



# 12453 - Through a Lens, Darkly - New Constraints on the Fundamental Components of the Cosmos

Cycle: 19, Proposal Category: GO

(Treasury)

(Availability Mode: SUPPORTED)

## INVESTIGATORS

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Proposal 12453 (STScI Edit Number: 5, Created: Tuesday, July 3, 2012 9:07:55 PM EST) - Overview

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**VISITS**

<i>Visit</i>	<i>Targets used in Visit</i>	<i>Configurations used in Visit</i>	<i>Orbits Used</i>	<i>Last Orbit Planner Run</i>	<i>OP Current with Visit?</i>
A0	(1) MACS1115+0129 (3) MACS1115-WFC3PAR1	ACS/WFC WFC3/IR WFC3/UVIS	1	03-Jul-2012 22:04:37.0	yes
A1	(1) MACS1115+0129 (3) MACS1115-WFC3PAR1	ACS/WFC WFC3/IR WFC3/UVIS	1	03-Jul-2012 22:04:49.0	yes
A2	(1) MACS1115+0129 (2) MACS1115-ACSPAR1	ACS/WFC WFC3/IR	1	03-Jul-2012 22:05:01.0	yes
A3	(1) MACS1115+0129 (3) MACS1115-WFC3PAR1	ACS/WFC WFC3/IR WFC3/UVIS	1	03-Jul-2012 22:05:11.0	yes
A4	(1) MACS1115+0129 (2) MACS1115-ACSPAR1	ACS/WFC WFC3/IR	1	03-Jul-2012 22:05:21.0	yes
A5	(1) MACS1115+0129 (3) MACS1115-WFC3PAR1	ACS/WFC WFC3/IR WFC3/UVIS	1	03-Jul-2012 22:05:31.0	yes

Proposal 12453 (STScI Edit Number: 5, Created: Tuesday, July 3, 2012 9:07:55 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>
A6	(1) MACS1115+0129 (2) MACS1115-ACSPAR1	ACS/WFC WFC3/UVIS	2	03-Jul-2012 22:05:47.0	yes
A8	(1) MACS1115+0129 (3) MACS1115-WFC3PAR1	ACS/WFC WFC3/IR WFC3/UVIS	1	03-Jul-2012 22:06:00.0	yes
A9	(1) MACS1115+0129 (2) MACS1115-ACSPAR1	ACS/WFC WFC3/IR	1	03-Jul-2012 22:06:10.0	yes
B0	(1) MACS1115+0129 (5) MACS1115-WFC3PAR2	ACS/WFC WFC3/IR WFC3/UVIS	1	03-Jul-2012 22:06:19.0	yes
B1	(1) MACS1115+0129 (4) MACS1115-ACSPAR2	ACS/WFC WFC3/IR	1	03-Jul-2012 22:06:29.0	yes
B2	(1) MACS1115+0129 (5) MACS1115-WFC3PAR2	ACS/WFC WFC3/IR WFC3/UVIS	1	03-Jul-2012 22:06:42.0	yes
B3	(1) MACS1115+0129 (4) MACS1115-ACSPAR2	ACS/WFC WFC3/UVIS	2	03-Jul-2012 22:06:56.0	yes
B5	(1) MACS1115+0129 (5) MACS1115-WFC3PAR2	ACS/WFC WFC3/IR WFC3/UVIS	1	03-Jul-2012 22:07:08.0	yes
B6	(1) MACS1115+0129 (4) MACS1115-ACSPAR2	ACS/WFC WFC3/IR WFC3/UVIS	2	03-Jul-2012 22:07:24.0	yes
B7	(1) MACS1115+0129 (5) MACS1115-WFC3PAR2	ACS/WFC WFC3/IR WFC3/UVIS	1	03-Jul-2012 22:07:36.0	yes
B8	(1) MACS1115+0129 (4) MACS1115-ACSPAR2	ACS/WFC WFC3/IR	1	03-Jul-2012 22:07:45.0	yes

20 Total Orbits Used

## **ABSTRACT**

As the most massive objects in the universe, galaxy clusters represent important signposts in our story of structure evolution, and are the ultimate telescopic lenses, placing gravitationally lensed galaxies from the earliest epochs in comfortable reach for careful study. We take full advantage of the refurbished ACS and WFC3 cameras to deliver deep 14-filter images of 25 carefully chosen clusters. These will enable us to address timely and substantive questions about dark matter, dark energy, and galaxy evolution well beyond  $z=7$ . These X-ray clusters are chosen to be free of lensing bias and to span a wide range of redshift and mass. By combining strong and weak lensing, we will obtain the definitive mass profile of relaxed clusters to confront the distinctive prediction of the standard  $\Lambda$ CDM model. Detailed maps of internal structure will be enabled by  $\sim 1,000$  new multiply-imaged lensed sources to  $AB=26$ , all with precise ( $2\% \times (1+z)$ ) photometric redshift measurements, thanks to WFC3's UV and IR coverage. A supernovae search in parallel (with low magnification uncertainties) will extend the Hubble diagram of SN1a to  $z>1.5$ , testing the constancy of dark energy with time and probing progenitor evolution. Our homogeneous panchromatic deep imaging of this cluster sample will constitute a vast legacy archive for studies of the formation and evolution of structure.

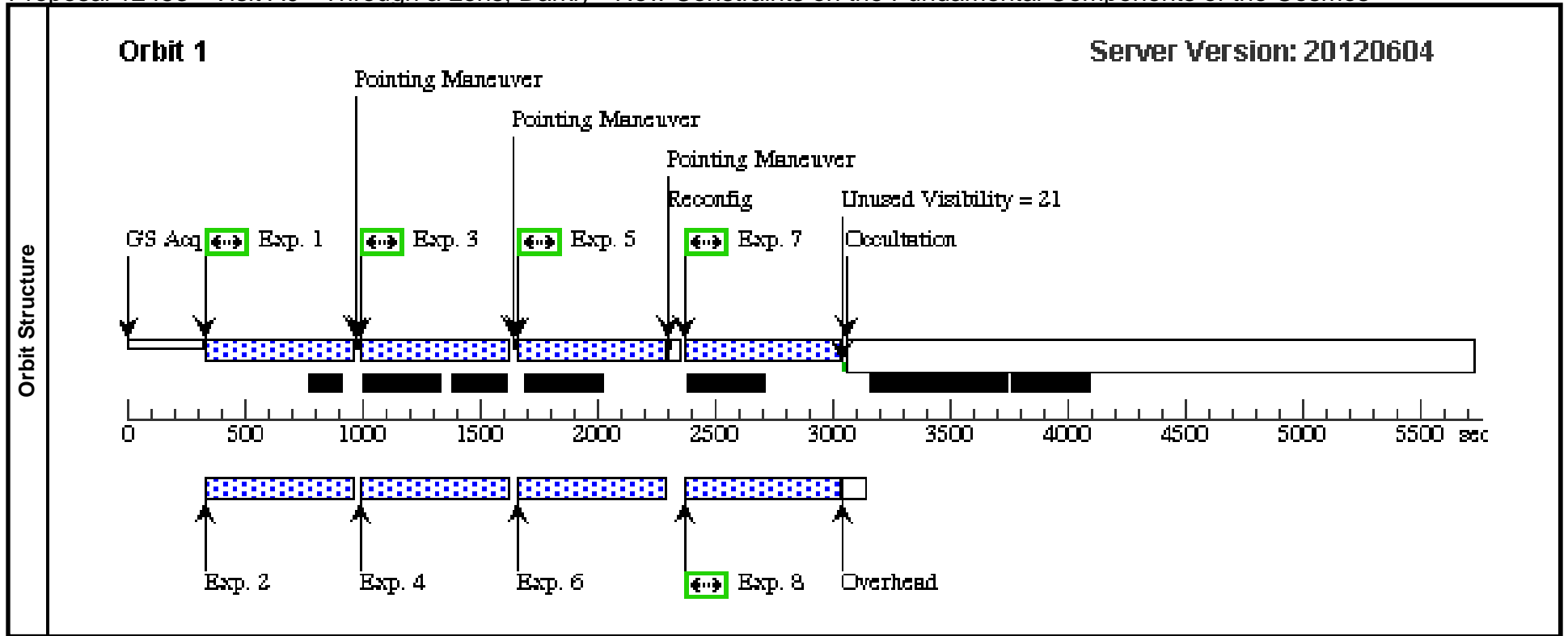
## **OBSERVING DESCRIPTION**

There are two special requirements: orientation and cadence. Four epochs must be executed at the same orientation. Each epoch will be between 10 and 14 days, depending on the roll angle availability for the given target. There will be two orientations selected, which will be approximately 20-30 degrees apart.

Proposal 12453 - Visit A0 - Through a Lens, Darkly - New Constraints on the Fundamental Components of the Cosmos

Wed Jul 04 02:07:56 GMT 2012

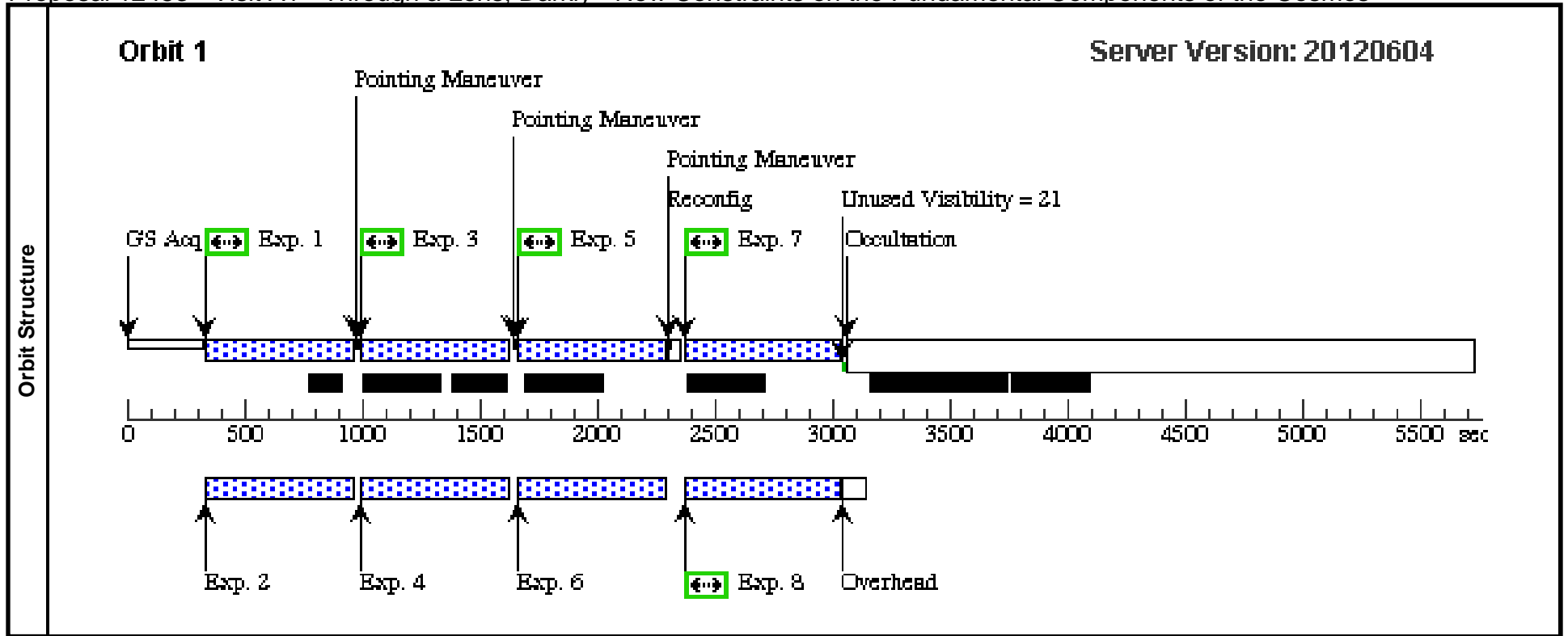
<b>Visit</b>	<b>Proposal 12453, Visit A0, completed</b> <b>Diagnostic Status: Warning</b> Scientific Instruments: WFC3/IR, WFC3/UVIS, ACS/WFC Special Requirements: SCHED 80%; ORIENT 7D TO 16 D; ORIENT 37D TO 65 D; ORIENT 92D TO 95 D; ORIENT 122D TO 224 D; ORIENT 275D TO 304 D Comments: Visits A0-A2 represent epoch 1 (at orient 1) and should be taken concurrently Orient constraints are to avoid placing a bright star in the parallel fields. Additional orient constraints are to keep a bright star >30" from the primary UVIS detector edge to prevent scattered light.									
	(Visit A0) Warning (Form): The proposal is part of a large program (100 orbits or more in one cycle) and so should use Schedulability 100.									
<b>Diagnosics</b>										
<b>Fixed Targets</b>	<b>#</b>	<b>Name</b>	<b>Target Coordinates</b>	<b>Targ. Coord. Corrections</b>	<b>Fluxes</b>	<b>Miscellaneous</b>				
	(1)	MACS1115+0129	RA: 11 15 51.9000 (168.9662500d) Dec: +01 29 55.10 (1.49864d) Equinox: J2000		V=15	Reference Frame: ICRS				
<b>Exposures</b>	(3)	MACS1115-WFC3PAR1	RA: 11 15 51.9000 (168.9662500d) Dec: +01 29 55.10 (1.49864d) Equinox: J2000		V=15	Reference Frame: ICRS				
<b>Exposures</b>	<b>#</b>	<b>Label</b>	<b>Target</b>	<b>Config,Mode,Aperture</b>	<b>Spectral Els.</b>	<b>Opt. Params.</b>	<b>Special Reqs.</b>	<b>Groups</b>	<b>Exp. Time/[Actual Dur.]</b>	<b>Orbit</b>
	1		(1) MACS1115+0129	ACS/WFC, ACCUM, WFC-FIX	F625W		POS TARG 0,0; GS ACQ SCENARI O BASE1B3	Prime + Parallel Group 1-2 in Visit A0	525 Secs [==>425 Secs ]	[1]
	2		(3) MACS1115-WF C3PAR1	WFC3/IR, MULTIACCUM, IR-FIX	F125W	SAMP-SEQ=SPARS 100; NSAMP=7		Prime + Parallel Group 1-2 in Visit A0	[==>]	[1]
	3		(1) MACS1115+0129	ACS/WFC, ACCUM, WFC-FIX	F625W		POS TARG 0.0741,0.1295	Prime + Parallel Group 3-4 in Visit A0	507 Secs [==>507.0 Secs ]	[1]
	4		(3) MACS1115-WF C3PAR1	WFC3/IR, MULTIACCUM, IR-FIX	F160W	SAMP-SEQ=SPARS 50; NSAMP=13		Prime + Parallel Group 3-4 in Visit A0	[==>]	[1]
	5		(1) MACS1115+0129	ACS/WFC, ACCUM, WFC-FIX	F850LP		POS TARG 0.1729,-0.0848	Prime + Parallel Group 5-6 in Visit A0	551 Secs [==>485 Secs ]	[1]
	6		(3) MACS1115-WF C3PAR1	WFC3/IR, MULTIACCUM, IR-FIX	F160W	SAMP-SEQ=SPARS 100; NSAMP=7		Prime + Parallel Group 5-6 in Visit A0	[==>]	[1]
	7		(1) MACS1115+0129	ACS/WFC, ACCUM, WFC-FIX	F850LP		POS TARG 0.247,0.2423	Prime + Parallel Group 7-8 in Visit A0	564 Secs [==>537 Secs ]	[1]
8		(3) MACS1115-WF C3PAR1	WFC3/UVIS, ACCUM, UVIS-FIX	F350LP	CR-SPLIT=NO		Prime + Parallel Group 7-8 in Visit A0	400 Secs [==>631 Secs ]	[1]	



Proposal 12453 - Visit A1 - Through a Lens, Darkly - New Constraints on the Fundamental Components of the Cosmos

