



14677 - Probing the most distant high-mass galaxy clusters from SPT with HST weak lensing observations

Cycle: 24, Proposal Category: GO

(Availability Mode: SUPPORTED)

INVESTIGATORS

<i>Name</i>	<i>Institution</i>	<i>E-Mail</i>
Dr. Tim Schrabback (PI) (ESA Member) (Contact)	Universitat Bonn, Argelander Institute for Astronomy	schrabba@astro.uni-bonn.de
Dr. Brian Stalder (CoI)	University of Hawaii	stalder@ifa.hawaii.edu
Prof. Steven W. Allen (CoI)	Stanford University	swa@stanford.edu
Dr. Rebecca E. A. Canning (CoI)	Stanford University	rcanning@stanford.edu
Dr. Ashley King (CoI)	Stanford University	ashking@umich.edu
Mr. Emil Noordeh (CoI)	Stanford University	emiln@stanford.edu
Dr. Bradford Benson (CoI) (AdminUSPI)	University of Chicago	bbenson@kicp.uchicago.edu
Prof. Michael A. McDonald (CoI)	Massachusetts Institute of Technology	mcdonald@space.mit.edu
Dr. Joerg Dietrich (CoI) (ESA Member)	Universitats-Sternwarte Munchen	dietrich@usm.lmu.de
Dr. Tom Crawford (CoI)	University of Chicago	tcrawfor@kicp.uchicago.edu
Dr. Henk Hoekstra (CoI) (ESA Member)	Universiteit Leiden	hoekstra@strw.leidenuniv.nl
Dr. David Rapetti (CoI)	Ludwig Maximilian Universitaet of Munich	drapetti@usm.lmu.de
Dr. Alfredo Zenteno (CoI)	National Optical Astronomy Observatory - CTIO	azenteno@ctio.noao.edu
Prof. Anja von der Linden (CoI)	State University of New York at Stony Brook	anja.vonderlinden@stonybrook.edu
Sebastian Bocquet (CoI)	Argonne National Laboratory	sbocquet@anl.gov

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) SPT-CLJ0156-5541	ACS/WFC	2	10-May-2017 21:04:32.0	yes
13	(1) SPT-CLJ0156-5541	WFC3/IR	1	10-May-2017 21:04:35.0	yes
14	(2) SPT-CLJ0205-5829	WFC3/IR	1	10-May-2017 21:04:36.0	yes
15	(3) SPT-CLJ0313-5334	WFC3/IR	1	10-May-2017 21:04:38.0	yes
16	(4) SPT-CLJ0459-4947	WFC3/IR	1	10-May-2017 21:04:39.0	yes
17	(5) SPT-CLJ0607-4448	WFC3/IR	1	10-May-2017 21:04:41.0	yes
18	(6) SPT-CLJ0640-5113	WFC3/IR	1	10-May-2017 21:04:42.0	yes
19	(7) SPT-CLJ0646-6236	WFC3/IR	1	10-May-2017 21:04:44.0	yes
20	(9) SPT-CLJ2341-5724	WFC3/IR	1	10-May-2017 21:04:45.0	yes
08	(8) SPT-CLJ2040-4451	WFC3/IR	1	10-May-2017 21:04:48.0	yes
02	(10) SPT-CLJ0205-5829-OFFSET	ACS/WFC	1	10-May-2017 21:04:49.0	yes
21	(3) SPT-CLJ0313-5334	ACS/WFC	2	10-May-2017 21:04:52.0	yes
04	(4) SPT-CLJ0459-4947	ACS/WFC	1	10-May-2017 21:04:53.0	yes
05	(5) SPT-CLJ0607-4448	ACS/WFC	1	10-May-2017 21:04:53.0	yes
06	(6) SPT-CLJ0640-5113	ACS/WFC	2	10-May-2017 21:04:56.0	yes
07	(7) SPT-CLJ0646-6236	ACS/WFC	2	10-May-2017 21:04:58.0	yes
09	(9) SPT-CLJ2341-5724	ACS/WFC	2	10-May-2017 21:05:01.0	yes

22 Total Orbits Used

ABSTRACT

We propose an HST weak gravitational lensing study of nine high-mass galaxy clusters which constitute the strongest Sunyaev-Zel'dovich (SZ) detections in the 2500 deg² South Pole Telescope SZ Survey at redshifts $z > 1.2$. These measurements will provide the first weak lensing constraints on the cluster mass scale at such high redshifts (median ~ 1.4) for an SZ-selected cluster sample, enabling astrophysical and cosmological investigations in a previously unexplored regime.

The proposed program will complete a very rich multi-wavelength data set that also includes Spitzer and deep Chandra observations for all clusters. By incorporating existing observations and exploiting Continuous Viewing Zone opportunities we can complete HST imaging in three high-

throughput filters out to the clusters' virial radii within a moderate orbit request. These data will provide both key components needed for the weak lensing analysis: robust shape measurements and the photometric removal of cluster members and preferential selection of the lensed background galaxies.

This program provides an important step to prepare for investigations of much larger cluster samples, which will soon be available at these redshifts thanks to the latest generation of SZ experiments.

OBSERVING DESCRIPTION

The observations include ACS imaging in F606W and F814W, as well as WFC3/IR imaging in F110W.

ACS imaging is conducted with a standard 4 point dithering to fill the chip gap. When possible, ACS imaging is obtained during CVZ opportunities.

Non-CVZ ACS observations are oriented to maximize the overlap with existing ACS images from other programs when available.

When incorporating the existing data the effective combined depth in F606W and F814W corresponds to approximately 3 regular orbits.

The WFC3/IR observations are designed to approximately cover the ACS area, using four large step dither positions, each with two subpattern positions, and orientations specified relatively to the ACS observations.

The total WFC3/IR integration time amounts to 1 orbit per cluster.

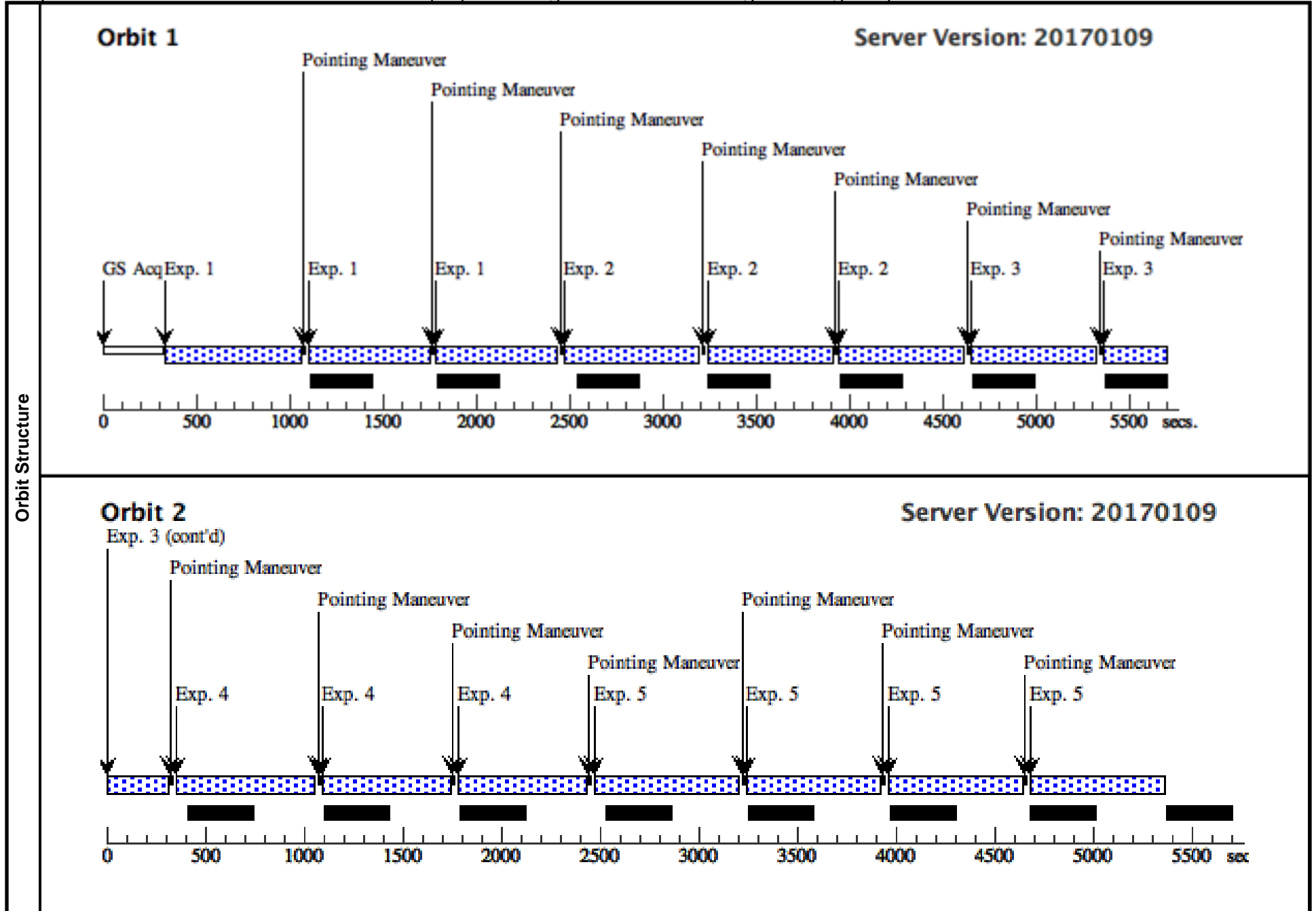
Proposal 14677 - SPT-CLJ0156-5541-ACS (01) - Probing the most distant high-mass galaxy clusters from SPT with HST weak lensin...

Thu May 11 01:05:02 GMT 2017

Visit	Proposal 14677, SPT-CLJ0156-5541-ACS (01), completed Diagnostic Status: Warning Scientific Instruments: ACS/WFC Special Requirements: CVZ; ORIENT 197D TO 203 D; ORIENT 291D TO 296 D; ORIENT 21D TO 26 D; ORIENT 111D TO 116 D					
	(Exposure 3 (Pattern 11, Exps 3-3 in SPT-CLJ0156-5541-ACS (01)) special requirements) Warning (Form): Be very careful mixing POS TARG and Center_Pattern = Yes (Exposure 4 (Pattern 9, Exps 4-4 in SPT-CLJ0156-5541-ACS (01)) special requirements) Warning (Form): Be very careful mixing POS TARG and Center_Pattern = Yes (Exposure 5 (Pattern 2, Exps 5-5 in SPT-CLJ0156-5541-ACS (01)) special requirements) Warning (Form): Be very careful mixing POS TARG and Center_Pattern = Yes					
Diagnosics						
	Patterns	#	Primary Pattern	Secondary Pattern	Exposures	
		(11)	Pattern Type=ACS-WFC-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=3.011 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=85.29 Angle Between Sides= Center Pattern=true	(3)	
		(2)	Pattern Type=ACS-WFC-DITHER-LINE Purpose=DITHER Number Of Points=4 Point Spacing=3.011 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=85.28 Angle Between Sides= Center Pattern=true	(5)	
(9)	Pattern Type=ACS-WFC-DITHER-LINE Purpose=DITHER Number Of Points=3 Point Spacing=3.034 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=85.29 Angle Between Sides= Center Pattern=true	(1), (2), (4)			
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(1)	SPT-CLJ0156-5541	RA: 01 56 9.7200 (29.0405000d) Dec: -55 41 51.36 (-55.69760d) Equinox: J2000		V=27	Reference Frame: ICRS

Proposal 14677 - SPT-CLJ0156-5541-ACS (01) - Probing the most distant high-mass galaxy clusters from SPT with HST weak lensin...

