-TIME=4000; SEGMENT=BOTH			1000 Secs (1402 Secs) [==>1402.0 Secs]	[2]																																																												
5	G130M - 12 91 - FP4 - o 3 (COS.sp.101 0685)	(1) J1456+2750	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=4; BUFFER-TIME=4000; SEGMENT=BOTH			1000 Secs (2939 Secs) [==>2939.0 Secs]	[3]																																																													



Proposal 15293 - J1257+4429 - G130M - 1222 - 1/1 (02) - Pinpointing the cosmic web between massive galaxy clusters

Thu Aug 02 21:40:32 GMT 2018

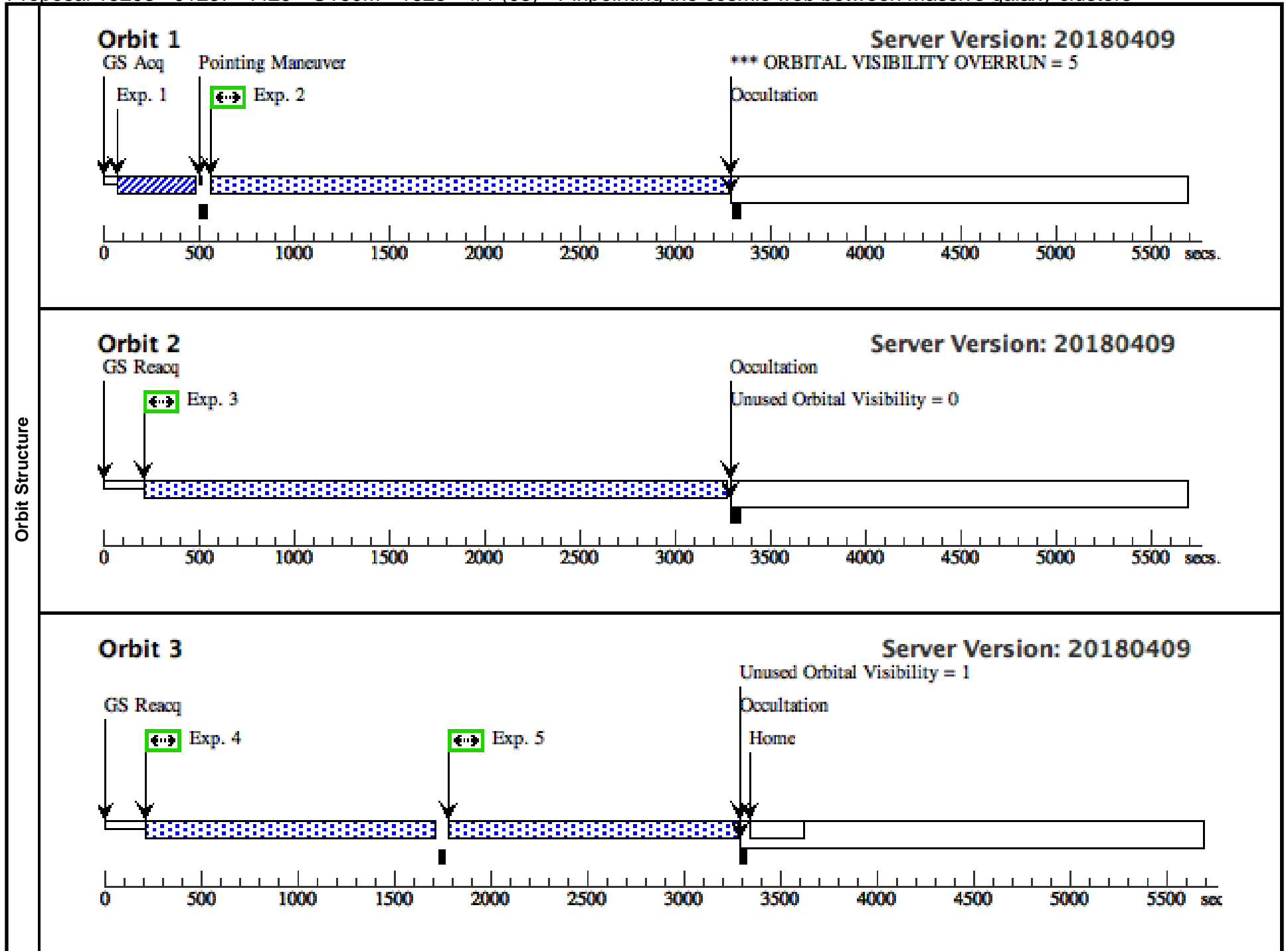
Visit	<p>Proposal 15293, J1257+4429 - G130M - 1222 - 1/1 (02), scheduling</p> <p>Diagnostic Status: No Diagnostics</p> <p>Scientific Instruments: COS/FUV, COS/NUV</p> <p>Special Requirements: (none)</p> <p><i>Comments: This visit corresponds to the visit 1/1 of the J1257+4429 using G130M:</i></p> <ul style="list-style-type: none"> - 2 orbits in total - 1 central wavelengths 1222 (COS2025 policy; originally 1223, changed back to 1222 by STScI request) - 2 segments A+B (COS2025 policy) - 4 FP-POS in total - Buffer times set to 2/3 of that given by the ETC 																																																																					
	<p>Fixed Targets</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <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>J1257+4429</td> <td>RA: 12 57 19.5510 (194.3314625d) Dec: +44 29 35.39 (44.49316d) Equinox: J2000</td> <td></td> <td>V=16.61 FUV=16.90</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></p> <p>Category=GALAXY Description=[QSO] Extended=NO</p>										#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous	(2)	J1257+4429	RA: 12 57 19.5510 (194.3314625d) Dec: +44 29 35.39 (44.49316d) Equinox: J2000		V=16.61 FUV=16.90	Reference Frame: ICRS																																																
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous																																																																	
(2)	J1257+4429	RA: 12 57 19.5510 (194.3314625d) Dec: +44 29 35.39 (44.49316d) Equinox: J2000		V=16.61 FUV=16.90	Reference Frame: ICRS																																																																	
Exposures	<table border="1" style="width: 100%; border-collapse: collapse;"> <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>ACQ (COS.im.10 07599)</td> <td>(2) J1257+4429</td> <td>COS/NUV, ACQ/IMAGE, PSA</td> <td>MIRRORB</td> <td></td> <td></td> <td></td> <td>50 Secs (50 Secs) [==>]</td> <td>[1]</td> </tr> <tr> <td>2</td> <td>G130M - 12 22 - FP1 - o 1 (COS.sp.101 0689)</td> <td>(2) J1257+4429</td> <td>COS/FUV, TIME-TAG, PSA</td> <td>G130M 1222 A</td> <td>FP-POS=1; BUFFER-TIME=62 00; SEGMENT=BOTH</td> <td></td> <td></td> <td>1000 Secs (1210 Secs) [==>1210.0 Secs]</td> <td>[1]</td> </tr> <tr> <td>3</td> <td>G130M - 12 22 - FP2 - o 1 (COS.sp.101 0689)</td> <td>(2) J1257+4429</td> <td>COS/FUV, TIME-TAG, PSA</td> <td>G130M 1222 A</td> <td>FP-POS=2; BUFFER-TIME=62 00; SEGMENT=BOTH</td> <td></td> <td></td> <td>1000 Secs (1210 Secs) [==>1210.0 Secs]</td> <td>[1]</td> </tr> <tr> <td>4</td> <td>G130M - 12 22 - FP3 - o 2 (COS.sp.101 0689)</td> <td>(2) J1257+4429</td> <td>COS/FUV, TIME-TAG, PSA</td> <td>G130M 1222 A</td> <td>FP-POS=3; BUFFER-TIME=62 00; SEGMENT=BOTH</td> <td></td> <td></td> <td>1000 Secs (1444 Secs) [==>1444.0 Secs]</td> <td>[2]</td> </tr> <tr> <td>5</td> <td>G130M - 12 22 - FP4 - o 2 (COS.sp.101 0689)</td> <td>(2) J1257+4429</td> <td>COS/FUV, TIME-TAG, PSA</td> <td>G130M 1222 A</td> <td>FP-POS=4; BUFFER-TIME=62 00; SEGMENT=BOTH</td> <td></td> <td></td> <td>1000 Secs (1444 Secs) [==>1444.0 Secs]</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	ACQ (COS.im.10 07599)	(2) J1257+4429	COS/NUV, ACQ/IMAGE, PSA	MIRRORB				50 Secs (50 Secs) [==>]	[1]	2	G130M - 12 22 - FP1 - o 1 (COS.sp.101 0689)	(2) J1257+4429	COS/FUV, TIME-TAG, PSA	G130M 1222 A	FP-POS=1; BUFFER-TIME=62 00; SEGMENT=BOTH			1000 Secs (1210 Secs) [==>1210.0 Secs]	[1]	3	G130M - 12 22 - FP2 - o 1 (COS.sp.101 0689)	(2) J1257+4429	COS/FUV, TIME-TAG, PSA	G130M 1222 A	FP-POS=2; BUFFER-TIME=62 00; SEGMENT=BOTH			1000 Secs (1210 Secs) [==>1210.0 Secs]	[1]	4	G130M - 12 22 - FP3 - o 2 (COS.sp.101 0689)	(2) J1257+4429	COS/FUV, TIME-TAG, PSA	G130M 1222 A	FP-POS=3; BUFFER-TIME=62 00; SEGMENT=BOTH			1000 Secs (1444 Secs) [==>1444.0 Secs]	[2]	5	G130M - 12 22 - FP4 - o 2 (COS.sp.101 0689)	(2) J1257+4429	COS/FUV, TIME-TAG, PSA	G130M 1222 A	FP-POS=4; BUFFER-TIME=62 00; SEGMENT=BOTH			1000 Secs (1444 Secs) [==>1444.0 Secs]	[2]
	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit																																																												
	1	ACQ (COS.im.10 07599)	(2) J1257+4429	COS/NUV, ACQ/IMAGE, PSA	MIRRORB				50 Secs (50 Secs) [==>]	[1]																																																												
	2	G130M - 12 22 - FP1 - o 1 (COS.sp.101 0689)	(2) J1257+4429	COS/FUV, TIME-TAG, PSA	G130M 1222 A	FP-POS=1; BUFFER-TIME=62 00; SEGMENT=BOTH			1000 Secs (1210 Secs) [==>1210.0 Secs]	[1]																																																												
	3	G130M - 12 22 - FP2 - o 1 (COS.sp.101 0689)	(2) J1257+4429	COS/FUV, TIME-TAG, PSA	G130M 1222 A	FP-POS=2; BUFFER-TIME=62 00; SEGMENT=BOTH			1000 Secs (1210 Secs) [==>1210.0 Secs]	[1]																																																												
	4	G130M - 12 22 - FP3 - o 2 (COS.sp.101 0689)	(2) J1257+4429	COS/FUV, TIME-TAG, PSA	G130M 1222 A	FP-POS=3; BUFFER-TIME=62 00; SEGMENT=BOTH			1000 Secs (1444 Secs) [==>1444.0 Secs]	[2]																																																												
5	G130M - 12 22 - FP4 - o 2 (COS.sp.101 0689)	(2) J1257+4429	COS/FUV, TIME-TAG, PSA	G130M 1222 A	FP-POS=4; BUFFER-TIME=62 00; SEGMENT=BOTH			1000 Secs (1444 Secs) [==>1444.0 Secs]	[2]																																																													



Proposal 15293 - J1257+4429 - G160M - 1623 - 1/1 (03) - Pinpointing the cosmic web between massive galaxy clusters

Thu Aug 02 21:40:32 GMT 2018

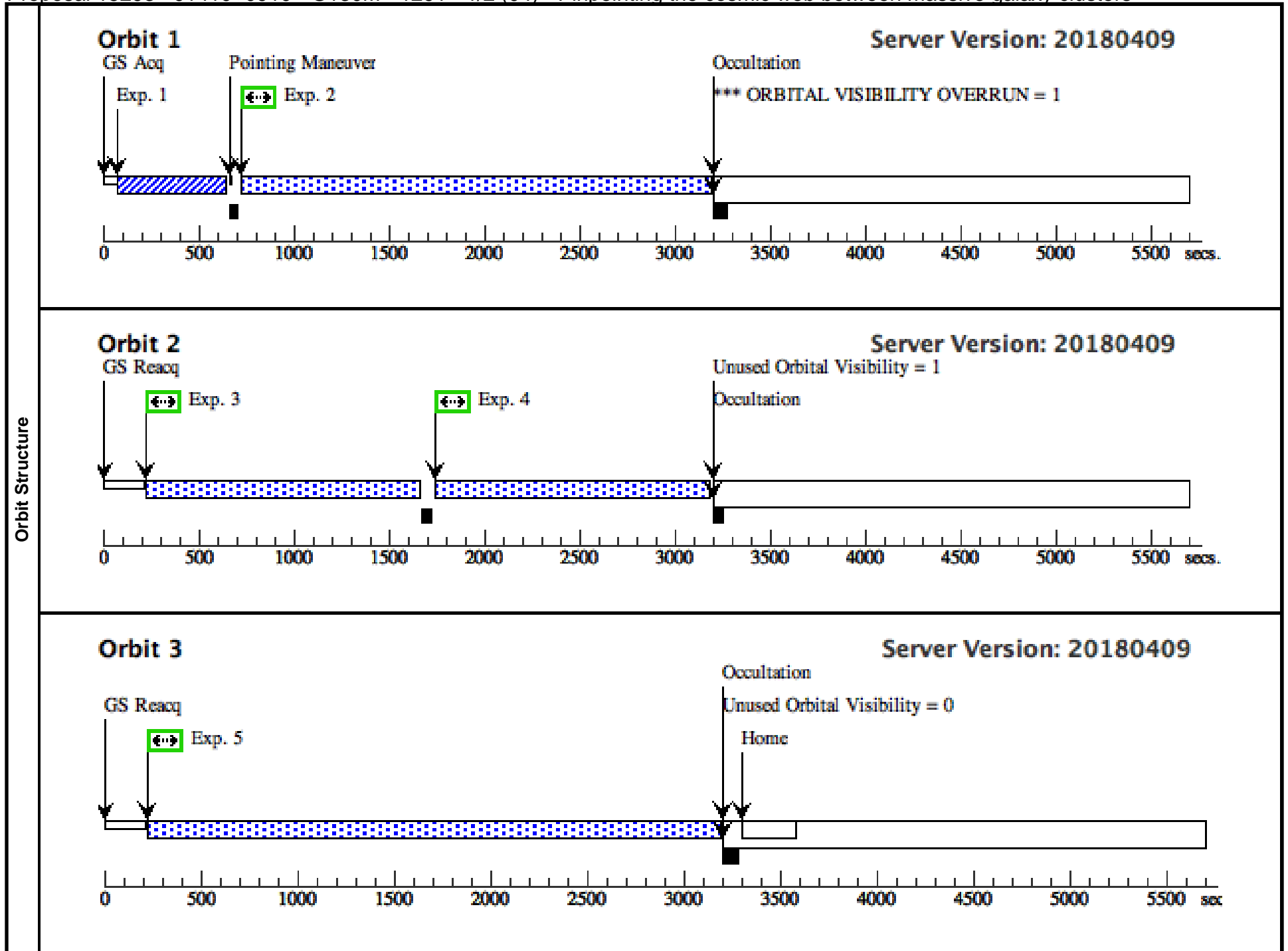
Visit	<p>Proposal 15293, J1257+4429 - G160M - 1623 - 1/1 (03), scheduling</p> <p>Diagnostic Status: Warning</p> <p>Scientific Instruments: COS/FUV, COS/NUV</p> <p>Special Requirements: (none)</p> <p><i>Comments: This visit corresponds to the visit 1/1 of the J1257+4429 using G160M:</i></p> <ul style="list-style-type: none"> - 3 orbits in total - 1 central wavelengths 1623 - 2 segments A+B - 4 FP-POS in total - Buffer times set to 2/3 of that given by the ETC 																																																																				
	<p>(J1257+4429 - G160M - 1623 - 1/1 (03)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN</p>																																																																				
Fixed Targets	<table border="1" style="width: 100%; border-collapse: collapse;"> <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>J1257+4429</td> <td>RA: 12 57 19.5510 (194.3314625d) Dec: +44 29 35.39 (44.49316d) Equinox: J2000</td> <td></td> <td>V=16.61 FUV=16.90</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></p> <p>Category=GALAXY Description=[QSO] Extended=NO</p>										#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous	(2)	J1257+4429	RA: 12 57 19.5510 (194.3314625d) Dec: +44 29 35.39 (44.49316d) Equinox: J2000		V=16.61 FUV=16.90	Reference Frame: ICRS																																															
	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous																																																															
(2)	J1257+4429	RA: 12 57 19.5510 (194.3314625d) Dec: +44 29 35.39 (44.49316d) Equinox: J2000		V=16.61 FUV=16.90	Reference Frame: ICRS																																																																
<table border="1" style="width: 100%; border-collapse: collapse;"> <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>ACQ (COS.im.10 07599)</td> <td>(2) J1257+4429</td> <td>COS/NUV, ACQ/IMAGE, PSA</td> <td>MIRRORB</td> <td></td> <td></td> <td></td> <td>50 Secs (50 Secs) [==>]</td> <td>[1]</td> </tr> <tr> <td>2</td> <td>G160M - 1623 - FP1 - o 1 (COS.sp.101 0746)</td> <td>(2) J1257+4429</td> <td>COS/FUV, TIME-TAG, PSA</td> <td>G160M 1623 A</td> <td>FP-POS=1; BUFFER-TIME=8200; SEGMENT=BOTH</td> <td></td> <td></td> <td>1000 Secs (2506 Secs) [==>2506.0 Secs]</td> <td>[1]</td> </tr> <tr> <td>3</td> <td>G160M - 1623 - FP2 - o 2 (COS.sp.101 0748)</td> <td>(2) J1257+4429</td> <td>COS/FUV, TIME-TAG, PSA</td> <td>G160M 1623 A</td> <td>FP-POS=2; BUFFER-TIME=8200; SEGMENT=BOTH</td> <td></td> <td></td> <td>1000 Secs (3012 Secs) [==>3012.0 Secs]</td> <td>[2]</td> </tr> <tr> <td>4</td> <td>G160M - 1623 - FP3 - o 3 (COS.sp.101 0749)</td> <td>(2) J1257+4429</td> <td>COS/FUV, TIME-TAG, PSA</td> <td>G160M 1623 A</td> <td>FP-POS=3; BUFFER-TIME=8200; SEGMENT=BOTH</td> <td></td> <td></td> <td>1000 Secs (1448 Secs) [==>1448.0 Secs]</td> <td>[3]</td> </tr> <tr> <td>5</td> <td>G160M - 1623 - FP4 - o 3 (COS.sp.101 0749)</td> <td>(2) J1257+4429</td> <td>COS/FUV, TIME-TAG, PSA</td> <td>G160M 1623 A</td> <td>FP-POS=4; BUFFER-TIME=8200; SEGMENT=BOTH</td> <td></td> <td></td> <td>1000 Secs (1448 Secs) [==>1448.0 Secs]</td> <td>[3]</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	ACQ (COS.im.10 07599)	(2) J1257+4429	COS/NUV, ACQ/IMAGE, PSA	MIRRORB				50 Secs (50 Secs) [==>]	[1]	2	G160M - 1623 - FP1 - o 1 (COS.sp.101 0746)	(2) J1257+4429	COS/FUV, TIME-TAG, PSA	G160M 1623 A	FP-POS=1; BUFFER-TIME=8200; SEGMENT=BOTH			1000 Secs (2506 Secs) [==>2506.0 Secs]	[1]	3	G160M - 1623 - FP2 - o 2 (COS.sp.101 0748)	(2) J1257+4429	COS/FUV, TIME-TAG, PSA	G160M 1623 A	FP-POS=2; BUFFER-TIME=8200; SEGMENT=BOTH			1000 Secs (3012 Secs) [==>3012.0 Secs]	[2]	4	G160M - 1623 - FP3 - o 3 (COS.sp.101 0749)	(2) J1257+4429	COS/FUV, TIME-TAG, PSA	G160M 1623 A	FP-POS=3; BUFFER-TIME=8200; SEGMENT=BOTH			1000 Secs (1448 Secs) [==>1448.0 Secs]	[3]	5	G160M - 1623 - FP4 - o 3 (COS.sp.101 0749)	(2) J1257+4429	COS/FUV, TIME-TAG, PSA	G160M 1623 A	FP-POS=4; BUFFER-TIME=8200; SEGMENT=BOTH			1000 Secs (1448 Secs) [==>1448.0 Secs]	[3]
#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit																																																												
1	ACQ (COS.im.10 07599)	(2) J1257+4429	COS/NUV, ACQ/IMAGE, PSA	MIRRORB				50 Secs (50 Secs) [==>]	[1]																																																												
2	G160M - 1623 - FP1 - o 1 (COS.sp.101 0746)	(2) J1257+4429	COS/FUV, TIME-TAG, PSA	G160M 1623 A	FP-POS=1; BUFFER-TIME=8200; SEGMENT=BOTH			1000 Secs (2506 Secs) [==>2506.0 Secs]	[1]																																																												
3	G160M - 1623 - FP2 - o 2 (COS.sp.101 0748)	(2) J1257+4429	COS/FUV, TIME-TAG, PSA	G160M 1623 A	FP-POS=2; BUFFER-TIME=8200; SEGMENT=BOTH			1000 Secs (3012 Secs) [==>3012.0 Secs]	[2]																																																												
4	G160M - 1623 - FP3 - o 3 (COS.sp.101 0749)	(2) J1257+4429	COS/FUV, TIME-TAG, PSA	G160M 1623 A	FP-POS=3; BUFFER-TIME=8200; SEGMENT=BOTH			1000 Secs (1448 Secs) [==>1448.0 Secs]	[3]																																																												
5	G160M - 1623 - FP4 - o 3 (COS.sp.101 0749)	(2) J1257+4429	COS/FUV, TIME-TAG, PSA	G160M 1623 A	FP-POS=4; BUFFER-TIME=8200; SEGMENT=BOTH			1000 Secs (1448 Secs) [==>1448.0 Secs]	[3]																																																												