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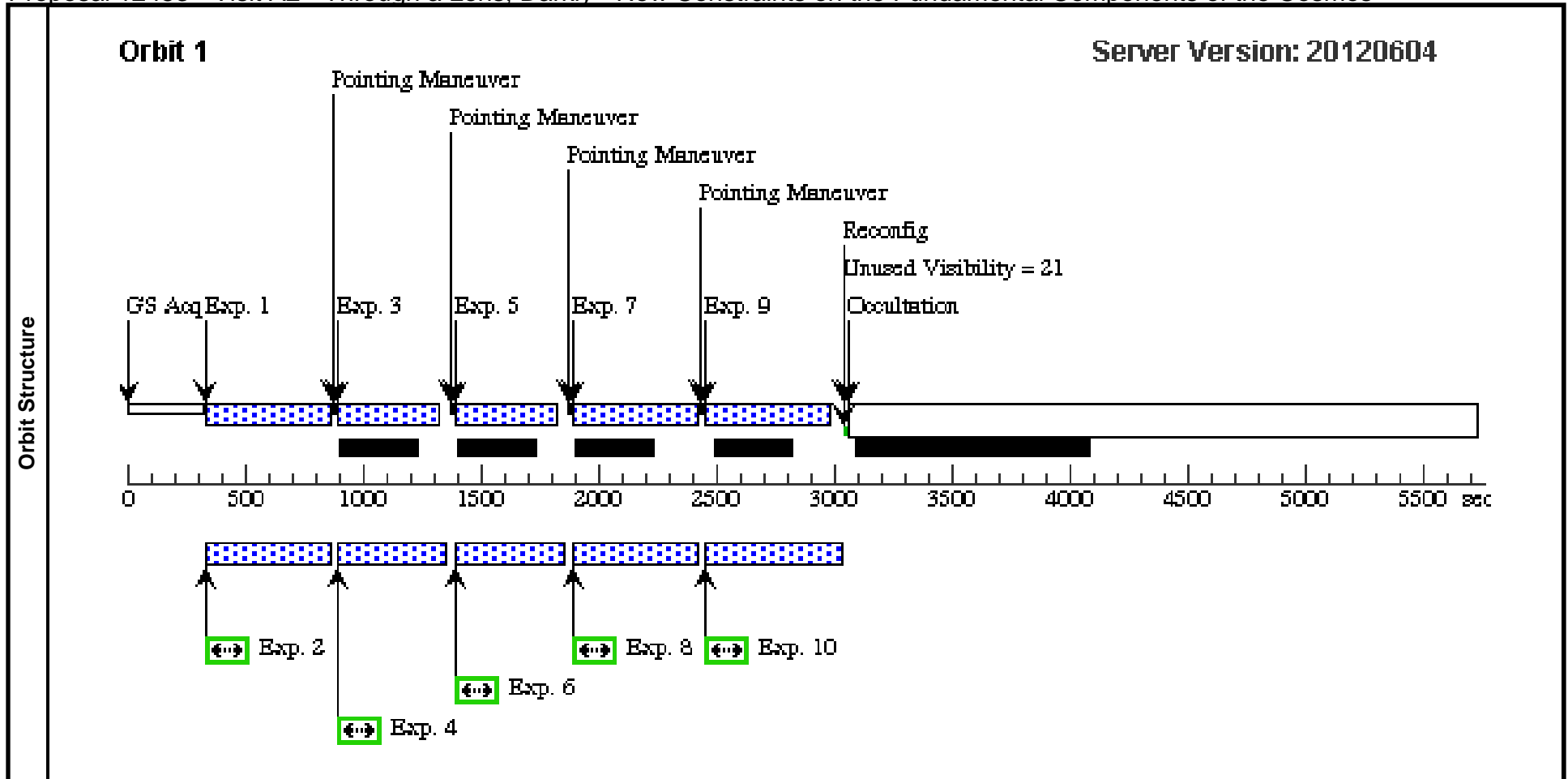
Visit	<b>Proposal 12453, Visit A1, completed</b> <b>Diagnostic Status: Warning</b> Scientific Instruments: WFC3/IR, WFC3/UVIS, ACS/WFC Special Requirements: SCHED 80%; SAME ORIENT AS A0; SEQ A0,A1 WITHIN 1.2 Orbits <i>Comments: Visits A0-A2 represent epoch 1 (at orient 1) and should be taken concurrently</i>									
	Diagnostics	(Visit A1) Warning (Form): The proposal is part of a large program (100 orbits or more in one cycle) and so should use Schedulability 100.								
Fixed Targets		#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous			
	(1)	MACS1115+0129	RA: 11 15 51.9000 (168.9662500d) Dec: +01 29 55.10 (1.49864d) Equinox: J2000		V=15	Reference Frame: ICRS				
(3)	MACS1115-WFC3PAR1	RA: 11 15 51.9000 (168.9662500d) Dec: +01 29 55.10 (1.49864d) Equinox: J2000		V=15	Reference Frame: ICRS					
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(1) MACS1115+0129	ACS/WFC, ACCUM, WFC-FIX	F475W		POS TARG 0,0; GS ACQ SCENARI O BASE1B3	Prime + Parallel Group 1-2 in Visit A1	525 Secs [==>425 Secs ]	[1]
	2		(3) MACS1115-WF C3PAR1	WFC3/IR, MULTIACCUM, IR-FIX	F125W	SAMP-SEQ=SPARS 100; NSAMP=7		Prime + Parallel Group 1-2 in Visit A1	[==>]	[1]
	3		(1) MACS1115+0129	ACS/WFC, ACCUM, WFC-FIX	F475W		POS TARG 0.0741,0 .1295	Prime + Parallel Group 3-4 in Visit A1	507 Secs [==>507.0 Secs ]	[1]
	4		(3) MACS1115-WF C3PAR1	WFC3/IR, MULTIACCUM, IR-FIX	F160W	SAMP-SEQ=SPARS 50; NSAMP=13		Prime + Parallel Group 3-4 in Visit A1	[==>]	[1]
	5		(1) MACS1115+0129	ACS/WFC, ACCUM, WFC-FIX	F775W		POS TARG 0.1729,- 0.0848	Prime + Parallel Group 5-6 in Visit A1	551 Secs [==>481 Secs ]	[1]
	6		(3) MACS1115-WF C3PAR1	WFC3/IR, MULTIACCUM, IR-FIX	F160W	SAMP-SEQ=SPARS 100; NSAMP=7		Prime + Parallel Group 5-6 in Visit A1	[==>]	[1]
	7		(1) MACS1115+0129	ACS/WFC, ACCUM, WFC-FIX	F775W		POS TARG 0.247,0. 2423	Prime + Parallel Group 7-8 in Visit A1	564 Secs [==>537 Secs ]	[1]
	8		(3) MACS1115-WF C3PAR1	WFC3/UVIS, ACCUM, UVIS-FIX	F350LP	CR-SPLIT=NO		Prime + Parallel Group 7-8 in Visit A1	400 Secs [==>631 Secs ]	[1]



Proposal 12453 - Visit A2 - Through a Lens, Darkly - New Constraints on the Fundamental Components of the Cosmos

Wed Jul 04 02:07:59 GMT 2012

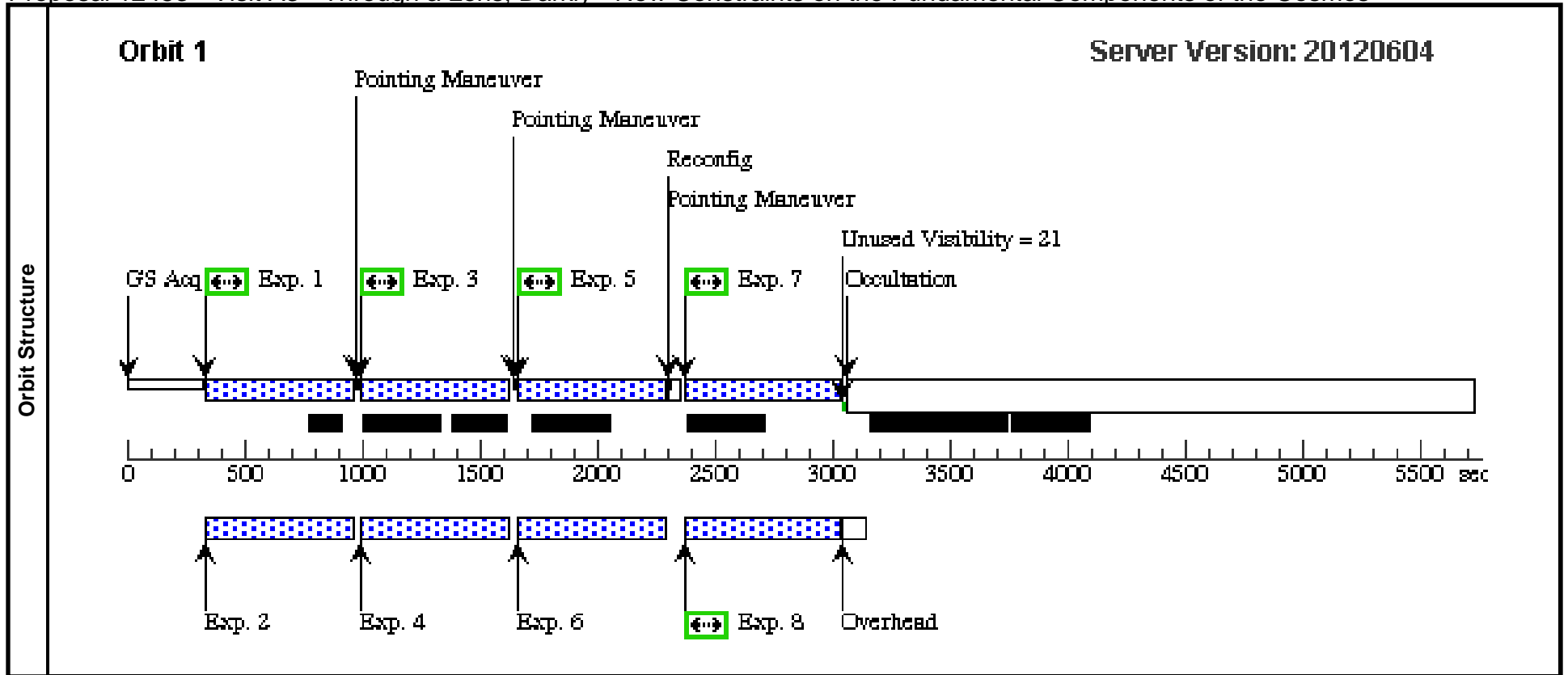
Visit	<b>Proposal 12453, Visit A2, completed</b> <b>Diagnostic Status: Warning</b> Scientific Instruments: WFC3/IR, ACS/WFC Special Requirements: SCHED 80%; SAME ORIENT AS A0; SEQ A1,A2 WITHIN 1.2 Orbits <i>Comments: Visits A0-A2 represent epoch 1 (at orient 1) and should be taken concurrently</i>									
	Diagnostics	(Visit A2) Warning (Form): The proposal is part of a large program (100 orbits or more in one cycle) and so should use Schedulability 100.								
Fixed Targets		#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous			
	(1)	MACS1115+0129	RA: 11 15 51.9000 (168.9662500d) Dec: +01 29 55.10 (1.49864d) Equinox: J2000		V=15	Reference Frame: ICRS				
(2)	MACS1115-ACSPAR1	RA: 11 15 51.9000 (168.9662500d) Dec: +01 29 55.10 (1.49864d) Equinox: J2000		V=15	Reference Frame: ICRS					
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(1) MACS1115+0129	WFC3/IR, MULTIACCUM, IR-FIX	F110W	SAMP-SEQ=SPARS 100; NSAMP=6	POS TARG 0,0; GS ACQ SCENARI O BASE1B3	Prime + Parallel Group 1-2 in Visit A2	[==>]	[1]
	2		(2) MACS1115-ACS PAR1	ACS/WFC, ACCUM, WFC-FIX	F850LP			Prime + Parallel Group 1-2 in Visit A2	525 Secs [==>325.0 Secs]	[1]
	3		(1) MACS1115+0129	WFC3/IR, MULTIACCUM, IR-FIX	F110W	SAMP-SEQ=SPARS 100; NSAMP=5	POS TARG 0.20325, -0.18165	Prime + Parallel Group 3-4 in Visit A2	[==>]	[1]
	4		(2) MACS1115-ACS PAR1	ACS/WFC, ACCUM, WFC-FIX	F850LP			Prime + Parallel Group 3-4 in Visit A2	607 Secs [==>339.0 Secs]	[1]
	5		(1) MACS1115+0129	WFC3/IR, MULTIACCUM, IR-FIX	F110W	SAMP-SEQ=SPARS 100; NSAMP=5	POS TARG 0.47425, 0.6055	Prime + Parallel Group 5-6 in Visit A2	[==>]	[1]
	6		(2) MACS1115-ACS PAR1	ACS/WFC, ACCUM, WFC-FIX	F850LP			Prime + Parallel Group 5-6 in Visit A2	582 Secs [==>339.0 Secs]	[1]
	7		(1) MACS1115+0129	WFC3/IR, MULTIACCUM, IR-FIX	F160W	SAMP-SEQ=SPARS 100; NSAMP=6	POS TARG -0.271,0 .42385	Prime + Parallel Group 7-8 in Visit A2	[==>]	[1]
	8		(2) MACS1115-ACS PAR1	ACS/WFC, ACCUM, WFC-FIX	F850LP			Prime + Parallel Group 7-8 in Visit A2	587 Secs [==>407.0 Secs]	[1]
	9		(1) MACS1115+0129	WFC3/IR, MULTIACCUM, IR-FIX	F160W	SAMP-SEQ=SPARS 100; NSAMP=6	POS TARG 0.47425, 0.6055	Prime + Parallel Group 9-10 in Visit A2	[==>]	[1]
10		(2) MACS1115-ACS PAR1	ACS/WFC, ACCUM, WFC-FIX	F775W			Prime + Parallel Group 9-10 in Visit A2	587 Secs [==>428.0 Secs]	[1]	



Proposal 12453 - Visit A3 - Through a Lens, Darkly - New Constraints on the Fundamental Components of the Cosmos

Wed Jul 04 02:08:00 GMT 2012

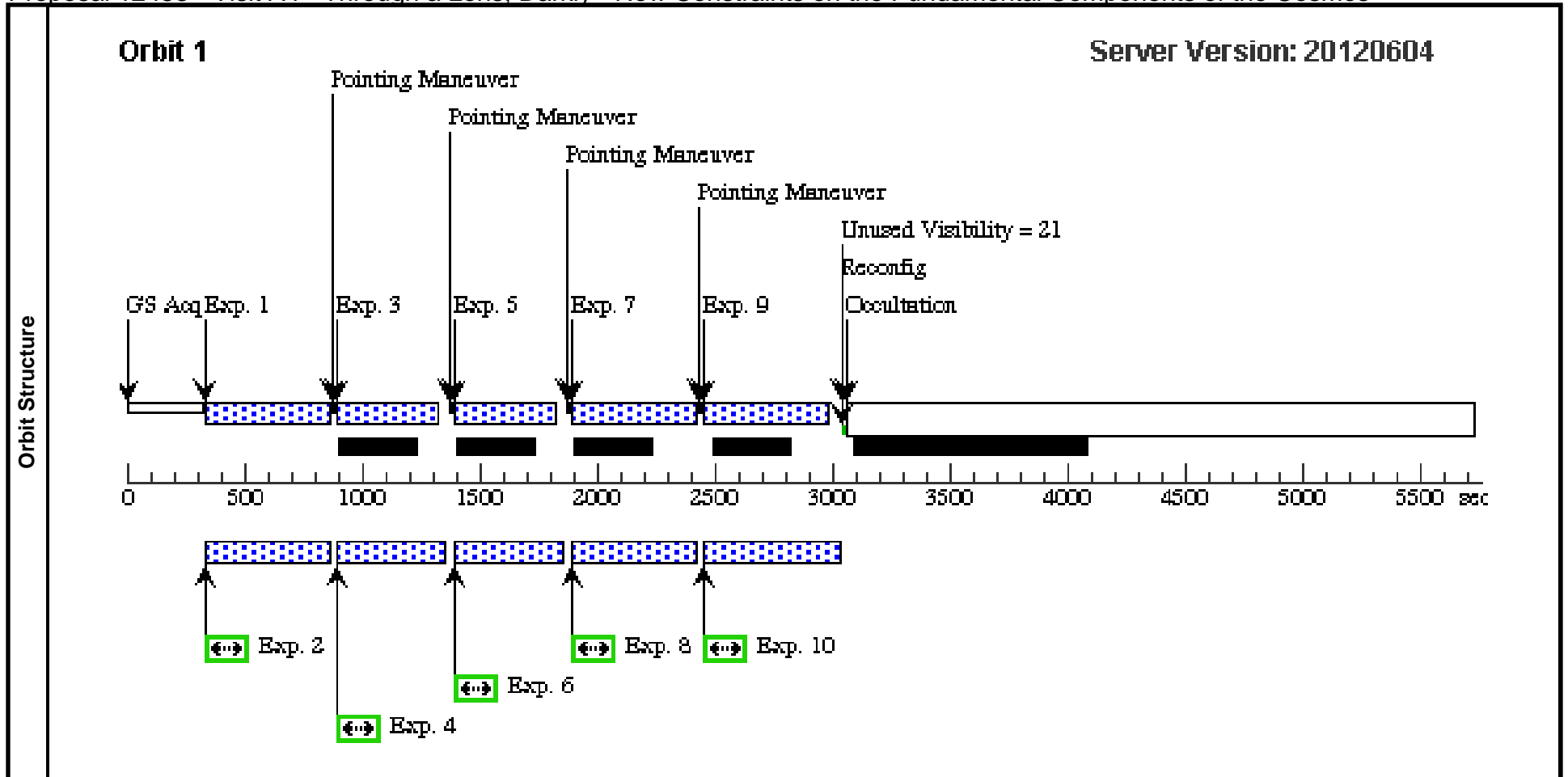
<b>Visit</b>	<b>Proposal 12453, Visit A3, completed</b> <b>Diagnostic Status: Warning</b> Scientific Instruments: WFC3/IR, WFC3/UVIS, ACS/WFC Special Requirements: SCHED 80%; SAME ORIENT AS A0; AFTER A0 BY 23 D TO 25 D <i>Comments: Visits A3-A4 represent epoch 2 (at orient 1) and should be taken concurrently</i>									
	(Visit A3) Warning (Form): The proposal is part of a large program (100 orbits or more in one cycle) and so should use Schedulability 100.									
<b>Fixed Targets</b>	<b>#</b>	<b>Name</b>	<b>Target Coordinates</b>	<b>Targ. Coord. Corrections</b>			<b>Fluxes</b>	<b>Miscellaneous</b>		
	(1)	MACS1115+0129	RA: 11 15 51.9000 (168.9662500d) Dec: +01 29 55.10 (1.49864d) Equinox: J2000				V=15	Reference Frame: ICRS		
(3)	MACS1115-WFC3PAR1	RA: 11 15 51.9000 (168.9662500d) Dec: +01 29 55.10 (1.49864d) Equinox: J2000				V=15	Reference Frame: ICRS			
<b>Exposures</b>	<b>#</b>	<b>Label</b>	<b>Target</b>	<b>Config,Mode,Aperture</b>	<b>Spectral Els.</b>	<b>Opt. Params.</b>	<b>Special Reqs.</b>	<b>Groups</b>	<b>Exp. Time/[Actual Dur.]</b>	<b>Orbit</b>
	1		(1) MACS1115+0129	ACS/WFC, ACCUM, WFC-FIX	F850LP		POS TARG 0,0; GS ACQ SCENARI O BASE1B3	Prime + Parallel Group 1-2 in Visit A3	525 Secs [==>425 Secs ]	[1]
	2		(3) MACS1115-WF C3PAR1	WFC3/IR, MULTIACCUM, IR-FIX	F125W	SAMP-SEQ=SPARS 100; NSAMP=7		Prime + Parallel Group 1-2 in Visit A3	[==>]	[1]
	3		(1) MACS1115+0129	ACS/WFC, ACCUM, WFC-FIX	F850LP		POS TARG 0.3211,0 .7917	Prime + Parallel Group 3-4 in Visit A3	507 Secs [==>507.0 Secs ]	[1]
	4		(3) MACS1115-WF C3PAR1	WFC3/IR, MULTIACCUM, IR-FIX	F160W	SAMP-SEQ=SPARS 50; NSAMP=13		Prime + Parallel Group 3-4 in Visit A3	[==>]	[1]
	5		(1) MACS1115+0129	ACS/WFC, ACCUM, WFC-FIX	F814W		POS TARG 1.0868,0 .5573	Prime + Parallel Group 5-6 in Visit A3	551 Secs [==>453 Secs ]	[1]
	6		(3) MACS1115-WF C3PAR1	WFC3/IR, MULTIACCUM, IR-FIX	F160W	SAMP-SEQ=SPARS 100; NSAMP=7		Prime + Parallel Group 5-6 in Visit A3	[==>]	[1]
	7		(1) MACS1115+0129	ACS/WFC, ACCUM, WFC-FIX	F814W		POS TARG -0.3211, -0.1742	Prime + Parallel Group 7-8 in Visit A3	564 Secs [==>537 Secs ]	[1]
	8		(3) MACS1115-WF C3PAR1	WFC3/UVIS, ACCUM, UVIS-FIX	F350LP	CR-SPLIT=NO		Prime + Parallel Group 7-8 in Visit A3	400 Secs [==>631 Secs ]	[1]