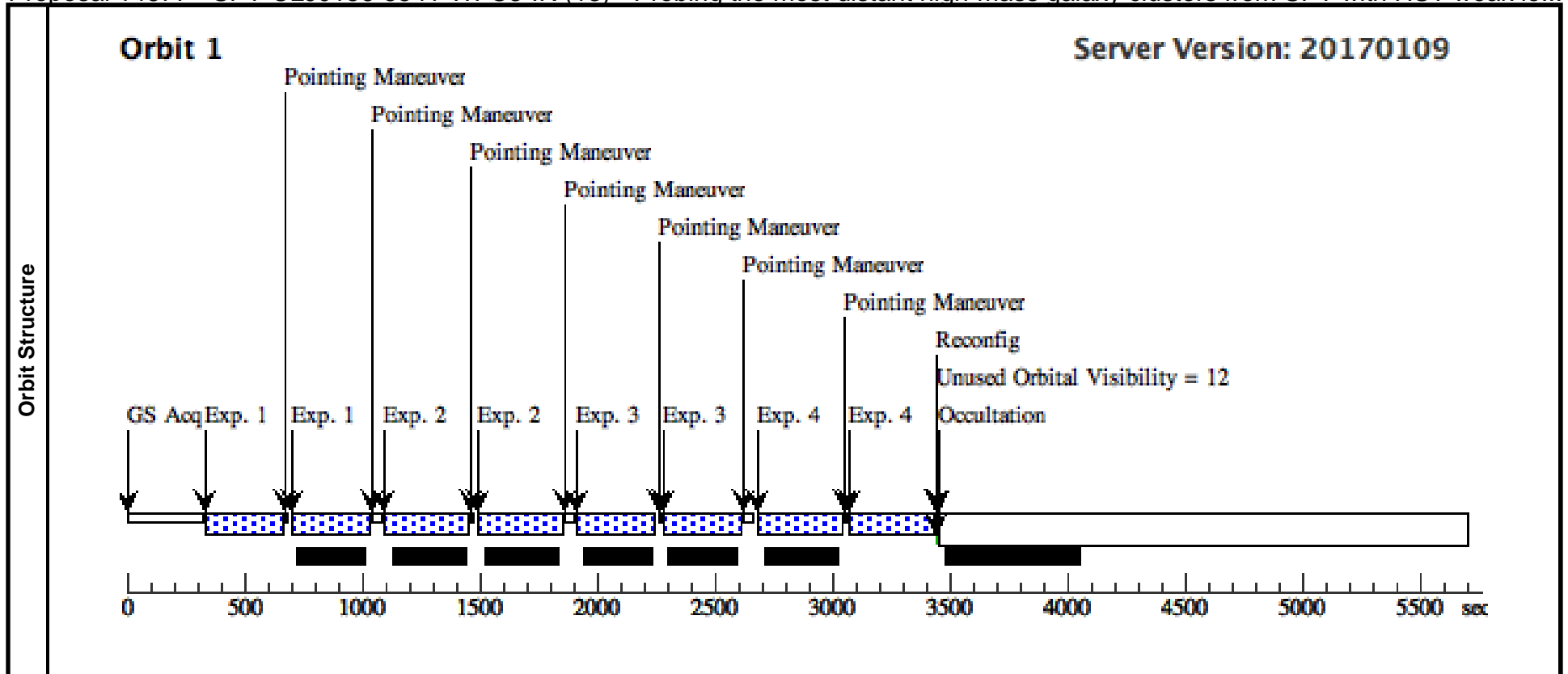
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit	
	1	(1) SPT-CLJ0156-5541	(1) SPT-CLJ0156-5541	ACS/WFC, ACCUM, WFCENTER	F606W				Pattern 9, Exps 1-1 in SPT-CLJ0156-5541-ACS (01) (9)	525 Secs (1575 Secs) [=>(Pattern 1)] [=>(Pattern 2)] [=>(Pattern 3)]	[1]
	2	(1) SPT-CLJ0156-5541	(1) SPT-CLJ0156-5541	ACS/WFC, ACCUM, WFCENTER	F814W				Pattern 9, Exps 2-2 in SPT-CLJ0156-5541-ACS (01) (9)	545 Secs (1635 Secs) [=>(Pattern 1)] [=>(Pattern 2)] [=>(Pattern 3)]	[1]
	3	(1) SPT-CLJ0156-5541	(1) SPT-CLJ0156-5541	ACS/WFC, ACCUM, WFCENTER	F814W			POS TARG -0.0,0	Pattern 11, Exps 3-3 in SPT-CLJ0156-5541-ACS (01) (11)	545 Secs (1090 Secs) [=>(Pattern 1)] [=>(Pattern 2)]	[1]
	4	(1) SPT-CLJ0156-5541	(1) SPT-CLJ0156-5541	ACS/WFC, ACCUM, WFCENTER	F606W			POS TARG 0.175,0.125	Pattern 9, Exps 4-4 in SPT-CLJ0156-5541-ACS (01) (9)	525 Secs (1575 Secs) [=>(Pattern 1)] [=>(Pattern 2)] [=>(Pattern 3)]	[2]
	5	(1) SPT-CLJ0156-5541	(1) SPT-CLJ0156-5541	ACS/WFC, ACCUM, WFCENTER	F814W			POS TARG 0.195,0.125	Pattern 2, Exps 5-5 in SPT-CLJ0156-5541-ACS (01) (2)	555 Secs (2220 Secs) [=>(Pattern 1)] [=>(Pattern 2)] [=>(Pattern 3)] [=>(Pattern 4)]	[2]



Proposal 14677 - SPT-CLJ0156-5541-WFC3-IR (13) - Probing the most distant high-mass galaxy clusters from SPT with HST weak le...

Thu May 11 01:05:02 GMT 2017

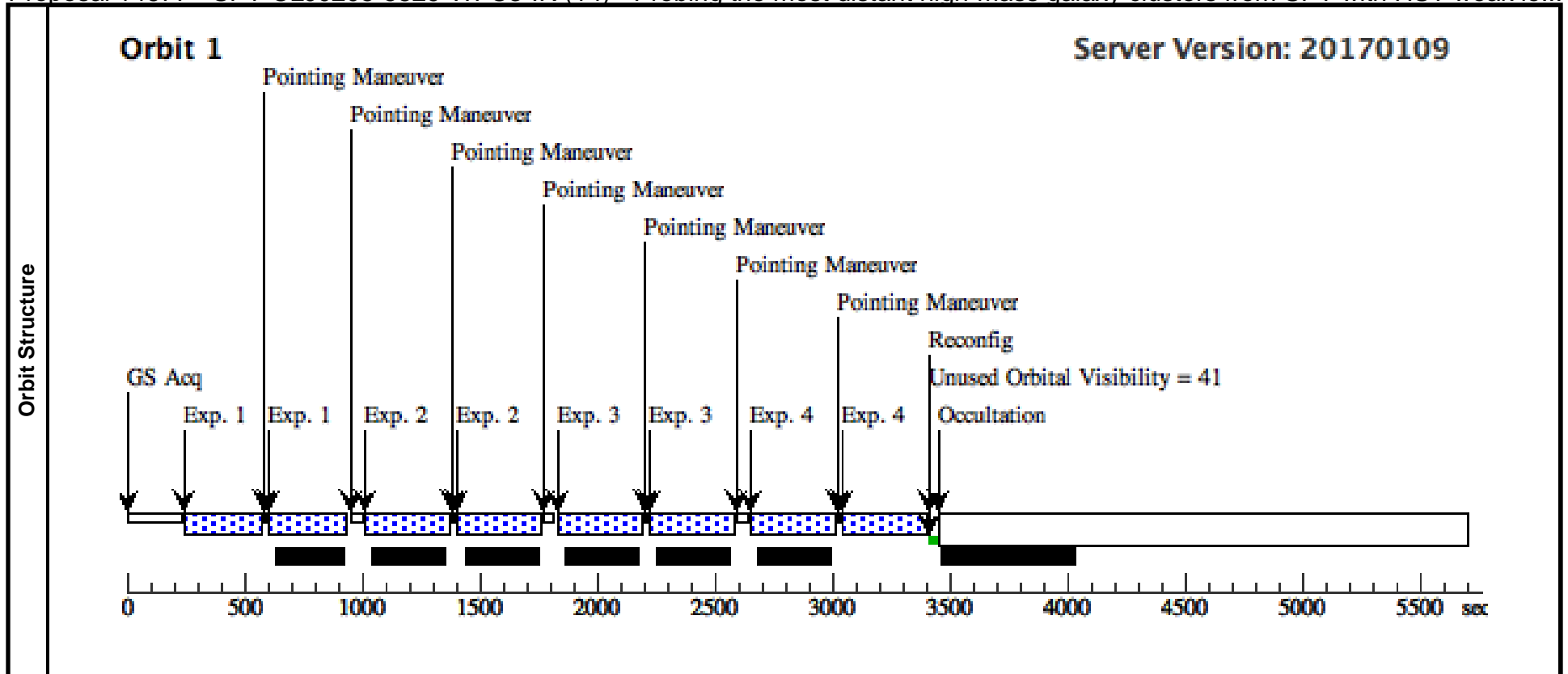
Visit	Proposal 14677, SPT-CLJ0156-5541-WFC3-IR (13), scheduling Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: ORIENT 43D TO 47D FROM 01									
	Patterns	#	Primary Pattern	Secondary Pattern	Exposures					
	(7)	Pattern Type=WFC3-IR-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=1.908 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=41.788 Angle Between Sides= Center Pattern=false		(1), (2), (3), (4)					
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(1)	SPT-CLJ0156-5541	RA: 01 56 9.7200 (29.0405000d) Dec: -55 41 51.36 (-55.69760d) Equinox: J2000		V=27	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(1) SPT-CLJ0156-5541	(1) SPT-CLJ0156-5541	WFC3/IR, MULTIACCUM, IR-UVIS-CENTER	F110W	NSAMP=13; SAMP-SEQ=SPAR S25	POS TARG 33,44	Sequence 1-4 Non-Int in SPT-CLJ0156-5541-WFC3-IR (13) Pattern 7, Exps 1-1 in Sequence 1-4 Non-Int in SPT-CLJ0156-5541-WFC3-IR (13) (7)	302.938471 Secs (605.877 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[1]
	2	(1) SPT-CLJ0156-5541	(1) SPT-CLJ0156-5541	WFC3/IR, MULTIACCUM, IR-UVIS-CENTER	F110W	NSAMP=14; SAMP-SEQ=SPAR S25	POS TARG -34,47	Sequence 1-4 Non-Int in SPT-CLJ0156-5541-WFC3-IR (13) Pattern 7, Exps 2-2 in Sequence 1-4 Non-Int in SPT-CLJ0156-5541-WFC3-IR (13) (7)	327.938986 Secs (655.878 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[1]
	3	(1) SPT-CLJ0156-5541	(1) SPT-CLJ0156-5541	WFC3/IR, MULTIACCUM, IR-UVIS-CENTER	F110W	NSAMP=13; SAMP-SEQ=SPAR S25	POS TARG -32,-37	Sequence 1-4 Non-Int in SPT-CLJ0156-5541-WFC3-IR (13) Pattern 7, Exps 3-3 in Sequence 1-4 Non-Int in SPT-CLJ0156-5541-WFC3-IR (13) (7)	302.938471 Secs (605.877 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[1]
	4	(1) SPT-CLJ0156-5541	(1) SPT-CLJ0156-5541	WFC3/IR, MULTIACCUM, IR-UVIS-CENTER	F110W	NSAMP=14; SAMP-SEQ=SPAR S25	POS TARG 38,-39	Sequence 1-4 Non-Int in SPT-CLJ0156-5541-WFC3-IR (13) Pattern 7, Exps 4-4 in Sequence 1-4 Non-Int in SPT-CLJ0156-5541-WFC3-IR (13) (7)	327.938986 Secs (655.878 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[1]



Proposal 14677 - SPT-CLJ0205-5829-WFC3-IR (14) - Probing the most distant high-mass galaxy clusters from SPT with HST weak le...

Thu May 11 01:05:02 GMT 2017

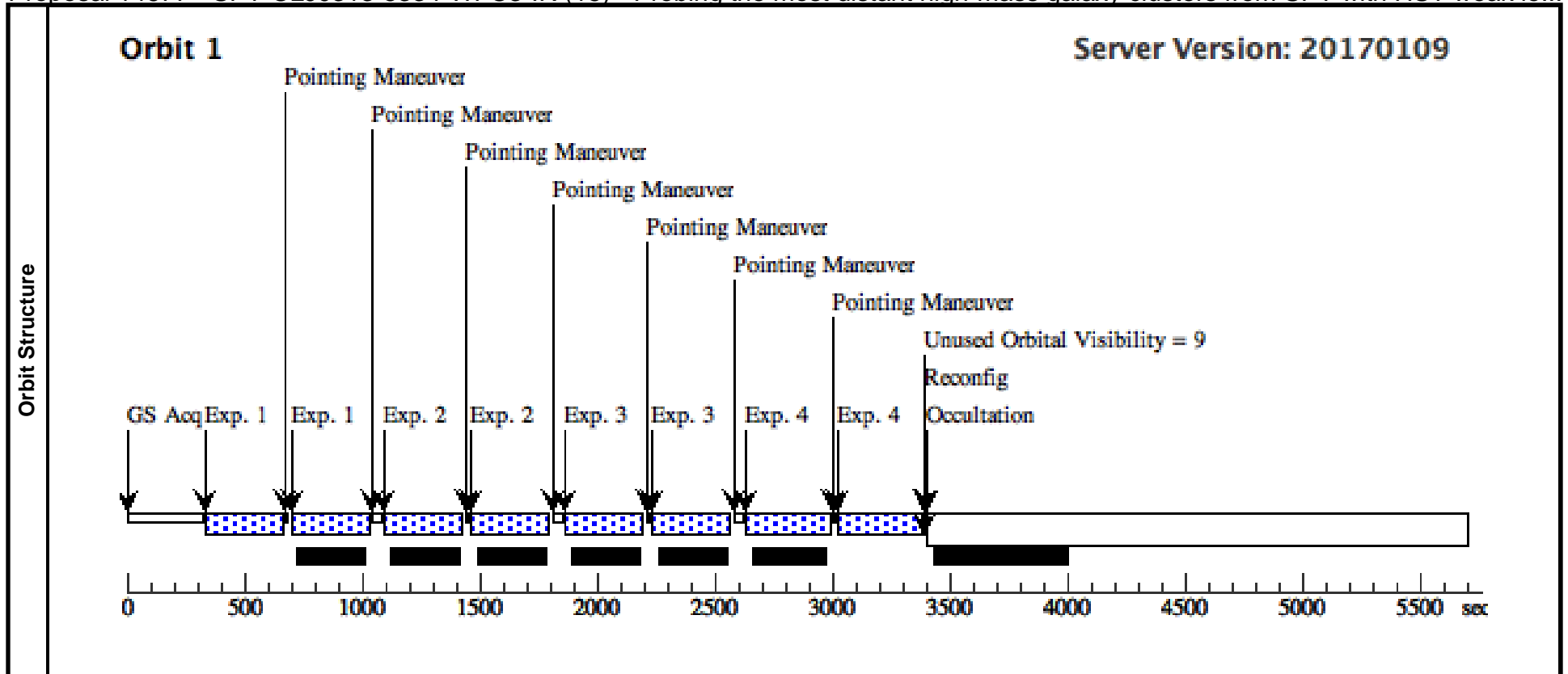
Visit	Proposal 14677, SPT-CLJ0205-5829-WFC3-IR (14), scheduling Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: ORIENT 210D TO 215 D; ORIENT 120D TO 125 D; ORIENT 30D TO 35 D; ORIENT 300D TO 305 D									
	Patterns	#	Primary Pattern	Secondary Pattern	Exposures					
		(7)	Pattern Type=WFC3-IR-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=1.908 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=41.788 Angle Between Sides= Center Pattern=false		(1), (2), (3), (4)				
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(2)	SPT-CLJ0205-5829	RA: 02 05 47.0160 (31.4459000d) Dec: -58 29 5.64 (-58.48490d) Equinox: J2000		V=27	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(2) SPT-CLJ0205-5829	(2) SPT-CLJ0205-5829	WFC3/IR, MULTIACCUM, IR-UVIS-CENTER	F110W	NSAMP=13; SAMP-SEQ=SPAR S25	POS TARG -41,-52	Sequence 1-4 Non-Int in SPT-CLJ0205-5829-WFC3-IR (14) Pattern 7, Exps 1-1 in Sequence 1-4 Non-Int in SPT-CLJ0205-5829-WFC3-IR (14) (7)	302.938471 Secs (605.877 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[1]
	2	(2) SPT-CLJ0205-5829	(2) SPT-CLJ0205-5829	WFC3/IR, MULTIACCUM, IR-UVIS-CENTER	F110W	NSAMP=14; SAMP-SEQ=SPAR S25	POS TARG -41,-46	Sequence 1-4 Non-Int in SPT-CLJ0205-5829-WFC3-IR (14) Pattern 7, Exps 2-2 in Sequence 1-4 Non-Int in SPT-CLJ0205-5829-WFC3-IR (14) (7)	327.938986 Secs (655.878 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[1]
	3	(2) SPT-CLJ0205-5829	(2) SPT-CLJ0205-5829	WFC3/IR, MULTIACCUM, IR-UVIS-CENTER	F110W	NSAMP=14; SAMP-SEQ=SPAR S25	POS TARG 42,-47	Sequence 1-4 Non-Int in SPT-CLJ0205-5829-WFC3-IR (14) Pattern 7, Exps 3-3 in Sequence 1-4 Non-Int in SPT-CLJ0205-5829-WFC3-IR (14) (7)	327.938986 Secs (655.878 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[1]
	4	(2) SPT-CLJ0205-5829	(2) SPT-CLJ0205-5829	WFC3/IR, MULTIACCUM, IR-UVIS-CENTER	F110W	NSAMP=14; SAMP-SEQ=SPAR S25	POS TARG 41,52; GS ACQ SCENARIO SINGLE	Sequence 1-4 Non-Int in SPT-CLJ0205-5829-WFC3-IR (14) Pattern 7, Exps 4-4 in Sequence 1-4 Non-Int in SPT-CLJ0205-5829-WFC3-IR (14) (7)	327.938986 Secs (655.878 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[1]



Proposal 14677 - SPT-CLJ0313-5334-WFC3-IR (15) - Probing the most distant high-mass galaxy clusters from SPT with HST weak le...