Proposal 15293 - J1410+0910 - G130M - 1291 - 1/2 (04) - Pinpointing the cosmic web between massive galaxy clusters

Thu Aug 02 21:40:32 GMT 2018

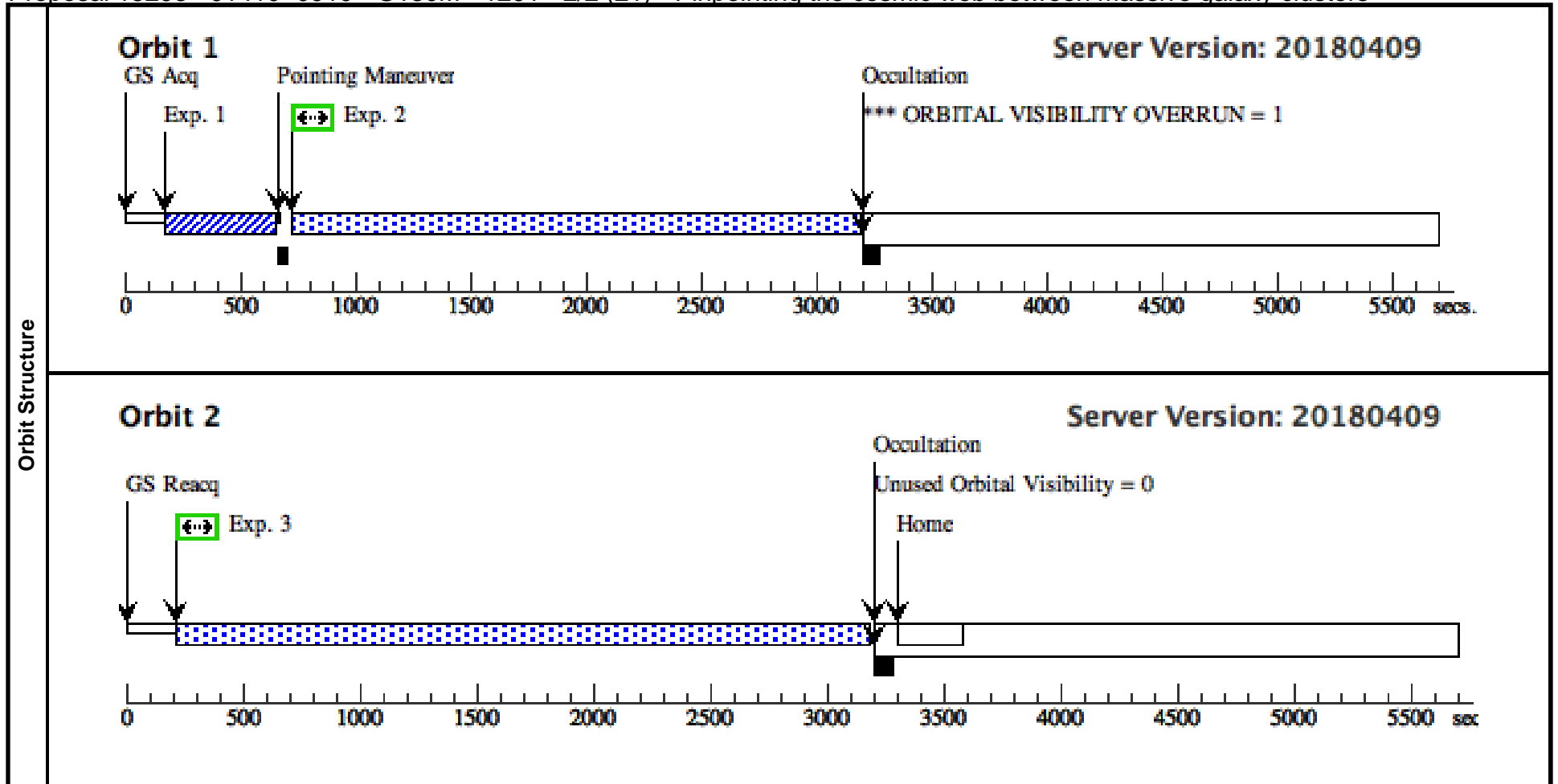
Visit	<p>Proposal 15293, J1410+0910 - G130M - 1291 - 1/2 (04), scheduling</p> <p>Diagnostic Status: Warning</p> <p>Scientific Instruments: COS/FUV, COS/NUV</p> <p>Special Requirements: (none)</p> <p><i>Comments: This visit corresponds to the visit 1/2 of the J1410+0910 using G130M:</i></p> <ul style="list-style-type: none"> - 3 orbits in total - 1 central wavelengths 1291 - 2 segments A+B - 2 FP-POS in total (COS2025 policy) - Buffer times set to 2/3 of that given by the ETC 																																																																					
	<p>(J1410+0910 - G130M - 1291 - 1/2 (04)) Warning (Form): For the best data quality, it is strongly recommended that the maximum number of allowed FP-POS positions is used when observing at a given COS CENWAVE setting. See full description for details.</p> <p>(J1410+0910 - G130M - 1291 - 1/2 (04)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN</p>																																																																					
Fixed Targets	<table border="1" style="width: 100%; border-collapse: collapse;"> <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>J1410+0910</td> <td>RA: 14 10 53.4400 (212.7226667d) Dec: +09 10 27.00 (9.17417d) Equinox: J2000</td> <td></td> <td>V=16.97 FUV=17.60</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></p> <p>Category=GALAXY Description=[QSO] Extended=NO</p>										#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous	(3)	J1410+0910	RA: 14 10 53.4400 (212.7226667d) Dec: +09 10 27.00 (9.17417d) Equinox: J2000		V=16.97 FUV=17.60	Reference Frame: ICRS																																																
	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous																																																																
(3)	J1410+0910	RA: 14 10 53.4400 (212.7226667d) Dec: +09 10 27.00 (9.17417d) Equinox: J2000		V=16.97 FUV=17.60	Reference Frame: ICRS																																																																	
Exposures	<table border="1" style="width: 100%; border-collapse: collapse;"> <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>ACQ (COS.im.10 08325)</td> <td>(3) J1410+0910</td> <td>COS/NUV, ACQ/IMAGE, PSA</td> <td>MIRRORB</td> <td></td> <td></td> <td></td> <td>130 Secs (130 Secs) [==>]</td> <td>[1]</td> </tr> <tr> <td>2</td> <td>G130M - 12 91- FP3 - o1 (COS.sp.101 0705)</td> <td>(3) J1410+0910</td> <td>COS/FUV, TIME-TAG, PSA</td> <td>G130M 1291 A</td> <td>BUFFER-TIME=39 00; FP-POS=3; SEGMENT=BOTH</td> <td></td> <td></td> <td>1000 Secs (2302 Secs) [==>2302.0 Secs]</td> <td>[1]</td> </tr> <tr> <td>3</td> <td>G130M - 12 91- FP3 - o2 (COS.sp.101 0706)</td> <td>(3) J1410+0910</td> <td>COS/FUV, TIME-TAG, PSA</td> <td>G130M 1291 A</td> <td>BUFFER-TIME=39 00; FP-POS=3; SEGMENT=BOTH</td> <td></td> <td></td> <td>1000 Secs (1392 Secs) [==>1392.0 Secs]</td> <td>[2]</td> </tr> <tr> <td>4</td> <td>G130M - 12 91- FP4 - o2 (COS.sp.101 0706)</td> <td>(3) J1410+0910</td> <td>COS/FUV, TIME-TAG, PSA</td> <td>G130M 1291 A</td> <td>BUFFER-TIME=39 00; FP-POS=4; SEGMENT=BOTH</td> <td></td> <td></td> <td>1000 Secs (1392 Secs) [==>1392.0 Secs]</td> <td>[2]</td> </tr> <tr> <td>5</td> <td>G130M - 12 91- FP4 - o3 (COS.sp.101 0708)</td> <td>(3) J1410+0910</td> <td>COS/FUV, TIME-TAG, PSA</td> <td>G130M 1291 A</td> <td>BUFFER-TIME=39 00; FP-POS=4; SEGMENT=BOTH</td> <td></td> <td></td> <td>1000 Secs (2919 Secs) [==>2919.0 Secs]</td> <td>[3]</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	ACQ (COS.im.10 08325)	(3) J1410+0910	COS/NUV, ACQ/IMAGE, PSA	MIRRORB				130 Secs (130 Secs) [==>]	[1]	2	G130M - 12 91- FP3 - o1 (COS.sp.101 0705)	(3) J1410+0910	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=39 00; FP-POS=3; SEGMENT=BOTH			1000 Secs (2302 Secs) [==>2302.0 Secs]	[1]	3	G130M - 12 91- FP3 - o2 (COS.sp.101 0706)	(3) J1410+0910	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=39 00; FP-POS=3; SEGMENT=BOTH			1000 Secs (1392 Secs) [==>1392.0 Secs]	[2]	4	G130M - 12 91- FP4 - o2 (COS.sp.101 0706)	(3) J1410+0910	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=39 00; FP-POS=4; SEGMENT=BOTH			1000 Secs (1392 Secs) [==>1392.0 Secs]	[2]	5	G130M - 12 91- FP4 - o3 (COS.sp.101 0708)	(3) J1410+0910	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=39 00; FP-POS=4; SEGMENT=BOTH			1000 Secs (2919 Secs) [==>2919.0 Secs]	[3]
	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit																																																												
	1	ACQ (COS.im.10 08325)	(3) J1410+0910	COS/NUV, ACQ/IMAGE, PSA	MIRRORB				130 Secs (130 Secs) [==>]	[1]																																																												
	2	G130M - 12 91- FP3 - o1 (COS.sp.101 0705)	(3) J1410+0910	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=39 00; FP-POS=3; SEGMENT=BOTH			1000 Secs (2302 Secs) [==>2302.0 Secs]	[1]																																																												
	3	G130M - 12 91- FP3 - o2 (COS.sp.101 0706)	(3) J1410+0910	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=39 00; FP-POS=3; SEGMENT=BOTH			1000 Secs (1392 Secs) [==>1392.0 Secs]	[2]																																																												
	4	G130M - 12 91- FP4 - o2 (COS.sp.101 0706)	(3) J1410+0910	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=39 00; FP-POS=4; SEGMENT=BOTH			1000 Secs (1392 Secs) [==>1392.0 Secs]	[2]																																																												
5	G130M - 12 91- FP4 - o3 (COS.sp.101 0708)	(3) J1410+0910	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=39 00; FP-POS=4; SEGMENT=BOTH			1000 Secs (2919 Secs) [==>2919.0 Secs]	[3]																																																													



Proposal 15293 - J1410+0910 - G130M - 1291 - 2/2 (21) - Pinpointing the cosmic web between massive galaxy clusters

Thu Aug 02 21:40:32 GMT 2018

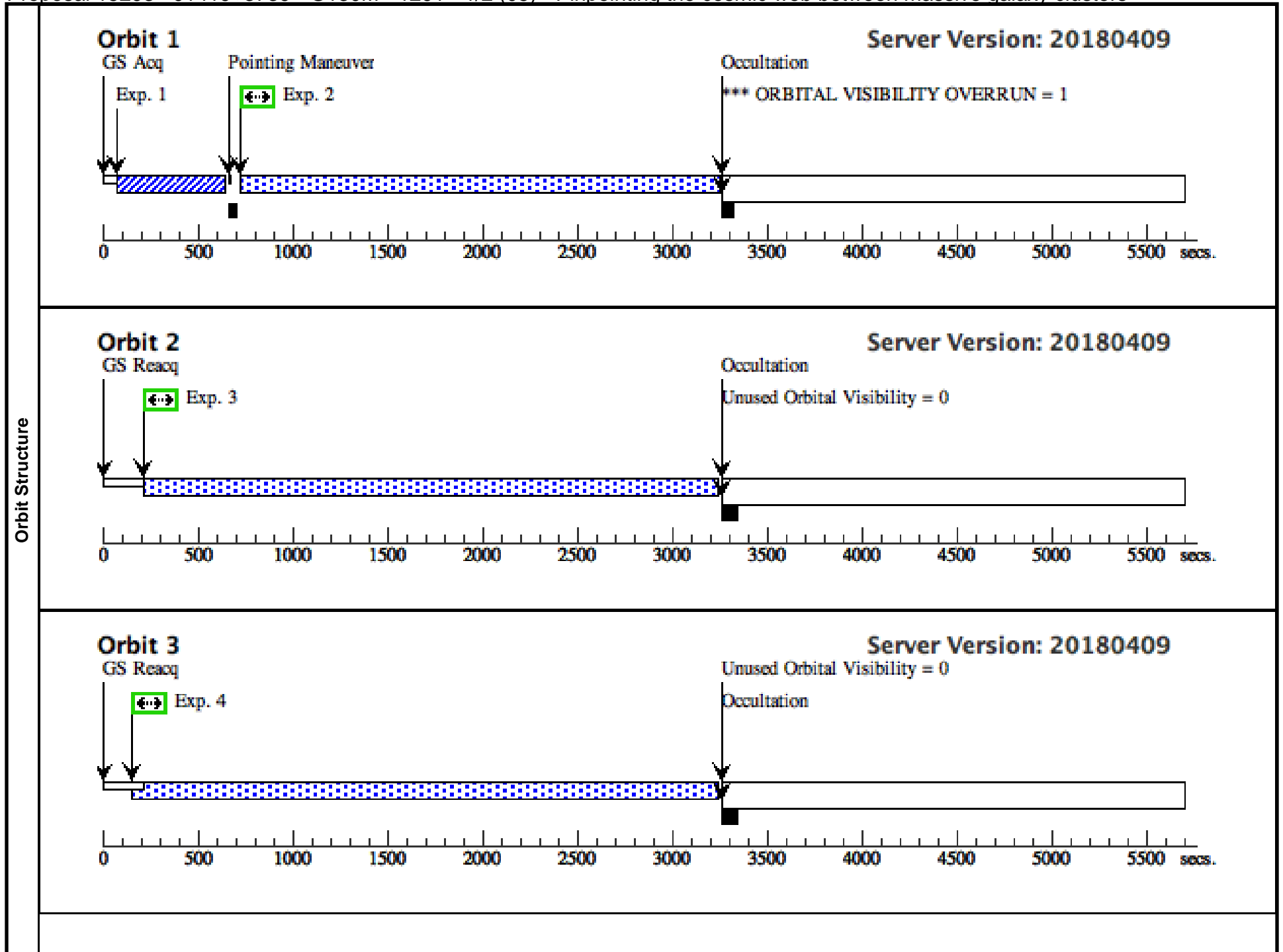
Visit	<p>Proposal 15293, J1410+0910 - G130M - 1291 - 2/2 (21), scheduling</p> <p>Diagnostic Status: Warning</p> <p>Scientific Instruments: COS/FUV, COS/NUV</p> <p>Special Requirements: (none)</p> <p><i>Comments: This visit corresponds to the visit 2/2 of the J1410+0910 using G130M:</i></p> <ul style="list-style-type: none"> - 2 orbits in total - 1 central wavelengths 1291 - 2 segments A+B - 2 FP-POS in total (COS2025 policy) - Buffer times set to 2/3 of that given by the ETC 									
	<p>(J1410+0910 - G130M - 1291 - 2/2 (21)) Warning (Form): For the best data quality, it is strongly recommended that the maximum number of allowed FP-POS positions is used when observing at a given COS CENWAVE setting. See full description for details.</p> <p>(J1410+0910 - G130M - 1291 - 2/2 (21)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN</p>									
Diagnosics										
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(3)	J1410+0910	RA: 14 10 53.4400 (212.7226667d) Dec: +09 10 27.00 (9.17417d) Equinox: J2000		V=16.97 FUV=17.60	Reference Frame: ICRS				
<p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i></p> <p><i>Category=GALAXY</i></p> <p><i>Description=[QSO]</i></p> <p><i>Extended=NO</i></p>										
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	ACQ (COS.im.10 08325)	(3) J1410+0910	COS/NUV, ACQ/IMAGE, PSA	MIRRORA				130 Secs (130 Secs)	
									[==>]	[1]
	2	G130M - 12 91- FP3 - o1 (COS.sp.101 0705)	(3) J1410+0910	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=39 00;	FP-POS=3; SEGMENT=BOTH			1000 Secs (2302 Secs)
									[==>2302.0 Secs]	[1]
3	G130M - 12 91- FP4 - o2 (COS.sp.101 0708)	(3) J1410+0910	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=39 00;	FP-POS=4; SEGMENT=BOTH			1000 Secs (2919 Secs)	
									[==>2919.0 Secs]	[2]

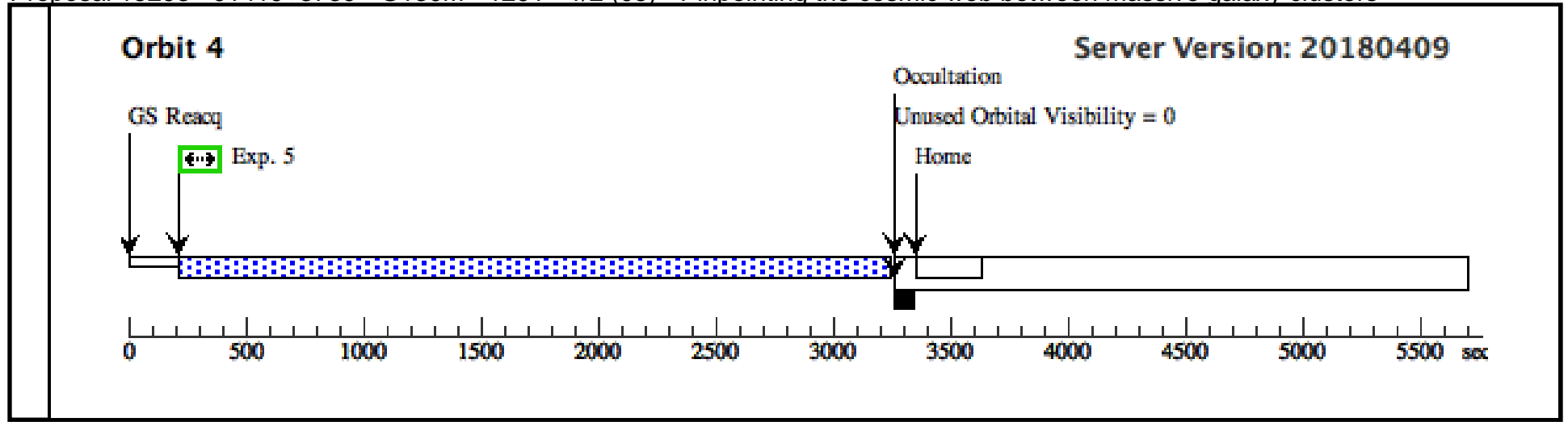


Proposal 15293 - J1419+3739 - G130M - 1291 - 1/2 (05) - Pinpointing the cosmic web between massive galaxy clusters