Proposal 12453 - Visit A4 - Through a Lens, Darkly - New Constraints on the Fundamental Components of the Cosmos

Wed Jul 04 02:08:01 GMT 2012

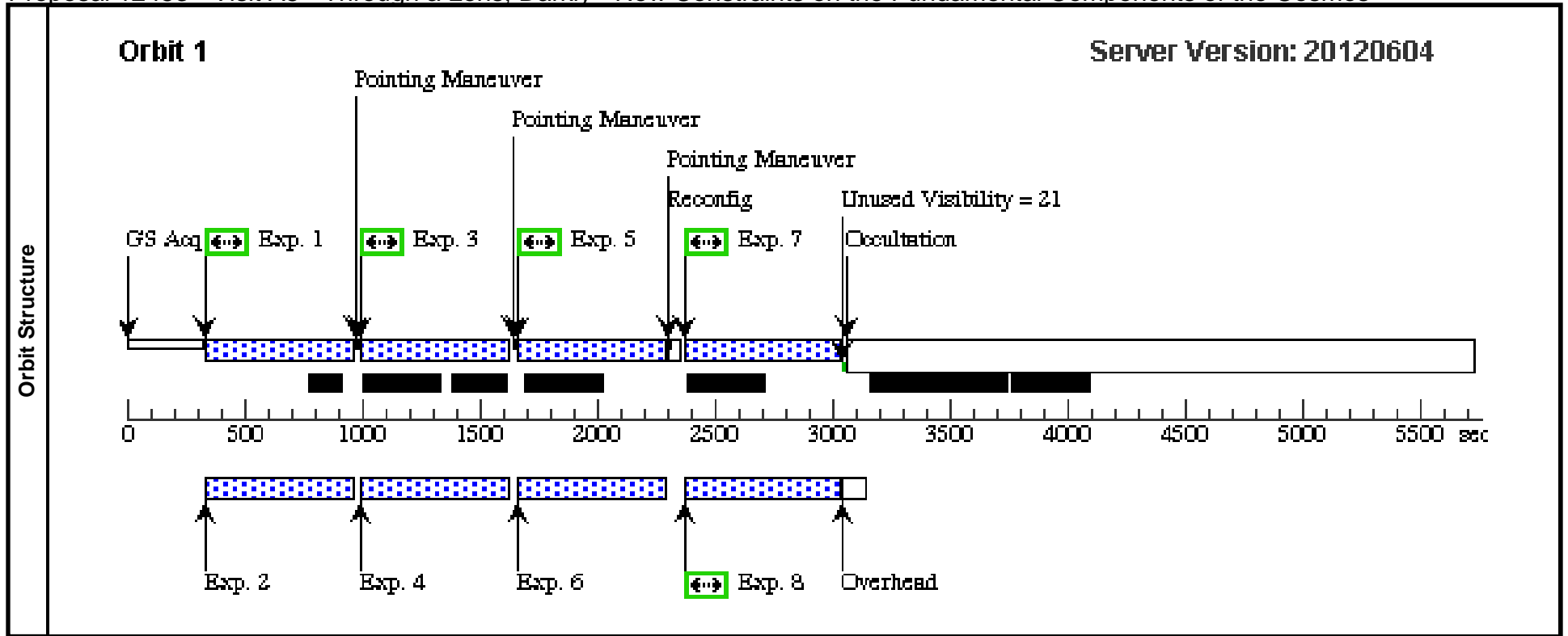
<b>Visit</b>	<b>Proposal 12453, Visit A4, completed</b> <b>Diagnostic Status: Warning</b> Scientific Instruments: WFC3/IR, ACS/WFC Special Requirements: SCHED 80%; SAME ORIENT AS A0; SEQ A3,A4 WITHIN 1.2 Orbits <i>Comments: Visits A3-A4 represent epoch 2 (at orient 1) and should be taken concurrently</i>									
	(Visit A4) Warning (Form): The proposal is part of a large program (100 orbits or more in one cycle) and so should use Schedulability 100.									
<b>Fixed Targets</b>	<b>#</b>	<b>Name</b>	<b>Target Coordinates</b>	<b>Targ. Coord. Corrections</b>	<b>Fluxes</b>	<b>Miscellaneous</b>				
	(1)	MACS1115+0129	RA: 11 15 51.9000 (168.9662500d) Dec: +01 29 55.10 (1.49864d) Equinox: J2000		V=15	Reference Frame: ICRS				
(2)	MACS1115-ACSPAR1	RA: 11 15 51.9000 (168.9662500d) Dec: +01 29 55.10 (1.49864d) Equinox: J2000		V=15	Reference Frame: ICRS					
<b>Exposures</b>	<b>#</b>	<b>Label</b>	<b>Target</b>	<b>Config,Mode,Aperture</b>	<b>Spectral Els.</b>	<b>Opt. Params.</b>	<b>Special Reqs.</b>	<b>Groups</b>	<b>Exp. Time/[Actual Dur.]</b>	<b>Orbit</b>
	1		(1) MACS1115+0129	WFC3/IR, MULTIACCUM, IR-FIX	F160W	SAMP-SEQ=SPARS 100; NSAMP=6	POS TARG 0,0; GS ACQ SCENARI O BASE1B3	Prime + Parallel Group 1-2 in Visit A4	[==>]	[1]
	2		(2) MACS1115-ACS PAR1	ACS/WFC, ACCUM, WFC-FIX	F850LP			Prime + Parallel Group 1-2 in Visit A4	525 Secs [==>325.0 Secs ]	[1]
	3		(1) MACS1115+0129	WFC3/IR, MULTIACCUM, IR-FIX	F160W	SAMP-SEQ=SPARS 100; NSAMP=5	POS TARG -1.1517 5,0.42385	Prime + Parallel Group 3-4 in Visit A4	[==>]	[1]
	4		(2) MACS1115-ACS PAR1	ACS/WFC, ACCUM, WFC-FIX	F850LP			Prime + Parallel Group 3-4 in Visit A4	607 Secs [==>339 Secs ]	[1]
	5		(1) MACS1115+0129	WFC3/IR, MULTIACCUM, IR-FIX	F160W	SAMP-SEQ=SPARS 100; NSAMP=5	POS TARG -0.813,- 0.30275	Prime + Parallel Group 5-6 in Visit A4	[==>]	[1]
	6		(2) MACS1115-ACS PAR1	ACS/WFC, ACCUM, WFC-FIX	F850LP			Prime + Parallel Group 5-6 in Visit A4	582 Secs [==>339 Secs ]	[1]
	7		(1) MACS1115+0129	WFC3/IR, MULTIACCUM, IR-FIX	F140W	SAMP-SEQ=SPARS 100; NSAMP=6	POS TARG 0.33875, -0.1211	Prime + Parallel Group 7-8 in Visit A4	[==>]	[1]
	8		(2) MACS1115-ACS PAR1	ACS/WFC, ACCUM, WFC-FIX	F850LP			Prime + Parallel Group 7-8 in Visit A4	587 Secs [==>407.0 Secs ]	[1]
	9		(1) MACS1115+0129	WFC3/IR, MULTIACCUM, IR-FIX	F140W	SAMP-SEQ=SPARS 100; NSAMP=6	POS TARG -0.813,- 0.30275	Prime + Parallel Group 9-10 in Visit A4	[==>]	[1]
10		(2) MACS1115-ACS PAR1	ACS/WFC, ACCUM, WFC-FIX	F775W			Prime + Parallel Group 9-10 in Visit A4	587 Secs [==>428 Secs ]	[1]	



Proposal 12453 - Visit A5 - Through a Lens, Darkly - New Constraints on the Fundamental Components of the Cosmos

Wed Jul 04 02:08:02 GMT 2012

<b>Visit</b>	<b>Proposal 12453, Visit A5, completed</b> <b>Diagnostic Status: Warning</b> Scientific Instruments: WFC3/IR, WFC3/UVIS, ACS/WFC Special Requirements: SCHED 80%; SAME ORIENT AS A0; AFTER A0 BY 46 D TO 48 D <i>Comments: Visits A5-A6 represent epoch 3 (at orient 1) and should be taken concurrently</i>									
	<b>Diagnosics</b> (Visit A5) Warning (Form): The proposal is part of a large program (100 orbits or more in one cycle) and so should use Schedulability 100.									
<b>Fixed Targets</b>	<b>#</b>	<b>Name</b>	<b>Target Coordinates</b>	<b>Targ. Coord. Corrections</b>	<b>Fluxes</b>	<b>Miscellaneous</b>				
	(1)	MACS1115+0129	RA: 11 15 51.9000 (168.9662500d) Dec: +01 29 55.10 (1.49864d) Equinox: J2000		V=15	Reference Frame: ICRS				
(3)	MACS1115-WFC3PAR1	RA: 11 15 51.9000 (168.9662500d) Dec: +01 29 55.10 (1.49864d) Equinox: J2000		V=15	Reference Frame: ICRS					
<b>Exposures</b>	<b>#</b>	<b>Label</b>	<b>Target</b>	<b>Config,Mode,Aperture</b>	<b>Spectral Els.</b>	<b>Opt. Params.</b>	<b>Special Reqs.</b>	<b>Groups</b>	<b>Exp. Time/[Actual Dur.]</b>	<b>Orbit</b>
	1		(1) MACS1115+0129	ACS/WFC, ACCUM, WFC-FIX	F435W		POS TARG 0,0; GS ACQ SCENARI O BASE1B3	Prime + Parallel Group 1-2 in Visit A5	525 Secs [==>425 Secs ]	[1]
	2		(3) MACS1115-WF C3PAR1	WFC3/IR, MULTIACCUM, IR-FIX	F125W	SAMP-SEQ=SPARS 100; NSAMP=7		Prime + Parallel Group 1-2 in Visit A5	[==>]	[1]
	3		(1) MACS1115+0129	ACS/WFC, ACCUM, WFC-FIX	F435W		POS TARG 0.3211,0 .7917	Prime + Parallel Group 3-4 in Visit A5	507 Secs [==>507.0 Secs ]	[1]
	4		(3) MACS1115-WF C3PAR1	WFC3/IR, MULTIACCUM, IR-FIX	F160W	SAMP-SEQ=SPARS 50; NSAMP=13		Prime + Parallel Group 3-4 in Visit A5	[==>]	[1]
	5		(1) MACS1115+0129	ACS/WFC, ACCUM, WFC-FIX	F814W		POS TARG 1.0868,0 .5573	Prime + Parallel Group 5-6 in Visit A5	551 Secs [==>485 Secs ]	[1]
	6		(3) MACS1115-WF C3PAR1	WFC3/IR, MULTIACCUM, IR-FIX	F160W	SAMP-SEQ=SPARS 100; NSAMP=7		Prime + Parallel Group 5-6 in Visit A5	[==>]	[1]
	7		(1) MACS1115+0129	ACS/WFC, ACCUM, WFC-FIX	F814W		POS TARG -0.3211, -0.1742	Prime + Parallel Group 7-8 in Visit A5	564 Secs [==>537 Secs ]	[1]
	8		(3) MACS1115-WF C3PAR1	WFC3/UVIS, ACCUM, UVIS-FIX	F350LP	CR-SPLIT=NO		Prime + Parallel Group 7-8 in Visit A5	400 Secs [==>631 Secs ]	[1]



Proposal 12453 - Visit A6 - Through a Lens, Darkly - New Constraints on the Fundamental Components of the Cosmos

Wed Jul 04 02:08:03 GMT 2012

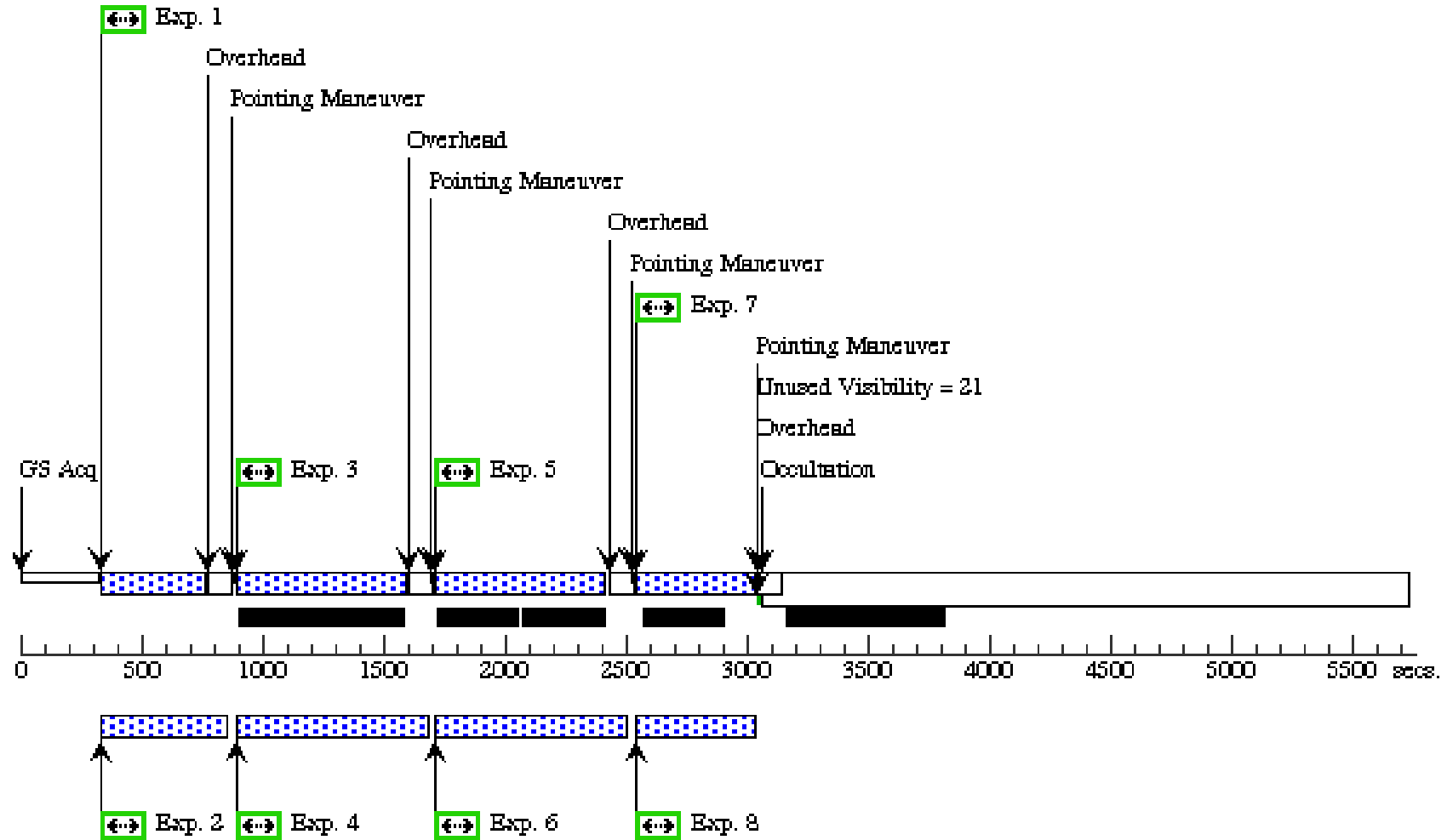
<b>Visit</b>	<p><b>Proposal 12453, Visit A6, completed</b></p> <p><b>Diagnostic Status: Warning</b></p> <p>Scientific Instruments: WFC3/UVIS, ACS/WFC</p> <p>Special Requirements: SCHED 80%; SAME ORIENT AS A0; SEQ A5,A6 WITHIN 1.2 Orbits</p> <p><i>Comments: Visits A5-A6 represent epoch 3 (at orient 1) and should be taken concurrently</i></p>					
	<p>(Visit A6) Warning (Form): The proposal is part of a large program (100 orbits or more in one cycle) and so should use Schedulability 100.</p>					
<b>Diagnosics</b>						
<b>Fixed Targets</b>	<b>#</b>	<b>Name</b>	<b>Target Coordinates</b>	<b>Targ. Coord. Corrections</b>	<b>Fluxes</b>	<b>Miscellaneous</b>
	(1)	MACS1115+0129	RA: 11 15 51.9000 (168.9662500d) Dec: +01 29 55.10 (1.49864d) Equinox: J2000		V=15	Reference Frame: ICRS
	(2)	MACS1115-ACSPAR1	RA: 11 15 51.9000 (168.9662500d) Dec: +01 29 55.10 (1.49864d) Equinox: J2000		V=15	Reference Frame: ICRS