Thu May 11 01:05:02 GMT 2017

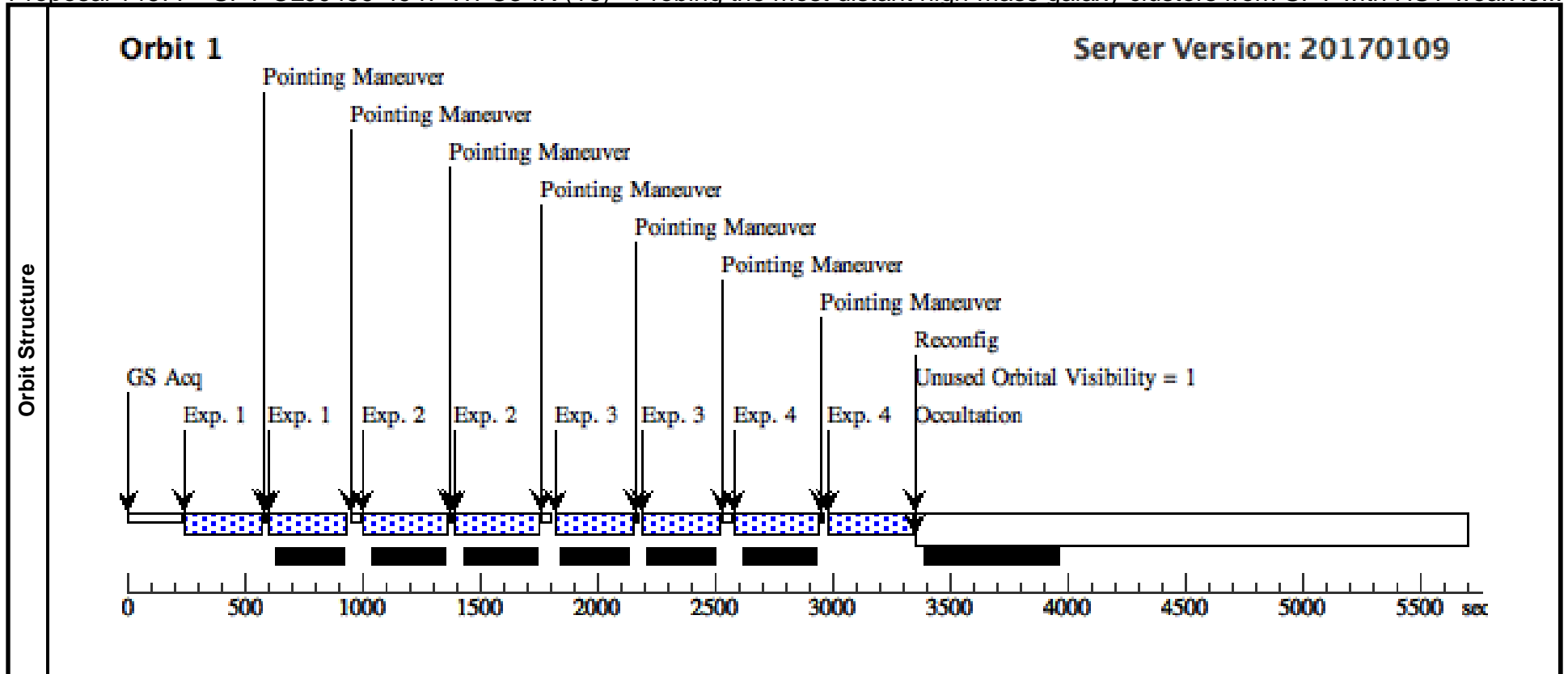
Visit	Proposal 14677, SPT-CLJ0313-5334-WFC3-IR (15), scheduling Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: ORIENT -137D TO -133D FROM 21									
	Patterns	#	Primary Pattern	Secondary Pattern	Exposures					
		(7)	Pattern Type=WFC3-IR-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=1.908 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=41.788 Angle Between Sides= Center Pattern=false		(1), (2), (3), (4)				
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(3)	SPT-CLJ0313-5334	RA: 03 13 55.5120 (48.4813000d) Dec: -53 34 18.48 (-53.57180d) Equinox: J2000		V=27	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(3) SPT-CLJ0313-5334	(3) SPT-CLJ0313-5334	WFC3/IR, MULTIACCUM, IR-UVIS-CENTER	F110W	NSAMP=13; SAMP-SEQ=SPAR S25	POS TARG 34,45	Sequence 1-4 Non-Int in SPT-CLJ0313-5334-WFC3-IR (15) Pattern 7, Exps 1-1 in Sequence 1-4 Non-Int in SPT-CLJ0313-5334-WFC3-IR (15) (7)	302.938471 Secs (605.877 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[1]
	2	(3) SPT-CLJ0313-5334	(3) SPT-CLJ0313-5334	WFC3/IR, MULTIACCUM, IR-UVIS-CENTER	F110W	NSAMP=13; SAMP-SEQ=SPAR S25	POS TARG -36,45	Sequence 1-4 Non-Int in SPT-CLJ0313-5334-WFC3-IR (15) Pattern 7, Exps 2-2 in Sequence 1-4 Non-Int in SPT-CLJ0313-5334-WFC3-IR (15) (7)	302.938471 Secs (605.877 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[1]
	3	(3) SPT-CLJ0313-5334	(3) SPT-CLJ0313-5334	WFC3/IR, MULTIACCUM, IR-UVIS-CENTER	F110W	NSAMP=13; SAMP-SEQ=SPAR S25	POS TARG -31,-39	Sequence 1-4 Non-Int in SPT-CLJ0313-5334-WFC3-IR (15) Pattern 7, Exps 3-3 in Sequence 1-4 Non-Int in SPT-CLJ0313-5334-WFC3-IR (15) (7)	302.938471 Secs (605.877 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[1]
	4	(3) SPT-CLJ0313-5334	(3) SPT-CLJ0313-5334	WFC3/IR, MULTIACCUM, IR-UVIS-CENTER	F110W	NSAMP=14; SAMP-SEQ=SPAR S25	POS TARG 36,-39	Sequence 1-4 Non-Int in SPT-CLJ0313-5334-WFC3-IR (15) Pattern 7, Exps 4-4 in Sequence 1-4 Non-Int in SPT-CLJ0313-5334-WFC3-IR (15) (7)	327.938986 Secs (655.878 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[1]



Proposal 14677 - SPT-CLJ0459-4947-WFC3-IR (16) - Probing the most distant high-mass galaxy clusters from SPT with HST weak le...

Thu May 11 01:05:02 GMT 2017

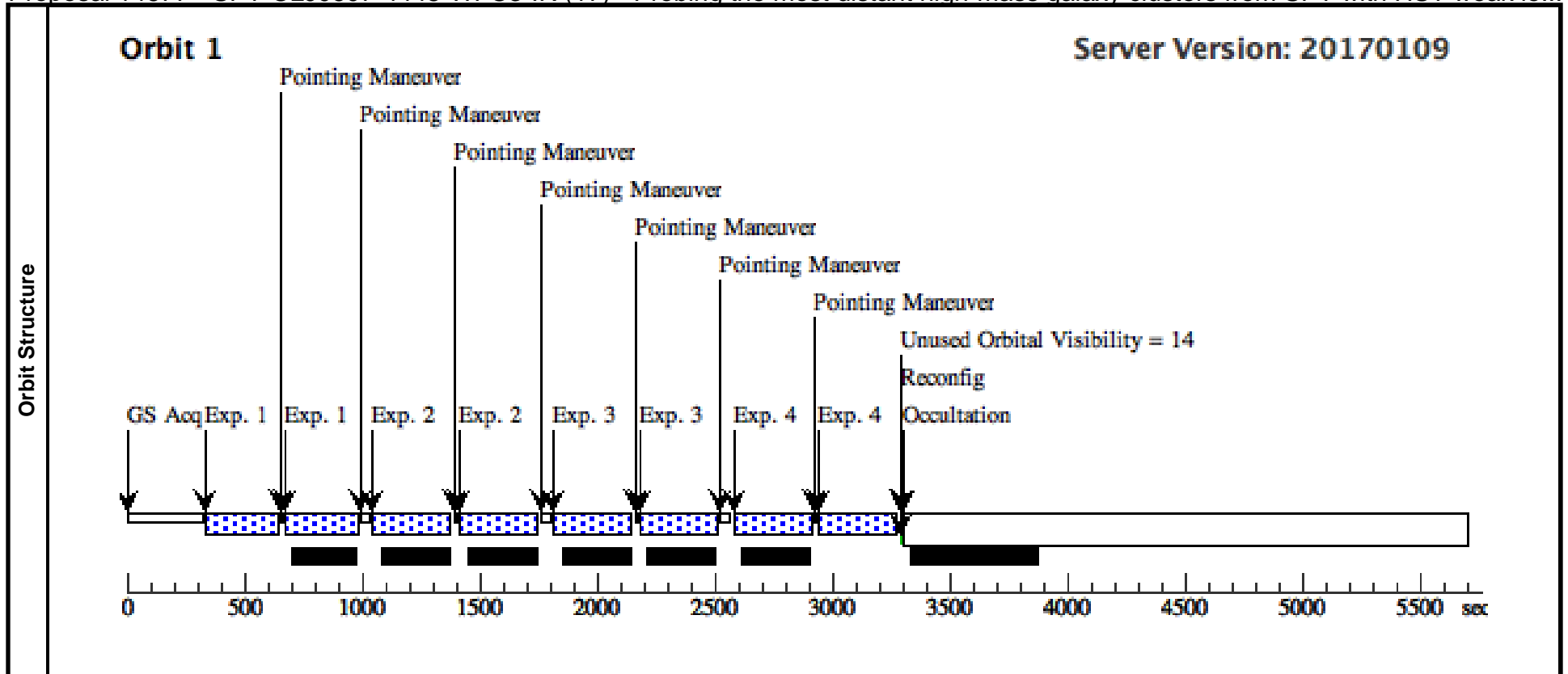
Visit	Proposal 14677, SPT-CLJ0459-4947-WFC3-IR (16), scheduling Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: ORIENT -47D TO -43D FROM 04									
	Patterns	#	Primary Pattern	Secondary Pattern	Exposures					
	(7)	Pattern Type=WFC3-IR-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=1.908 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=41.788 Angle Between Sides= Center Pattern=false		(1), (2), (3), (4)					
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(4)	SPT-CLJ0459-4947	RA: 04 59 41.1600 (74.9215000d) Dec: -49 47 6.28 (-49.78508d) Equinox: J2000		V=27	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(4) SPT-CLJ0459-4947	(4) SPT-CLJ0459-4947	WFC3/IR, MULTIACCUM, IR-UVIS-CENTER	F110W	NSAMP=13; SAMP-SEQ=SPAR S25	POS TARG -35,-39	Sequence 1-4 Non-Int in SPT-CLJ0459-4947-WFC3-IR (16) Pattern 7, Exps 1-1 in Sequence 1-4 Non-Int in SPT-CLJ0459-4947-WFC3-IR (16) (7)	302.938471 Secs (605.877 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[1]
	2	(4) SPT-CLJ0459-4947	(4) SPT-CLJ0459-4947	WFC3/IR, MULTIACCUM, IR-UVIS-CENTER	F110W	NSAMP=14; SAMP-SEQ=SPAR S25	POS TARG 35,-36	Sequence 1-4 Non-Int in SPT-CLJ0459-4947-WFC3-IR (16) Pattern 7, Exps 2-2 in Sequence 1-4 Non-Int in SPT-CLJ0459-4947-WFC3-IR (16) (7)	327.938986 Secs (655.878 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[1]
	3	(4) SPT-CLJ0459-4947	(4) SPT-CLJ0459-4947	WFC3/IR, MULTIACCUM, IR-UVIS-CENTER	F110W	NSAMP=13; SAMP-SEQ=SPAR S25	POS TARG 36,48; GS ACQ SCENARIO SINGLE	Sequence 1-4 Non-Int in SPT-CLJ0459-4947-WFC3-IR (16) Pattern 7, Exps 3-3 in Sequence 1-4 Non-Int in SPT-CLJ0459-4947-WFC3-IR (16) (7)	302.938471 Secs (605.877 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[1]
	4	(4) SPT-CLJ0459-4947	(4) SPT-CLJ0459-4947	WFC3/IR, MULTIACCUM, IR-UVIS-CENTER	F110W	NSAMP=14; SAMP-SEQ=SPAR S25	POS TARG -31,43	Sequence 1-4 Non-Int in SPT-CLJ0459-4947-WFC3-IR (16) Pattern 7, Exps 4-4 in Sequence 1-4 Non-Int in SPT-CLJ0459-4947-WFC3-IR (16) (7)	327.938986 Secs (655.878 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[1]



Proposal 14677 - SPT-CLJ0607-4448-WFC3-IR (17) - Probing the most distant high-mass galaxy clusters from SPT with HST weak le...