Thu Aug 02 21:40:32 GMT 2018

Visit	Proposal 15293, J1419+3739 - G130M - 1291 - 1/2 (05), implementation Diagnostic Status: Warning Scientific Instruments: COS/FUV, COS/NUV Special Requirements: (none) <i>Comments: This visit corresponds to the visit 1/2 of the J1419+3739 using G130M:</i> - 4 orbits in total - 1 central wavelengths 1291 - 2 segments A+B - 2 FP-POS in total (COS2025 policy) - Buffer times set to 2/3 of that given by the ETC																																																																				
	Diagnosics (J1419+3739 - G130M - 1291 - 1/2 (05)) Warning (Form): For the best data quality, it is strongly recommended that the maximum number of allowed FP-POS positions is used when observing at a given COS CENWAVE setting. See full description for details. (J1419+3739 - G130M - 1291 - 1/2 (05)) Warning (Orbit Planner): INEFFICIENT ORDERING OF FP-POS POSITIONS (J1419+3739 - G130M - 1291 - 1/2 (05)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN																																																																				
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>J1419+3739</td> <td>RA: 14 19 56.7106 (214.9862942d) Dec: +37 39 12.77 (37.65355d) Equinox: J2000</td> <td></td> <td>V=17.31 FUV=17.85</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> Category=GALAXY Description=[QSO] Extended=NO										#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous	(4)	J1419+3739	RA: 14 19 56.7106 (214.9862942d) Dec: +37 39 12.77 (37.65355d) Equinox: J2000		V=17.31 FUV=17.85	Reference Frame: ICRS																																															
	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous																																																															
(4)	J1419+3739	RA: 14 19 56.7106 (214.9862942d) Dec: +37 39 12.77 (37.65355d) Equinox: J2000		V=17.31 FUV=17.85	Reference Frame: ICRS																																																																
<table border="1"> <thead> <tr> <th>#</th> <th>Label (ETC Run)</th> <th>Target</th> <th>Config,Mode,Aperture</th> <th>Spectral Els.</th> <th>Opt. Params.</th> <th>Special Reqs.</th> <th>Groups</th> <th>Exp. Time (Total)/[Actual Dur.]</th> <th>Orbit</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>ACQ (COS.im.10 08329)</td> <td>(4) J1419+3739</td> <td>COS/NUV, ACQ/IMAGE, PSA</td> <td>MIRRORB</td> <td></td> <td></td> <td></td> <td>130 Secs (130 Secs) [==>]</td> <td>[1]</td> </tr> <tr> <td>2</td> <td>G130M - 12 91- FP3 - o1 (COS.sp.101 0714)</td> <td>(4) J1419+3739</td> <td>COS/FUV, TIME-TAG, PSA</td> <td>G130M 1291 A</td> <td>BUFFER-TIME=43 00; FP-POS=3; SEGMENT=BOTH</td> <td></td> <td></td> <td>1000 Secs (2357 Secs) [==>2357.0 Secs]</td> <td>[1]</td> </tr> <tr> <td>3</td> <td>G130M - 12 91- FP4 - o2 (COS.sp.101 0712)</td> <td>(4) J1419+3739</td> <td>COS/FUV, TIME-TAG, PSA</td> <td>G130M 1291 A</td> <td>BUFFER-TIME=43 00; FP-POS=4; SEGMENT=BOTH</td> <td></td> <td></td> <td>1000 Secs (2974 Secs) [==>2974.0 Secs]</td> <td>[2]</td> </tr> <tr> <td>4</td> <td>G130M - 12 91- FP3 - o3 (COS.sp.101 0712)</td> <td>(4) J1419+3739</td> <td>COS/FUV, TIME-TAG, PSA</td> <td>G130M 1291 A</td> <td>BUFFER-TIME=43 00; FP-POS=3; SEGMENT=BOTH</td> <td></td> <td></td> <td>1000 Secs (2974 Secs) [==>2974.0 Secs]</td> <td>[3]</td> </tr> <tr> <td>5</td> <td>G130M - 12 91- FP4 - o4 (COS.sp.101 0712)</td> <td>(4) J1419+3739</td> <td>COS/FUV, TIME-TAG, PSA</td> <td>G130M 1291 A</td> <td>BUFFER-TIME=43 00; FP-POS=4; SEGMENT=BOTH</td> <td></td> <td></td> <td>1000 Secs (2974 Secs) [==>2974.0 Secs]</td> <td>[4]</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	ACQ (COS.im.10 08329)	(4) J1419+3739	COS/NUV, ACQ/IMAGE, PSA	MIRRORB				130 Secs (130 Secs) [==>]	[1]	2	G130M - 12 91- FP3 - o1 (COS.sp.101 0714)	(4) J1419+3739	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=43 00; FP-POS=3; SEGMENT=BOTH			1000 Secs (2357 Secs) [==>2357.0 Secs]	[1]	3	G130M - 12 91- FP4 - o2 (COS.sp.101 0712)	(4) J1419+3739	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=43 00; FP-POS=4; SEGMENT=BOTH			1000 Secs (2974 Secs) [==>2974.0 Secs]	[2]	4	G130M - 12 91- FP3 - o3 (COS.sp.101 0712)	(4) J1419+3739	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=43 00; FP-POS=3; SEGMENT=BOTH			1000 Secs (2974 Secs) [==>2974.0 Secs]	[3]	5	G130M - 12 91- FP4 - o4 (COS.sp.101 0712)	(4) J1419+3739	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=43 00; FP-POS=4; SEGMENT=BOTH			1000 Secs (2974 Secs) [==>2974.0 Secs]	[4]
#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit																																																												
1	ACQ (COS.im.10 08329)	(4) J1419+3739	COS/NUV, ACQ/IMAGE, PSA	MIRRORB				130 Secs (130 Secs) [==>]	[1]																																																												
2	G130M - 12 91- FP3 - o1 (COS.sp.101 0714)	(4) J1419+3739	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=43 00; FP-POS=3; SEGMENT=BOTH			1000 Secs (2357 Secs) [==>2357.0 Secs]	[1]																																																												
3	G130M - 12 91- FP4 - o2 (COS.sp.101 0712)	(4) J1419+3739	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=43 00; FP-POS=4; SEGMENT=BOTH			1000 Secs (2974 Secs) [==>2974.0 Secs]	[2]																																																												
4	G130M - 12 91- FP3 - o3 (COS.sp.101 0712)	(4) J1419+3739	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=43 00; FP-POS=3; SEGMENT=BOTH			1000 Secs (2974 Secs) [==>2974.0 Secs]	[3]																																																												
5	G130M - 12 91- FP4 - o4 (COS.sp.101 0712)	(4) J1419+3739	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=43 00; FP-POS=4; SEGMENT=BOTH			1000 Secs (2974 Secs) [==>2974.0 Secs]	[4]																																																												

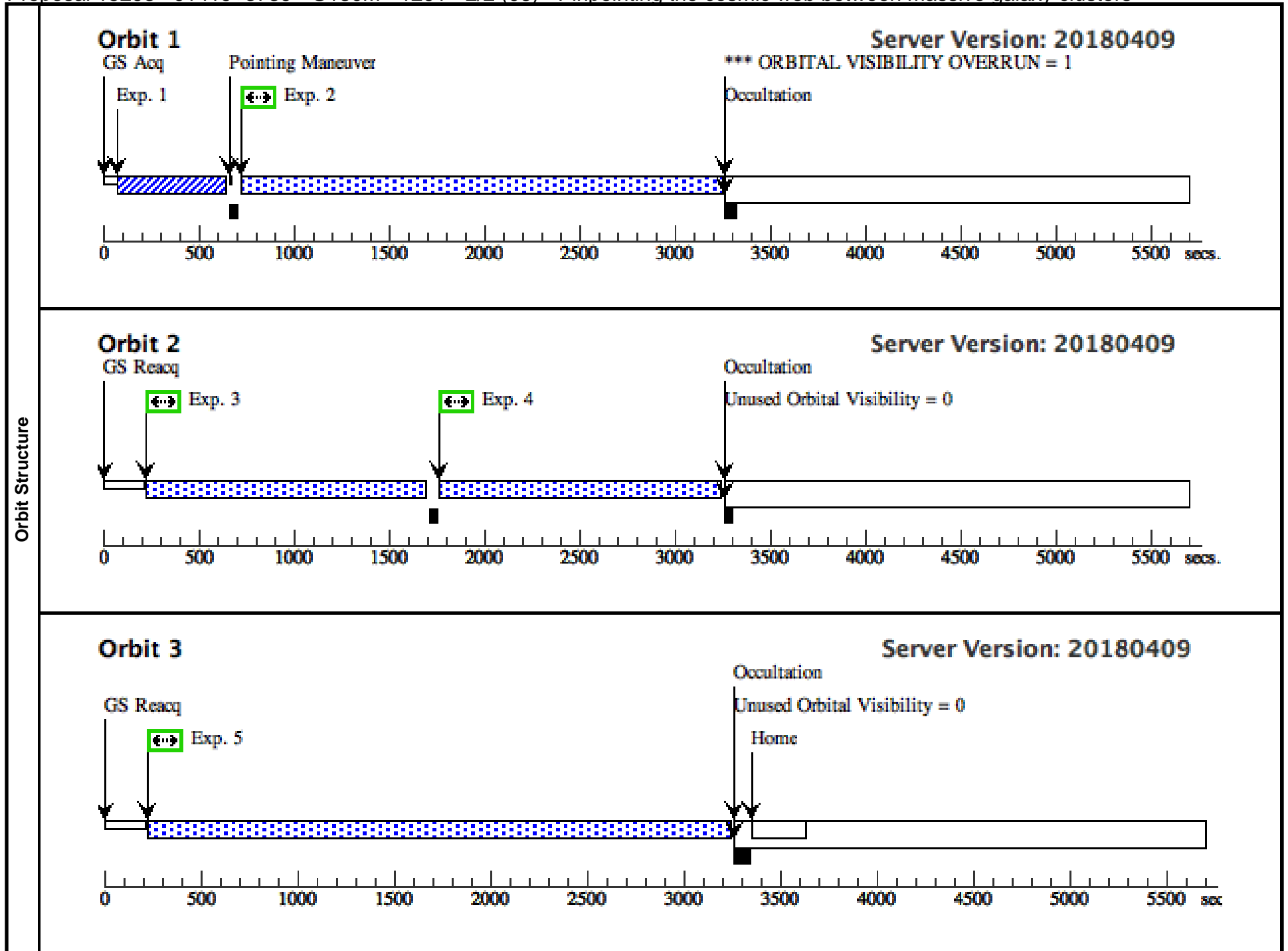




Proposal 15293 - J1419+3739 - G130M - 1291 - 2/2 (06) - Pinpointing the cosmic web between massive galaxy clusters

Thu Aug 02 21:40:32 GMT 2018

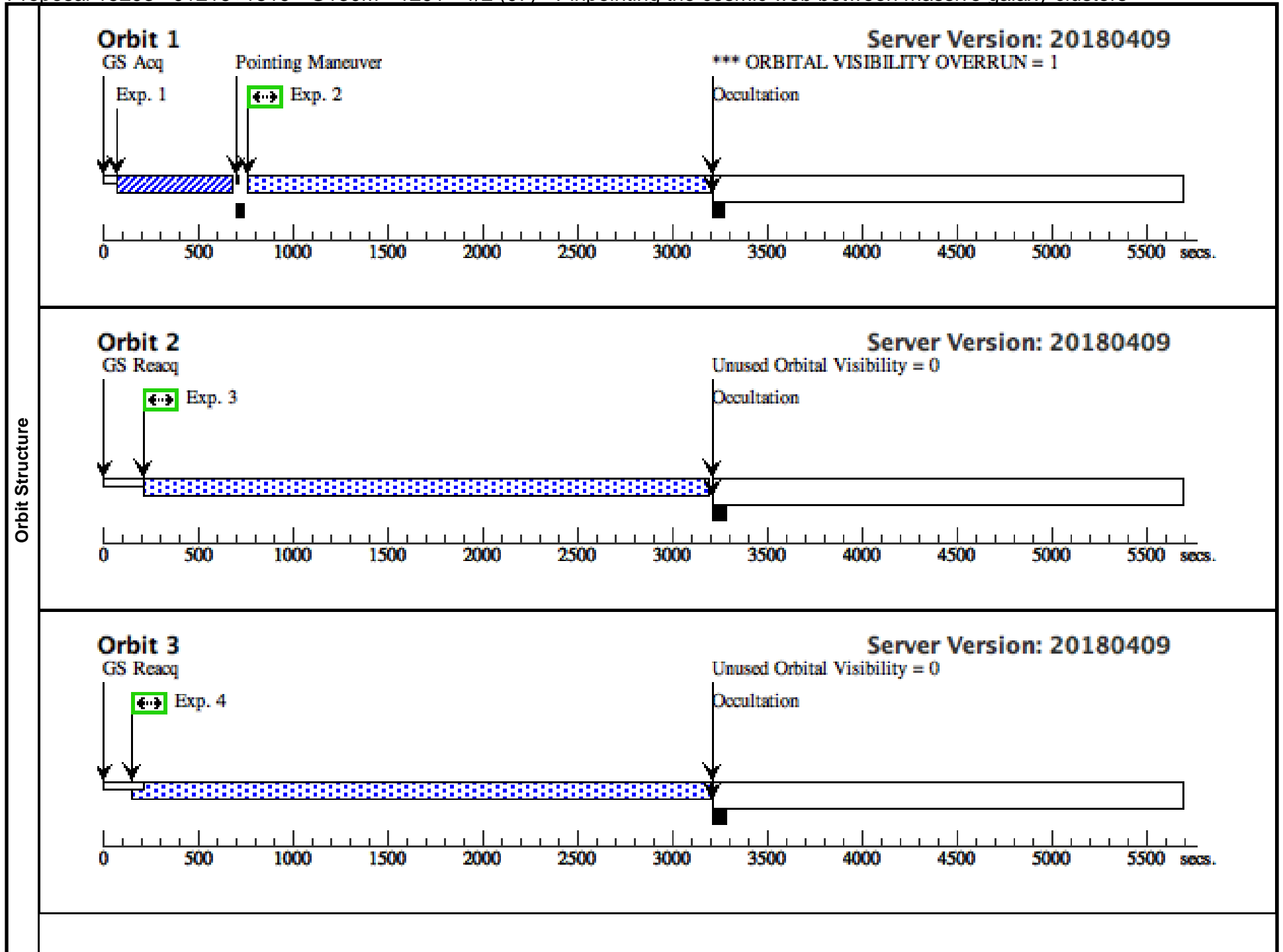
Visit	Proposal 15293, J1419+3739 - G130M - 1291 - 2/2 (06), implementation Diagnostic Status: Warning Scientific Instruments: COS/FUV, COS/NUV Special Requirements: (none) <i>Comments: This visit corresponds to the visit 2/2 of the J1419+3739 using G130M:</i> - 3 orbits in total - 1 central wavelengths 1291 - 2 segments A+B - 2 FP-POS in total (COS2025 policy) - Buffer times set to 2/3 of that given by the ETC																					
	(J1419+3739 - G130M - 1291 - 2/2 (06)) Warning (Form): For the best data quality, it is strongly recommended that the maximum number of allowed FP-POS positions is used when observing at a given COS CENWAVE setting. See full description for details. (J1419+3739 - G130M - 1291 - 2/2 (06)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN																					
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>J1419+3739</td> <td>RA: 14 19 56.7106 (214.9862942d) Dec: +37 39 12.77 (37.65355d) Equinox: J2000</td> <td></td> <td>V=17.31 FUV=17.85</td> <td>Reference Frame: ICRS</td> </tr> </tbody> </table>										#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous	(4)	J1419+3739	RA: 14 19 56.7106 (214.9862942d) Dec: +37 39 12.77 (37.65355d) Equinox: J2000		V=17.31 FUV=17.85	Reference Frame: ICRS
	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous																
(4)	J1419+3739	RA: 14 19 56.7106 (214.9862942d) Dec: +37 39 12.77 (37.65355d) Equinox: J2000		V=17.31 FUV=17.85	Reference Frame: ICRS																	
<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> Category=GALAXY Description=[QSO] Extended=NO																						
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit												
	1	ACQ (COS.im.10 08329)	(4) J1419+3739	COS/NUV, ACQ/IMAGE, PSA	MIRRORB				130 Secs (130 Secs) [==>]	[1]												
	2	G130M - 12 91- FP3 - o1 (COS.sp.101 0714)	(4) J1419+3739	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=43 00; FP-POS=3; SEGMENT=BOTH			1000 Secs (2357 Secs) [==>2357.0 Secs]	[1]												
	3	G130M - 12 91- FP3 - o2 (COS.sp.101 0715)	(4) J1419+3739	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=43 00; FP-POS=3; SEGMENT=BOTH			1000 Secs (1425 Secs) [==>1425.0 Secs]	[2]												
	4	G130M - 12 91- FP4 - o2 (COS.sp.101 0715)	(4) J1419+3739	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=43 00; FP-POS=4; SEGMENT=BOTH			1000 Secs (1425 Secs) [==>1425.0 Secs]	[2]												
	5	G130M - 12 91- FP4 - o3 (COS.sp.101 0712)	(4) J1419+3739	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=43 00; FP-POS=4; SEGMENT=BOTH			1000 Secs (2974 Secs) [==>2974.0 Secs]	[3]												

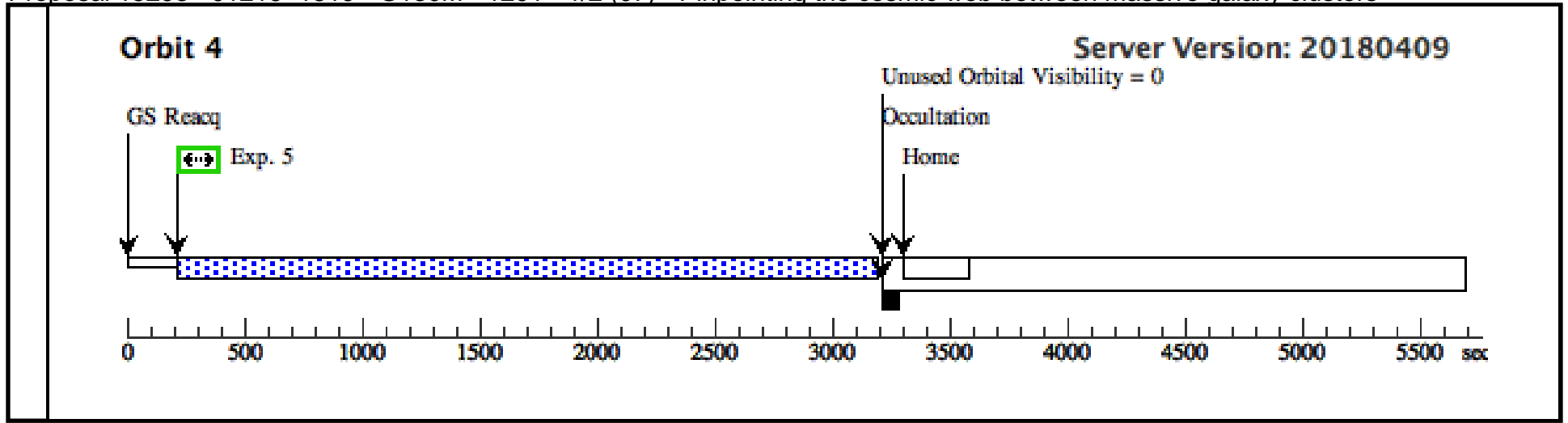


Proposal 15293 - J1216+1819 - G130M - 1291 - 1/2 (07) - Pinpointing the cosmic web between massive galaxy clusters