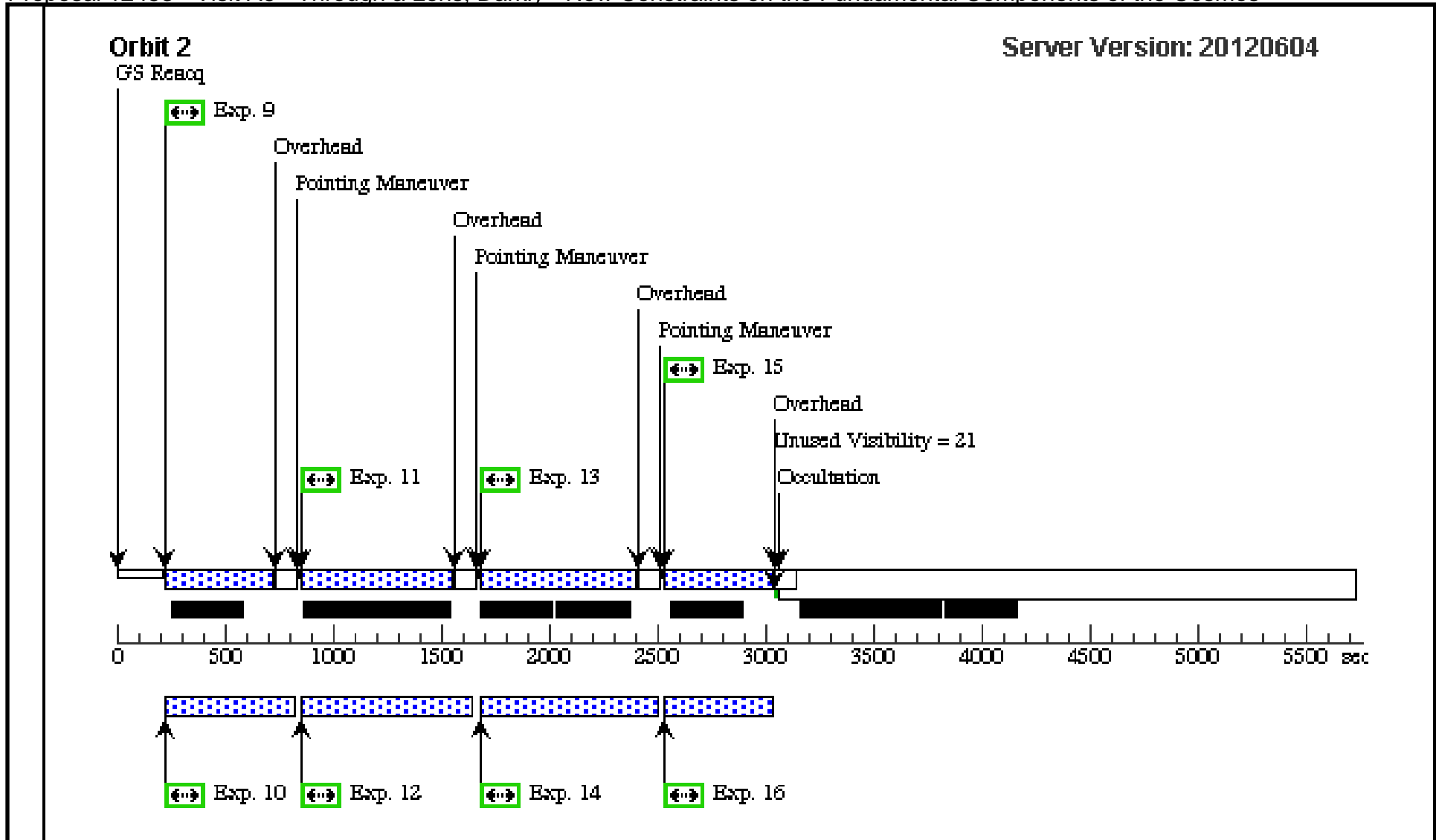
Proposal 12453 - Visit A6 - Through a Lens, Darkly - New Constraints on the Fundamental Components of the Cosmos

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(1) MACS1115+012 9	WFC3/UVIS, ACCUM, UVIS-FIX	F225W	CR-SPLIT=NO	POS TARG 0,0; GS ACQ SCENARI O BASE1B3	Prime + Parallel Gro up 1-2 in Visit A6	600 Secs [==>399 Secs ]	[1]
	2		(2) MACS1115-ACS PAR1	ACS/WFC, ACCUM, WFC-FIX	F850LP			Prime + Parallel Gro up 1-2 in Visit A6	600 Secs [==>319 Secs ]	[1]
	3		(1) MACS1115+012 9	WFC3/UVIS, ACCUM, UVIS-FIX	F225W	CR-SPLIT=NO	POS TARG 0.0594,- 0.0552	Prime + Parallel Gro up 3-4 in Visit A6	600 Secs [==>699.0 Secs ]	[1]
	4		(2) MACS1115-ACS PAR1	ACS/WFC, ACCUM, WFC-FIX	F850LP			Prime + Parallel Gro up 3-4 in Visit A6	600 Secs [==>669.0 Secs ]	[1]
	5		(1) MACS1115+012 9	WFC3/UVIS, ACCUM, UVIS-FIX	F225W	CR-SPLIT=NO	POS TARG 0.1188,0 .06735	Prime + Parallel Gro up 5-6 in Visit A6	600 Secs [==>699.0 Secs ]	[1]
	6		(2) MACS1115-ACS PAR1	ACS/WFC, ACCUM, WFC-FIX	F850LP			Prime + Parallel Gro up 5-6 in Visit A6	600 Secs [==>669 Secs ]	[1]
	7		(1) MACS1115+012 9	WFC3/UVIS, ACCUM, UVIS-FIX	F225W	CR-SPLIT=NO	POS TARG -0.0594, 0.15395	Prime + Parallel Gro up 7-8 in Visit A6	600 Secs [==>490 Secs ]	[1]
	8		(2) MACS1115-ACS PAR1	ACS/WFC, ACCUM, WFC-FIX	F775W			Prime + Parallel Gro up 7-8 in Visit A6	600 Secs [==>339 Secs ]	[1]
	9		(1) MACS1115+012 9	WFC3/UVIS, ACCUM, UVIS-FIX	F225W	CR-SPLIT=NO	POS TARG 0,0	Prime + Parallel Gro up 9-10 in Visit A6	600 Secs [==>503.0 Secs ]	[2]
	10		(2) MACS1115-ACS PAR1	ACS/WFC, ACCUM, WFC-FIX	F850LP			Prime + Parallel Gro up 9-10 in Visit A6	600 Secs [==>447.0 Secs ]	[2]
	11		(1) MACS1115+012 9	WFC3/UVIS, ACCUM, UVIS-FIX	F225W	CR-SPLIT=NO	POS TARG 0.0594,- 0.0552	Prime + Parallel Gro up 11-12 in Visit A6	600 Secs [==>699.0 Secs ]	[2]
	12		(2) MACS1115-ACS PAR1	ACS/WFC, ACCUM, WFC-FIX	F850LP			Prime + Parallel Gro up 11-12 in Visit A6	600 Secs [==>669.0 Secs ]	[2]
	13		(1) MACS1115+012 9	WFC3/UVIS, ACCUM, UVIS-FIX	F390W	CR-SPLIT=NO	POS TARG 0.1188,0 .06735	Prime + Parallel Gro up 13-14 in Visit A6	600 Secs [==>699.0 Secs ]	[2]
	14		(2) MACS1115-ACS PAR1	ACS/WFC, ACCUM, WFC-FIX	F850LP			Prime + Parallel Gro up 13-14 in Visit A6	600 Secs [==>695.0 Secs ]	[2]
	15		(1) MACS1115+012 9	WFC3/UVIS, ACCUM, UVIS-FIX	F390W	CR-SPLIT=NO	POS TARG -0.0594, 0.15395	Prime + Parallel Gro up 15-16 in Visit A6	600 Secs [==>503.0 Secs ]	[2]
	16		(2) MACS1115-ACS PAR1	ACS/WFC, ACCUM, WFC-FIX	F775W			Prime + Parallel Gro up 15-16 in Visit A6	600 Secs [==>352.0 Secs ]	[2]

Orbit Structure

**Orbit 1**

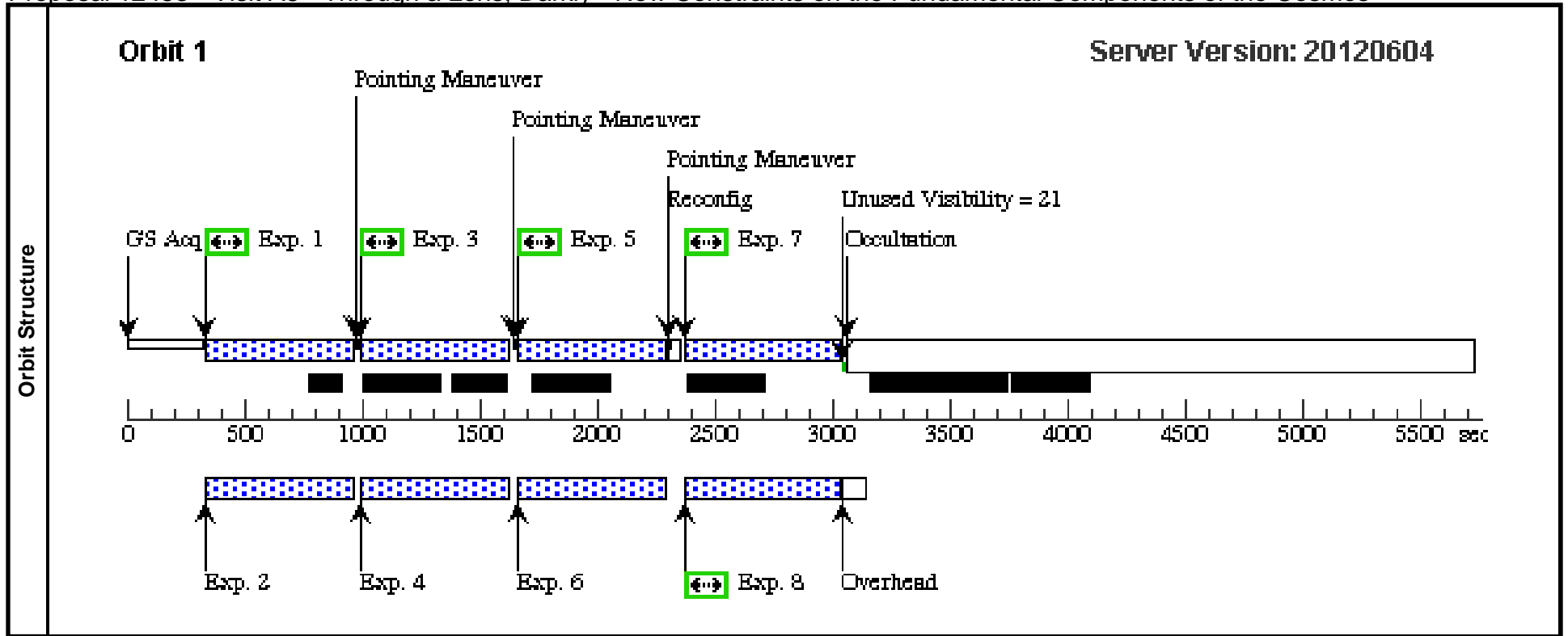




Proposal 12453 - Visit A8 - Through a Lens, Darkly - New Constraints on the Fundamental Components of the Cosmos

Wed Jul 04 02:08:06 GMT 2012

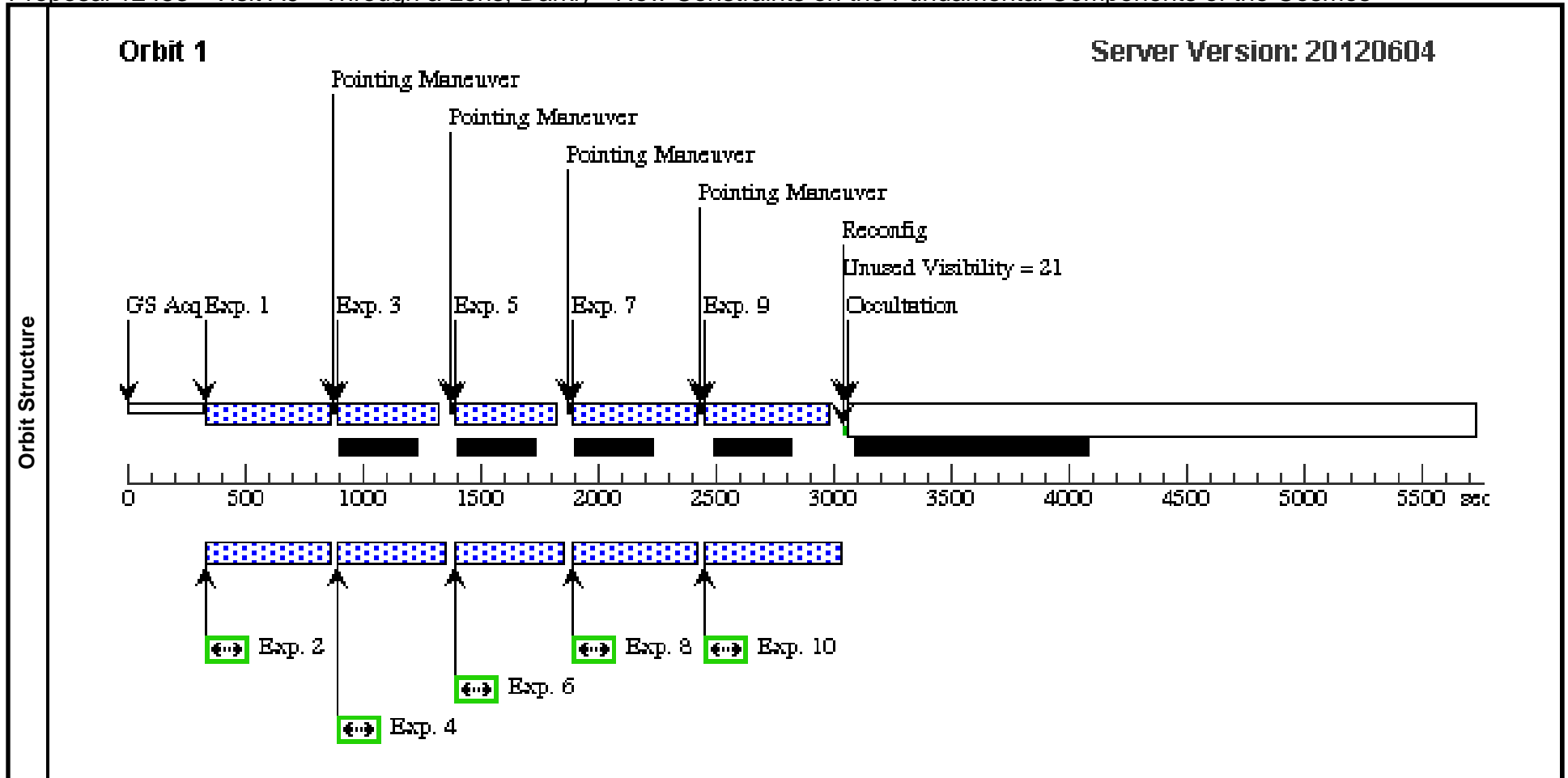
<b>Visit</b>	<b>Proposal 12453, Visit A8, completed</b> <b>Diagnostic Status: Warning</b> Scientific Instruments: WFC3/IR, WFC3/UVIS, ACS/WFC Special Requirements: SCHED 80%; SAME ORIENT AS A0; AFTER A0 BY 70 D TO 72 D <i>Comments: Visits A8-A9 represent epoch 4 (at orient 1) and should be taken concurrently</i>									
	(Visit A8) Warning (Form): The proposal is part of a large program (100 orbits or more in one cycle) and so should use Schedulability 100.									
<b>Fixed Targets</b>	<b>#</b>	<b>Name</b>	<b>Target Coordinates</b>	<b>Targ. Coord. Corrections</b>			<b>Fluxes</b>	<b>Miscellaneous</b>		
	(1)	MACS1115+0129	RA: 11 15 51.9000 (168.9662500d) Dec: +01 29 55.10 (1.49864d) Equinox: J2000				V=15	Reference Frame: ICRS		
(3)	MACS1115-WFC3PAR1	RA: 11 15 51.9000 (168.9662500d) Dec: +01 29 55.10 (1.49864d) Equinox: J2000				V=15	Reference Frame: ICRS			
<b>Exposures</b>	<b>#</b>	<b>Label</b>	<b>Target</b>	<b>Config,Mode,Aperture</b>	<b>Spectral Els.</b>	<b>Opt. Params.</b>	<b>Special Reqs.</b>	<b>Groups</b>	<b>Exp. Time/[Actual Dur.]</b>	<b>Orbit</b>
	1		(1) MACS1115+0129	ACS/WFC, ACCUM, WFC-FIX	F606W		POS TARG 0,0; GS ACQ SCENARI O BASE1B3	Prime + Parallel Group 1-2 in Visit A8	525 Secs [==>425 Secs ]	[1]
	2		(3) MACS1115-WF C3PAR1	WFC3/IR, MULTIACCUM, IR-FIX	F125W	SAMP-SEQ=SPARS 100; NSAMP=7		Prime + Parallel Group 1-2 in Visit A8	[==>]	[1]
	3		(1) MACS1115+0129	ACS/WFC, ACCUM, WFC-FIX	F606W		POS TARG 0.3211,0 .7917	Prime + Parallel Group 3-4 in Visit A8	507 Secs [==>507.0 Secs ]	[1]
	4		(3) MACS1115-WF C3PAR1	WFC3/IR, MULTIACCUM, IR-FIX	F160W	SAMP-SEQ=SPARS 50; NSAMP=13		Prime + Parallel Group 3-4 in Visit A8	[==>]	[1]
	5		(1) MACS1115+0129	ACS/WFC, ACCUM, WFC-FIX	F814W		POS TARG 1.0868,0 .5573	Prime + Parallel Group 5-6 in Visit A8	551 Secs [==>452 Secs ]	[1]
	6		(3) MACS1115-WF C3PAR1	WFC3/IR, MULTIACCUM, IR-FIX	F160W	SAMP-SEQ=SPARS 100; NSAMP=7		Prime + Parallel Group 5-6 in Visit A8	[==>]	[1]
	7		(1) MACS1115+0129	ACS/WFC, ACCUM, WFC-FIX	F814W		POS TARG -0.3211, -0.1742	Prime + Parallel Group 7-8 in Visit A8	564 Secs [==>537 Secs ]	[1]
	8		(3) MACS1115-WF C3PAR1	WFC3/UVIS, ACCUM, UVIS-FIX	F350LP	CR-SPLIT=NO		Prime + Parallel Group 7-8 in Visit A8	400 Secs [==>631 Secs ]	[1]