Thu May 11 01:05:02 GMT 2017

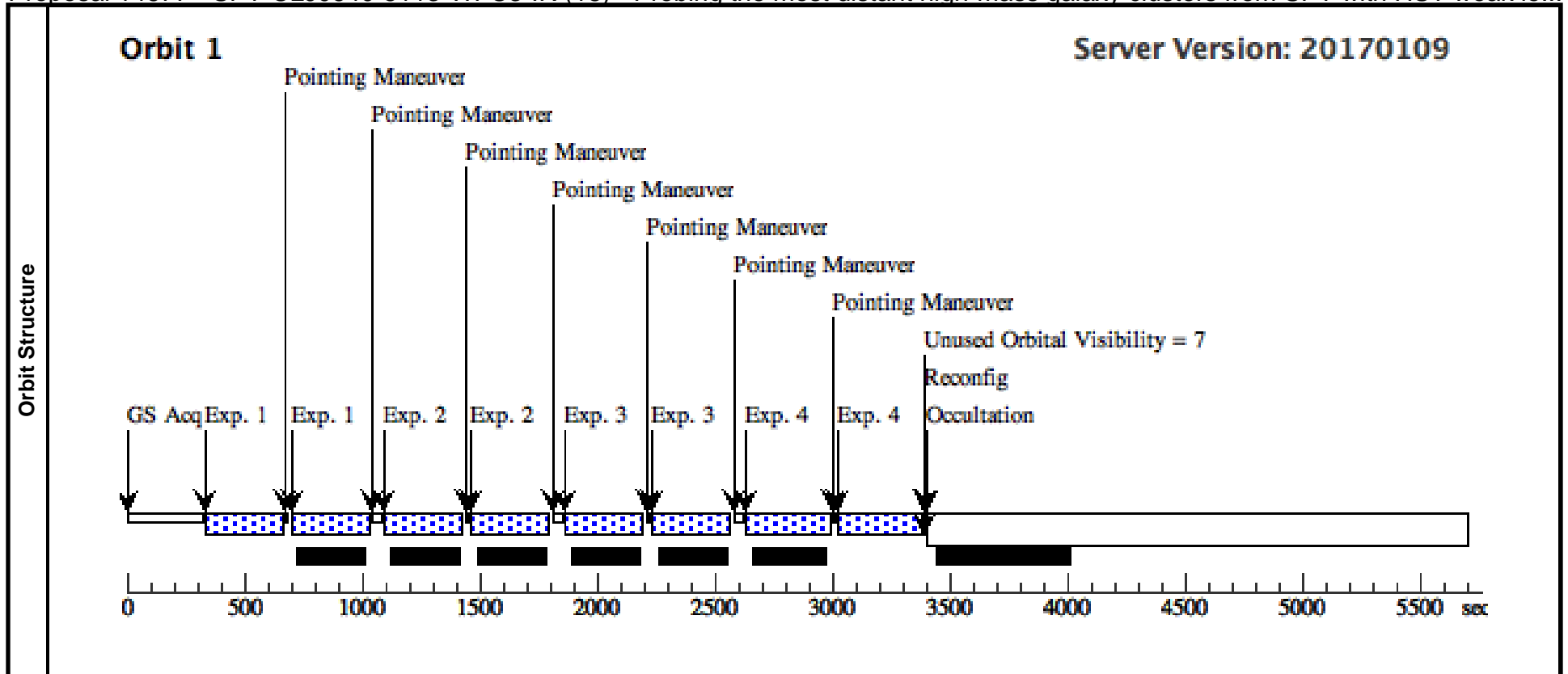
Visit	Proposal 14677, SPT-CLJ0607-4448-WFC3-IR (17), completed Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: ORIENT 43D TO 47D FROM 05									
	#	Primary Pattern	Secondary Pattern	Exposures						
	(7)	Pattern Type=WFC3-IR-DITHER- LINE Purpose=DITHER Number Of Points=2 Point Spacing=1.908 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=41.788 Angle Between Sides= Center Pattern=false	(1), (2), (3), (4)						
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(5)	SPT-CLJ0607-4448	RA: 06 07 34.1460 (91.8922750d) Dec: -44 48 5.86 (-44.80163d) Equinox: J2000		V=27	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(5) SPT-CLJ0607-44 48	(5) SPT-CLJ0607-44 48	WFC3/IR, MULTIACCUM, IR-UVIS-CENTER	F110W	NSAMP=12; SAMP-SEQ=SPAR S25	POS TARG 33,45	Sequence 1-4 Non-Int in SPT-CLJ0607-44 48-WFC3-IR (17) Pattern 7, Exps 1-1 i n Sequence 1-4 Non- Int in SPT-CLJ0607- 4448-WFC3-IR (17) (7)	277.937956 Secs (555.876 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[1]
	2	(5) SPT-CLJ0607-44 48	(5) SPT-CLJ0607-44 48	WFC3/IR, MULTIACCUM, IR-UVIS-CENTER	F110W	NSAMP=13; SAMP-SEQ=SPAR S25	POS TARG -34,46	Sequence 1-4 Non-Int in SPT-CLJ0607-44 48-WFC3-IR (17) Pattern 7, Exps 2-2 i n Sequence 1-4 Non- Int in SPT-CLJ0607- 4448-WFC3-IR (17) (7)	302.938471 Secs (605.877 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[1]
	3	(5) SPT-CLJ0607-44 48	(5) SPT-CLJ0607-44 48	WFC3/IR, MULTIACCUM, IR-UVIS-CENTER	F110W	NSAMP=13; SAMP-SEQ=SPAR S25	POS TARG -32,-37	Sequence 1-4 Non-Int in SPT-CLJ0607-44 48-WFC3-IR (17) Pattern 7, Exps 3-3 i n Sequence 1-4 Non- Int in SPT-CLJ0607- 4448-WFC3-IR (17) (7)	302.938471 Secs (605.877 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[1]
	4	(5) SPT-CLJ0607-44 48	(5) SPT-CLJ0607-44 48	WFC3/IR, MULTIACCUM, IR-UVIS-CENTER	F110W	NSAMP=13; SAMP-SEQ=SPAR S25	POS TARG 36,-39	Sequence 1-4 Non-Int in SPT-CLJ0607-44 48-WFC3-IR (17) Pattern 7, Exps 4-4 i n Sequence 1-4 Non- Int in SPT-CLJ0607- 4448-WFC3-IR (17) (7)	302.938471 Secs (605.877 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[1]



Proposal 14677 - SPT-CLJ0640-5113-WFC3-IR (18) - Probing the most distant high-mass galaxy clusters from SPT with HST weak le...

Thu May 11 01:05:02 GMT 2017

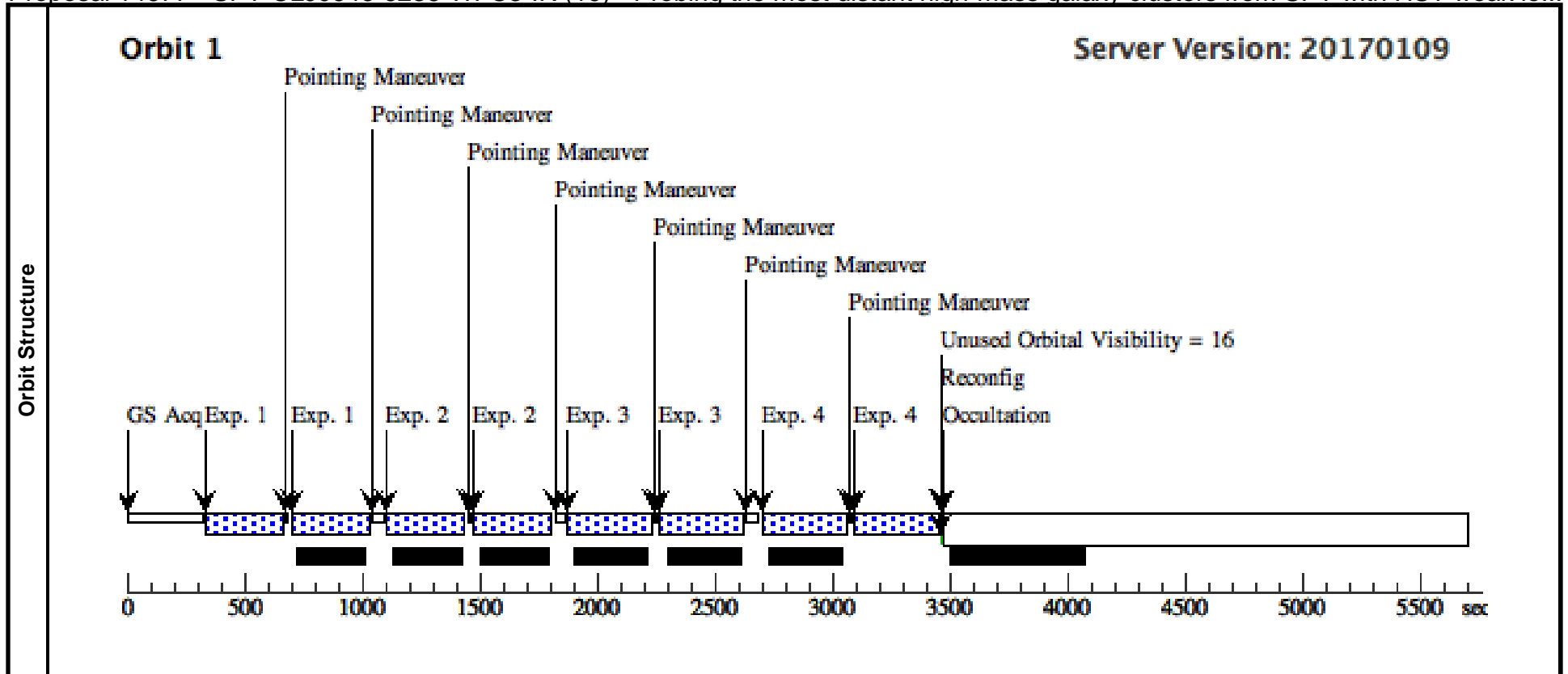
Visit	Proposal 14677, SPT-CLJ0640-5113-WFC3-IR (18), completed Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: ORIENT 133D TO 137D FROM 06									
	Patterns	#	Primary Pattern	Secondary Pattern	Exposures					
		(7)	Pattern Type=WFC3-IR-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=1.908 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=41.788 Angle Between Sides= Center Pattern=false		(1), (2), (3), (4)				
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(6)	SPT-CLJ0640-5113	RA: 06 40 17.2800 (100.0720000d) Dec: -51 13 3.36 (-51.21760d) Equinox: J2000		V=27	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(6) SPT-CLJ0640-5113	(6) SPT-CLJ0640-5113	WFC3/IR, MULTIACCUM, IR-UVIS-CENTER	F110W	NSAMP=13; SAMP-SEQ=SPAR S25	POS TARG 39,47	Pattern 7, Exps 1-1 in SPT-CLJ0640-5113-WFC3-IR (18) (7)	302.938471 Secs (605.877 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[1]
	2	(6) SPT-CLJ0640-5113	(6) SPT-CLJ0640-5113	WFC3/IR, MULTIACCUM, IR-UVIS-CENTER	F110W	NSAMP=13; SAMP-SEQ=SPAR S25	POS TARG -33,46	Pattern 7, Exps 2-2 in SPT-CLJ0640-5113-WFC3-IR (18) (7)	302.938471 Secs (605.877 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[1]
	3	(6) SPT-CLJ0640-5113	(6) SPT-CLJ0640-5113	WFC3/IR, MULTIACCUM, IR-UVIS-CENTER	F110W	NSAMP=13; SAMP-SEQ=SPAR S25	POS TARG -35,-42	Pattern 7, Exps 3-3 in SPT-CLJ0640-5113-WFC3-IR (18) (7)	302.938471 Secs (605.877 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[1]
	4	(6) SPT-CLJ0640-5113	(6) SPT-CLJ0640-5113	WFC3/IR, MULTIACCUM, IR-UVIS-CENTER	F110W	NSAMP=14; SAMP-SEQ=SPAR S25	POS TARG 37,-39	Pattern 7, Exps 4-4 in SPT-CLJ0640-5113-WFC3-IR (18) (7)	327.938986 Secs (655.878 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[1]



Proposal 14677 - SPT-CLJ0646-6236-WFC3-IR (19) - Probing the most distant high-mass galaxy clusters from SPT with HST weak le...