Thu Aug 02 21:40:32 GMT 2018

Visit	Proposal 15293, J1216+1819 - G130M - 1291 - 1/2 (07), implementation Diagnostic Status: Warning Scientific Instruments: COS/FUV, COS/NUV Special Requirements: (none) <i>Comments: This visit corresponds to the visit 1/2 of the J1216+1819 using G130M:</i> - 4 orbits in total - 1 central wavelengths 1291 - 2 segments A+B - 2 FP-POS in total (COS2025 policy) - Buffer times set to 2/3 of that given by the ETC																																																																				
	Diagnosics (J1216+1819 - G130M - 1291 - 1/2 (07)) Warning (Form): For the best data quality, it is strongly recommended that the maximum number of allowed FP-POS positions is used when observing at a given COS CENWAVE setting. See full description for details. (J1216+1819 - G130M - 1291 - 1/2 (07)) Warning (Orbit Planner): INEFFICIENT ORDERING OF FP-POS POSITIONS (J1216+1819 - G130M - 1291 - 1/2 (07)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN																																																																				
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>(5)</td> <td>J1216+1819</td> <td>RA: 12 16 33.5650 (184.1398542d) Dec: +18 19 7.17 (18.31866d) Equinox: J2000</td> <td></td> <td>V=17.84 FUV=18.07</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> Category=GALAXY Description=[QSO] Extended=NO										#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous	(5)	J1216+1819	RA: 12 16 33.5650 (184.1398542d) Dec: +18 19 7.17 (18.31866d) Equinox: J2000		V=17.84 FUV=18.07	Reference Frame: ICRS																																															
	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous																																																															
(5)	J1216+1819	RA: 12 16 33.5650 (184.1398542d) Dec: +18 19 7.17 (18.31866d) Equinox: J2000		V=17.84 FUV=18.07	Reference Frame: ICRS																																																																
<table border="1"> <thead> <tr> <th>#</th> <th>Label (ETC Run)</th> <th>Target</th> <th>Config,Mode,Aperture</th> <th>Spectral Els.</th> <th>Opt. Params.</th> <th>Special Reqs.</th> <th>Groups</th> <th>Exp. Time (Total)/[Actual Dur.]</th> <th>Orbit</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>ACQ (COS.im.10 08334)</td> <td>(5) J1216+1819</td> <td>COS/NUV, ACQ/IMAGE, PSA</td> <td>MIRRORB</td> <td></td> <td></td> <td></td> <td>150 Secs (150 Secs) [==>]</td> <td>[1]</td> </tr> <tr> <td>2</td> <td>G130M - 12 91- FP3 - o1 (COS.sp.101 0718)</td> <td>(5) J1216+1819</td> <td>COS/FUV, TIME-TAG, PSA</td> <td>G130M 1291 A</td> <td>BUFFER-TIME=46 00; FP-POS=3; SEGMENT=BOTH</td> <td></td> <td></td> <td>1000 Secs (2273 Secs) [==>2273.0 Secs]</td> <td>[1]</td> </tr> <tr> <td>3</td> <td>G130M - 12 91- FP4 - o2 (COS.sp.101 0719)</td> <td>(5) J1216+1819</td> <td>COS/FUV, TIME-TAG, PSA</td> <td>G130M 1291 A</td> <td>BUFFER-TIME=46 00; FP-POS=4; SEGMENT=BOTH</td> <td></td> <td></td> <td>1000 Secs (2930 Secs) [==>2930.0 Secs]</td> <td>[2]</td> </tr> <tr> <td>4</td> <td>G130M - 12 91- FP3 - o3 (COS.sp.101 0719)</td> <td>(5) J1216+1819</td> <td>COS/FUV, TIME-TAG, PSA</td> <td>G130M 1291 A</td> <td>BUFFER-TIME=46 00; FP-POS=3; SEGMENT=BOTH</td> <td></td> <td></td> <td>1000 Secs (2930 Secs) [==>2930.0 Secs]</td> <td>[3]</td> </tr> <tr> <td>5</td> <td>G130M - 12 91- FP4 - o4 (COS.sp.101 0719)</td> <td>(5) J1216+1819</td> <td>COS/FUV, TIME-TAG, PSA</td> <td>G130M 1291 A</td> <td>BUFFER-TIME=46 00; FP-POS=4; SEGMENT=BOTH</td> <td></td> <td></td> <td>1000 Secs (2930 Secs) [==>2930.0 Secs]</td> <td>[4]</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	ACQ (COS.im.10 08334)	(5) J1216+1819	COS/NUV, ACQ/IMAGE, PSA	MIRRORB				150 Secs (150 Secs) [==>]	[1]	2	G130M - 12 91- FP3 - o1 (COS.sp.101 0718)	(5) J1216+1819	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=46 00; FP-POS=3; SEGMENT=BOTH			1000 Secs (2273 Secs) [==>2273.0 Secs]	[1]	3	G130M - 12 91- FP4 - o2 (COS.sp.101 0719)	(5) J1216+1819	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=46 00; FP-POS=4; SEGMENT=BOTH			1000 Secs (2930 Secs) [==>2930.0 Secs]	[2]	4	G130M - 12 91- FP3 - o3 (COS.sp.101 0719)	(5) J1216+1819	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=46 00; FP-POS=3; SEGMENT=BOTH			1000 Secs (2930 Secs) [==>2930.0 Secs]	[3]	5	G130M - 12 91- FP4 - o4 (COS.sp.101 0719)	(5) J1216+1819	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=46 00; FP-POS=4; SEGMENT=BOTH			1000 Secs (2930 Secs) [==>2930.0 Secs]	[4]
#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit																																																												
1	ACQ (COS.im.10 08334)	(5) J1216+1819	COS/NUV, ACQ/IMAGE, PSA	MIRRORB				150 Secs (150 Secs) [==>]	[1]																																																												
2	G130M - 12 91- FP3 - o1 (COS.sp.101 0718)	(5) J1216+1819	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=46 00; FP-POS=3; SEGMENT=BOTH			1000 Secs (2273 Secs) [==>2273.0 Secs]	[1]																																																												
3	G130M - 12 91- FP4 - o2 (COS.sp.101 0719)	(5) J1216+1819	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=46 00; FP-POS=4; SEGMENT=BOTH			1000 Secs (2930 Secs) [==>2930.0 Secs]	[2]																																																												
4	G130M - 12 91- FP3 - o3 (COS.sp.101 0719)	(5) J1216+1819	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=46 00; FP-POS=3; SEGMENT=BOTH			1000 Secs (2930 Secs) [==>2930.0 Secs]	[3]																																																												
5	G130M - 12 91- FP4 - o4 (COS.sp.101 0719)	(5) J1216+1819	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=46 00; FP-POS=4; SEGMENT=BOTH			1000 Secs (2930 Secs) [==>2930.0 Secs]	[4]																																																												

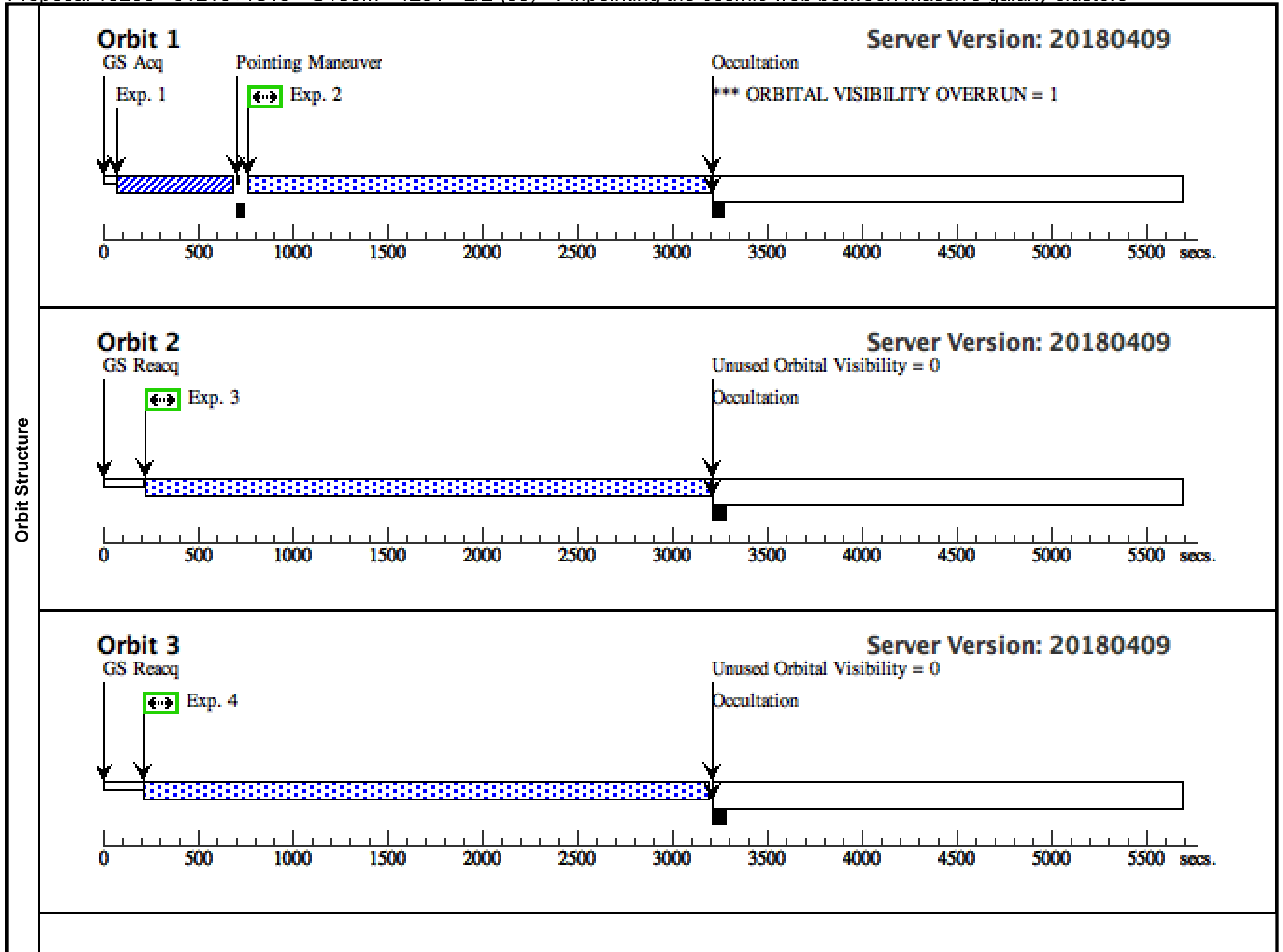


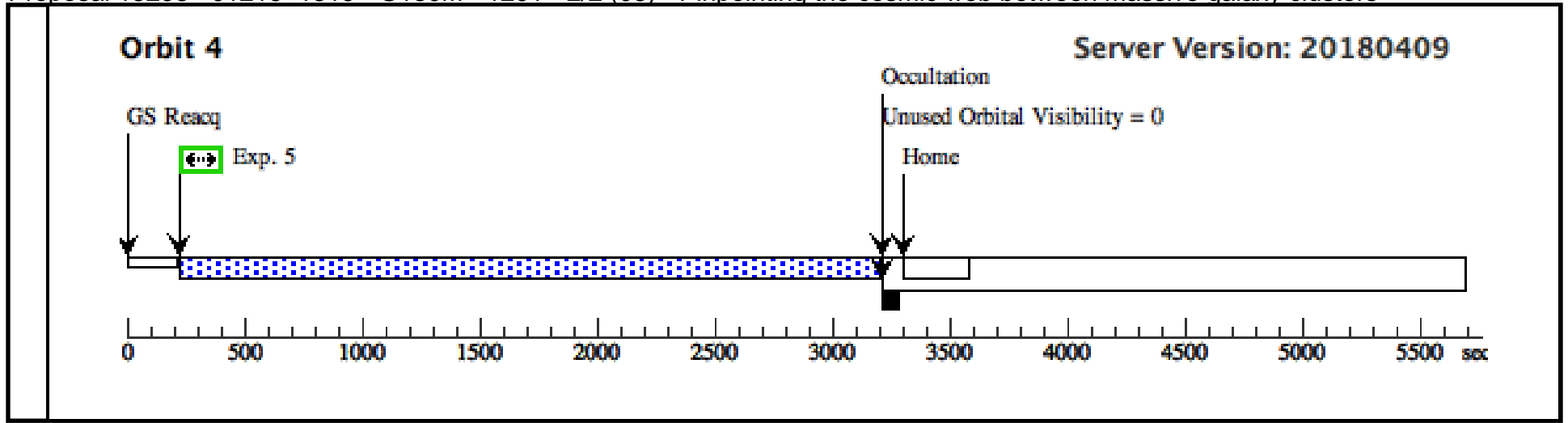


Proposal 15293 - J1216+1819 - G130M - 1291 - 2/2 (08) - Pinpointing the cosmic web between massive galaxy clusters

Thu Aug 02 21:40:32 GMT 2018

Visit	Proposal 15293, J1216+1819 - G130M - 1291 - 2/2 (08), implementation Diagnostic Status: Warning Scientific Instruments: COS/FUV, COS/NUV Special Requirements: (none) Comments: This visit corresponds to the visit 2/2 of the J1216+1819 using G130M: - 4 orbits in total - 1 central wavelengths 1291 - 2 segments A+B - 2 FP-POS in total (COS2025 policy) - Buffer times set to 2/3 of that given by the ETC									
	(J1216+1819 - G130M - 1291 - 2/2 (08)) Warning (Form): For the best data quality, it is strongly recommended that the maximum number of allowed FP-POS positions is used when observing at a given COS CENWAVE setting. See full description for details. (J1216+1819 - G130M - 1291 - 2/2 (08)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN									
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(5)	J1216+1819	RA: 12 16 33.5650 (184.1398542d) Dec: +18 19 7.17 (18.31866d) Equinox: J2000		V=17.84 FUV=18.07	Reference Frame: ICRS				
Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. Category=GALAXY Description=[QSO] Extended=NO										
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	ACQ (COS.im.10 08334)	(5) J1216+1819	COS/NUV, ACQ/IMAGE, PSA	MIRRORB				150 Secs (150 Secs)	
									[==>]	[1]
	2	G130M - 12 91- FP3 - o1 (COS.sp.101 0718)	(5) J1216+1819	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=46 00; FP-POS=3; SEGMENT=BOTH			1000 Secs (2273 Secs)	
									[==>2273.0 Secs]	[1]
	3	G130M - 12 91- FP3 - o2 (COS.sp.101 0719)	(5) J1216+1819	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=46 00; FP-POS=3; SEGMENT=BOTH			1000 Secs (2930 Secs)	
								[==>2930.0 Secs]	[2]	
4	G130M - 12 91- FP4 - o3 (COS.sp.101 0719)	(5) J1216+1819	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=46 00; FP-POS=4; SEGMENT=BOTH			1000 Secs (2930 Secs)		
								[==>2930.0 Secs]	[3]	
5	G130M - 12 91- FP4 - o4 (COS.sp.101 0719)	(5) J1216+1819	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=46 00; FP-POS=4; SEGMENT=BOTH			1000 Secs (2930 Secs)		
								[==>2930.0 Secs]	[4]	

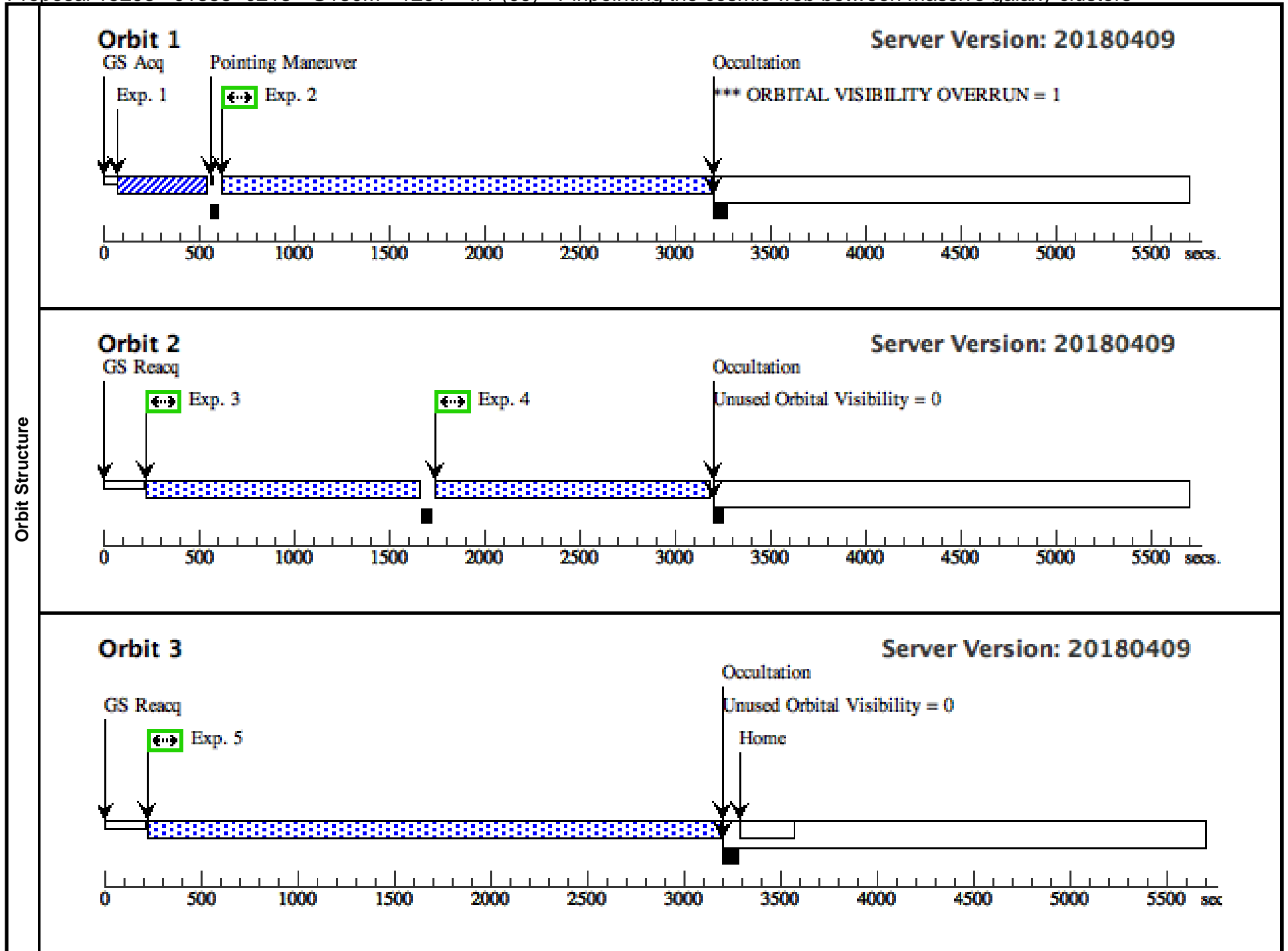




Proposal 15293 - J1358+0213 - G130M - 1291 - 1/1 (09) - Pinpointing the cosmic web between massive galaxy clusters