Proposal 12453 - Visit A9 - Through a Lens, Darkly - New Constraints on the Fundamental Components of the Cosmos

Wed Jul 04 02:08:07 GMT 2012

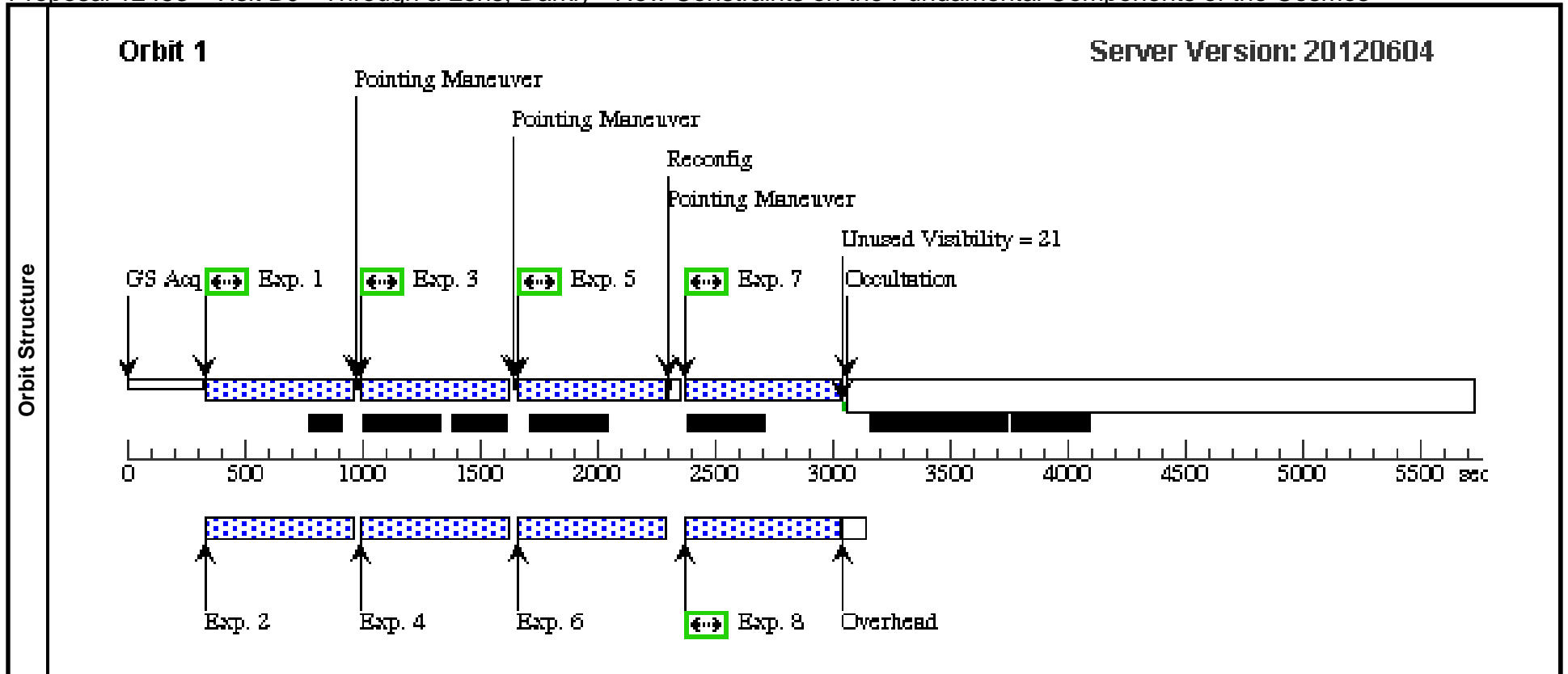
<b>Visit</b>	<b>Proposal 12453, Visit A9, completed</b> <b>Diagnostic Status: Warning</b> Scientific Instruments: WFC3/IR, ACS/WFC Special Requirements: SCHED 80%; SAME ORIENT AS A0; SEQ A8,A9 WITHIN 1.2 Orbits <i>Comments: Visits A8-A9 represent epoch 4 (at orient 1) and should be taken concurrently</i>									
	(Visit A9) Warning (Form): The proposal is part of a large program (100 orbits or more in one cycle) and so should use Schedulability 100.									
<b>Fixed Targets</b>	<b>#</b>	<b>Name</b>	<b>Target Coordinates</b>	<b>Targ. Coord. Corrections</b>	<b>Fluxes</b>	<b>Miscellaneous</b>				
	(1)	MACS1115+0129	RA: 11 15 51.9000 (168.9662500d) Dec: +01 29 55.10 (1.49864d) Equinox: J2000		V=15	Reference Frame: ICRS				
(2)	MACS1115-ACSPAR1	RA: 11 15 51.9000 (168.9662500d) Dec: +01 29 55.10 (1.49864d) Equinox: J2000		V=15	Reference Frame: ICRS					
<b>Exposures</b>	<b>#</b>	<b>Label</b>	<b>Target</b>	<b>Config,Mode,Aperture</b>	<b>Spectral Els.</b>	<b>Opt. Params.</b>	<b>Special Reqs.</b>	<b>Groups</b>	<b>Exp. Time/[Actual Dur.]</b>	<b>Orbit</b>
	1		(1) MACS1115+0129	WFC3/IR, MULTIACCUM, IR-FIX	F105W	SAMP-SEQ=SPARS 100; NSAMP=6	POS TARG 0,0; GS ACQ SCENARI O BASE1B3	Prime + Parallel Group 1-2 in Visit A9	[==>]	[1]
	2		(2) MACS1115-ACS PAR1	ACS/WFC, ACCUM, WFC-FIX	F850LP			Prime + Parallel Group 1-2 in Visit A9	525 Secs [==>325.0 Secs ]	[1]
	3		(1) MACS1115+0129	WFC3/IR, MULTIACCUM, IR-FIX	F105W	SAMP-SEQ=SPARS 100; NSAMP=5	POS TARG -1.1517 5,0.42385	Prime + Parallel Group 3-4 in Visit A9	[==>]	[1]
	4		(2) MACS1115-ACS PAR1	ACS/WFC, ACCUM, WFC-FIX	F850LP			Prime + Parallel Group 3-4 in Visit A9	607 Secs [==>339 Secs ]	[1]
	5		(1) MACS1115+0129	WFC3/IR, MULTIACCUM, IR-FIX	F105W	SAMP-SEQ=SPARS 100; NSAMP=5	POS TARG -0.813,- 0.30275	Prime + Parallel Group 5-6 in Visit A9	[==>]	[1]
	6		(2) MACS1115-ACS PAR1	ACS/WFC, ACCUM, WFC-FIX	F850LP			Prime + Parallel Group 5-6 in Visit A9	582 Secs [==>339 Secs ]	[1]
	7		(1) MACS1115+0129	WFC3/IR, MULTIACCUM, IR-FIX	F110W	SAMP-SEQ=SPARS 100; NSAMP=6	POS TARG 0.33875, -0.1211	Prime + Parallel Group 7-8 in Visit A9	[==>]	[1]
	8		(2) MACS1115-ACS PAR1	ACS/WFC, ACCUM, WFC-FIX	F850LP			Prime + Parallel Group 7-8 in Visit A9	587 Secs [==>407.0 Secs ]	[1]
	9		(1) MACS1115+0129	WFC3/IR, MULTIACCUM, IR-FIX	F110W	SAMP-SEQ=SPARS 100; NSAMP=6	POS TARG -0.813,- 0.30275	Prime + Parallel Group 9-10 in Visit A9	[==>]	[1]
10		(2) MACS1115-ACS PAR1	ACS/WFC, ACCUM, WFC-FIX	F775W			Prime + Parallel Group 9-10 in Visit A9	587 Secs [==>428 Secs ]	[1]	



Proposal 12453 - Visit B0 - Through a Lens, Darkly - New Constraints on the Fundamental Components of the Cosmos

Wed Jul 04 02:08:08 GMT 2012

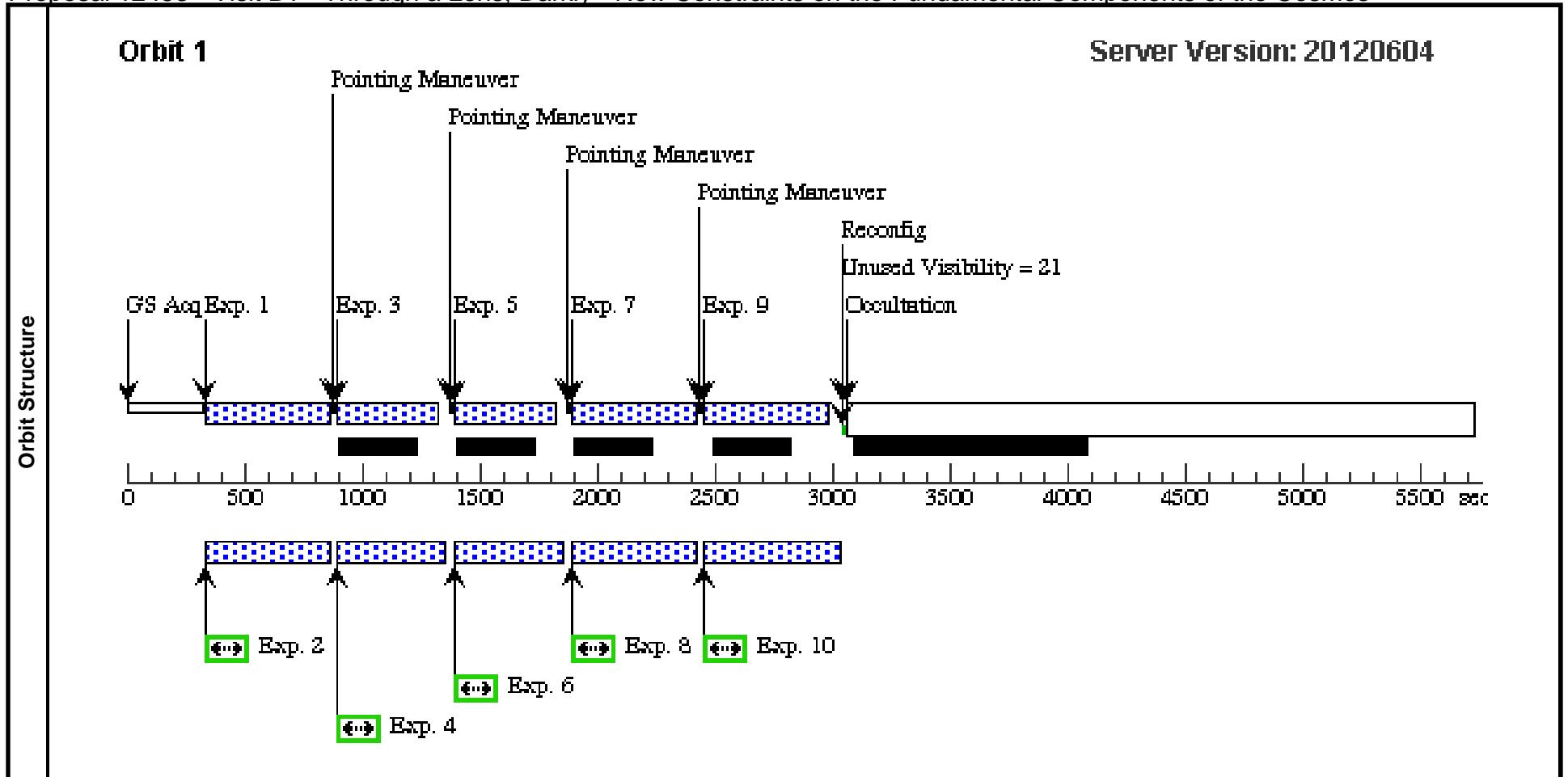
<b>Visit</b>	<b>Proposal 12453, Visit B0, completed</b> <b>Diagnostic Status: Warning</b> Scientific Instruments: WFC3/IR, WFC3/UVIS, ACS/WFC Special Requirements: SCHED 80%; ORIENT 29D TO 31D FROM A0 <i>Comments: Visits B0-B1 represent epoch 1 (at orient 2) and should be taken concurrently</i>									
	(Visit B0) Warning (Form): The proposal is part of a large program (100 orbits or more in one cycle) and so should use Schedulability 100.									
<b>Fixed Targets</b>	<b>#</b>	<b>Name</b>	<b>Target Coordinates</b>		<b>Targ. Coord. Corrections</b>		<b>Fluxes</b>	<b>Miscellaneous</b>		
	(1)	MACS1115+0129	RA: 11 15 51.9000 (168.9662500d) Dec: +01 29 55.10 (1.49864d) Equinox: J2000				V=15	Reference Frame: ICRS		
(5)	MACS1115-WFC3PAR2	RA: 11 15 51.9000 (168.9662500d) Dec: +01 29 55.10 (1.49864d) Equinox: J2000				V=15	Reference Frame: ICRS			
<b>Exposures</b>	<b>#</b>	<b>Label</b>	<b>Target</b>	<b>Config,Mode,Aperture</b>	<b>Spectral Els.</b>	<b>Opt. Params.</b>	<b>Special Reqs.</b>	<b>Groups</b>	<b>Exp. Time/[Actual Dur.]</b>	<b>Orbit</b>
	1		(1) MACS1115+0129	ACS/WFC, ACCUM, WFC-FIX	F625W		POS TARG 0,0; GS ACQ SCENARI O BASE1B3	Prime + Parallel Group 1-2 in Visit B0	525 Secs [==>425 Secs ]	[1]
	2		(5) MACS1115-WF C3PAR2	WFC3/IR, MULTIACCUM, IR-FIX	F125W	SAMP-SEQ=SPARS 100; NSAMP=7		Prime + Parallel Group 1-2 in Visit B0	[==>]	[1]
	3		(1) MACS1115+0129	ACS/WFC, ACCUM, WFC-FIX	F625W		POS TARG 0.0741,0 .1295	Prime + Parallel Group 3-4 in Visit B0	507 Secs [==>507.0 Secs ]	[1]
	4		(5) MACS1115-WF C3PAR2	WFC3/IR, MULTIACCUM, IR-FIX	F160W	SAMP-SEQ=SPARS 50; NSAMP=13		Prime + Parallel Group 3-4 in Visit B0	[==>]	[1]
	5		(1) MACS1115+0129	ACS/WFC, ACCUM, WFC-FIX	F814W		POS TARG 0.1729,- 0.0848	Prime + Parallel Group 5-6 in Visit B0	551 Secs [==>461 Secs ]	[1]
	6		(5) MACS1115-WF C3PAR2	WFC3/IR, MULTIACCUM, IR-FIX	F160W	SAMP-SEQ=SPARS 100; NSAMP=7		Prime + Parallel Group 5-6 in Visit B0	[==>]	[1]
	7		(1) MACS1115+0129	ACS/WFC, ACCUM, WFC-FIX	F814W		POS TARG 0.247,0. 2423	Prime + Parallel Group 7-8 in Visit B0	564 Secs [==>537 Secs ]	[1]
	8		(5) MACS1115-WF C3PAR2	WFC3/UVIS, ACCUM, UVIS-FIX	F350LP	CR-SPLIT=NO		Prime + Parallel Group 7-8 in Visit B0	400 Secs [==>631 Secs ]	[1]



Proposal 12453 - Visit B1 - Through a Lens, Darkly - New Constraints on the Fundamental Components of the Cosmos