Thu May 11 01:05:02 GMT 2017

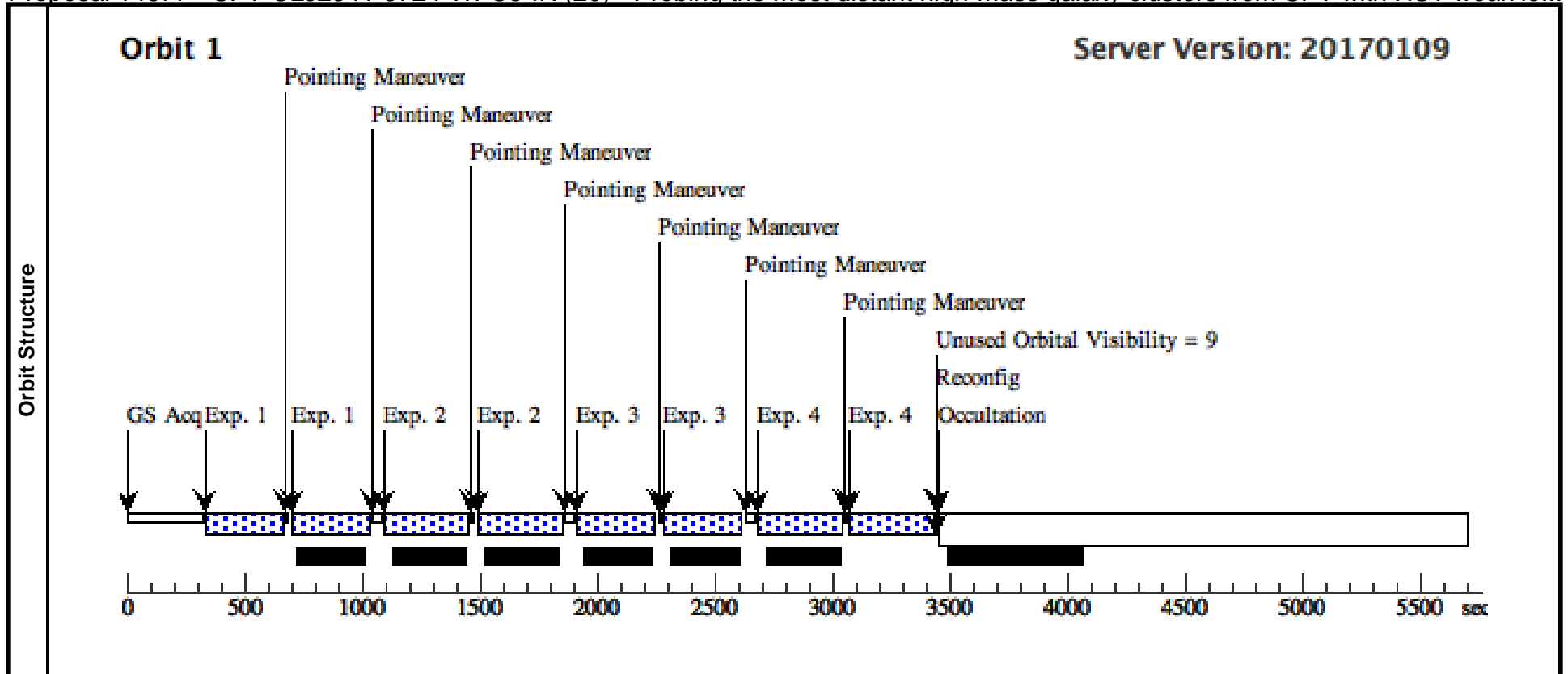
Visit	Proposal 14677, SPT-CLJ0646-6236-WFC3-IR (19), completed Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: ORIENT 43D TO 47D FROM 07									
	Patterns	#	Primary Pattern	Secondary Pattern	Exposures					
		(7)	Pattern Type=WFC3-IR-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=1.908 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=41.788 Angle Between Sides= Center Pattern=false		(1), (2), (3), (4)				
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(7)	SPT-CLJ0646-6236	RA: 06 46 33.3840 (101.6391000d) Dec: -62 36 48.96 (-62.61360d) Equinox: J2000		V=27	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(7) SPT-CLJ0646-6236	(7) SPT-CLJ0646-6236	WFC3/IR, MULTIACCUM, IR-UVIS-CENTER	F110W	NSAMP=13; SAMP-SEQ=SPAR S25	POS TARG 36,44	Sequence 1-4 Non-Int in SPT-CLJ0646-6236-WFC3-IR (19) Pattern 7, Exps 1-1 in Sequence 1-4 Non-Int in SPT-CLJ0646-6236-WFC3-IR (19) (7)	302.938471 Secs (605.877 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[1]
	2	(7) SPT-CLJ0646-6236	(7) SPT-CLJ0646-6236	WFC3/IR, MULTIACCUM, IR-UVIS-CENTER	F110W	NSAMP=13; SAMP-SEQ=SPAR S25	POS TARG -34,-38	Sequence 1-4 Non-Int in SPT-CLJ0646-6236-WFC3-IR (19) Pattern 7, Exps 2-2 in Sequence 1-4 Non-Int in SPT-CLJ0646-6236-WFC3-IR (19) (7)	302.938471 Secs (605.877 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[1]
	3	(7) SPT-CLJ0646-6236	(7) SPT-CLJ0646-6236	WFC3/IR, MULTIACCUM, IR-UVIS-CENTER	F110W	NSAMP=14; SAMP-SEQ=SPAR S25	POS TARG 41,-40	Sequence 1-4 Non-Int in SPT-CLJ0646-6236-WFC3-IR (19) Pattern 7, Exps 3-3 in Sequence 1-4 Non-Int in SPT-CLJ0646-6236-WFC3-IR (19) (7)	327.938986 Secs (655.878 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[1]
	4	(7) SPT-CLJ0646-6236	(7) SPT-CLJ0646-6236	WFC3/IR, MULTIACCUM, IR-UVIS-CENTER	F110W	NSAMP=14; SAMP-SEQ=SPAR S25	POS TARG -37,49	Sequence 1-4 Non-Int in SPT-CLJ0646-6236-WFC3-IR (19) Pattern 7, Exps 4-4 in Sequence 1-4 Non-Int in SPT-CLJ0646-6236-WFC3-IR (19) (7)	327.938986 Secs (655.878 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[1]



Proposal 14677 - SPT-CLJ2341-5724-WFC3-IR (20) - Probing the most distant high-mass galaxy clusters from SPT with HST weak le...

Thu May 11 01:05:02 GMT 2017

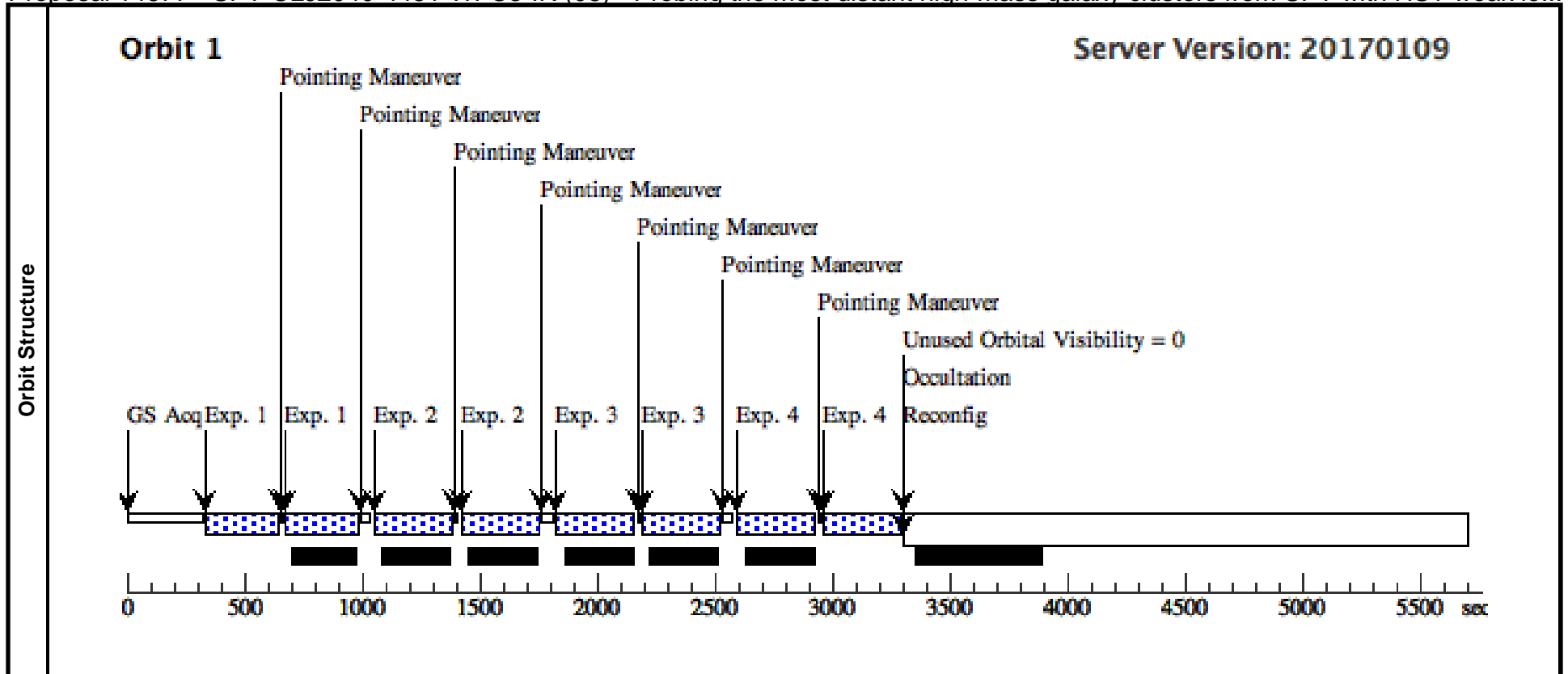
Visit	Proposal 14677, SPT-CLJ2341-5724-WFC3-IR (20), completed Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: ORIENT -137D TO -133D FROM 09									
	Patterns	#	Primary Pattern	Secondary Pattern	Exposures					
	(7)	Pattern Type=WFC3-IR-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=1.908 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=41.788 Angle Between Sides= Center Pattern=false		(1), (2), (3), (4)					
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(9)	SPT-CLJ2341-5724	RA: 23 41 24.7920 (355.3533000d) Dec: -57 24 59.76 (-57.41660d) Equinox: J2000		V=27	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(9) SPT-CLJ2341-5724	(9) SPT-CLJ2341-5724	WFC3/IR, MULTIACCUM, IR-UVIS-CENTER	F110W	NSAMP=13; SAMP-SEQ=SPAR S25	POS TARG 36,44	Sequence 1-4 Non-Int in SPT-CLJ2341-5724-WFC3-IR (20) Pattern 7, Exps 1-1 in Sequence 1-4 Non-Int in SPT-CLJ2341-5724-WFC3-IR (20) (7)	302.938471 Secs (605.877 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[1]
	2	(9) SPT-CLJ2341-5724	(9) SPT-CLJ2341-5724	WFC3/IR, MULTIACCUM, IR-UVIS-CENTER	F110W	NSAMP=14; SAMP-SEQ=SPAR S25	POS TARG -37,49	Sequence 1-4 Non-Int in SPT-CLJ2341-5724-WFC3-IR (20) Pattern 7, Exps 2-2 in Sequence 1-4 Non-Int in SPT-CLJ2341-5724-WFC3-IR (20) (7)	327.938986 Secs (655.878 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[1]
	3	(9) SPT-CLJ2341-5724	(9) SPT-CLJ2341-5724	WFC3/IR, MULTIACCUM, IR-UVIS-CENTER	F110W	NSAMP=13; SAMP-SEQ=SPAR S25	POS TARG -34,-37	Sequence 1-4 Non-Int in SPT-CLJ2341-5724-WFC3-IR (20) Pattern 7, Exps 3-3 in Sequence 1-4 Non-Int in SPT-CLJ2341-5724-WFC3-IR (20) (7)	302.938471 Secs (605.877 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[1]
	4	(9) SPT-CLJ2341-5724	(9) SPT-CLJ2341-5724	WFC3/IR, MULTIACCUM, IR-UVIS-CENTER	F110W	NSAMP=14; SAMP-SEQ=SPAR S25	POS TARG 39,-42	Sequence 1-4 Non-Int in SPT-CLJ2341-5724-WFC3-IR (20) Pattern 7, Exps 4-4 in Sequence 1-4 Non-Int in SPT-CLJ2341-5724-WFC3-IR (20) (7)	327.938986 Secs (655.878 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[1]



Proposal 14677 - SPT-CLJ2040-4451-WFC3-IR (08) - Probing the most distant high-mass galaxy clusters from SPT with HST weak le...

Thu May 11 01:05:02 GMT 2017

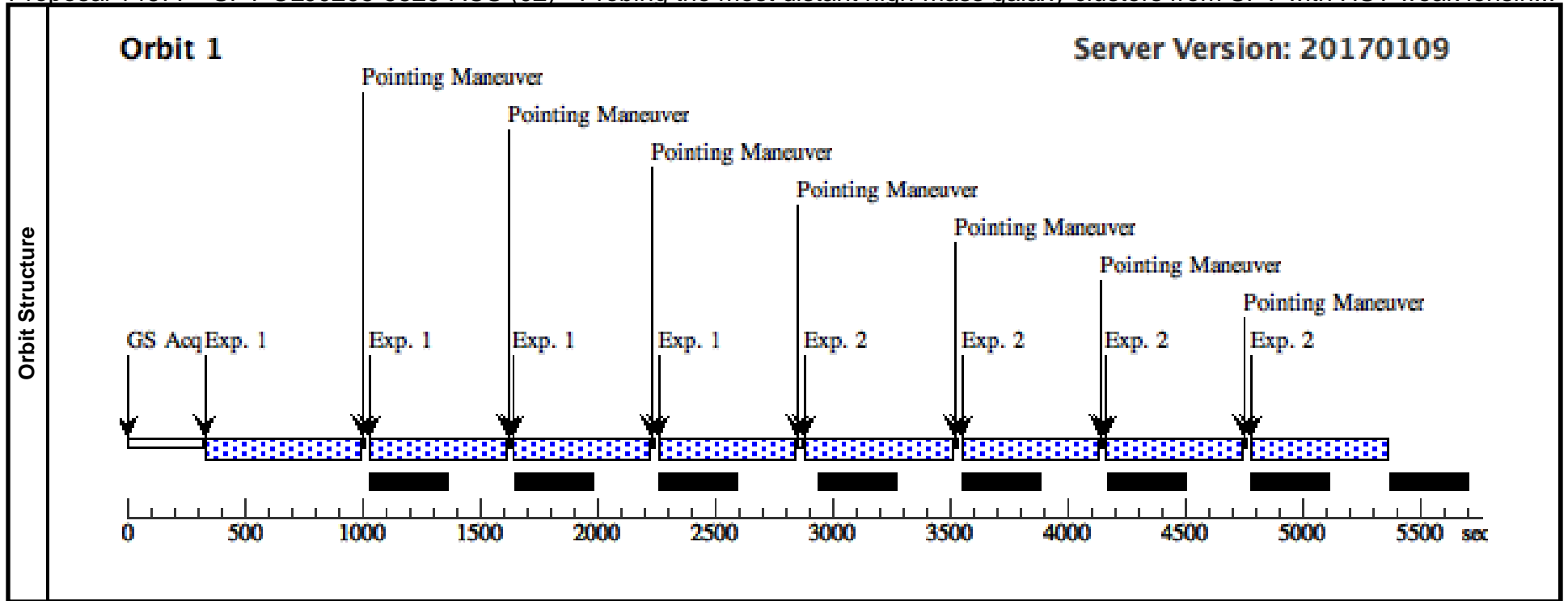
Visit	Proposal 14677, SPT-CLJ2040-4451-WFC3-IR (08), completed Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: ORIENT 91D TO 95 D									
	Patterns	#	Primary Pattern	Secondary Pattern	Exposures					
		(7)	Pattern Type=WFC3-IR-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=1.908 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=41.788 Angle Between Sides= Center Pattern=false		(1), (2), (3), (4)				
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(8)	SPT-CLJ2040-4451	RA: 20 40 58.0080 (310.2417000d) Dec: -44 51 43.20 (-44.86200d) Equinox: J2000		V=27	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(8) SPT-CLJ2040-4451	(8) SPT-CLJ2040-4451	WFC3/IR, MULTIACCUM, IR-UVIS-CENTER	F110W	NSAMP=12; SAMP-SEQ=SPAR S25	POS TARG 62,49	Sequence 1-4 Non-Int in SPT-CLJ2040-4451-WFC3-IR (08) Pattern 7, Exps 1-1 in Sequence 1-4 Non-Int in SPT-CLJ2040-4451-WFC3-IR (08) (7)	277.937956 Secs (555.876 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[1]
	2	(8) SPT-CLJ2040-4451	(8) SPT-CLJ2040-4451	WFC3/IR, MULTIACCUM, IR-UVIS-CENTER	F110W	NSAMP=13; SAMP-SEQ=SPAR S25	POS TARG -24,54	Sequence 1-4 Non-Int in SPT-CLJ2040-4451-WFC3-IR (08) Pattern 7, Exps 2-2 in Sequence 1-4 Non-Int in SPT-CLJ2040-4451-WFC3-IR (08) (7)	302.938471 Secs (605.877 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[1]
	3	(8) SPT-CLJ2040-4451	(8) SPT-CLJ2040-4451	WFC3/IR, MULTIACCUM, IR-UVIS-CENTER	F110W	NSAMP=13; SAMP-SEQ=SPAR S25	POS TARG -25,-41	Sequence 1-4 Non-Int in SPT-CLJ2040-4451-WFC3-IR (08) Pattern 7, Exps 3-3 in Sequence 1-4 Non-Int in SPT-CLJ2040-4451-WFC3-IR (08) (7)	302.938471 Secs (605.877 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[1]
	4	(8) SPT-CLJ2040-4451	(8) SPT-CLJ2040-4451	WFC3/IR, MULTIACCUM, IR-UVIS-CENTER	F110W	NSAMP=13; SAMP-SEQ=SPAR S25	POS TARG 65,-38	Sequence 1-4 Non-Int in SPT-CLJ2040-4451-WFC3-IR (08) Pattern 7, Exps 4-4 in Sequence 1-4 Non-Int in SPT-CLJ2040-4451-WFC3-IR (08) (7)	302.938471 Secs (605.877 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[1]