Thu Aug 02 21:40:32 GMT 2018

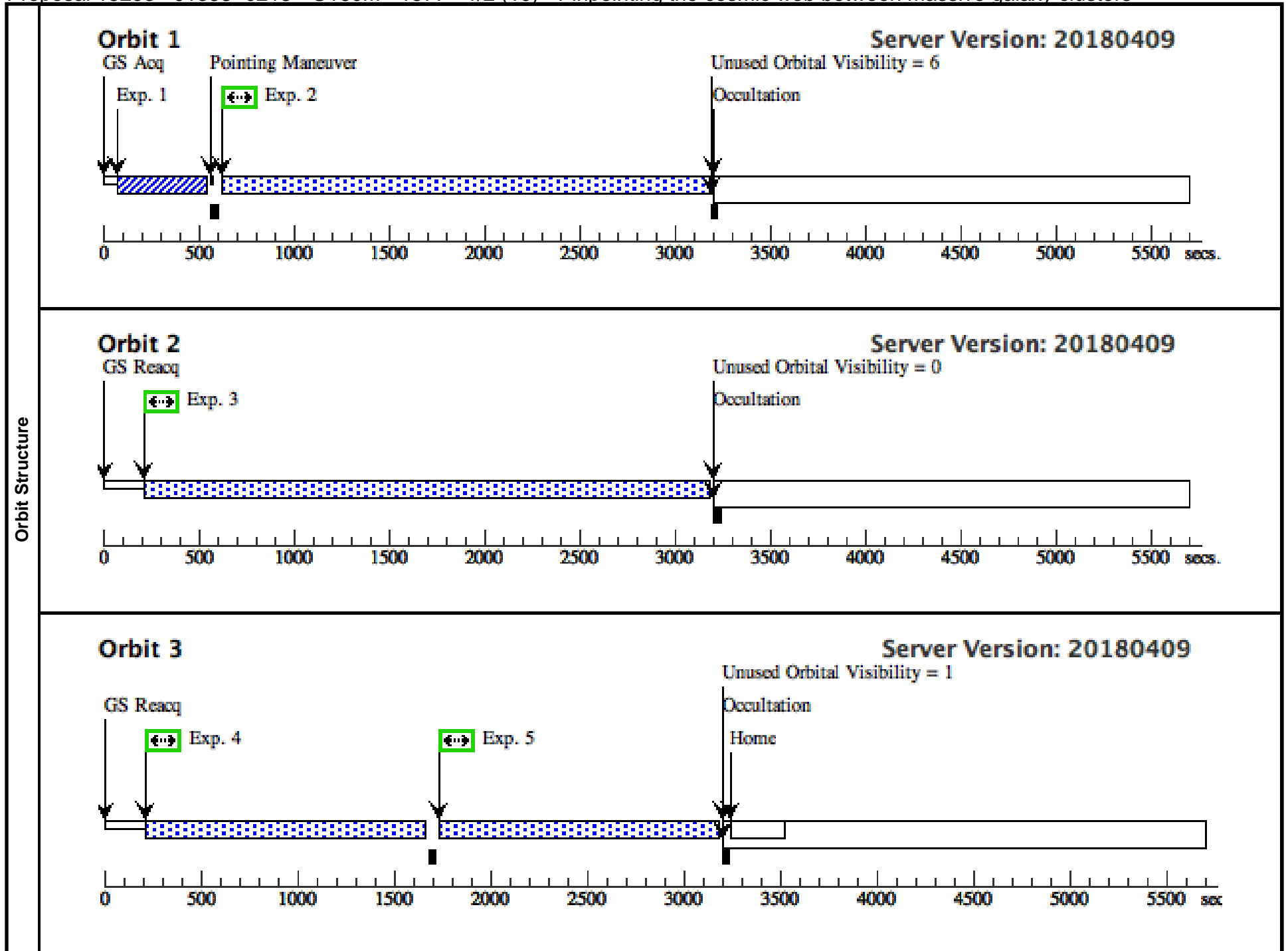
Visit	<p>Proposal 15293, J1358+0213 - G130M - 1291 - 1/1 (09), scheduled</p> <p>Diagnostic Status: Warning</p> <p>Scientific Instruments: COS/FUV, COS/NUV</p> <p>Special Requirements: (none)</p> <p><i>Comments: This visit corresponds to the visit 1/1 of the J1358+0213 using G130M:</i></p> <ul style="list-style-type: none"> - 3 orbits in total - 1 central wavelengths 1291 - 2 segments A+B - 2 FP-POS in total (COS2025 policy) - Buffer times set to 2/3 of that given by the ETC 																																																																	
	<p>(J1358+0213 - G130M - 1291 - 1/1 (09)) Warning (Form): For the best data quality, it is strongly recommended that the maximum number of allowed FP-POS positions is used when observing at a given COS CENWAVE setting. See full description for details.</p> <p>(J1358+0213 - G130M - 1291 - 1/1 (09)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN</p>																																																																	
Fixed Targets	<table border="1" style="width: 100%; border-collapse: collapse;"> <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>J1358+0213</td> <td>RA: 13 58 23.9890 (209.5999542d) Dec: +02 13 43.82 (2.22884d) Equinox: J2000</td> <td></td> <td>V=15.88 FUV=17.53</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></p> <p>Category=GALAXY Description=[QSO] Extended=NO</p>						#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous	(6)	J1358+0213	RA: 13 58 23.9890 (209.5999542d) Dec: +02 13 43.82 (2.22884d) Equinox: J2000		V=15.88 FUV=17.53	Reference Frame: ICRS																																																
	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous																																																												
(6)	J1358+0213	RA: 13 58 23.9890 (209.5999542d) Dec: +02 13 43.82 (2.22884d) Equinox: J2000		V=15.88 FUV=17.53	Reference Frame: ICRS																																																													
Exposures	<table border="1" style="width: 100%; border-collapse: collapse;"> <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>ACQ (COS.im.10 08341)</td> <td>(6) J1358+0213</td> <td>COS/NUV, ACQ/IMAGE, PSA</td> <td>MIRRORB</td> <td></td> <td></td> <td></td> <td>80 Secs (80 Secs) [==>]</td> <td>[1]</td> </tr> <tr> <td>2</td> <td>G130M - 12 91 - FP3 - o 1 (COS.sp.101 0720)</td> <td>(6) J1358+0213</td> <td>COS/FUV, TIME-TAG, PSA</td> <td>G130M 1291 A</td> <td>FP-POS=3; BUFFER-TIME=3900; SEGMENT=BOTH</td> <td></td> <td></td> <td>1000 Secs (2399 Secs) [==>2399.0 Secs]</td> <td>[1]</td> </tr> <tr> <td>3</td> <td>G130M - 12 91 - FP3 - o 2 (COS.sp.101 0721)</td> <td>(6) J1358+0213</td> <td>COS/FUV, TIME-TAG, PSA</td> <td>G130M 1291 A</td> <td>FP-POS=3; BUFFER-TIME=3900; SEGMENT=BOTH</td> <td></td> <td></td> <td>1000 Secs (1391 Secs) [==>1391.0 Secs]</td> <td>[2]</td> </tr> <tr> <td>4</td> <td>G130M - 12 91 - FP4 - o 2 (COS.sp.101 0721)</td> <td>(6) J1358+0213</td> <td>COS/FUV, TIME-TAG, PSA</td> <td>G130M 1291 A</td> <td>FP-POS=4; BUFFER-TIME=3900; SEGMENT=BOTH</td> <td></td> <td></td> <td>1000 Secs (1391 Secs) [==>1391.0 Secs]</td> <td>[2]</td> </tr> <tr> <td>5</td> <td>G130M - 12 91 - FP4 - o 3 (COS.sp.101 0722)</td> <td>(6) J1358+0213</td> <td>COS/FUV, TIME-TAG, PSA</td> <td>G130M 1291 A</td> <td>FP-POS=4; BUFFER-TIME=3900; SEGMENT=BOTH</td> <td></td> <td></td> <td>1000 Secs (2916 Secs) [==>2916.0 Secs]</td> <td>[3]</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	ACQ (COS.im.10 08341)	(6) J1358+0213	COS/NUV, ACQ/IMAGE, PSA	MIRRORB				80 Secs (80 Secs) [==>]	[1]	2	G130M - 12 91 - FP3 - o 1 (COS.sp.101 0720)	(6) J1358+0213	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=3; BUFFER-TIME=3900; SEGMENT=BOTH			1000 Secs (2399 Secs) [==>2399.0 Secs]	[1]	3	G130M - 12 91 - FP3 - o 2 (COS.sp.101 0721)	(6) J1358+0213	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=3; BUFFER-TIME=3900; SEGMENT=BOTH			1000 Secs (1391 Secs) [==>1391.0 Secs]	[2]	4	G130M - 12 91 - FP4 - o 2 (COS.sp.101 0721)	(6) J1358+0213	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=4; BUFFER-TIME=3900; SEGMENT=BOTH			1000 Secs (1391 Secs) [==>1391.0 Secs]	[2]	5	G130M - 12 91 - FP4 - o 3 (COS.sp.101 0722)	(6) J1358+0213	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=4; BUFFER-TIME=3900; SEGMENT=BOTH			1000 Secs (2916 Secs) [==>2916.0 Secs]	[3]
	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit																																																								
	1	ACQ (COS.im.10 08341)	(6) J1358+0213	COS/NUV, ACQ/IMAGE, PSA	MIRRORB				80 Secs (80 Secs) [==>]	[1]																																																								
	2	G130M - 12 91 - FP3 - o 1 (COS.sp.101 0720)	(6) J1358+0213	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=3; BUFFER-TIME=3900; SEGMENT=BOTH			1000 Secs (2399 Secs) [==>2399.0 Secs]	[1]																																																								
	3	G130M - 12 91 - FP3 - o 2 (COS.sp.101 0721)	(6) J1358+0213	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=3; BUFFER-TIME=3900; SEGMENT=BOTH			1000 Secs (1391 Secs) [==>1391.0 Secs]	[2]																																																								
	4	G130M - 12 91 - FP4 - o 2 (COS.sp.101 0721)	(6) J1358+0213	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=4; BUFFER-TIME=3900; SEGMENT=BOTH			1000 Secs (1391 Secs) [==>1391.0 Secs]	[2]																																																								
5	G130M - 12 91 - FP4 - o 3 (COS.sp.101 0722)	(6) J1358+0213	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=4; BUFFER-TIME=3900; SEGMENT=BOTH			1000 Secs (2916 Secs) [==>2916.0 Secs]	[3]																																																									



Proposal 15293 - J1358+0213 - G160M - 1577 - 1/2 (10) - Pinpointing the cosmic web between massive galaxy clusters

Thu Aug 02 21:40:32 GMT 2018

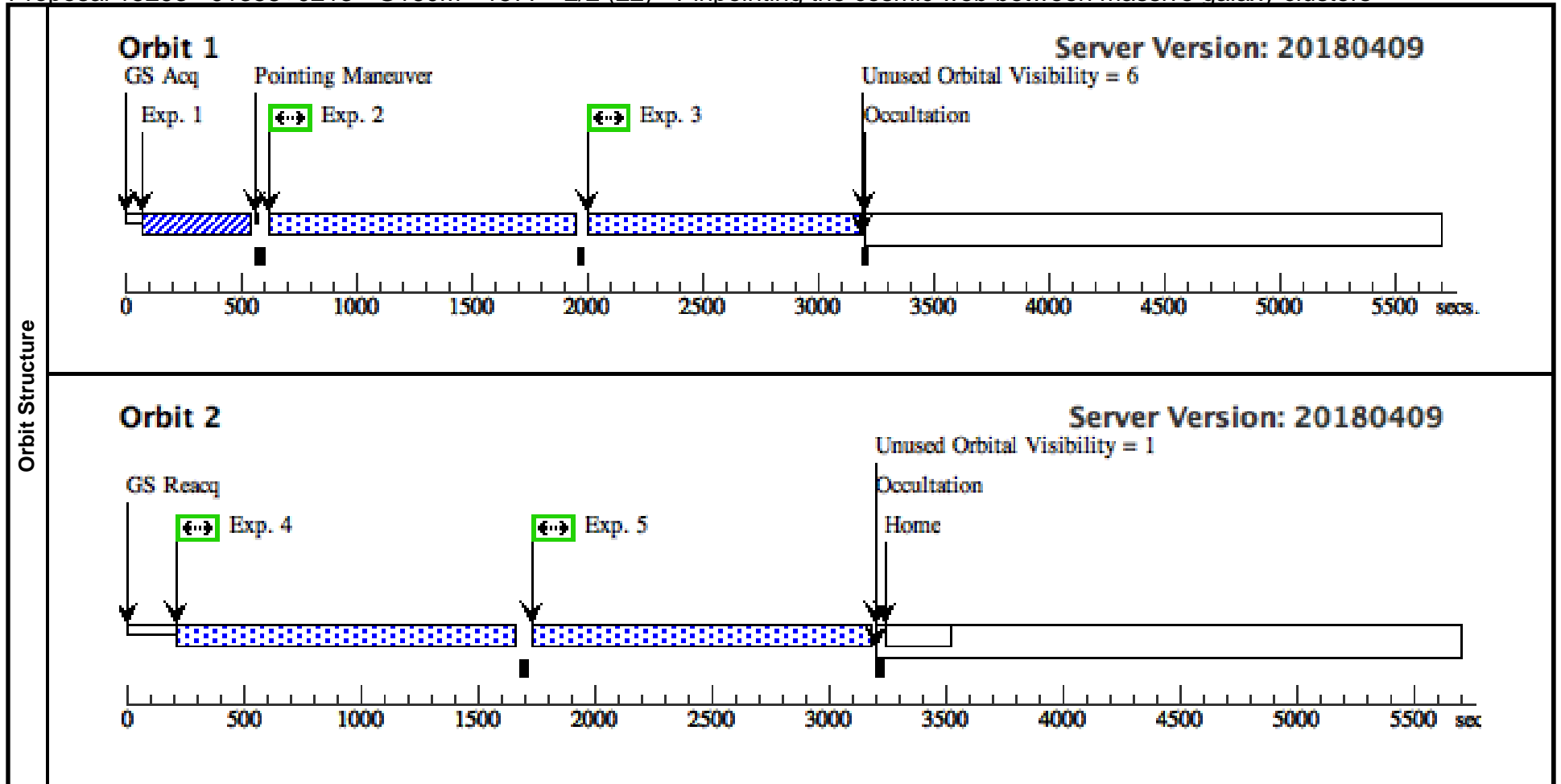
Visit	Proposal 15293, J1358+0213 - G160M - 1577 - 1/2 (10), scheduling Diagnostic Status: No Diagnostics Scientific Instruments: COS/FUV, COS/NUV Special Requirements: (none) Comments: This visit corresponds to the visit 1/2 of the J1358+0213 using G160M: - 3 orbits in total - 1 central wavelengths 1577 - 2 segments A+B - 4 FP-POS in total - Buffer times set to 2/3 of that given by the ETC									
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(6)	J1358+0213	RA: 13 58 23.9890 (209.5999542d) Dec: +02 13 43.82 (2.22884d) Equinox: J2000		V=15.88 FUV=17.53	Reference Frame: ICRS				
Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. Category=GALAXY Description=[QSO] Extended=NO										
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	ACQ (COS.im.10 08341)	(6) J1358+0213	COS/NUV, ACQ/IMAGE, PSA	MIRRORB				80 Secs (80 Secs) [==>]	[1]
	2	G160M - 15 77 - FP1 - o 1 (COS.sp.101 0767)	(6) J1358+0213	COS/FUV, TIME-TAG, PSA	G160M 1577 A	FP-POS=1; BUFFER-TIME=10 616; SEGMENT=BOTH			1000 Secs (2351 Secs) [==>2351.0 Secs]	[1]
	3	G160M - 15 77 - FP2 - o 2 (COS.sp.101 0768)	(6) J1358+0213	COS/FUV, TIME-TAG, PSA	G160M 1577 A	FP-POS=2; BUFFER-TIME=10 616; SEGMENT=BOTH			1000 Secs (2916 Secs) [==>2916.0 Secs]	[2]
	4	G160M - 15 77 - FP3 - o 3 (COS.sp.101 0769)	(6) J1358+0213	COS/FUV, TIME-TAG, PSA	G160M 1577 A	FP-POS=3; BUFFER-TIME=10 616; SEGMENT=BOTH			1000 Secs (1400 Secs) [==>1400.0 Secs]	[3]
	5	G160M - 15 77 - FP4 - o 3 (COS.sp.101 0769)	(6) J1358+0213	COS/FUV, TIME-TAG, PSA	G160M 1577 A	FP-POS=4; BUFFER-TIME=10 616; SEGMENT=BOTH			1000 Secs (1400 Secs) [==>1400.0 Secs]	[3]



Proposal 15293 - J1358+0213 - G160M - 1577 - 2/2 (22) - Pinpointing the cosmic web between massive galaxy clusters

Thu Aug 02 21:40:32 GMT 2018

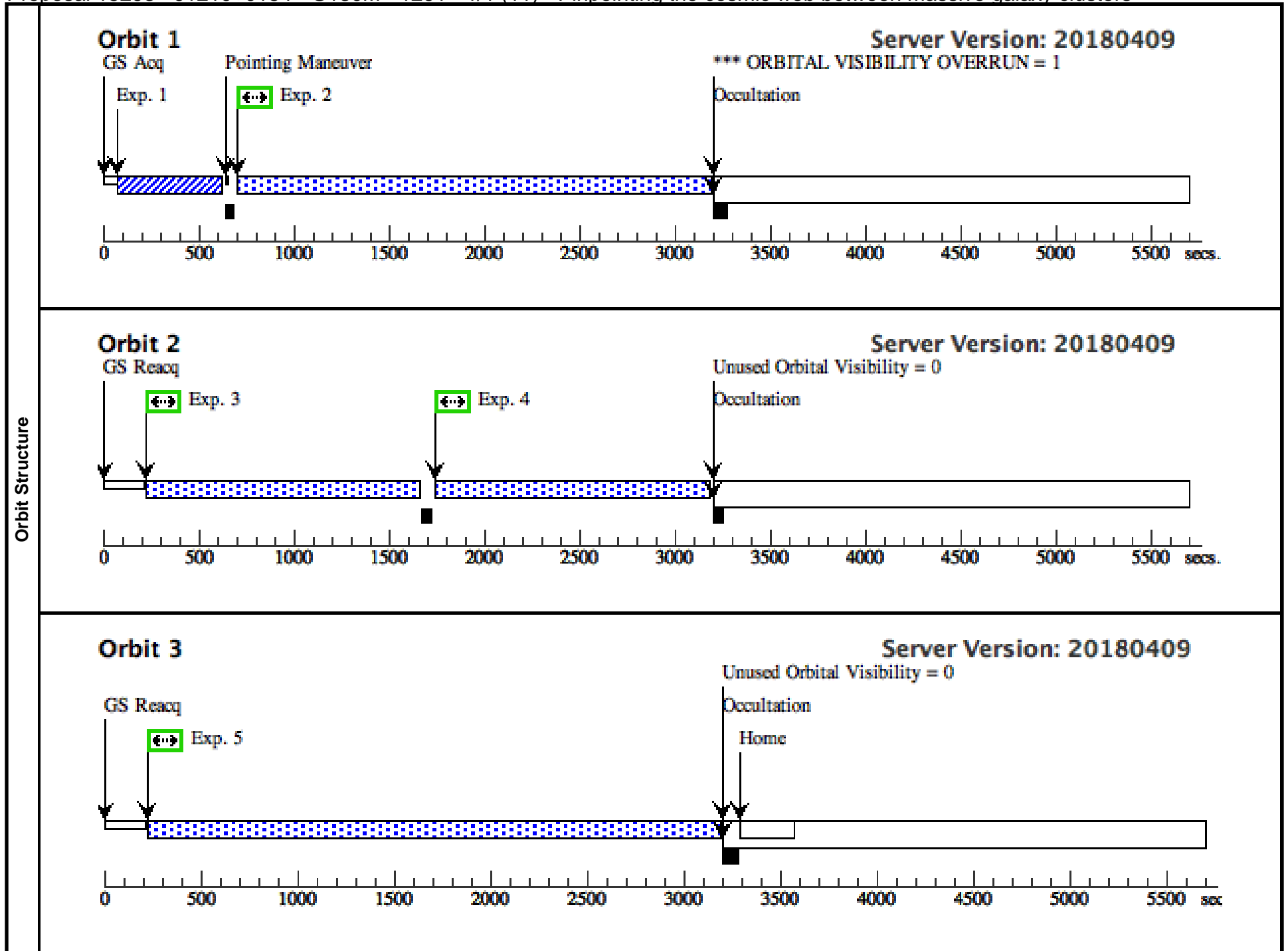
Visit	<p>Proposal 15293, J1358+0213 - G160M - 1577 - 2/2 (22), scheduled</p> <p>Diagnostic Status: No Diagnostics</p> <p>Scientific Instruments: COS/FUV, COS/NUV</p> <p>Special Requirements: (none)</p> <p><i>Comments: This visit corresponds to the visit 2/2 of the J1358+0213 using G160M:</i></p> <ul style="list-style-type: none"> - 2 orbits in total - 1 central wavelengths 1577 - 2 segments A+B - 4 FP-POS in total - Buffer times set to 2/3 of that given by the ETC 																				
	<p>Fixed Targets</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <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>J1358+0213</td> <td>RA: 13 58 23.9890 (209.5999542d) Dec: +02 13 43.82 (2.22884d) Equinox: J2000</td> <td></td> <td>V=15.88 FUV=17.53</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></p> <p>Category=GALAXY Description=[QSO] Extended=NO</p>										#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous	(6)	J1358+0213	RA: 13 58 23.9890 (209.5999542d) Dec: +02 13 43.82 (2.22884d) Equinox: J2000		V=15.88 FUV=17.53
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous																
(6)	J1358+0213	RA: 13 58 23.9890 (209.5999542d) Dec: +02 13 43.82 (2.22884d) Equinox: J2000		V=15.88 FUV=17.53	Reference Frame: ICRS																
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit											
	1	ACQ (COS.im.10 08341)	(6) J1358+0213	COS/NUV, ACQ/IMAGE, PSA	MIRRORB				80 Secs (80 Secs) [==>]	[1]											
	2	G160M - 15 77 - FP1 - o 1 (COS.sp.101 0770)	(6) J1358+0213	COS/FUV, TIME-TAG, PSA	G160M 1577 A	FP-POS=1; BUFFER-TIME=10 616; SEGMENT=BOTH			1000 Secs (1123 Secs) [==>1123.0 Secs]	[1]											
	3	G160M - 15 77 - FP2 - o 1 (COS.sp.101 0770)	(6) J1358+0213	COS/FUV, TIME-TAG, PSA	G160M 1577 A	FP-POS=2; BUFFER-TIME=10 616; SEGMENT=BOTH			1000 Secs (1123 Secs) [==>1123.0 Secs]	[1]											
	4	G160M - 15 77 - FP3 - o 2 (COS.sp.101 0769)	(6) J1358+0213	COS/FUV, TIME-TAG, PSA	G160M 1577 A	FP-POS=3; BUFFER-TIME=10 616; SEGMENT=BOTH			1000 Secs (1400 Secs) [==>1400.0 Secs]	[2]											
	5	G160M - 15 77 - FP4 - o 2 (COS.sp.101 0769)	(6) J1358+0213	COS/FUV, TIME-TAG, PSA	G160M 1577 A	FP-POS=4; BUFFER-TIME=10 616; SEGMENT=BOTH			1000 Secs (1400 Secs) [==>1400.0 Secs]	[2]											



Proposal 15293 - J1210+0154 - G130M - 1291 - 1/1 (11) - Pinpointing the cosmic web between massive galaxy clusters