Wed Jul 04 02:08:09 GMT 2012

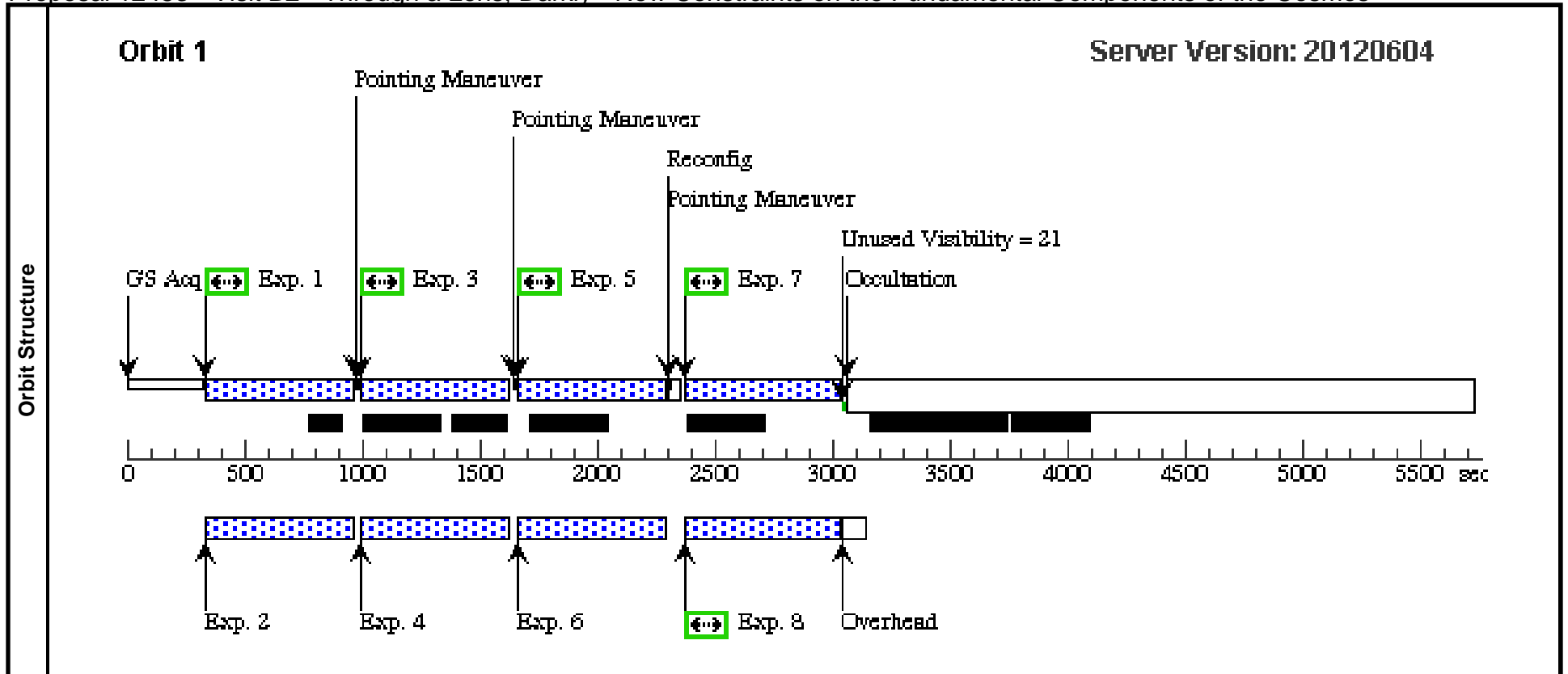
<b>Visit</b>	<b>Proposal 12453, Visit B1, completed</b> <b>Diagnostic Status: Warning</b> Scientific Instruments: WFC3/IR, ACS/WFC Special Requirements: SCHED 80%; SAME ORIENT AS B0; SEQ B0,B1 WITHIN 1.2 Orbits <i>Comments: Visits B0-B1 represent epoch 1 (at orient 2) and should be taken concurrently</i>									
	(Visit B1) Warning (Form): The proposal is part of a large program (100 orbits or more in one cycle) and so should use Schedulability 100.									
<b>Fixed Targets</b>	<b>#</b>	<b>Name</b>	<b>Target Coordinates</b>	<b>Targ. Coord. Corrections</b>			<b>Fluxes</b>	<b>Miscellaneous</b>		
	(1)	MACS1115+0129	RA: 11 15 51.9000 (168.9662500d) Dec: +01 29 55.10 (1.49864d) Equinox: J2000				V=15	Reference Frame: ICRS		
(4)	MACS1115-ACSPAR2	RA: 11 15 51.9000 (168.9662500d) Dec: +01 29 55.10 (1.49864d) Equinox: J2000				V=15	Reference Frame: ICRS			
<b>Exposures</b>	<b>#</b>	<b>Label</b>	<b>Target</b>	<b>Config,Mode,Aperture</b>	<b>Spectral Els.</b>	<b>Opt. Params.</b>	<b>Special Reqs.</b>	<b>Groups</b>	<b>Exp. Time/[Actual Dur.]</b>	<b>Orbit</b>
	1		(1) MACS1115+0129	WFC3/IR, MULTIACCUM, IR-FIX	F125W	SAMP-SEQ=SPARS 100; NSAMP=6	POS TARG 0,0; GS ACQ SCENARI O BASE1B3	Prime + Parallel Group 1-2 in Visit B1	[==>]	[1]
	2		(4) MACS1115-ACS PAR2	ACS/WFC, ACCUM, WFC-FIX	F850LP			Prime + Parallel Group 1-2 in Visit B1	525 Secs [==>325.0 Secs ]	[1]
	3		(1) MACS1115+0129	WFC3/IR, MULTIACCUM, IR-FIX	F125W	SAMP-SEQ=SPARS 100; NSAMP=5	POS TARG 0.20325, -0.18165	Prime + Parallel Group 3-4 in Visit B1	[==>]	[1]
	4		(4) MACS1115-ACS PAR2	ACS/WFC, ACCUM, WFC-FIX	F850LP			Prime + Parallel Group 3-4 in Visit B1	607 Secs [==>339 Secs ]	[1]
	5		(1) MACS1115+0129	WFC3/IR, MULTIACCUM, IR-FIX	F125W	SAMP-SEQ=SPARS 100; NSAMP=5	POS TARG 0.47425, 0.6055	Prime + Parallel Group 5-6 in Visit B1	[==>]	[1]
	6		(4) MACS1115-ACS PAR2	ACS/WFC, ACCUM, WFC-FIX	F850LP			Prime + Parallel Group 5-6 in Visit B1	582 Secs [==>339 Secs ]	[1]
	7		(1) MACS1115+0129	WFC3/IR, MULTIACCUM, IR-FIX	F140W	SAMP-SEQ=SPARS 100; NSAMP=6	POS TARG -0.271,0 .42385	Prime + Parallel Group 7-8 in Visit B1	[==>]	[1]
	8		(4) MACS1115-ACS PAR2	ACS/WFC, ACCUM, WFC-FIX	F850LP			Prime + Parallel Group 7-8 in Visit B1	587 Secs [==>407.0 Secs ]	[1]
	9		(1) MACS1115+0129	WFC3/IR, MULTIACCUM, IR-FIX	F140W	SAMP-SEQ=SPARS 100; NSAMP=6	POS TARG 0.47425, 0.6055	Prime + Parallel Group 9-10 in Visit B1	[==>]	[1]
10		(4) MACS1115-ACS PAR2	ACS/WFC, ACCUM, WFC-FIX	F775W			Prime + Parallel Group 9-10 in Visit B1	587 Secs [==>428 Secs ]	[1]	



Proposal 12453 - Visit B2 - Through a Lens, Darkly - New Constraints on the Fundamental Components of the Cosmos

Wed Jul 04 02:08:10 GMT 2012

<b>Visit</b>	<b>Proposal 12453, Visit B2, completed</b> <b>Diagnostic Status: Warning</b> Scientific Instruments: WFC3/IR, WFC3/UVIS, ACS/WFC Special Requirements: SCHED 80%; SAME ORIENT AS B0; AFTER B0 BY 23 D TO 25 D <i>Comments: Visits B2-B3 represent epoch 2 (at orient 2) and should be taken concurrently</i>									
	(Visit B2) Warning (Form): The proposal is part of a large program (100 orbits or more in one cycle) and so should use Schedulability 100.									
<b>Fixed Targets</b>	<b>#</b>	<b>Name</b>	<b>Target Coordinates</b>	<b>Targ. Coord. Corrections</b>			<b>Fluxes</b>	<b>Miscellaneous</b>		
	(1)	MACS1115+0129	RA: 11 15 51.9000 (168.9662500d) Dec: +01 29 55.10 (1.49864d) Equinox: J2000				V=15	Reference Frame: ICRS		
(5)	MACS1115-WFC3PAR2	RA: 11 15 51.9000 (168.9662500d) Dec: +01 29 55.10 (1.49864d) Equinox: J2000				V=15	Reference Frame: ICRS			
<b>Exposures</b>	<b>#</b>	<b>Label</b>	<b>Target</b>	<b>Config,Mode,Aperture</b>	<b>Spectral Els.</b>	<b>Opt. Params.</b>	<b>Special Reqs.</b>	<b>Groups</b>	<b>Exp. Time/[Actual Dur.]</b>	<b>Orbit</b>
	1	(1) MACS1115+0129	(1) MACS1115+0129	ACS/WFC, ACCUM, WFC-FIX	F775W		POS TARG 0,0; GS ACQ SCENARI O BASE1B3	Prime + Parallel Group 1-2 in Visit B2	525 Secs [==>425 Secs ]	[1]
	2	(5) MACS1115-WF C3PAR2	(5) MACS1115-WF C3PAR2	WFC3/IR, MULTIACCUM, IR-FIX	F125W	SAMP-SEQ=SPARS 100; NSAMP=7		Prime + Parallel Group 1-2 in Visit B2	[==>]	[1]
	3	(1) MACS1115+0129	(1) MACS1115+0129	ACS/WFC, ACCUM, WFC-FIX	F775W		POS TARG 0.3211,0 .7917	Prime + Parallel Group 3-4 in Visit B2	507 Secs [==>507.0 Secs ]	[1]
	4	(5) MACS1115-WF C3PAR2	(5) MACS1115-WF C3PAR2	WFC3/IR, MULTIACCUM, IR-FIX	F160W	SAMP-SEQ=SPARS 50; NSAMP=13		Prime + Parallel Group 3-4 in Visit B2	[==>]	[1]
	5	(1) MACS1115+0129	(1) MACS1115+0129	ACS/WFC, ACCUM, WFC-FIX	F606W		POS TARG 1.0868,0 .5573	Prime + Parallel Group 5-6 in Visit B2	551 Secs [==>466 Secs ]	[1]
	6	(5) MACS1115-WF C3PAR2	(5) MACS1115-WF C3PAR2	WFC3/IR, MULTIACCUM, IR-FIX	F160W	SAMP-SEQ=SPARS 100; NSAMP=7		Prime + Parallel Group 5-6 in Visit B2	[==>]	[1]
	7	(1) MACS1115+0129	(1) MACS1115+0129	ACS/WFC, ACCUM, WFC-FIX	F606W		POS TARG -0.3211, -0.1742	Prime + Parallel Group 7-8 in Visit B2	564 Secs [==>537 Secs ]	[1]
	8	(5) MACS1115-WF C3PAR2	(5) MACS1115-WF C3PAR2	WFC3/UVIS, ACCUM, UVIS-FIX	F350LP	CR-SPLIT=NO		Prime + Parallel Group 7-8 in Visit B2	400 Secs [==>631 Secs ]	[1]



Proposal 12453 - Visit B3 - Through a Lens, Darkly - New Constraints on the Fundamental Components of the Cosmos

Wed Jul 04 02:08:11 GMT 2012

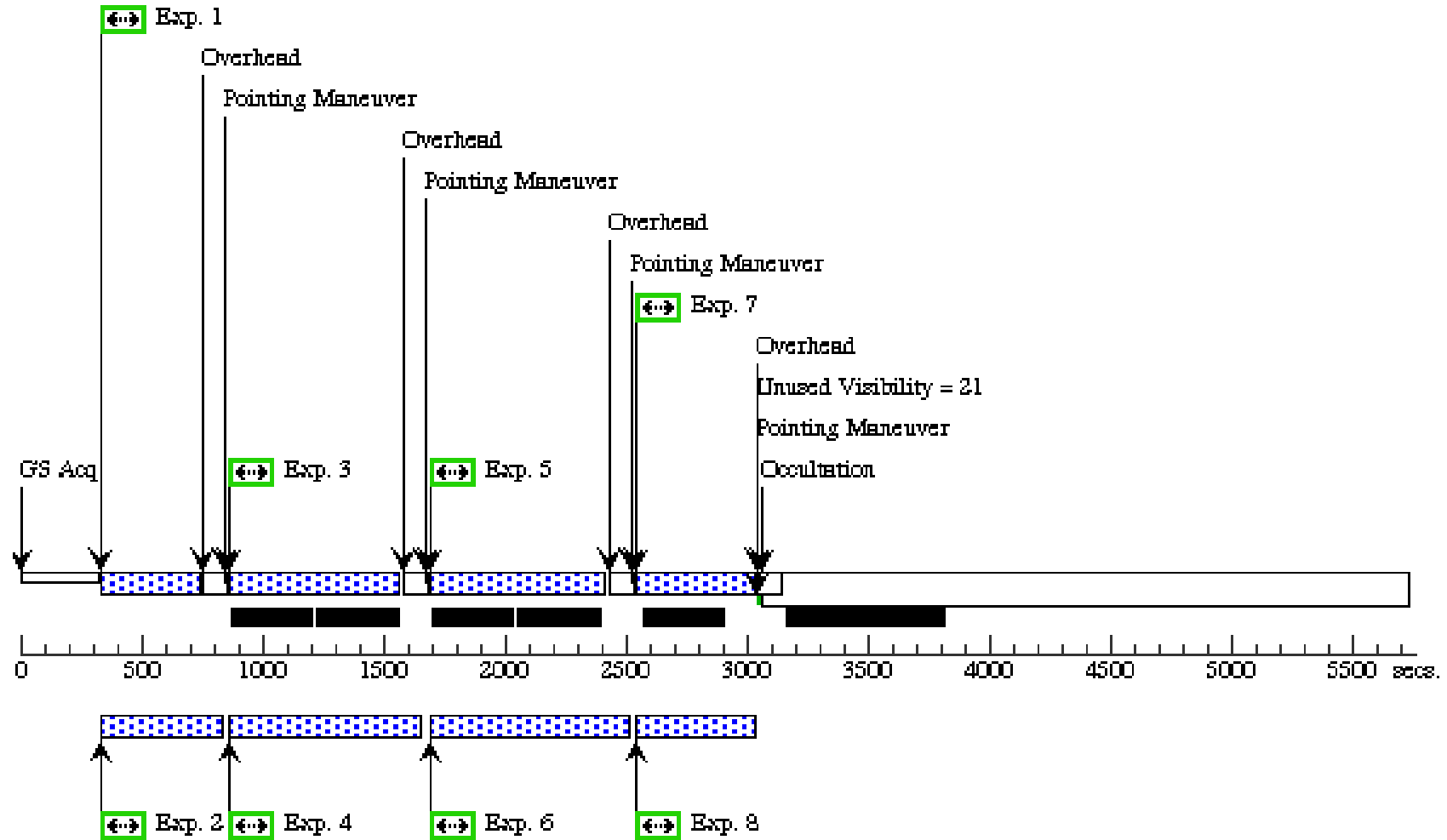
<b>Visit</b>	<b>Proposal 12453, Visit B3, completed</b> <b>Diagnostic Status: Warning</b> Scientific Instruments: WFC3/UVIS, ACS/WFC Special Requirements: SCHED 80%; SAME ORIENT AS B0; SEQ B2,B3 WITHIN 1.2 Orbits <i>Comments: Visits B2-B3 represent epoch 2 (at orient 2) and should be taken concurrently</i>					
	(Visit B3) Warning (Form): The proposal is part of a large program (100 orbits or more in one cycle) and so should use Schedulability 100.					
<b>Diagnosics</b>						
<b>Fixed Targets</b>	<b>#</b>	<b>Name</b>	<b>Target Coordinates</b>	<b>Targ. Coord. Corrections</b>	<b>Fluxes</b>	<b>Miscellaneous</b>
	(1)	MACS1115+0129	RA: 11 15 51.9000 (168.9662500d) Dec: +01 29 55.10 (1.49864d) Equinox: J2000		V=15	Reference Frame: ICRS
	(4)	MACS1115-ACSPAR2	RA: 11 15 51.9000 (168.9662500d) Dec: +01 29 55.10 (1.49864d) Equinox: J2000		V=15	Reference Frame: ICRS

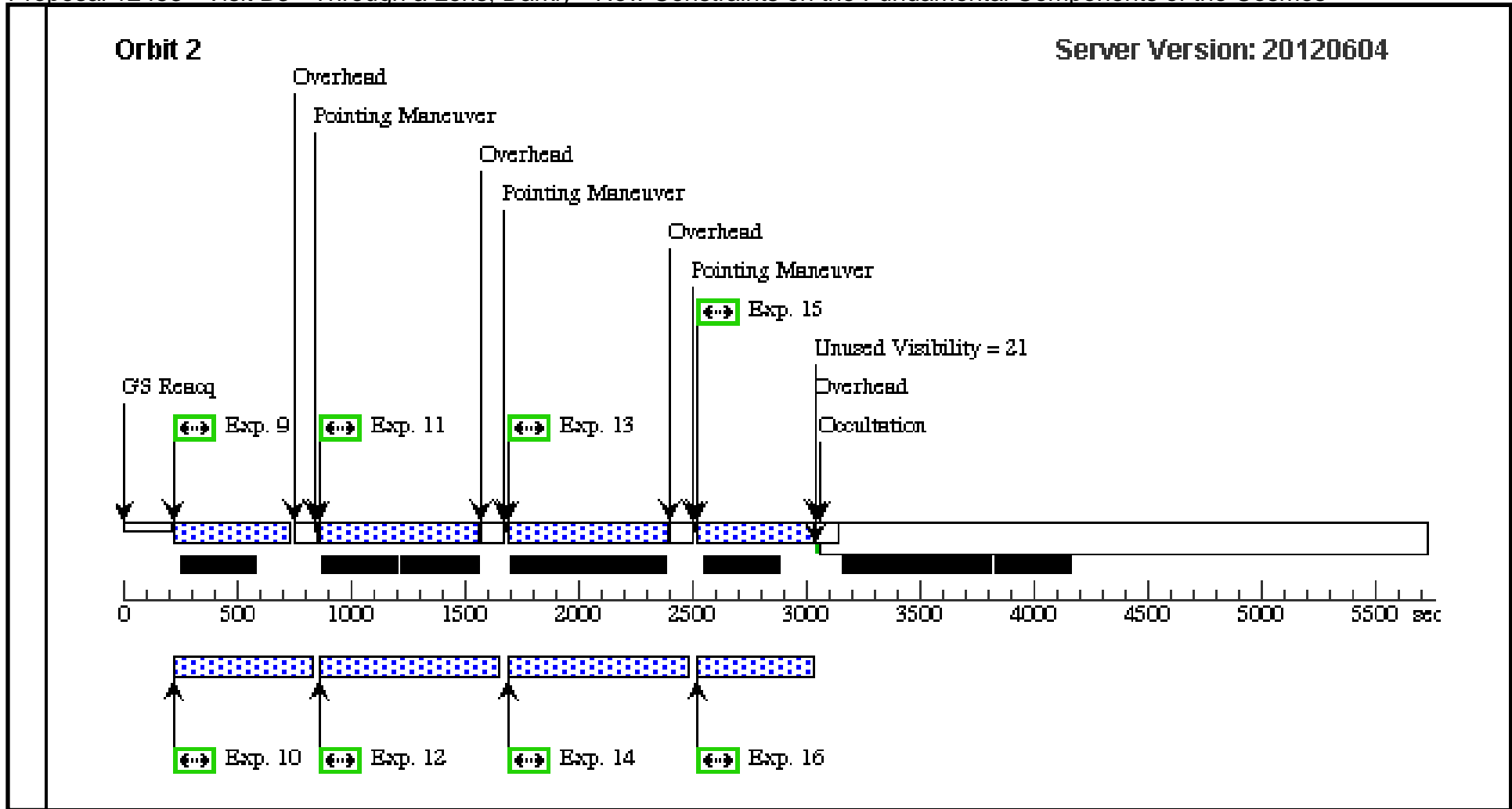
Proposal 12453 - Visit B3 - Through a Lens, Darkly - New Constraints on the Fundamental Components of the Cosmos