Proposal 14677 - SPT-CLJ0205-5829-ACS (02) - Probing the most distant high-mass galaxy clusters from SPT with HST weak lensin...

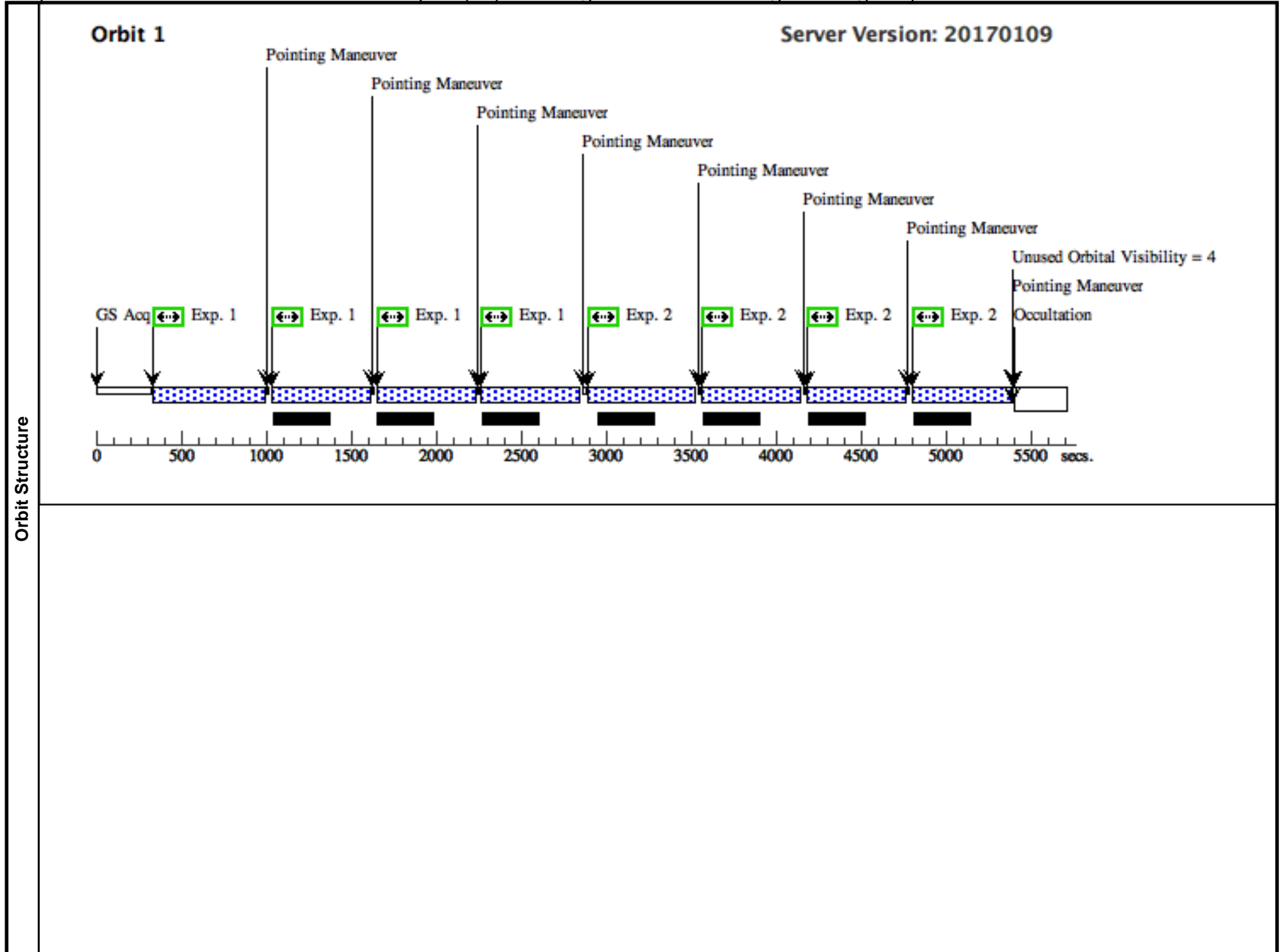
Thu May 11 01:05:03 GMT 2017

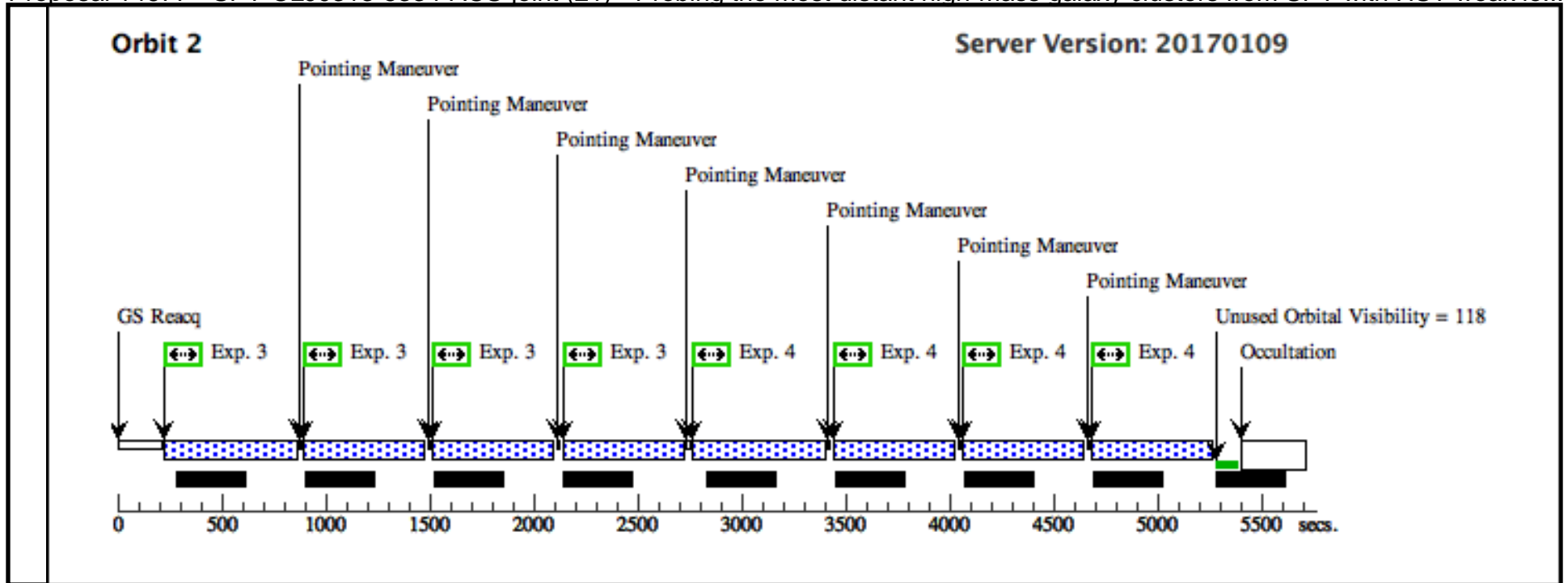
Visit	Proposal 14677, SPT-CLJ0205-5829-ACS (02), implementation Diagnostic Status: No Diagnostics Scientific Instruments: ACS/WFC Special Requirements: CVZ; ORIENT 257D TO 260 D; ORIENT 76D TO 80 D; ORIENT 166D TO 170 D; ORIENT 346D TO 350 D									
	Patterns	#	Primary Pattern	Secondary Pattern	Exposures					
		(2)	Pattern Type=ACS-WFC-DITHER-LINE Purpose=DITHER Number Of Points=4 Point Spacing=3.011 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=85.28 Angle Between Sides= Center Pattern=true		(1), (2)				
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(10)	SPT-CLJ0205-5829-OFFSET	RA: 02 05 48.5000 (31.4520833d) Dec: -58 29 12.00 (-58.48667d) Equinox: J2000		V=27	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(10) SPT-CLJ0205-5829-OFFSET	ACS/WFC, ACCUM, WFCENTER	F814W		GS ACQ SCENARIO BASE1B3	Pattern 2, Exps 1-1 in SPT-CLJ0205-5829-ACS (02) (2)	453 Secs (1812 Secs) [=>(Pattern 1)] [=>(Pattern 2)] [=>(Pattern 3)] [=>(Pattern 4)]	[1]
2		(10) SPT-CLJ0205-5829-OFFSET	ACS/WFC, ACCUM, WFCENTER	F606W			Pattern 2, Exps 2-2 in SPT-CLJ0205-5829-ACS (02) (2)	453 Secs (1812 Secs) [=>(Pattern 1)] [=>(Pattern 2)] [=>(Pattern 3)] [=>(Pattern 4)]	[1]	



Proposal 14677 - SPT-CLJ0313-5334-ACS-joint (21) - Probing the most distant high-mass galaxy clusters from SPT with HST weak le...

Visit	Proposal 14677, SPT-CLJ0313-5334-ACS-joint (21), completed Thu May 11 01:05:03 GMT 2017 Diagnostic Status: Warning Scientific Instruments: ACS/WFC Special Requirements: VISIBILITY INTERVAL 90 M									
	(Exposure 3 (Pattern 2, Exps 3-3 in SPT-CLJ0313-5334-ACS-joint (21)) special requirements) Warning (Form): Be very careful mixing POS TARG and Center_Pattern = Yes (Exposure 4 (Pattern 2, Exps 4-4 in SPT-CLJ0313-5334-ACS-joint (21)) special requirements) Warning (Form): Be very careful mixing POS TARG and Center_Pattern = Yes									
Diagnosics										
Patterns	#	Primary Pattern		Secondary Pattern	Exposures					
	(2)	Pattern Type=ACS-WFC-DITHER- LINE Purpose=DITHER Number Of Points=4 Point Spacing=3.011 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=85.28 Angle Between Sides= Center Pattern=true		(1), (2), (3), (4)					
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(3)	SPT-CLJ0313-5334	RA: 03 13 55.5120 (48.4813000d) Dec: -53 34 18.48 (-53.57180d) Equinox: J2000		V=27	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(3) SPT-CLJ0313-5334	(3) SPT-CLJ0313-5334	ACS/WFC, ACCUM, WFCENTER	F814W			Pattern 2, Exps 1-1 in SPT-CLJ0313-5334-ACS-joint (21) (2)	456 Secs (1824 Secs) [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[1]
	2	(3) SPT-CLJ0313-5334	(3) SPT-CLJ0313-5334	ACS/WFC, ACCUM, WFCENTER	F606W			Pattern 2, Exps 2-2 in SPT-CLJ0313-5334-ACS-joint (21) (2)	456 Secs (1824 Secs) [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[1]
	3	(3) SPT-CLJ0313-5334	(3) SPT-CLJ0313-5334	ACS/WFC, ACCUM, WFCENTER	F814W			POS TARG 0.175,0.125 Pattern 2, Exps 3-3 in SPT-CLJ0313-5334-ACS-joint (21) (2)	459 Secs (1836 Secs) [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[2]
	4	(3) SPT-CLJ0313-5334	(3) SPT-CLJ0313-5334	ACS/WFC, ACCUM, WFCENTER	F606W			POS TARG 0.175,0.125 Pattern 2, Exps 4-4 in SPT-CLJ0313-5334-ACS-joint (21) (2)	459 Secs (1836 Secs) [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[2]