Thu Aug 02 21:40:32 GMT 2018

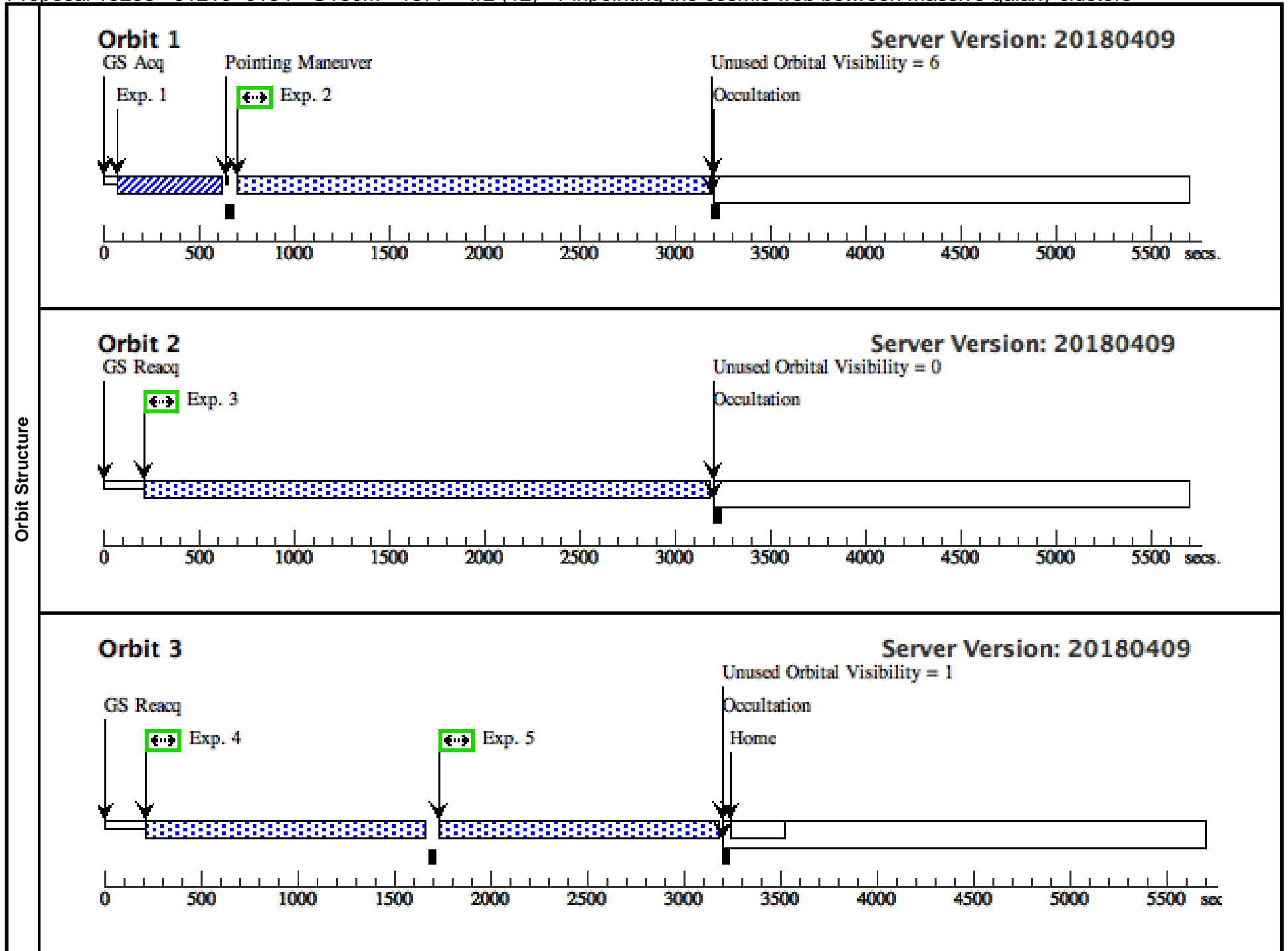
Visit	Proposal 15293, J1210+0154 - G130M - 1291 - 1/1 (11), implementation Diagnostic Status: Warning Scientific Instruments: COS/FUV, COS/NUV Special Requirements: (none) <i>Comments: This visit corresponds to the visit 1/1 of the J1210+0154 using G130M:</i> - 3 orbits in total - 1 central wavelengths 1291 - 2 segments A+B - 2 FP-POS in total (COS2025 policy) - Buffer times set to 2/3 of that given by the ETC									
	(J1210+0154 - G130M - 1291 - 1/1 (11)) Warning (Form): For the best data quality, it is strongly recommended that the maximum number of allowed FP-POS positions is used when observing at a given COS CENWAVE setting. See full description for details. (J1210+0154 - G130M - 1291 - 1/1 (11)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN									
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(7)	J1210+0154	RA: 12 10 18.3433 (182.5764304d) Dec: +01 54 5.89 (1.90164d) Equinox: J2000		V=17.39 FUV=17.51	Reference Frame: ICRS				
<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> Category=GALAXY Description=[QSO] Extended=NO										
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	ACQ (COS.im.10 08350)	(7) J1210+0154	COS/NUV, ACQ/IMAGE, PSA	MIRRORB				120 Secs (120 Secs)	
									[==>]	[1]
	2	G130M - 12 91 - FP3 - o 1 (COS.sp.101 0727)	(7) J1210+0154	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=3; BUFFER-TIME=40 50; SEGMENT=BOTH			1000 Secs (2319 Secs)	
									[==>2319.0 Secs]	[1]
	3	G130M - 12 91 - FP3 - o 2 (COS.sp.101 0728)	(7) J1210+0154	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=3; BUFFER-TIME=40 50; SEGMENT=BOTH			1000 Secs (1391 Secs)	
								[==>1391.0 Secs]	[2]	
4	G130M - 12 91 - FP4 - o 2 (COS.sp.101 0728)	(7) J1210+0154	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=4; BUFFER-TIME=40 50; SEGMENT=BOTH			1000 Secs (1391 Secs)		
								[==>1391.0 Secs]	[2]	
5	G130M - 12 91 - FP4 - o 3 (COS.sp.101 0729)	(7) J1210+0154	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=4; BUFFER-TIME=40 50; SEGMENT=BOTH			1000 Secs (2916 Secs)		
								[==>2916.0 Secs]	[3]	



Proposal 15293 - J1210+0154 - G160M - 1577 - 1/2 (12) - Pinpointing the cosmic web between massive galaxy clusters

Thu Aug 02 21:40:32 GMT 2018

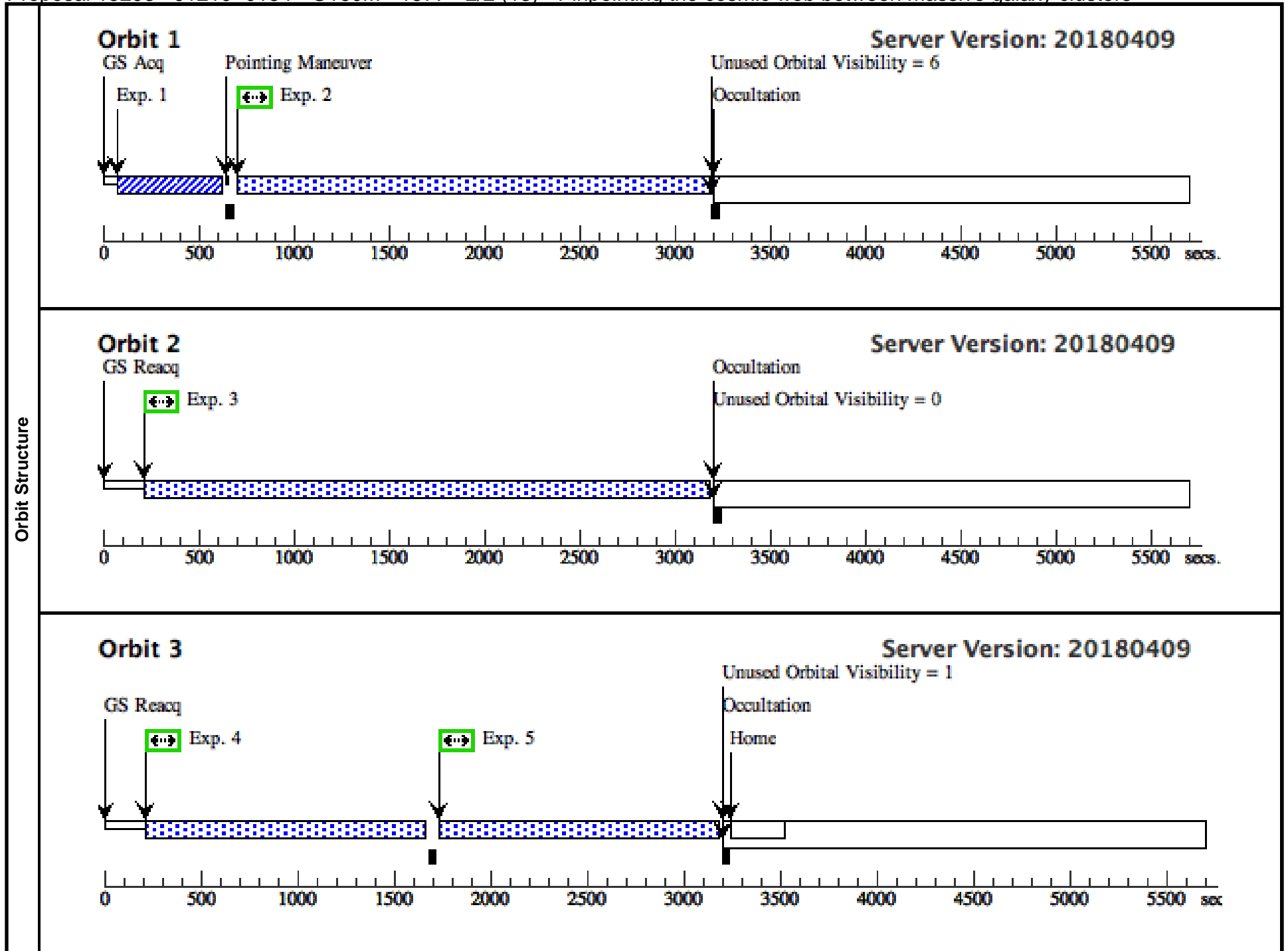
Visit	Proposal 15293, J1210+0154 - G160M - 1577 - 1/2 (12), implementation Diagnostic Status: No Diagnostics Scientific Instruments: COS/FUV, COS/NUV Special Requirements: (none) <i>Comments: This visit corresponds to the visit 1/2 of the J1210+0154 using G160M:</i> - 3 orbits in total - 1 central wavelengths 1577 - 2 segments A+B - 4 FP-POS in total - Buffer times set to 2/3 of that given by the ETC									
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(7)	J1210+0154	RA: 12 10 18.3433 (182.5764304d) Dec: +01 54 5.89 (1.90164d) Equinox: J2000		V=17.39 FUV=17.51	Reference Frame: ICRS				
<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> Category=GALAXY Description=[QSO] Extended=NO										
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	ACQ (COS.im.10 08350)	(7) J1210+0154	COS/NUV, ACQ/IMAGE, PSA	MIRRORB				120 Secs (120 Secs) [==>]	[1]
	2	G160M - 15 77 - FP1 - o 1 (COS.sp.101 0771)	(7) J1210+0154	COS/FUV, TIME-TAG, PSA	G160M 1577 A	FP-POS=1; BUFFER-TIME=10 200; SEGMENT=BOTH			1000 Secs (2271 Secs) [==>2271.0 Secs]	[1]
	3	G160M - 15 77 - FP2 - o 2 (COS.sp.101 0772)	(7) J1210+0154	COS/FUV, TIME-TAG, PSA	G160M 1577 A	FP-POS=2; BUFFER-TIME=10 200; SEGMENT=BOTH			1000 Secs (2916 Secs) [==>2916.0 Secs]	[2]
	4	G160M - 15 77 - FP3 - o 3 (COS.sp.101 0773)	(7) J1210+0154	COS/FUV, TIME-TAG, PSA	G160M 1577 A	FP-POS=3; BUFFER-TIME=10 200; SEGMENT=BOTH			1000 Secs (1400 Secs) [==>1400.0 Secs]	[3]
	5	G160M - 15 77 - FP4 - o 3 (COS.sp.101 0773)	(7) J1210+0154	COS/FUV, TIME-TAG, PSA	G160M 1577 A	FP-POS=4; BUFFER-TIME=10 200; SEGMENT=BOTH			1000 Secs (1400 Secs) [==>1400.0 Secs]	[3]



Proposal 15293 - J1210+0154 - G160M - 1577 - 2/2 (13) - Pinpointing the cosmic web between massive galaxy clusters

Thu Aug 02 21:40:32 GMT 2018

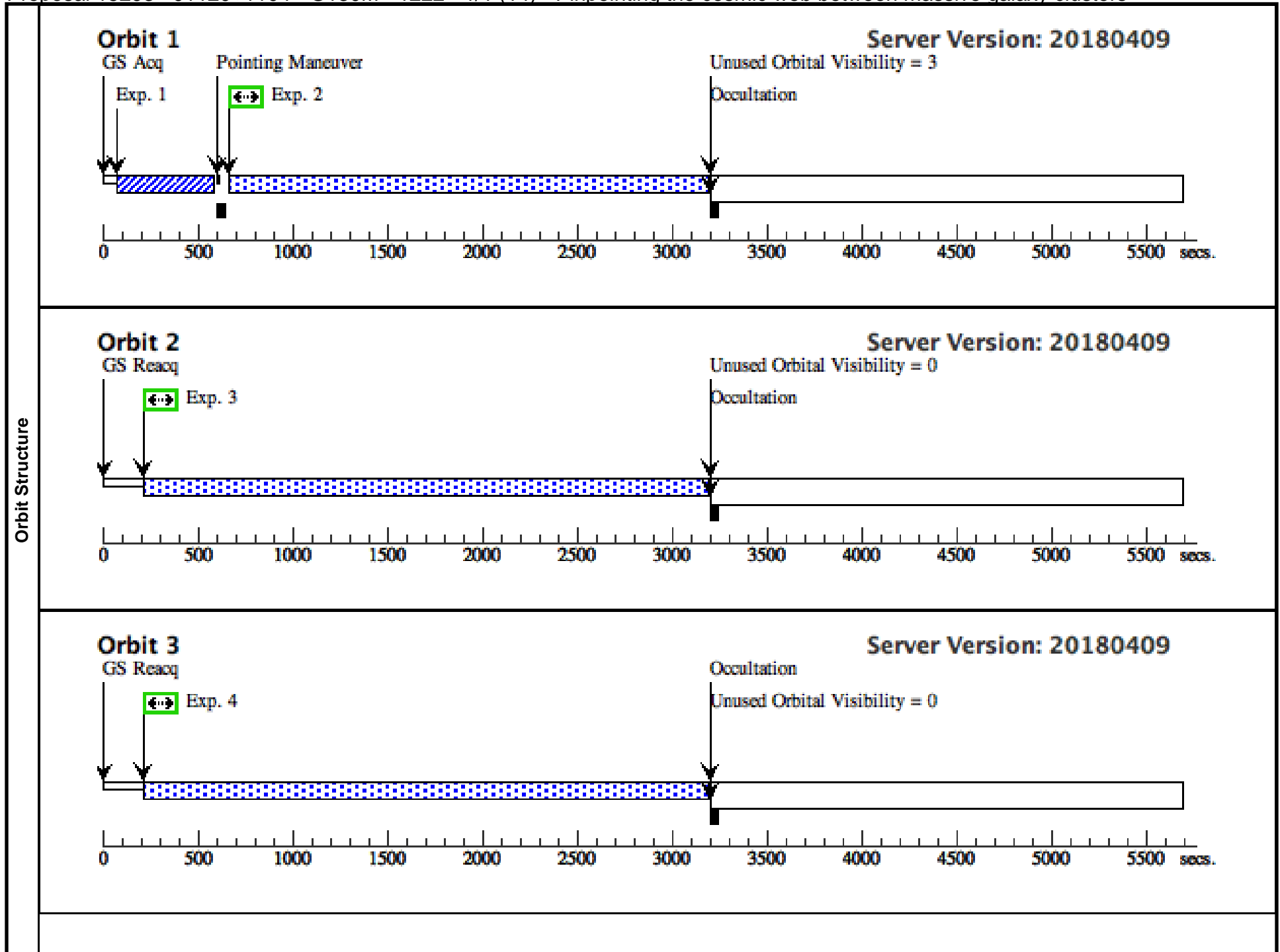
Visit	Proposal 15293, J1210+0154 - G160M - 1577 - 2/2 (13), implementation Diagnostic Status: No Diagnostics Scientific Instruments: COS/FUV, COS/NUV Special Requirements: (none) Comments: This visit corresponds to the visit 2/2 of the J1210+0154 using G160M: - 3 orbits in total - 1 central wavelengths 1577 - 2 segments A+B - 4 FP-POS in total - Buffer times set to 2/3 of that given by the ETC									
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(7)	J1210+0154	RA: 12 10 18.3433 (182.5764304d) Dec: +01 54 5.89 (1.90164d) Equinox: J2000		V=17.39 FUV=17.51	Reference Frame: ICRS				
Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. Category=GALAXY Description=[QSO] Extended=NO										
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	ACQ (COS.im.10 08350)	(7) J1210+0154	COS/NUV, ACQ/IMAGE, PSA	MIRRORB				120 Secs (120 Secs) [==>]	[1]
	2	G160M - 15 77 - FP1 - o 1 (COS.sp.101 0771)	(7) J1210+0154	COS/FUV, TIME-TAG, PSA	G160M 1577 A	FP-POS=1; BUFFER-TIME=10 200; SEGMENT=BOTH			1000 Secs (2271 Secs) [==>2271.0 Secs]	[1]
	3	G160M - 15 77 - FP2 - o 2 (COS.sp.101 0772)	(7) J1210+0154	COS/FUV, TIME-TAG, PSA	G160M 1577 A	FP-POS=2; BUFFER-TIME=10 200; SEGMENT=BOTH			1000 Secs (2916 Secs) [==>2916.0 Secs]	[2]
	4	G160M - 15 77 - FP3 - o 3 (COS.sp.101 0773)	(7) J1210+0154	COS/FUV, TIME-TAG, PSA	G160M 1577 A	FP-POS=3; BUFFER-TIME=10 200; SEGMENT=BOTH			1000 Secs (1400 Secs) [==>1400.0 Secs]	[3]
	5	G160M - 15 77 - FP4 - o 3 (COS.sp.101 0773)	(7) J1210+0154	COS/FUV, TIME-TAG, PSA	G160M 1577 A	FP-POS=4; BUFFER-TIME=10 200; SEGMENT=BOTH			1000 Secs (1400 Secs) [==>1400.0 Secs]	[3]

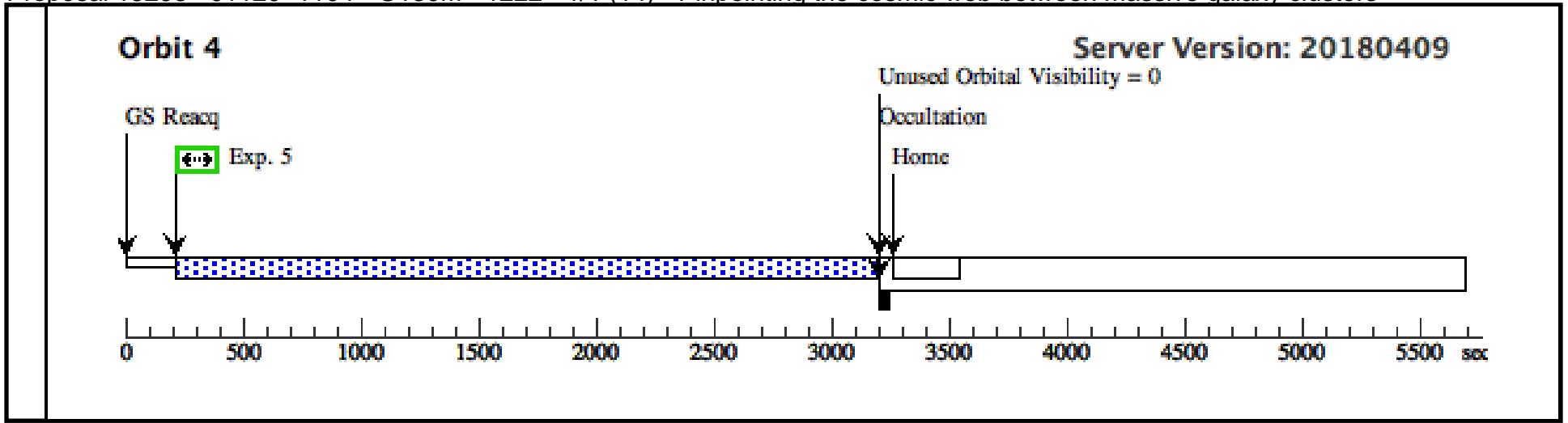


Proposal 15293 - J1120+1104 - G130M - 1222 - 1/1 (14) - Pinpointing the cosmic web between massive galaxy clusters

Thu Aug 02 21:40:32 GMT 2018

Visit	<p>Proposal 15293, J1120+1104 - G130M - 1222 - 1/1 (14), completed</p> <p>Diagnostic Status: No Diagnostics</p> <p>Scientific Instruments: COS/FUV, COS/NUV</p> <p>Special Requirements: (none)</p> <p><i>Comments: This visit corresponds to the visit 1/1 of the J1120+1104 using G130M:</i></p> <ul style="list-style-type: none"> - 4 orbits in total - 1 central wavelengths 1222 (COS2025 policy; originally 1223, changed back to 1222 by STScI request) - 2 segments A+B (COS2025 policy) - 4 FP-POS in total - Buffer times set to 2/3 of that given by the ETC 									
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(8)	J1120+1104	RA: 11 20 21.3723 (170.0890513d) Dec: +11 04 34.71 (11.07631d) Equinox: J2000		V=16.91 FUV=17.81	Reference Frame: ICRS				
<p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i></p> <p>Category=GALAXY Description=[QUASAR] Extended=NO</p>										
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	ACQ (COS.im.10 08732)	(8) J1120+1104	COS/NUV, ACQ/IMAGE, PSA	MIRRORB				100 Secs (100 Secs) [==>]	[1]
	2	G130M - 12 22 - FP1 - o 1 (COS.sp.101 0735)	(8) J1120+1104	COS/FUV, TIME-TAG, PSA	G130M 1222 A	FP-POS=1; BUFFER-TIME=9900; SEGMENT=BOTH			1000 Secs (2347 Secs) [==>2347.0 Secs]	[1]
	3	G130M - 12 22 - FP2 - o 2 (COS.sp.101 0734)	(8) J1120+1104	COS/FUV, TIME-TAG, PSA	G130M 1222 A	FP-POS=2; BUFFER-TIME=9900; SEGMENT=BOTH			1000 Secs (2923 Secs) [==>2923.0 Secs]	[2]
	4	G130M - 12 22 - FP3 - o 3 (COS.sp.101 0734)	(8) J1120+1104	COS/FUV, TIME-TAG, PSA	G130M 1222 A	FP-POS=3; BUFFER-TIME=9900; SEGMENT=BOTH			1000 Secs (2923 Secs) [==>2923.0 Secs]	[3]
	5	G130M - 12 22 - FP4 - o 4 (COS.sp.101 0734)	(8) J1120+1104	COS/FUV, TIME-TAG, PSA	G130M 1222 A	FP-POS=4; BUFFER-TIME=9900; SEGMENT=BOTH			1000 Secs (2923 Secs) [==>2923.0 Secs]	[4]