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(1) MACS1115+012 9	WFC3/UVIS, ACCUM, UVIS-FIX	F390W	CR-SPLIT=NO	POS TARG 0,0; GS ACQ SCENARI O BASE1B3	Prime + Parallel Gro up 1-2 in Visit B3	600 Secs [==>376 Secs ]	[1]
	2		(4) MACS1115-ACS PAR2	ACS/WFC, ACCUM, WFC-FIX	F850LP			Prime + Parallel Gro up 1-2 in Visit B3	600 Secs [==>296 Secs ]	[1]
	3		(1) MACS1115+012 9	WFC3/UVIS, ACCUM, UVIS-FIX	F390W	CR-SPLIT=NO	POS TARG 0.0594,- 0.0552	Prime + Parallel Gro up 3-4 in Visit B3	600 Secs [==>699.0 Secs ]	[1]
	4		(4) MACS1115-ACS PAR2	ACS/WFC, ACCUM, WFC-FIX	F850LP			Prime + Parallel Gro up 3-4 in Visit B3	600 Secs [==>669 Secs ]	[1]
	5		(1) MACS1115+012 9	WFC3/UVIS, ACCUM, UVIS-FIX	F275W	CR-SPLIT=NO	POS TARG 0.1188,0 .06735	Prime + Parallel Gro up 5-6 in Visit B3	600 Secs [==>699.0 Secs ]	[1]
	6		(4) MACS1115-ACS PAR2	ACS/WFC, ACCUM, WFC-FIX	F850LP			Prime + Parallel Gro up 5-6 in Visit B3	600 Secs [==>692 Secs ]	[1]
	7		(1) MACS1115+012 9	WFC3/UVIS, ACCUM, UVIS-FIX	F275W	CR-SPLIT=NO	POS TARG -0.0594, 0.15395	Prime + Parallel Gro up 7-8 in Visit B3	600 Secs [==>490 Secs ]	[1]
	8		(4) MACS1115-ACS PAR2	ACS/WFC, ACCUM, WFC-FIX	F775W			Prime + Parallel Gro up 7-8 in Visit B3	600 Secs [==>339 Secs ]	[1]
	9		(1) MACS1115+012 9	WFC3/UVIS, ACCUM, UVIS-FIX	F275W	CR-SPLIT=NO	POS TARG 0,0	Prime + Parallel Gro up 9-10 in Visit B3	600 Secs [==>516.0 Secs ]	[2]
	10		(4) MACS1115-ACS PAR2	ACS/WFC, ACCUM, WFC-FIX	F850LP			Prime + Parallel Gro up 9-10 in Visit B3	600 Secs [==>460.0 Secs ]	[2]
	11		(1) MACS1115+012 9	WFC3/UVIS, ACCUM, UVIS-FIX	F275W	CR-SPLIT=NO	POS TARG 0.0594,- 0.0552	Prime + Parallel Gro up 11-12 in Visit B3	600 Secs [==>699.0 Secs ]	[2]
	12		(4) MACS1115-ACS PAR2	ACS/WFC, ACCUM, WFC-FIX	F850LP			Prime + Parallel Gro up 11-12 in Visit B3	600 Secs [==>669.0 Secs ]	[2]
	13		(1) MACS1115+012 9	WFC3/UVIS, ACCUM, UVIS-FIX	F275W	CR-SPLIT=NO	POS TARG 0.1188,0 .06735	Prime + Parallel Gro up 13-14 in Visit B3	600 Secs [==>699.0 Secs ]	[2]
	14		(4) MACS1115-ACS PAR2	ACS/WFC, ACCUM, WFC-FIX	F850LP			Prime + Parallel Gro up 13-14 in Visit B3	600 Secs [==>669.0 Secs ]	[2]
	15		(1) MACS1115+012 9	WFC3/UVIS, ACCUM, UVIS-FIX	F275W	CR-SPLIT=NO	POS TARG -0.0594, 0.15395	Prime + Parallel Gro up 15-16 in Visit B3	600 Secs [==>516.0 Secs ]	[2]
16		(4) MACS1115-ACS PAR2	ACS/WFC, ACCUM, WFC-FIX	F775W			Prime + Parallel Gro up 15-16 in Visit B3	600 Secs [==>365.0 Secs ]	[2]	

Orbit Structure

**Orbit 1**

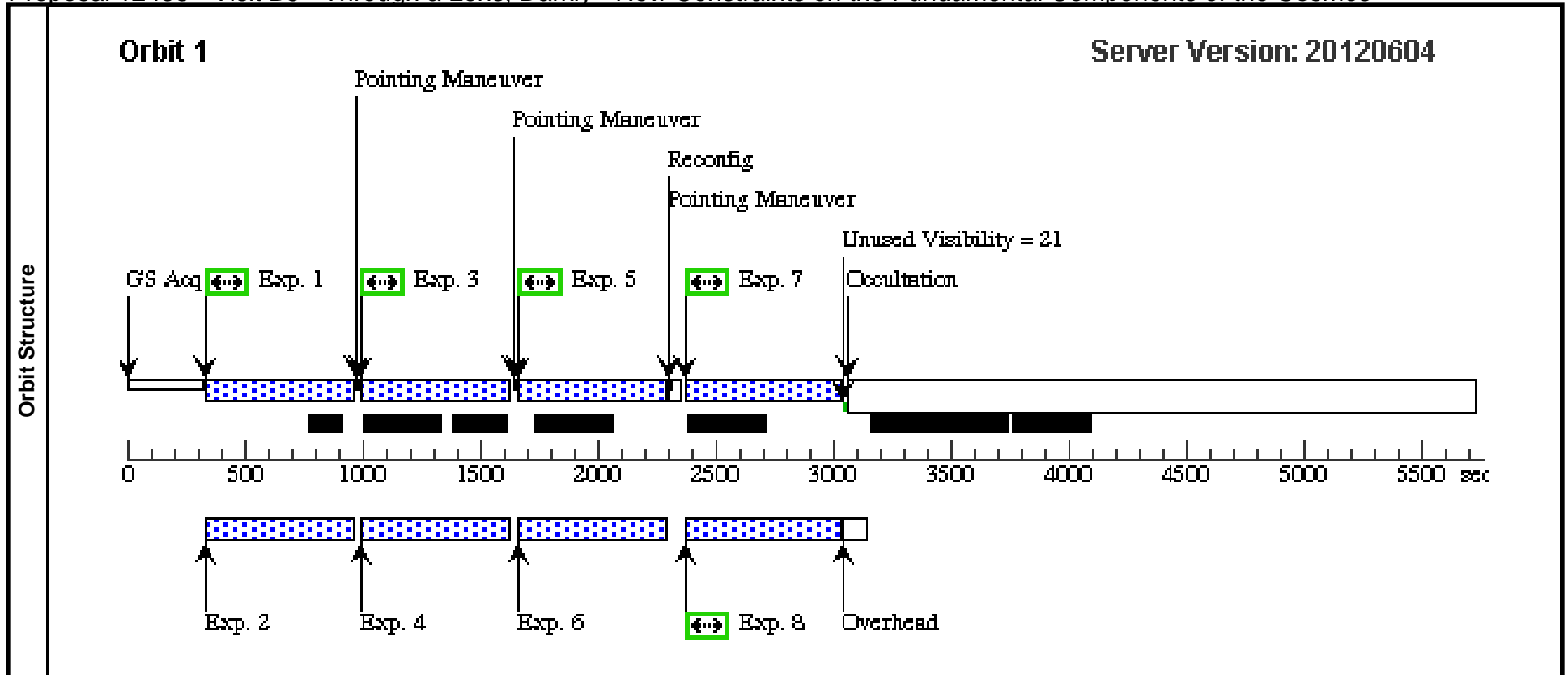




Proposal 12453 - Visit B5 - Through a Lens, Darkly - New Constraints on the Fundamental Components of the Cosmos

Wed Jul 04 02:08:13 GMT 2012

Visit	<b>Proposal 12453, Visit B5, completed</b> <b>Diagnostic Status: Warning</b> Scientific Instruments: WFC3/IR, WFC3/UVIS, ACS/WFC Special Requirements: SCHED 80%; SAME ORIENT AS B0; AFTER B0 BY 46 D TO 48 D <i>Comments: Visits B5-B6 represent epoch 3 (at orient 2) and should be taken concurrently</i>																																																																																																			
Diagnostics	(Visit B5) Warning (Form): The proposal is part of a large program (100 orbits or more in one cycle) and so should use Schedulability 100.																																																																																																			
Fixed Targets	<table border="1"> <thead> <tr> <th>#</th> <th>Name</th> <th>Target Coordinates</th> <th>Targ. Coord. Corrections</th> <th>Fluxes</th> <th>Miscellaneous</th> </tr> </thead> <tbody> <tr> <td>(1)</td> <td>MACS1115+0129</td> <td>RA: 11 15 51.9000 (168.9662500d) Dec: +01 29 55.10 (1.49864d) Equinox: J2000</td> <td></td> <td>V=15</td> <td>Reference Frame: ICRS</td> </tr> <tr> <td>(5)</td> <td>MACS1115-WFC3PAR2</td> <td>RA: 11 15 51.9000 (168.9662500d) Dec: +01 29 55.10 (1.49864d) Equinox: J2000</td> <td></td> <td>V=15</td> <td>Reference Frame: ICRS</td> </tr> </tbody> </table>										#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous	(1)	MACS1115+0129	RA: 11 15 51.9000 (168.9662500d) Dec: +01 29 55.10 (1.49864d) Equinox: J2000		V=15	Reference Frame: ICRS	(5)	MACS1115-WFC3PAR2	RA: 11 15 51.9000 (168.9662500d) Dec: +01 29 55.10 (1.49864d) Equinox: J2000		V=15	Reference Frame: ICRS																																																																								
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(5)	MACS1115-WFC3PAR2	RA: 11 15 51.9000 (168.9662500d) Dec: +01 29 55.10 (1.49864d) Equinox: J2000		V=15	Reference Frame: ICRS																																																																																															
Exposures	<table border="1"> <thead> <tr> <th>#</th> <th>Label</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/[Actual Dur.]</th> <th>Orbit</th> </tr> </thead> <tbody> <tr> <td>1</td> <td></td> <td>(1) MACS1115+0129</td> <td>ACS/WFC, ACCUM, WFC-FIX</td> <td>F850LP</td> <td></td> <td>POS TARG 0,0; GS ACQ SCENARI O BASE1B3</td> <td>Prime + Parallel Group 1-2 in Visit B5</td> <td>525 Secs [==&gt;425 Secs ]</td> <td>[1]</td> </tr> <tr> <td>2</td> <td></td> <td>(5) MACS1115-WF C3PAR2</td> <td>WFC3/IR, MULTIACCUM, IR-FIX</td> <td>F125W</td> <td>SAMP-SEQ=SPARS 100; NSAMP=7</td> <td></td> <td>Prime + Parallel Group 1-2 in Visit B5</td> <td>[==&gt;]</td> <td>[1]</td> </tr> <tr> <td>3</td> <td></td> <td>(1) MACS1115+0129</td> <td>ACS/WFC, ACCUM, WFC-FIX</td> <td>F850LP</td> <td></td> <td>POS TARG 0.3211,0 .7917</td> <td>Prime + Parallel Group 3-4 in Visit B5</td> <td>507 Secs [==&gt;507.0 Secs ]</td> <td>[1]</td> </tr> <tr> <td>4</td> <td></td> <td>(5) MACS1115-WF C3PAR2</td> <td>WFC3/IR, MULTIACCUM, IR-FIX</td> <td>F160W</td> <td>SAMP-SEQ=SPARS 50; NSAMP=13</td> <td></td> <td>Prime + Parallel Group 3-4 in Visit B5</td> <td>[==&gt;]</td> <td>[1]</td> </tr> <tr> <td>5</td> <td></td> <td>(1) MACS1115+0129</td> <td>ACS/WFC, ACCUM, WFC-FIX</td> <td>F435W</td> <td></td> <td>POS TARG 1.0868,0 .5573</td> <td>Prime + Parallel Group 5-6 in Visit B5</td> <td>551 Secs [==&gt;445 Secs ]</td> <td>[1]</td> </tr> <tr> <td>6</td> <td></td> <td>(5) MACS1115-WF C3PAR2</td> <td>WFC3/IR, MULTIACCUM, IR-FIX</td> <td>F160W</td> <td>SAMP-SEQ=SPARS 100; NSAMP=7</td> <td></td> <td>Prime + Parallel Group 5-6 in Visit B5</td> <td>[==&gt;]</td> <td>[1]</td> </tr> <tr> <td>7</td> <td></td> <td>(1) MACS1115+0129</td> <td>ACS/WFC, ACCUM, WFC-FIX</td> <td>F435W</td> <td></td> <td>POS TARG -0.3211, -0.1742</td> <td>Prime + Parallel Group 7-8 in Visit B5</td> <td>564 Secs [==&gt;537 Secs ]</td> <td>[1]</td> </tr> <tr> <td>8</td> <td></td> <td>(5) MACS1115-WF C3PAR2</td> <td>WFC3/UVIS, ACCUM, UVIS-FIX</td> <td>F350LP</td> <td>CR-SPLIT=NO</td> <td></td> <td>Prime + Parallel Group 7-8 in Visit B5</td> <td>400 Secs [==&gt;631 Secs ]</td> <td>[1]</td> </tr> </tbody> </table>										#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit	1		(1) MACS1115+0129	ACS/WFC, ACCUM, WFC-FIX	F850LP		POS TARG 0,0; GS ACQ SCENARI O BASE1B3	Prime + Parallel Group 1-2 in Visit B5	525 Secs [==>425 Secs ]	[1]	2		(5) MACS1115-WF C3PAR2	WFC3/IR, MULTIACCUM, IR-FIX	F125W	SAMP-SEQ=SPARS 100; NSAMP=7		Prime + Parallel Group 1-2 in Visit B5	[==>]	[1]	3		(1) MACS1115+0129	ACS/WFC, ACCUM, WFC-FIX	F850LP		POS TARG 0.3211,0 .7917	Prime + Parallel Group 3-4 in Visit B5	507 Secs [==>507.0 Secs ]	[1]	4		(5) MACS1115-WF C3PAR2	WFC3/IR, MULTIACCUM, IR-FIX	F160W	SAMP-SEQ=SPARS 50; NSAMP=13		Prime + Parallel Group 3-4 in Visit B5	[==>]	[1]	5		(1) MACS1115+0129	ACS/WFC, ACCUM, WFC-FIX	F435W		POS TARG 1.0868,0 .5573	Prime + Parallel Group 5-6 in Visit B5	551 Secs [==>445 Secs ]	[1]	6		(5) MACS1115-WF C3PAR2	WFC3/IR, MULTIACCUM, IR-FIX	F160W	SAMP-SEQ=SPARS 100; NSAMP=7		Prime + Parallel Group 5-6 in Visit B5	[==>]	[1]	7		(1) MACS1115+0129	ACS/WFC, ACCUM, WFC-FIX	F435W		POS TARG -0.3211, -0.1742	Prime + Parallel Group 7-8 in Visit B5	564 Secs [==>537 Secs ]	[1]	8		(5) MACS1115-WF C3PAR2	WFC3/UVIS, ACCUM, UVIS-FIX	F350LP	CR-SPLIT=NO		Prime + Parallel Group 7-8 in Visit B5	400 Secs [==>631 Secs ]	[1]
#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit																																																																																											
1		(1) MACS1115+0129	ACS/WFC, ACCUM, WFC-FIX	F850LP		POS TARG 0,0; GS ACQ SCENARI O BASE1B3	Prime + Parallel Group 1-2 in Visit B5	525 Secs [==>425 Secs ]	[1]																																																																																											
2		(5) MACS1115-WF C3PAR2	WFC3/IR, MULTIACCUM, IR-FIX	F125W	SAMP-SEQ=SPARS 100; NSAMP=7		Prime + Parallel Group 1-2 in Visit B5	[==>]	[1]																																																																																											
3		(1) MACS1115+0129	ACS/WFC, ACCUM, WFC-FIX	F850LP		POS TARG 0.3211,0 .7917	Prime + Parallel Group 3-4 in Visit B5	507 Secs [==>507.0 Secs ]	[1]																																																																																											
4		(5) MACS1115-WF C3PAR2	WFC3/IR, MULTIACCUM, IR-FIX	F160W	SAMP-SEQ=SPARS 50; NSAMP=13		Prime + Parallel Group 3-4 in Visit B5	[==>]	[1]																																																																																											
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7		(1) MACS1115+0129	ACS/WFC, ACCUM, WFC-FIX	F435W		POS TARG -0.3211, -0.1742	Prime + Parallel Group 7-8 in Visit B5	564 Secs [==>537 Secs ]	[1]																																																																																											
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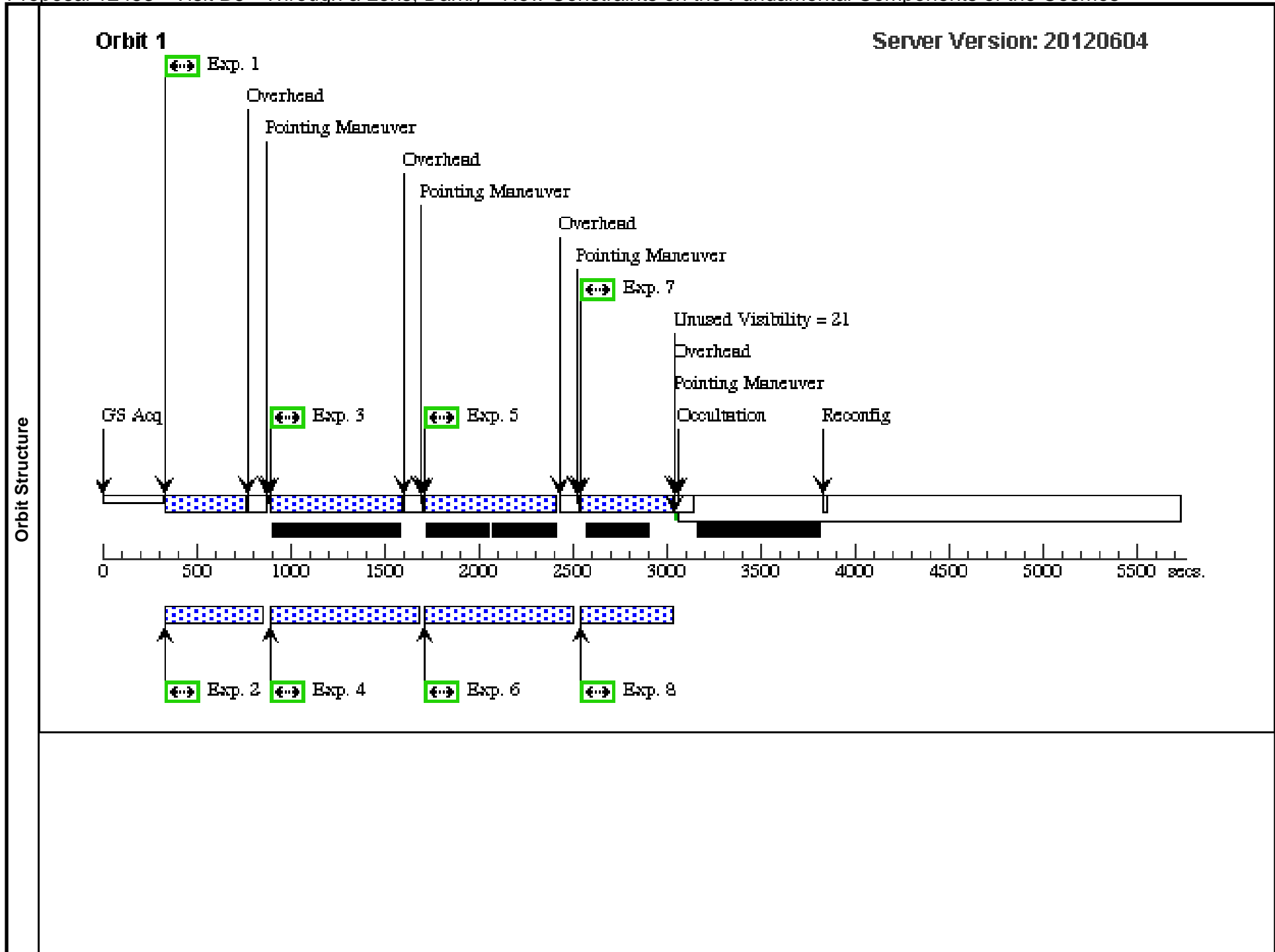
Proposal 12453 - Visit B6 - Through a Lens, Darkly - New Constraints on the Fundamental Components of the Cosmos