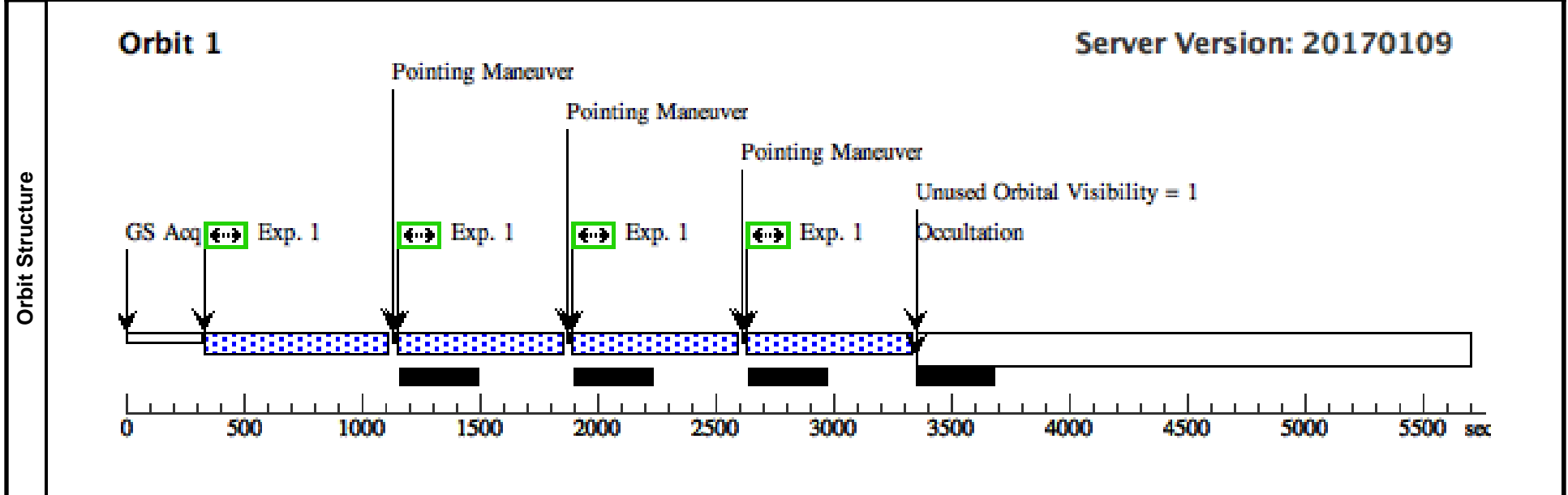


Visit	Proposal 14677, SPT-CLJ0459-4947-ACS (04), scheduling Diagnostic Status: No Diagnostics Scientific Instruments: ACS/WFC Special Requirements: ORIENT 240D TO 245 D; ORIENT 150D TO 155 D; ORIENT 330D TO 335 D		

Patterns	#	Primary Pattern	Secondary Pattern	Exposures
	(2)	Pattern Type=ACS-WFC-DITHER-LINE Purpose=DITHER Number Of Points=4 Point Spacing=3.011 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=85.28 Angle Between Sides= Center Pattern=true	

Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(4)	SPT-CLJ0459-4947	RA: 04 59 41.1600 (74.9215000d) Dec: -49 47 6.28 (-49.78508d) Equinox: J2000		V=27	Reference Frame: ICRS

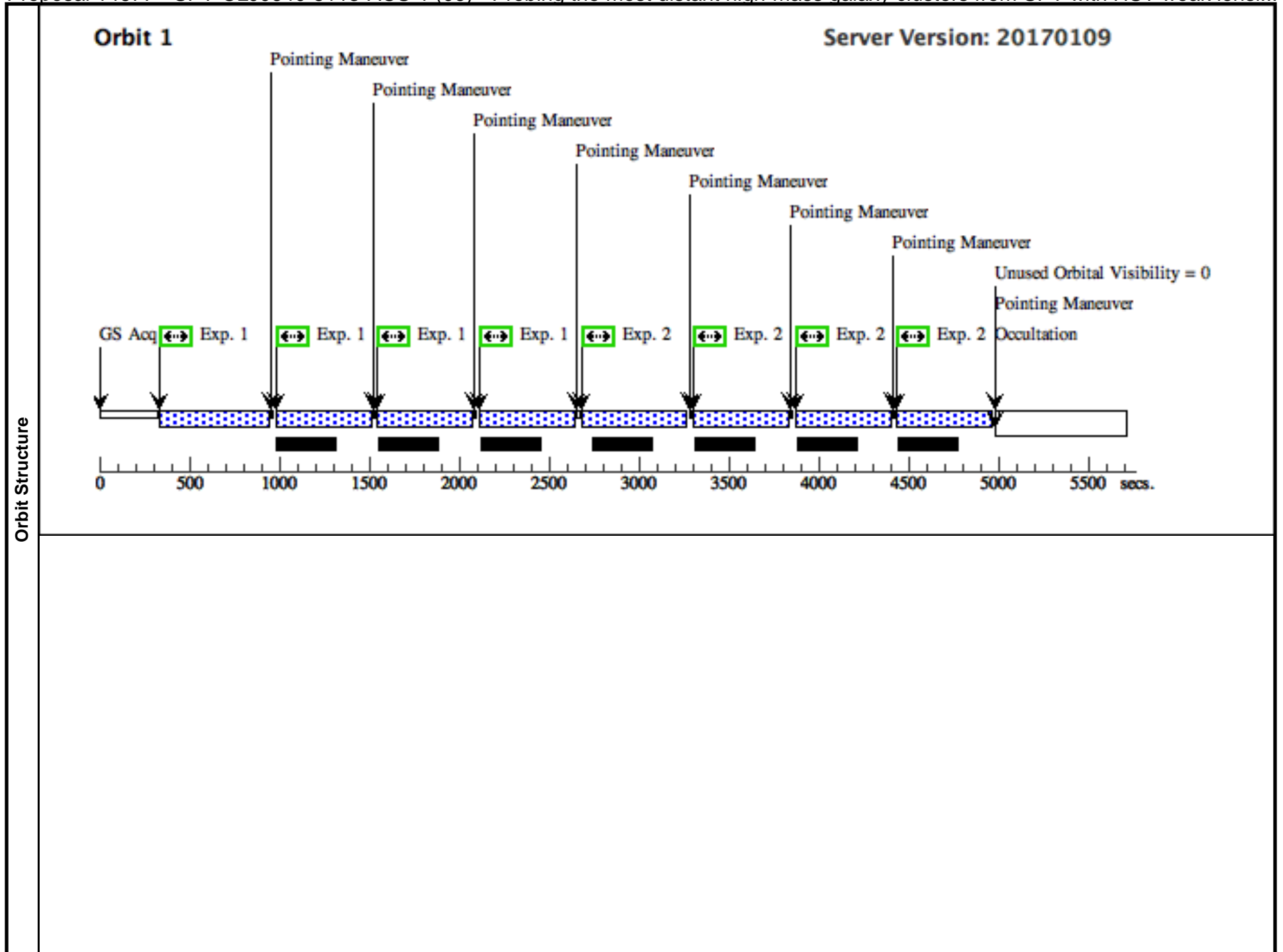
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(4) SPT-CLJ0459-4947	ACS/WFC, ACCUM, WFCENTER	F606W				Pattern 2, Exps 1-1 in SPT-CLJ0459-4947-ACS (04) (2)	578 Secs (2312 Secs) [=>(Pattern 1)] [=>(Pattern 2)] [=>(Pattern 3)] [=>(Pattern 4)]

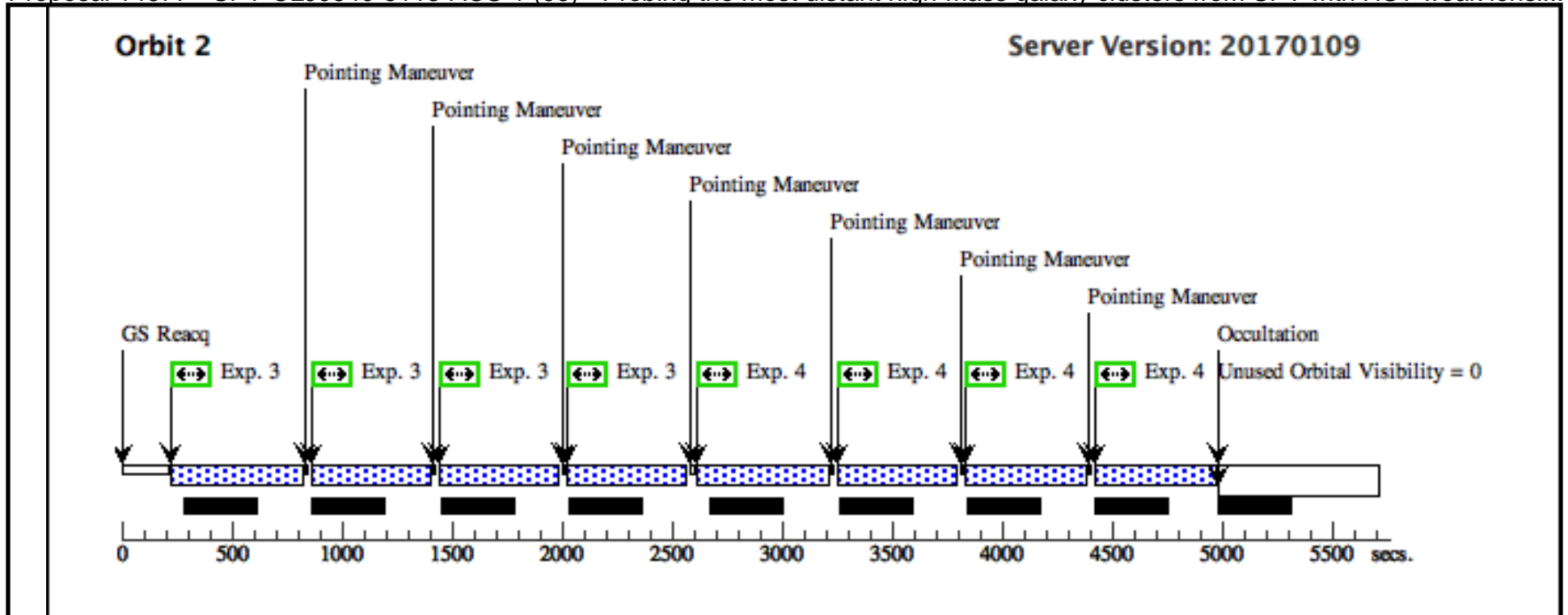


Visit	Proposal 14677, SPT-CLJ0607-4448-ACS (05), scheduling Diagnostic Status: No Diagnostics Scientific Instruments: ACS/WFC Special Requirements: ORIENT 63D TO 69 D; ORIENT 153D TO 159 D; ORIENT 243D TO 249 D; ORIENT 333D TO 339 D									
Patterns	#	Primary Pattern		Secondary Pattern	Exposures					
	(2)	Pattern Type=ACS-WFC-DITHER-LINE Purpose=DITHER Number Of Points=4 Point Spacing=3.011 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=85.28 Angle Between Sides= Center Pattern=true		(1)					
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(5)	SPT-CLJ0607-4448	RA: 06 07 34.1460 (91.8922750d) Dec: -44 48 5.86 (-44.80163d) Equinox: J2000		V=27	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(5) SPT-CLJ0607-4448	ACS/WFC, ACCUM, WFCENTER	F606W				Pattern 2, Exps 1-1 in SPT-CLJ0607-4448-ACS (05) (2) 567 Secs (2268 Secs) [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[1]
Orbit Structure	Orbit 1 Server Version: 20170109									
	<p>The diagram illustrates the orbit structure for Orbit 1 over a 5500-second period. Key events include:</p> <ul style="list-style-type: none"> GS Acq: Ground Station Acquisition at approximately 100 seconds. Exp. 1: Four exposures, each lasting 567 seconds, occurring at approximately 400, 1100, 1800, and 2500 seconds. Pointing Maneuvers: Three maneuvers occurring between exposures at approximately 1100, 1800, and 2500 seconds. Occultation: A period where the target is obscured by the Earth, starting at approximately 3300 seconds. Unused Orbital Visibility = 0: The remaining time from 3300 to 5500 seconds is not used for observations. 									

Proposal 14677 - SPT-CLJ0640-5113-ACS-1 (06) - Probing the most distant high-mass galaxy clusters from SPT with HST weak lensi...