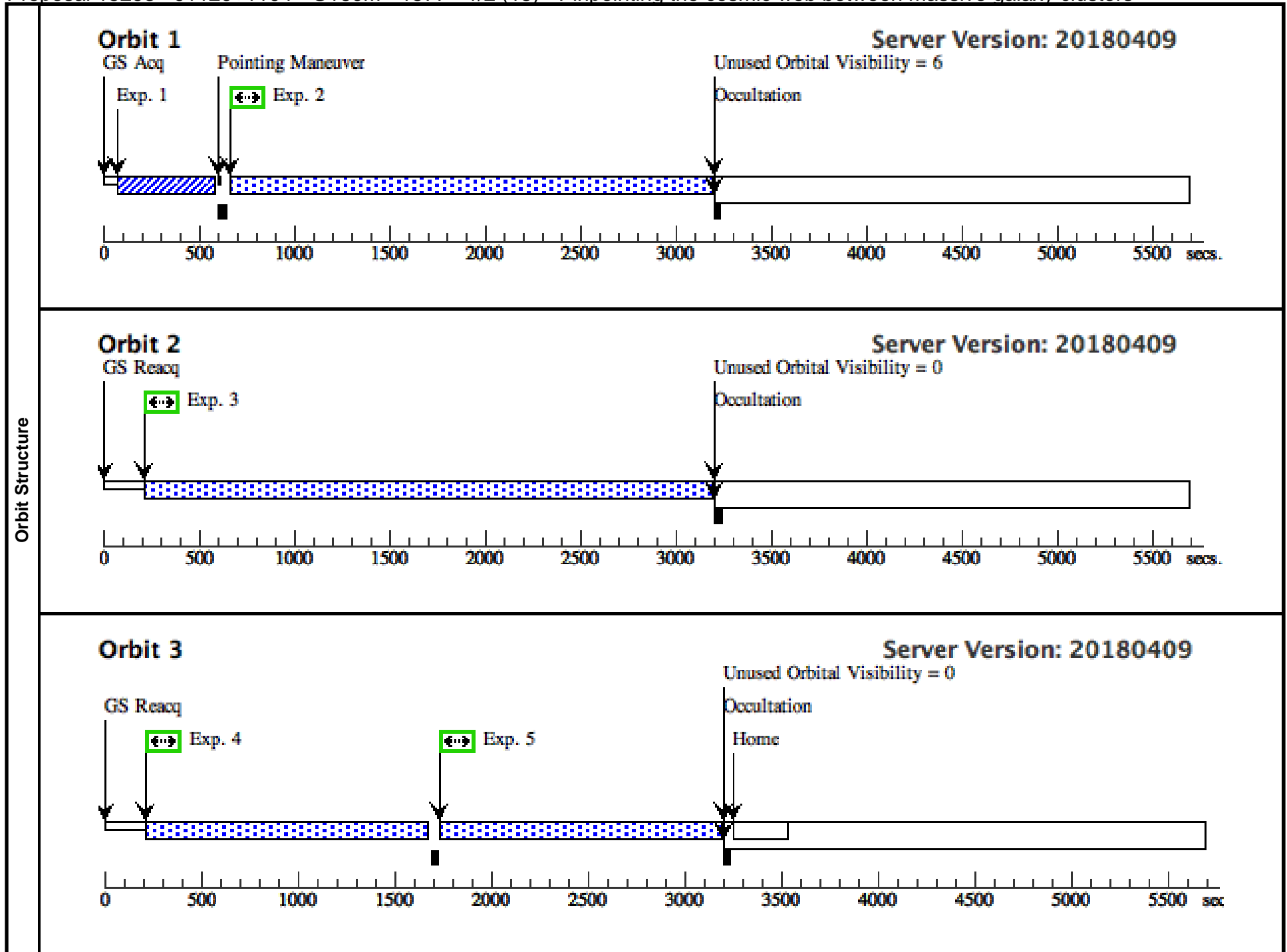




Proposal 15293 - J1120+1104 - G160M - 1577 - 1/2 (15) - Pinpointing the cosmic web between massive galaxy clusters

Thu Aug 02 21:40:32 GMT 2018

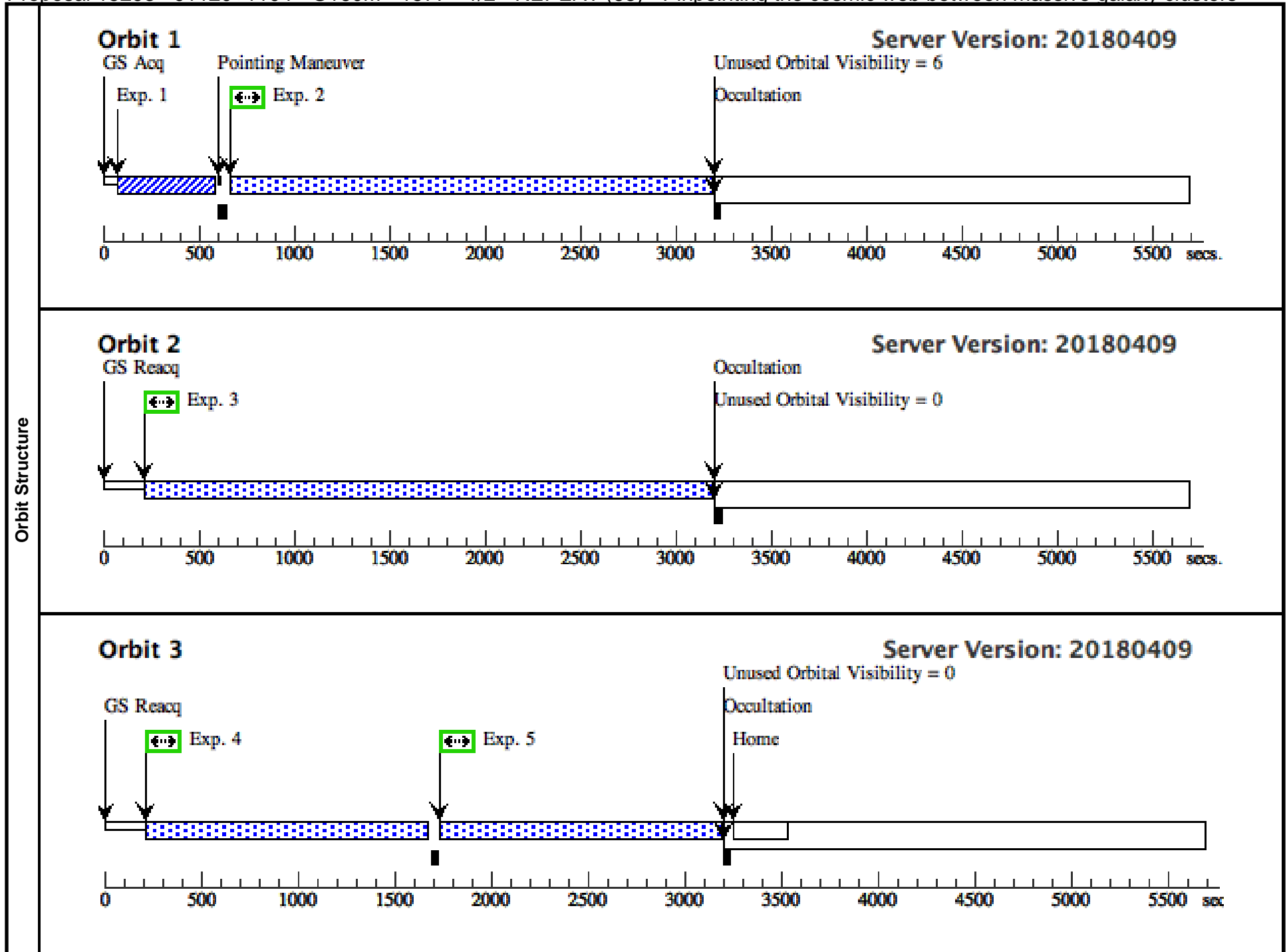
Visit	Proposal 15293, J1120+1104 - G160M - 1577 - 1/2 (15), failed Diagnostic Status: No Diagnostics Scientific Instruments: COS/FUV, COS/NUV Special Requirements: (none) Comments: This visit corresponds to the visit 1/2 of the J1120+1104 using G160M: - 3 orbits in total - 1 central wavelengths 1577 - 2 segments A+B - 4 FP-POS in total - Buffer times set to 2/3 of that given by the ETC									
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(8)	J1120+1104	RA: 11 20 21.3723 (170.0890513d) Dec: +11 04 34.71 (11.07631d) Equinox: J2000		V=16.91 FUV=17.81	Reference Frame: ICRS				
Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. Category=GALAXY Description=[QUASAR] Extended=NO										
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	ACQ (COS.im.10 08732)	(8) J1120+1104	COS/NUV, ACQ/IMAGE, PSA	MIRRORB				100 Secs (100 Secs) [==>]	[1]
	2	G160M - 15 77 - FP1 - o 1 (COS.sp.101 0775)	(8) J1120+1104	COS/FUV, TIME-TAG, PSA	G160M 1577 A	FP-POS=1; BUFFER-TIME=12 400; SEGMENT=BOTH			1000 Secs (2318 Secs) [==>2318.0 Secs]	[1]
	3	G160M - 15 77 - FP2 - o 2 (COS.sp.101 0776)	(8) J1120+1104	COS/FUV, TIME-TAG, PSA	G160M 1577 A	FP-POS=2; BUFFER-TIME=12 400; SEGMENT=BOTH			1000 Secs (2923 Secs) [==>2923.0 Secs]	[2]
	4	G160M - 15 77 - FP3 - o 3 (COS.sp.101 0777)	(8) J1120+1104	COS/FUV, TIME-TAG, PSA	G160M 1577 A	FP-POS=3; BUFFER-TIME=12 400; SEGMENT=BOTH			1000 Secs (1404 Secs) [==>1404.0 Secs]	[3]
	5	G160M - 15 77 - FP4 - o 3 (COS.sp.101 0777)	(8) J1120+1104	COS/FUV, TIME-TAG, PSA	G160M 1577 A	FP-POS=4; BUFFER-TIME=12 400; SEGMENT=BOTH			1000 Secs (1404 Secs) [==>1404.0 Secs]	[3]



Proposal 15293 - J1120+1104 - G160M - 1577 - 1/2 - REPEAT (65) - Pinpointing the cosmic web between massive galaxy clusters

Thu Aug 02 21:40:32 GMT 2018

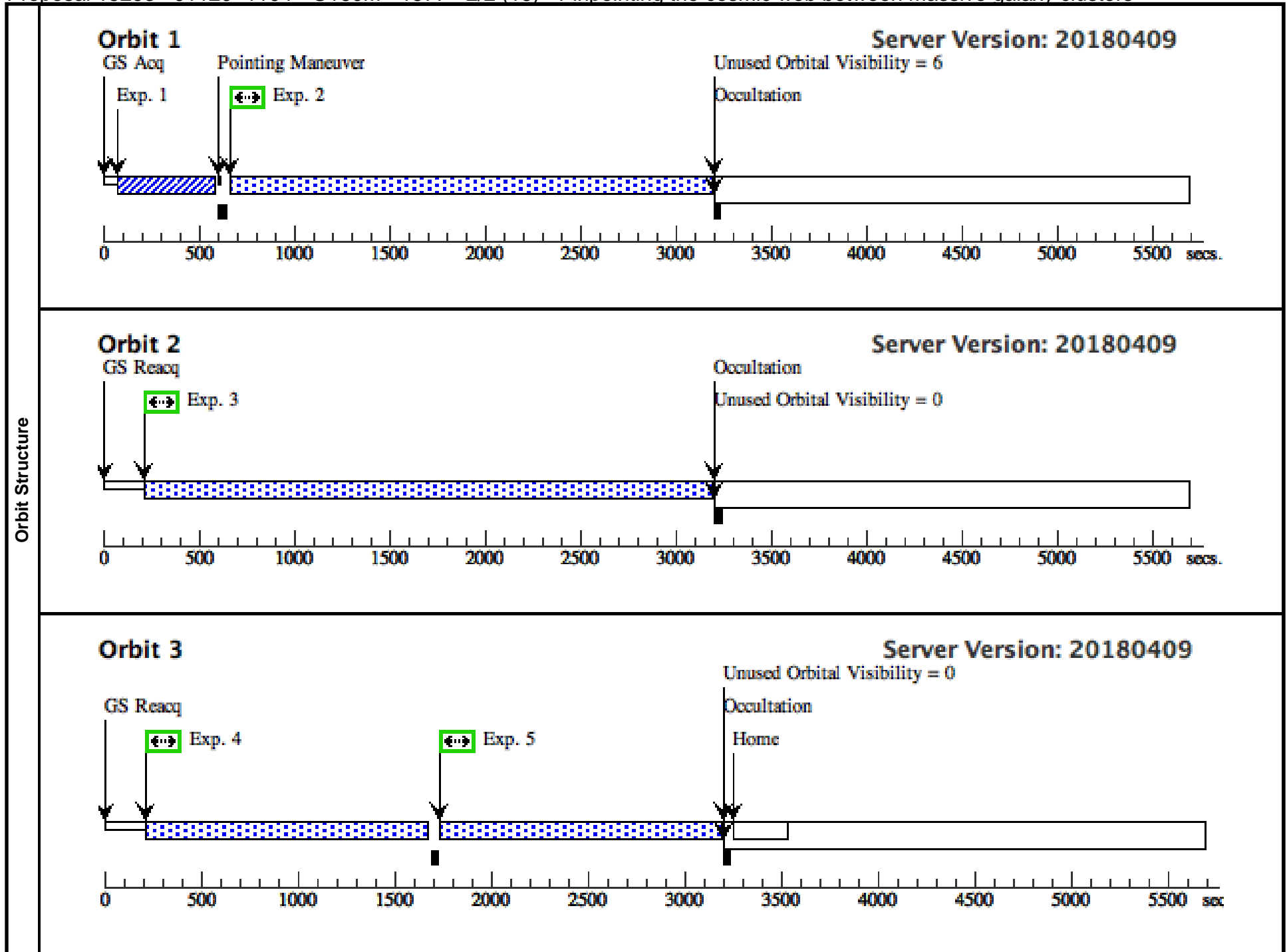
Visit	Proposal 15293, J1120+1104 - G160M - 1577 - 1/2 - REPEAT (65) Diagnostic Status: No Diagnostics Scientific Instruments: COS/FUV, COS/NUV Special Requirements: (none) Comments: This visit corresponds to the visit 1/2 of the J1120+1104 using G160M: - 3 orbits in total - 1 central wavelengths 1577 - 2 segments A+B - 4 FP-POS in total - Buffer times set to 2/3 of that given by the ETC												
	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>(8)</td> <td>J1120+1104</td> <td>RA: 11 20 21.3723 (170.0890513d) Dec: +11 04 34.71 (11.07631d) Equinox: J2000</td> <td></td> <td>V=16.91 FUV=17.81</td> <td>Reference Frame: ICRS</td> </tr> </tbody> </table> Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. Category=GALAXY Description=[QUASAR] Extended=NO	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous	(8)	J1120+1104	RA: 11 20 21.3723 (170.0890513d) Dec: +11 04 34.71 (11.07631d) Equinox: J2000		V=16.91 FUV=17.81
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous								
(8)	J1120+1104	RA: 11 20 21.3723 (170.0890513d) Dec: +11 04 34.71 (11.07631d) Equinox: J2000		V=16.91 FUV=17.81	Reference Frame: ICRS								
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit			
	1	ACQ (COS.im.10 08732)	(8) J1120+1104	COS/NUV, ACQ/IMAGE, PSA	MIRRORB				100 Secs (100 Secs) [==>]	[1]			
	2	G160M - 15 77 - FP1 - o 1 (COS.sp.101 0775)	(8) J1120+1104	COS/FUV, TIME-TAG, PSA	G160M 1577 A	FP-POS=1; BUFFER-TIME=12 400; SEGMENT=BOTH			1000 Secs (2318 Secs) [==>2318.0 Secs]	[1]			
	3	G160M - 15 77 - FP2 - o 2 (COS.sp.101 0776)	(8) J1120+1104	COS/FUV, TIME-TAG, PSA	G160M 1577 A	FP-POS=2; BUFFER-TIME=12 400; SEGMENT=BOTH			1000 Secs (2923 Secs) [==>2923.0 Secs]	[2]			
	4	G160M - 15 77 - FP3 - o 3 (COS.sp.101 0777)	(8) J1120+1104	COS/FUV, TIME-TAG, PSA	G160M 1577 A	FP-POS=3; BUFFER-TIME=12 400; SEGMENT=BOTH			1000 Secs (1404 Secs) [==>1404.0 Secs]	[3]			
	5	G160M - 15 77 - FP4 - o 3 (COS.sp.101 0777)	(8) J1120+1104	COS/FUV, TIME-TAG, PSA	G160M 1577 A	FP-POS=4; BUFFER-TIME=12 400; SEGMENT=BOTH			1000 Secs (1404 Secs) [==>1404.0 Secs]	[3]			



Proposal 15293 - J1120+1104 - G160M - 1577 - 2/2 (16) - Pinpointing the cosmic web between massive galaxy clusters

Thu Aug 02 21:40:33 GMT 2018

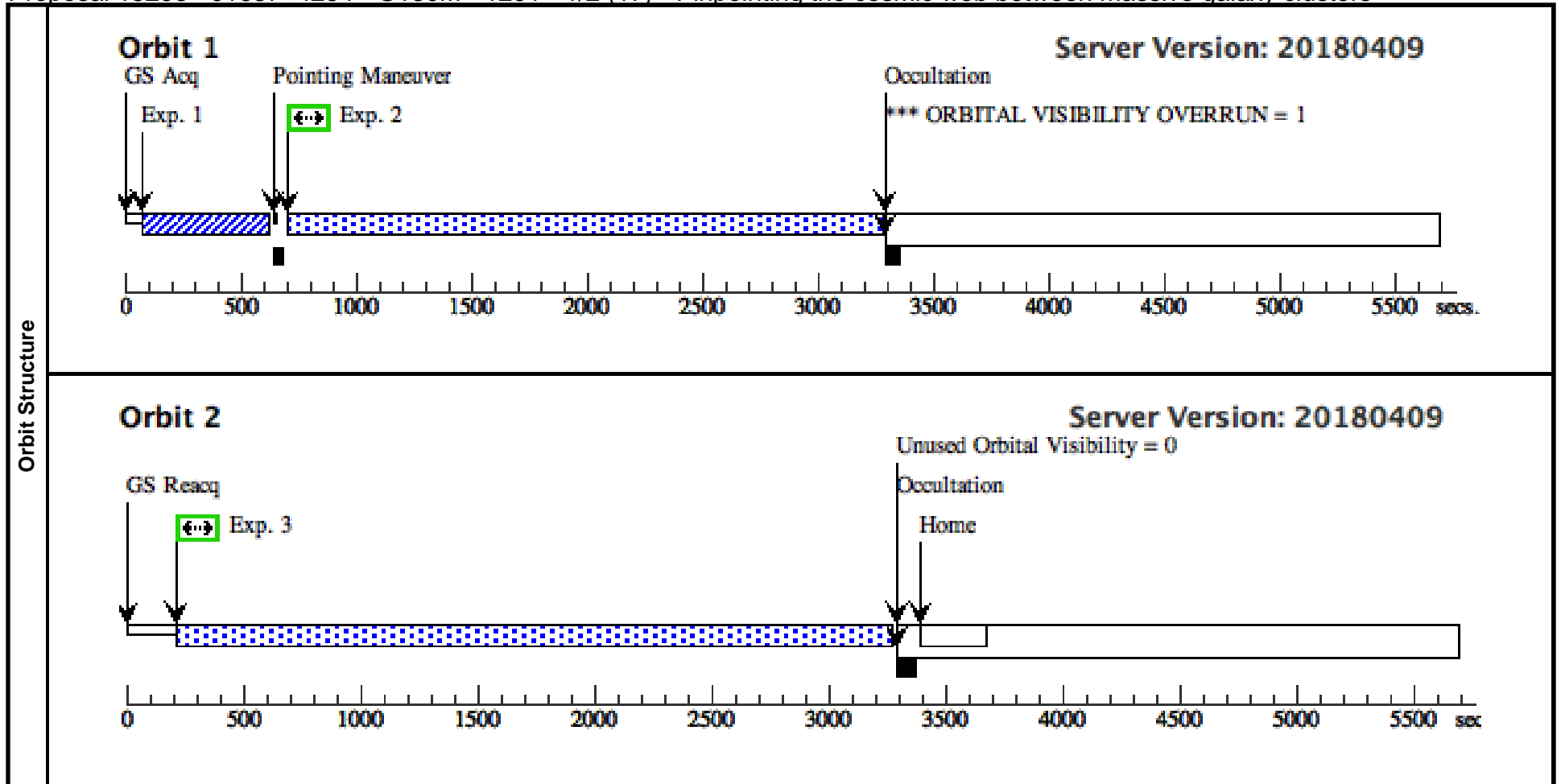
Visit	<p>Proposal 15293, J1120+1104 - G160M - 1577 - 2/2 (16), completed</p> <p>Diagnostic Status: No Diagnostics</p> <p>Scientific Instruments: COS/FUV, COS/NUV</p> <p>Special Requirements: (none)</p> <p><i>Comments: This visit corresponds to the visit 2/2 of the J1120+1104 using G160M:</i></p> <ul style="list-style-type: none"> - 3 orbits in total - 1 central wavelengths 1577 - 2 segments A+B - 4 FP-POS in total - Buffer times set to 2/3 of that given by the ETC 									
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(8)	J1120+1104	RA: 11 20 21.3723 (170.0890513d) Dec: +11 04 34.71 (11.07631d) Equinox: J2000		V=16.91 FUV=17.81	Reference Frame: ICRS				
<p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i></p> <p>Category=GALAXY</p> <p>Description=[QUASAR]</p> <p>Extended=NO</p>										
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	ACQ (COS.im.10 08732)	(8) J1120+1104	COS/NUV, ACQ/IMAGE, PSA	MIRRORB				100 Secs (100 Secs)	
									[==>]	[1]
	2	G160M - 15 77 - FP1 - o 1 (COS.sp.101 0775)	(8) J1120+1104	COS/FUV, TIME-TAG, PSA	G160M 1577 A	FP-POS=1; BUFFER-TIME=12 400; SEGMENT=BOTH			1000 Secs (2318 Secs)	
									[==>2318.0 Secs]	[1]
	3	G160M - 15 77 - FP2 - o 2 (COS.sp.101 0776)	(8) J1120+1104	COS/FUV, TIME-TAG, PSA	G160M 1577 A	FP-POS=2; BUFFER-TIME=12 400; SEGMENT=BOTH			1000 Secs (2923 Secs)	
									[==>2923.0 Secs]	[2]
4	G160M - 15 77 - FP3 - o 3 (COS.sp.101 0777)	(8) J1120+1104	COS/FUV, TIME-TAG, PSA	G160M 1577 A	FP-POS=3; BUFFER-TIME=12 400; SEGMENT=BOTH			1000 Secs (1404 Secs)		
								[==>1404.0 Secs]	[3]	
5	G160M - 15 77 - FP4 - o 3 (COS.sp.101 0777)	(8) J1120+1104	COS/FUV, TIME-TAG, PSA	G160M 1577 A	FP-POS=4; BUFFER-TIME=12 400; SEGMENT=BOTH			1000 Secs (1404 Secs)		
								[==>1404.0 Secs]	[3]	