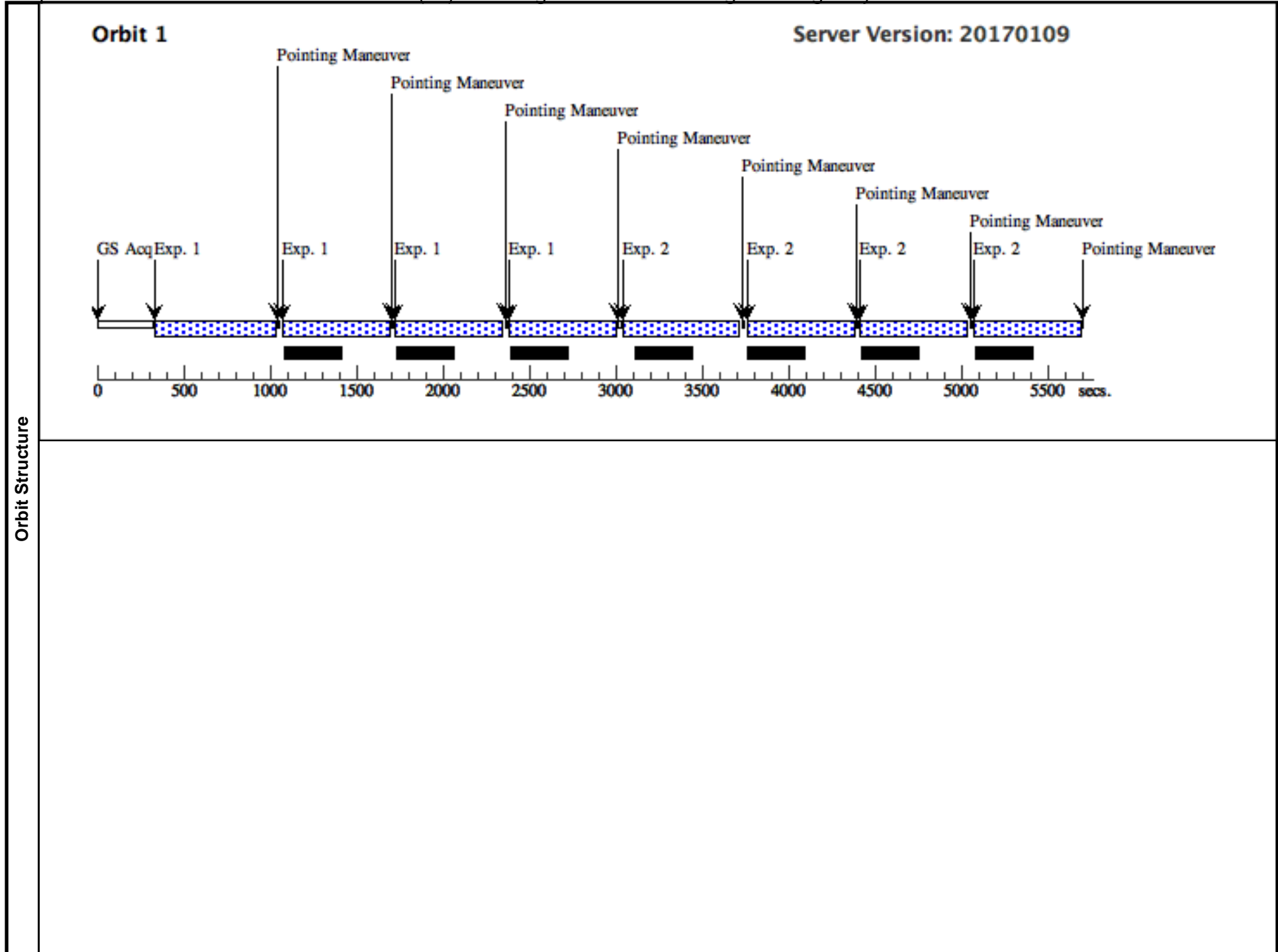
Visit	Proposal 14677, SPT-CLJ0640-5113-ACS-1 (06), completed Diagnostic Status: Warning Scientific Instruments: ACS/WFC Special Requirements: ORIENT 223D TO 224 D; ORIENT 113D TO 116 D; VISIBILITY INTERVAL 83 M					Thu May 11 01:05:03 GMT 2017				
	(Exposure 3 (Pattern 2, Exps 3-3 in SPT-CLJ0640-5113-ACS-1 (06)) special requirements) Warning (Form): Be very careful mixing POS TARG and Center_Pattern = Yes (Exposure 4 (Pattern 2, Exps 4-4 in SPT-CLJ0640-5113-ACS-1 (06)) special requirements) Warning (Form): Be very careful mixing POS TARG and Center_Pattern = Yes									
Diagnos										
Patterns	#	Primary Pattern		Secondary Pattern		Exposures				
	(2)	Pattern Type=ACS-WFC-DITHER-LINE Purpose=DITHER Number Of Points=4 Point Spacing=3.011 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=85.28 Angle Between Sides= Center Pattern=true			(1), (2), (3), (4)				
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(6)	SPT-CLJ0640-5113	RA: 06 40 17.2800 (100.0720000d) Dec: -51 13 3.36 (-51.21760d) Equinox: J2000		V=27	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(6) SPT-CLJ0640-5113	(6) SPT-CLJ0640-5113	ACS/WFC, ACCUM, WFCENTER	F814W			Pattern 2, Exps 1-1 in SPT-CLJ0640-5113-ACS-1 (06) (2)	404 Secs (1616 Secs) [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[1]
	2	(6) SPT-CLJ0640-5113	(6) SPT-CLJ0640-5113	ACS/WFC, ACCUM, WFCENTER	F606W			Pattern 2, Exps 2-2 in SPT-CLJ0640-5113-ACS-1 (06) (2)	404 Secs (1616 Secs) [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[1]
	3	(6) SPT-CLJ0640-5113	(6) SPT-CLJ0640-5113	ACS/WFC, ACCUM, WFCENTER	F814W		POS TARG 0.175,0.125	Pattern 2, Exps 3-3 in SPT-CLJ0640-5113-ACS-1 (06) (2)	421 Secs (1684 Secs) [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[2]
	4	(6) SPT-CLJ0640-5113	(6) SPT-CLJ0640-5113	ACS/WFC, ACCUM, WFCENTER	F606W		POS TARG 0.175,0.125	Pattern 2, Exps 4-4 in SPT-CLJ0640-5113-ACS-1 (06) (2)	421 Secs (1686 Secs) [==>(Pattern 1)] [==>(Pattern 2)] [==>422.0 Secs (Pattern 3)] [==>422.0 Secs (Pattern 4)]	[2]

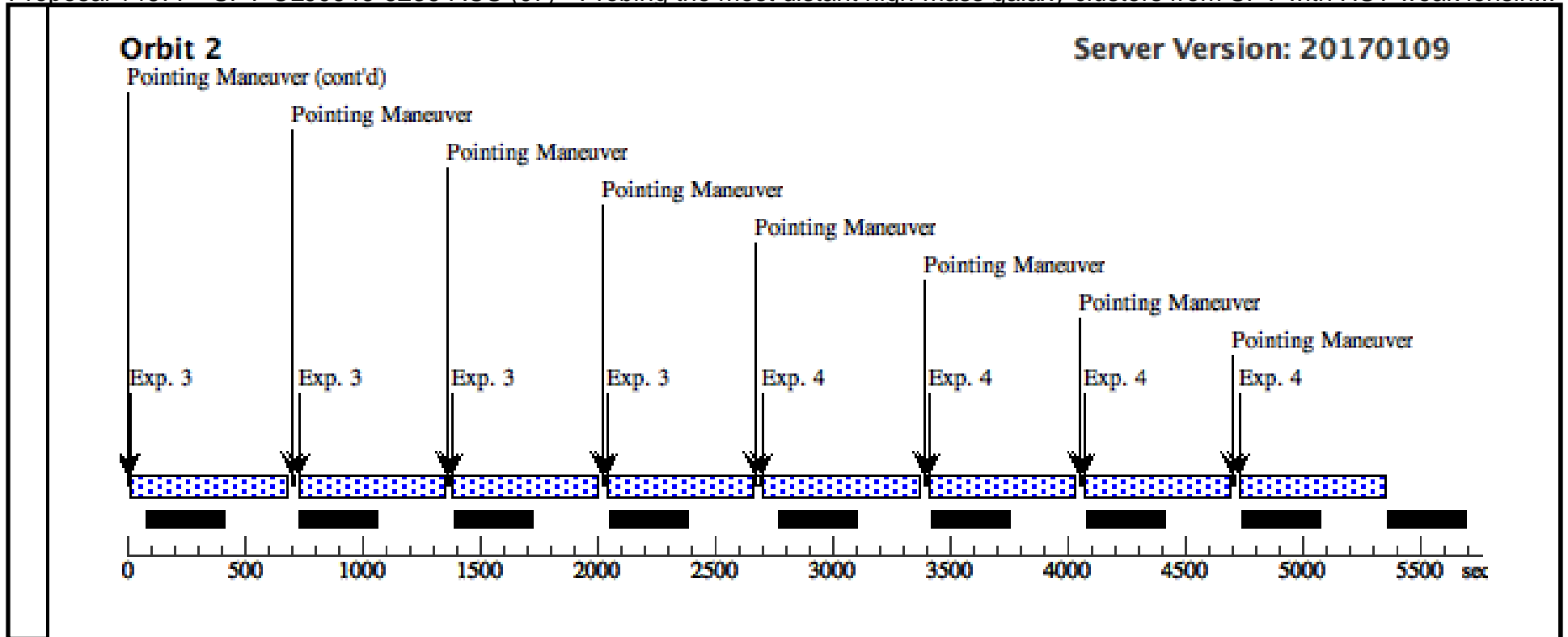




Proposal 14677 - SPT-CLJ0646-6236-ACS (07) - Probing the most distant high-mass galaxy clusters from SPT with HST weak lensin...

Visit		Proposal 14677, SPT-CLJ0646-6236-ACS (07), completed Diagnostic Status: No Diagnostics Scientific Instruments: ACS/WFC Special Requirements: CVZ				Thu May 11 01:05:03 GMT 2017				
Patterns	#	Primary Pattern	Secondary Pattern		Exposures					
	(2)	Pattern Type=ACS-WFC-DITHER-LINE Purpose=DITHER Number Of Points=4 Point Spacing=3.011 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=85.28 Angle Between Sides= Center Pattern=true			(1), (2), (3), (4)				
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(7)	SPT-CLJ0646-6236	RA: 06 46 33.3840 (101.6391000d) Dec: -62 36 48.96 (-62.61360d) Equinox: J2000		V=27	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(7) SPT-CLJ0646-6236	ACS/WFC, ACCUM, WFCENTER	F606W			Pattern 2, Exps 1-1 in SPT-CLJ0646-6236-ACS (07) (2)	495 Secs (1980 Secs) [=>(Pattern 1)] [=>(Pattern 2)] [=>(Pattern 3)] [=>(Pattern 4)]	[1]
	2		(7) SPT-CLJ0646-6236	ACS/WFC, ACCUM, WFCENTER	F814W			Pattern 2, Exps 2-2 in SPT-CLJ0646-6236-ACS (07) (2)	495 Secs (1980 Secs) [=>(Pattern 1)] [=>(Pattern 2)] [=>(Pattern 3)] [=>(Pattern 4)]	[1]
	3		(7) SPT-CLJ0646-6236	ACS/WFC, ACCUM, WFCENTER	F606W			Pattern 2, Exps 3-3 in SPT-CLJ0646-6236-ACS (07) (2)	495 Secs (1980 Secs) [=>(Pattern 1)] [=>(Pattern 2)] [=>(Pattern 3)] [=>(Pattern 4)]	[2]
	4		(7) SPT-CLJ0646-6236	ACS/WFC, ACCUM, WFCENTER	F814W			Pattern 2, Exps 4-4 in SPT-CLJ0646-6236-ACS (07) (2)	495 Secs (1980 Secs) [=>(Pattern 1)] [=>(Pattern 2)] [=>(Pattern 3)] [=>(Pattern 4)]	[2]





Proposal 14677 - SPT-CLJ2341-5724-ACS (09) - Probing the most distant high-mass galaxy clusters from SPT with HST weak lensin...

Thu May 11 01:05:03 GMT 2017

Visit	Proposal 14677, SPT-CLJ2341-5724-ACS (09), completed Diagnostic Status: Warning Scientific Instruments: ACS/WFC Special Requirements: CVZ; ORIENT 176D TO 180 D					
	(Exposure 1 (Pattern 10, Exps 1-1 in SPT-CLJ2341-5724-ACS (09)) special requirements) Warning (Form): Be very careful mixing POS TARG and Center_Pattern = Yes (Exposure 2 (Pattern 2, Exps 2-2 in SPT-CLJ2341-5724-ACS (09)) special requirements) Warning (Form): Be very careful mixing POS TARG and Center_Pattern = Yes (Exposure 4 (Pattern 9, Exps 4-4 in SPT-CLJ2341-5724-ACS (09)) special requirements) Warning (Form): Be very careful mixing POS TARG and Center_Pattern = Yes (Exposure 5 (Pattern 2, Exps 5-5 in SPT-CLJ2341-5724-ACS (09)) special requirements) Warning (Form): Be very careful mixing POS TARG and Center_Pattern = Yes					
Diagnosics						
	Patterns	#	Primary Pattern	Secondary Pattern	Exposures	
		(10)	Pattern Type=ACS-WFC-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=6.07 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=85.29 Angle Between Sides= Center Pattern=true	(1)	
		(2)	Pattern Type=ACS-WFC-DITHER-LINE Purpose=DITHER Number Of Points=4 Point Spacing=3.011 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=85.28 Angle Between Sides= Center Pattern=true	(2), (5)	
(9)	Pattern Type=ACS-WFC-DITHER-LINE Purpose=DITHER Number Of Points=3 Point Spacing=3.034 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=85.29 Angle Between Sides= Center Pattern=true	(4)			
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(9)	SPT-CLJ2341-5724	RA: 23 41 24.7920 (355.3533000d) Dec: -57 24 59.76 (-57.41660d) Equinox: J2000		V=27	Reference Frame: ICRS

Proposal 14677 - SPT-CLJ2341-5724-ACS (09) - Probing the most distant high-mass galaxy clusters from SPT with HST weak lensin...

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(9) SPT-CLJ2341-5724	(9) SPT-CLJ2341-5724	ACS/WFC, ACCUM, WFCENTER	F606W		POS TARG 0.67,-0.27	Pattern 10, Exps 1-1 in SPT-CLJ2341-5724-ACS (09) (10)	495 Secs (990 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[1]
	2	(9) SPT-CLJ2341-5724	(9) SPT-CLJ2341-5724	ACS/WFC, ACCUM, WFCENTER	F814W		POS TARG .22,null	Pattern 2, Exps 2-2 in SPT-CLJ2341-5724-ACS (09) (2)	495 Secs (1980 Secs) [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[1]
	3	(9) SPT-CLJ2341-5724	(9) SPT-CLJ2341-5724	ACS/WFC, ACCUM, WFCENTER	F814W		POS TARG -0.17,1.45		495 Secs (495 Secs) [==>]	[1]
	4	(9) SPT-CLJ2341-5724	(9) SPT-CLJ2341-5724	ACS/WFC, ACCUM, WFCENTER	F606W		POS TARG -0.27,0	Pattern 9, Exps 4-4 in SPT-CLJ2341-5724-ACS (09) (9)	485 Secs (1455 Secs) [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)]	[1] [2]
	5	(9) SPT-CLJ2341-5724	(9) SPT-CLJ2341-5724	ACS/WFC, ACCUM, WFCENTER	F814W		POS TARG -0.22,null	Pattern 2, Exps 5-5 in SPT-CLJ2341-5724-ACS (09) (2)	480 Secs (1920 Secs) [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[2]
	6	(9) SPT-CLJ2341-5724	(9) SPT-CLJ2341-5724	ACS/WFC, ACCUM, WFCENTER	F606W		POS TARG 0.67,-0.27		500 Secs (500 Secs) [==>]	[2]
	7	(9) SPT-CLJ2341-5724	(9) SPT-CLJ2341-5724	ACS/WFC, ACCUM, WFCENTER	F814W		POS TARG 0.17,-1.45		480 Secs (480 Secs) [==>]	[2]