Proposal 15293 - J1637+4254 - G130M - 1291 - 1/2 (17) - Pinpointing the cosmic web between massive galaxy clusters

Thu Aug 02 21:40:33 GMT 2018

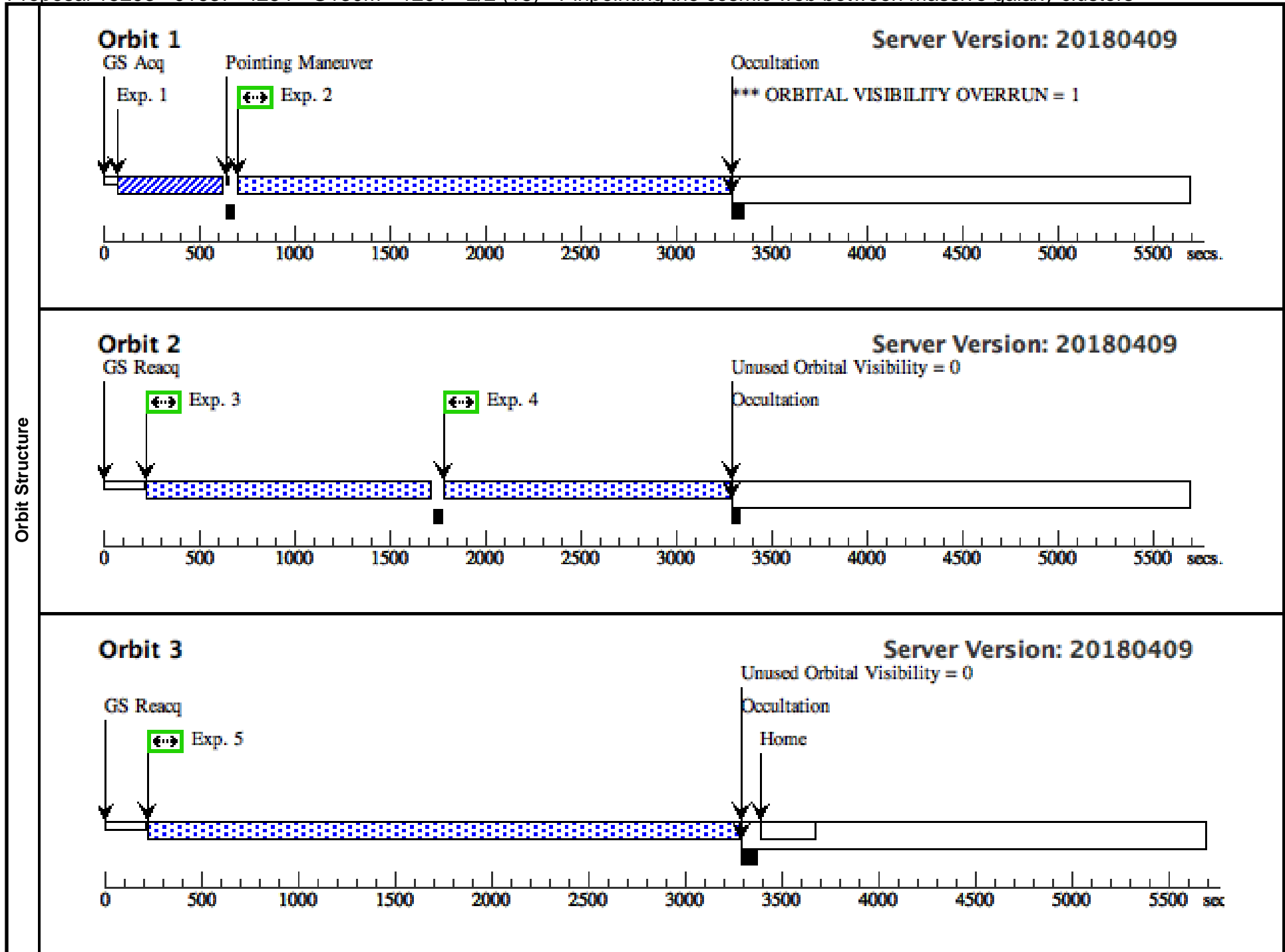
Visit	<p>Proposal 15293, J1637+4254 - G130M - 1291 - 1/2 (17), scheduling</p> <p>Diagnostic Status: Warning</p> <p>Scientific Instruments: COS/FUV, COS/NUV</p> <p>Special Requirements: (none)</p> <p><i>Comments: This visit corresponds to the visit 1/2 of the J1637+4254 using G130M:</i></p> <ul style="list-style-type: none"> - 2 orbits in total - 1 central wavelengths 1291 - 2 segments A+B - 2 FP-POS in total (COS2025 policy) - Buffer times set to 2/3 of that given by the ETC 									
	<p>(J1637+4254 - G130M - 1291 - 1/2 (17)) Warning (Form): For the best data quality, it is strongly recommended that the maximum number of allowed FP-POS positions is used when observing at a given COS CENWAVE setting. See full description for details.</p> <p>(J1637+4254 - G130M - 1291 - 1/2 (17)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN</p>									
Diagnosics										
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(9)	J1637+4254	RA: 16 37 46.5476 (249.4439483d) Dec: +42 54 49.72 (42.91381d) Equinox: J2000		V=17.34 FUV=17.96	Reference Frame: ICRS				
<p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i></p> <p><i>Category=GALAXY</i></p> <p><i>Description=[QSO]</i></p> <p><i>Extended=NO</i></p>										
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	ACQ (COS.im.10 08747)	(9) J1637+4254	COS/NUV, ACQ/IMAGE, PSA	MIRRORB				120 Secs (120 Secs)	
									[==>]	[1]
	2	G130M - 12 91 - FP3 - o 1 (COS.sp.101 0736)	(9) J1637+4254	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=3; BUFFER-TIME=4400; SEGMENT=BOTH			1000 Secs (2415 Secs)	
								[==>2415.0 Secs]	[1]	
3	G130M - 12 91 - FP4 - o 2 (COS.sp.101 0737)	(9) J1637+4254	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=4; BUFFER-TIME=4400; SEGMENT=BOTH			1000 Secs (3012 Secs)		
								[==>3012.0 Secs]	[2]	



Proposal 15293 - J1637+4254 - G130M - 1291 - 2/2 (18) - Pinpointing the cosmic web between massive galaxy clusters

Thu Aug 02 21:40:33 GMT 2018

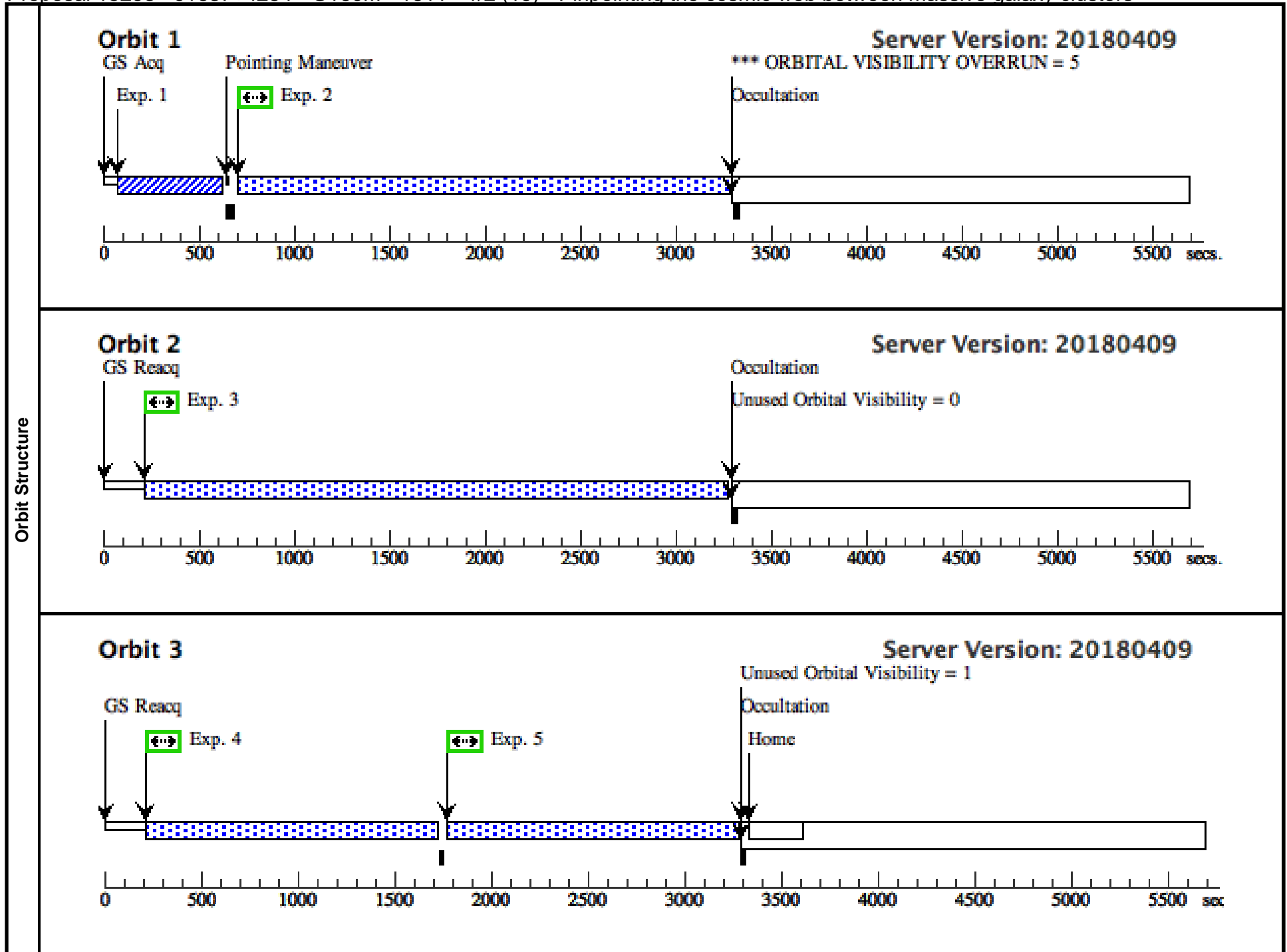
Visit	<p>Proposal 15293, J1637+4254 - G130M - 1291 - 2/2 (18), scheduling</p> <p>Diagnostic Status: Warning</p> <p>Scientific Instruments: COS/FUV, COS/NUV</p> <p>Special Requirements: (none)</p> <p><i>Comments: This visit corresponds to the visit 2/2 of the J1637+4254 using G130M:</i></p> <ul style="list-style-type: none"> - 3 orbits in total - 1 central wavelengths 1291 - 2 segments A+B - 2 FP-POS in total (COS2025 policy) - Buffer times set to 2/3 of that given by the ETC 									
	<p>(J1637+4254 - G130M - 1291 - 2/2 (18)) Warning (Form): For the best data quality, it is strongly recommended that the maximum number of allowed FP-POS positions is used when observing at a given COS CENWAVE setting. See full description for details.</p> <p>(J1637+4254 - G130M - 1291 - 2/2 (18)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN</p>									
Diagnosics										
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(9)	J1637+4254	RA: 16 37 46.5476 (249.4439483d) Dec: +42 54 49.72 (42.91381d) Equinox: J2000		V=17.34 FUV=17.96	Reference Frame: ICRS				
<p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i></p> <p>Category=GALAXY Description=[QSO] Extended=NO</p>										
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	ACQ (COS.im.10 08747)	(9) J1637+4254	COS/NUV, ACQ/IMAGE, PSA	MIRRORB				120 Secs (120 Secs)	
									[==>]	[1]
	2	G130M - 12 91 - FP3 - o 1 (COS.sp.101 0736)	(9) J1637+4254	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=3; BUFFER-TIME=4400; SEGMENT=BOTH			1000 Secs (2415 Secs)	
									[==>2415.0 Secs]	[1]
	3	G130M - 12 91 - FP3 - o 2 (COS.sp.101 0738)	(9) J1637+4254	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=3; BUFFER-TIME=4400; SEGMENT=BOTH			1000 Secs (1444 Secs)	
									[==>1444.0 Secs]	[2]
4	G130M - 12 91 - FP4 - o 2 (COS.sp.101 0738)	(9) J1637+4254	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=4; BUFFER-TIME=4400; SEGMENT=BOTH			1000 Secs (1444 Secs)		
								[==>1444.0 Secs]	[2]	
5	G130M - 12 91 - FP4 - o 3 (COS.sp.101 0737)	(9) J1637+4254	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=4; BUFFER-TIME=4400; SEGMENT=BOTH			1000 Secs (3012 Secs)		
								[==>3012.0 Secs]	[3]	



Proposal 15293 - J1637+4254 - G160M - 1611 - 1/2 (19) - Pinpointing the cosmic web between massive galaxy clusters

Thu Aug 02 21:40:33 GMT 2018

Visit	<p>Proposal 15293, J1637+4254 - G160M - 1611 - 1/2 (19), scheduling</p> <p>Diagnostic Status: Warning</p> <p>Scientific Instruments: COS/FUV, COS/NUV</p> <p>Special Requirements: (none)</p> <p><i>Comments: This visit corresponds to the visit 1/2 of the J1637+4254 using G160M:</i></p> <ul style="list-style-type: none"> - 3 orbits in total - 1 central wavelengths 1611 - 2 segments A+B - 4 FP-POS in total - Buffer times set to 2/3 of that given by the ETC 									
	<p>(J1637+4254 - G160M - 1611 - 1/2 (19)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN</p>									
Diagnosics										
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(9)	J1637+4254	RA: 16 37 46.5476 (249.4439483d) Dec: +42 54 49.72 (42.91381d) Equinox: J2000		V=17.34 FUV=17.96	Reference Frame: ICRS				
<p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i></p> <p>Category=GALAXY Description=[QSO] Extended=NO</p>										
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	ACQ (COS.im.10 08747)	(9) J1637+4254	COS/NUV, ACQ/IMAGE, PSA	MIRRORB				120 Secs (120 Secs)	
									[==>]	[1]
	2	G160M - 16 11 - FP1 - o 1 (COS.sp.101 0782)	(9) J1637+4254	COS/FUV, TIME-TAG, PSA	G160M 1611 A	FP-POS=1; BUFFER-TIME=14 200; SEGMENT=BOTH			1000 Secs (2369 Secs)	
									[==>2369.0 Secs]	[1]
	3	G160M - 16 11 - FP2 - o 2 (COS.sp.101 0783)	(9) J1637+4254	COS/FUV, TIME-TAG, PSA	G160M 1611 A	FP-POS=2; BUFFER-TIME=14 200; SEGMENT=BOTH			1000 Secs (3012 Secs)	
									[==>3012.0 Secs]	[2]
4	G160M - 16 11 - FP3 - o 3 (COS.sp.101 0781)	(9) J1637+4254	COS/FUV, TIME-TAG, PSA	G160M 1611 A	FP-POS=3; BUFFER-TIME=14 200; SEGMENT=BOTH			1000 Secs (1453 Secs)		
								[==>1453.0 Secs]	[3]	
5	G160M - 16 11 - FP4 - o 3 (COS.sp.101 0781)	(9) J1637+4254	COS/FUV, TIME-TAG, PSA	G160M 1611 A	FP-POS=4; BUFFER-TIME=14 200; SEGMENT=BOTH			1000 Secs (1453 Secs)		
								[==>1453.0 Secs]	[3]	



Proposal 15293 - J1637+4254 - G160M - 1611 - 2/2 (20) - Pinpointing the cosmic web between massive galaxy clusters

Thu Aug 02 21:40:33 GMT 2018

Visit	<p>Proposal 15293, J1637+4254 - G160M - 1611 - 2/2 (20), scheduling</p> <p>Diagnostic Status: Warning</p> <p>Scientific Instruments: COS/FUV, COS/NUV</p> <p>Special Requirements: (none)</p> <p><i>Comments: This visit corresponds to the visit 2/2 of the J1637+4254 using G160M:</i></p> <ul style="list-style-type: none"> - 4 orbits in total - 1 central wavelengths 1611 - 2 segments A+B - 4 FP-POS in total - Buffer times set to 2/3 of that given by the ETC 									
	<p>(J1637+4254 - G160M - 1611 - 2/2 (20)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN</p>									
Diagnosics										
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(9)	J1637+4254	RA: 16 37 46.5476 (249.4439483d) Dec: +42 54 49.72 (42.91381d) Equinox: J2000		V=17.34 FUV=17.96	Reference Frame: ICRS				
<p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i></p> <p>Category=GALAXY Description=[QSO] Extended=NO</p>										
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	ACQ (COS.im.10 08747)	(9) J1637+4254	COS/NUV, ACQ/IMAGE, PSA	MIRRORB				120 Secs (120 Secs)	
									[==>]	[1]
	2	G160M - 1611 - FP1 - o 1 (COS.sp.101 0782)	(9) J1637+4254	COS/FUV, TIME-TAG, PSA	G160M 1611 A	FP-POS=1; BUFFER-TIME=14 200; SEGMENT=BOTH			1000 Secs (2369 Secs)	
									[==>2369.0 Secs]	[1]
	3	G160M - 1611 - FP2 - o 2 (COS.sp.101 0783)	(9) J1637+4254	COS/FUV, TIME-TAG, PSA	G160M 1611 A	FP-POS=2; BUFFER-TIME=14 200; SEGMENT=BOTH			1000 Secs (3012 Secs)	
									[==>3012.0 Secs]	[2]
4	G160M - 1611 - FP3 - o 3 (COS.sp.101 0783)	(9) J1637+4254	COS/FUV, TIME-TAG, PSA	G160M 1611 A	FP-POS=3; BUFFER-TIME=14 200; SEGMENT=BOTH			1000 Secs (3012 Secs)		
								[==>3012.0 Secs]	[3]	
5	G160M - 1611 - FP4 - o 4 (COS.sp.101 0783)	(9) J1637+4254	COS/FUV, TIME-TAG, PSA	G160M 1611 A	FP-POS=4; BUFFER-TIME=14 200; SEGMENT=BOTH			1000 Secs (3012 Secs)		
								[==>3012.0 Secs]	[4]	