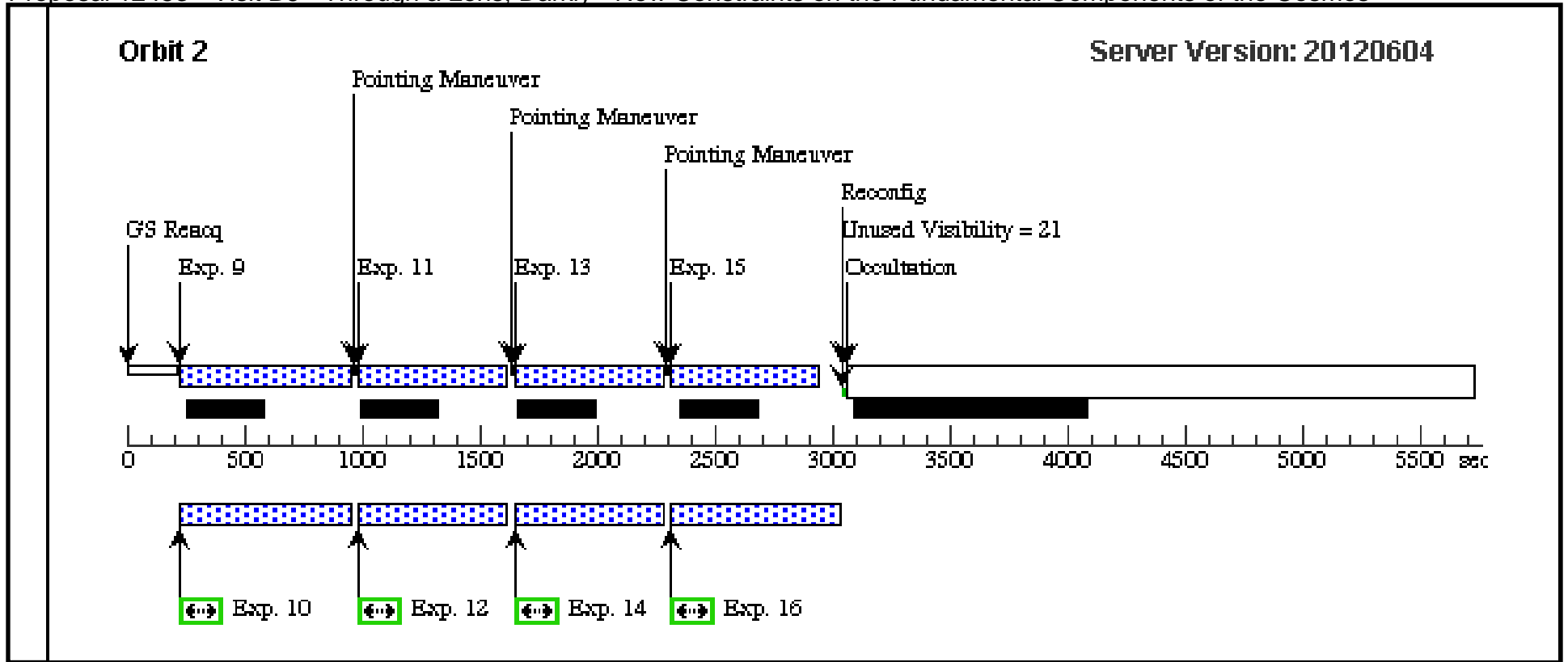
Wed Jul 04 02:08:14 GMT 2012

<b>Visit</b>	<p><b>Proposal 12453, Visit B6, completed</b></p> <p><b>Diagnostic Status: Warning</b></p> <p>Scientific Instruments: WFC3/IR, WFC3/UVIS, ACS/WFC</p> <p>Special Requirements: SCHED 80%; SAME ORIENT AS B0; SEQ B5,B6 WITHIN 1.2 Orbits</p> <p><i>Comments: Visits B5-B6 represent epoch 3 (at orient 2) and should be taken concurrently</i></p>					
	<p>(Visit B6) Warning (Form): The proposal is part of a large program (100 orbits or more in one cycle) and so should use Schedulability 100.</p> <p>(Visit B6) Warning (Orbit Planner): PARALLELS SIGNIFICANTLY EXTEND ALIGNMENT TIME</p>					
<b>Diagnosics</b>						
<b>Fixed Targets</b>	<b>#</b>	<b>Name</b>	<b>Target Coordinates</b>	<b>Targ. Coord. Corrections</b>	<b>Fluxes</b>	<b>Miscellaneous</b>
	(1)	MACS1115+0129	RA: 11 15 51.9000 (168.9662500d) Dec: +01 29 55.10 (1.49864d) Equinox: J2000		V=15	Reference Frame: ICRS
	(4)	MACS1115-ACSPAR2	RA: 11 15 51.9000 (168.9662500d) Dec: +01 29 55.10 (1.49864d) Equinox: J2000		V=15	Reference Frame: ICRS

Proposal 12453 - Visit B6 - Through a Lens, Darkly - New Constraints on the Fundamental Components of the Cosmos

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(1) MACS1115+012 9	WFC3/UVIS, ACCUM, UVIS-FIX	F336W	CR-SPLIT=NO	POS TARG 0,0; GS ACQ SCENARI O BASE1B3	Prime + Parallel Gro up 1-2 in Visit B6	600 Secs [==>399 Secs ]	[1]
	2		(4) MACS1115-ACS PAR2	ACS/WFC, ACCUM, WFC-FIX	F850LP			Prime + Parallel Gro up 1-2 in Visit B6	600 Secs [==>319 Secs ]	[1]
	3		(1) MACS1115+012 9	WFC3/UVIS, ACCUM, UVIS-FIX	F336W	CR-SPLIT=NO	POS TARG 0.0594,- 0.0552	Prime + Parallel Gro up 3-4 in Visit B6	600 Secs [==>699.0 Secs ]	[1]
	4		(4) MACS1115-ACS PAR2	ACS/WFC, ACCUM, WFC-FIX	F850LP			Prime + Parallel Gro up 3-4 in Visit B6	600 Secs [==>669 Secs ]	[1]
	5		(1) MACS1115+012 9	WFC3/UVIS, ACCUM, UVIS-FIX	F336W	CR-SPLIT=NO	POS TARG 0.1188,0 .06735	Prime + Parallel Gro up 5-6 in Visit B6	600 Secs [==>699.0 Secs ]	[1]
	6		(4) MACS1115-ACS PAR2	ACS/WFC, ACCUM, WFC-FIX	F850LP			Prime + Parallel Gro up 5-6 in Visit B6	600 Secs [==>669 Secs ]	[1]
	7		(1) MACS1115+012 9	WFC3/UVIS, ACCUM, UVIS-FIX	F336W	CR-SPLIT=NO	POS TARG -0.0594, 0.15395	Prime + Parallel Gro up 7-8 in Visit B6	600 Secs [==>490 Secs ]	[1]
	8		(4) MACS1115-ACS PAR2	ACS/WFC, ACCUM, WFC-FIX	F775W			Prime + Parallel Gro up 7-8 in Visit B6	600 Secs [==>339 Secs ]	[1]
	9		(1) MACS1115+012 9	WFC3/IR, MULTIACCUM, IR-FIX	F160W	SAMP-SEQ=SPARS 100; NSAMP=8	POS TARG 0,0	Prime + Parallel Gro up 9-10 in Visit B6	[==>]	[2]
	10		(4) MACS1115-ACS PAR2	ACS/WFC, ACCUM, WFC-FIX	F850LP			Prime + Parallel Gro up 9-10 in Visit B6	525 Secs [==>581.0 Secs ]	[2]
	11		(1) MACS1115+012 9	WFC3/IR, MULTIACCUM, IR-FIX	F160W	SAMP-SEQ=SPARS 100; NSAMP=7	POS TARG -1.1517 5.042385	Prime + Parallel Gro up 11-12 in Visit B6	[==>]	[2]
	12		(4) MACS1115-ACS PAR2	ACS/WFC, ACCUM, WFC-FIX	F850LP			Prime + Parallel Gro up 11-12 in Visit B6	607 Secs [==>507.0 Secs ]	[2]
	13		(1) MACS1115+012 9	WFC3/IR, MULTIACCUM, IR-FIX	F105W	SAMP-SEQ=SPARS 100; NSAMP=7	POS TARG -0.813,- 0.30275	Prime + Parallel Gro up 13-14 in Visit B6	[==>]	[2]
	14		(4) MACS1115-ACS PAR2	ACS/WFC, ACCUM, WFC-FIX	F850LP			Prime + Parallel Gro up 13-14 in Visit B6	481 Secs [==>507.0 Secs ]	[2]
	15		(1) MACS1115+012 9	WFC3/IR, MULTIACCUM, IR-FIX	F105W	SAMP-SEQ=SPARS 100; NSAMP=7	POS TARG 0.33875, -0.1211	Prime + Parallel Gro up 15-16 in Visit B6	[==>]	[2]
16		(4) MACS1115-ACS PAR2	ACS/WFC, ACCUM, WFC-FIX	F775W			Prime + Parallel Gro up 15-16 in Visit B6	576 Secs [==>568.0 Secs ]	[2]	

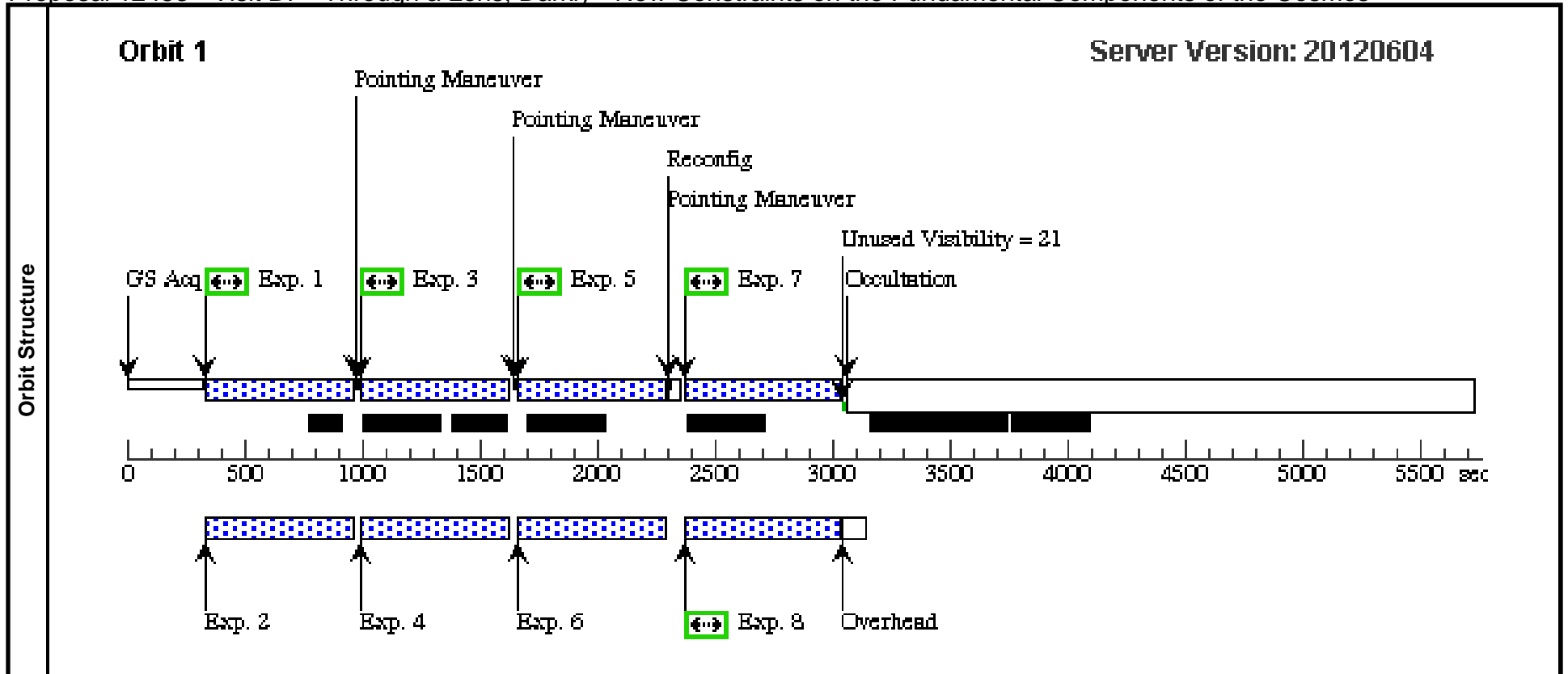




Proposal 12453 - Visit B7 - Through a Lens, Darkly - New Constraints on the Fundamental Components of the Cosmos

Wed Jul 04 02:08:16 GMT 2012

<b>Visit</b>	<b>Proposal 12453, Visit B7, completed</b> <b>Diagnostic Status: Warning</b> Scientific Instruments: WFC3/IR, WFC3/UVIS, ACS/WFC Special Requirements: SCHED 80%; SAME ORIENT AS B0; AFTER B0 BY 70 D TO 72 D Comments: Visits B7-B8 represent epoch 4 (at orient 2) and should be taken concurrently									
	(Visit B7) Warning (Form): The proposal is part of a large program (100 orbits or more in one cycle) and so should use Schedulability 100.									
<b>Fixed Targets</b>	<b>#</b>	<b>Name</b>	<b>Target Coordinates</b>	<b>Targ. Coord. Corrections</b>			<b>Fluxes</b>	<b>Miscellaneous</b>		
	(1)	MACS1115+0129	RA: 11 15 51.9000 (168.9662500d) Dec: +01 29 55.10 (1.49864d) Equinox: J2000				V=15	Reference Frame: ICRS		
(5)	MACS1115-WFC3PAR2	RA: 11 15 51.9000 (168.9662500d) Dec: +01 29 55.10 (1.49864d) Equinox: J2000				V=15	Reference Frame: ICRS			
<b>Exposures</b>	<b>#</b>	<b>Label</b>	<b>Target</b>	<b>Config,Mode,Aperture</b>	<b>Spectral Els.</b>	<b>Opt. Params.</b>	<b>Special Reqs.</b>	<b>Groups</b>	<b>Exp. Time/[Actual Dur.]</b>	<b>Orbit</b>
	1	(1) MACS1115+0129	(1) MACS1115+0129	ACS/WFC, ACCUM, WFC-FIX	F475W		POS TARG 0,0; GS ACQ SCENARI O BASE1B3	Prime + Parallel Group 1-2 in Visit B7	525 Secs [==>425 Secs ]	[1]
	2	(5) MACS1115-WF C3PAR2	(5) MACS1115-WF C3PAR2	WFC3/IR, MULTIACCUM, IR-FIX	F125W	SAMP-SEQ=SPARS 100; NSAMP=7		Prime + Parallel Group 1-2 in Visit B7	[==>]	[1]
	3	(1) MACS1115+0129	(1) MACS1115+0129	ACS/WFC, ACCUM, WFC-FIX	F475W		POS TARG 0.3211,0 .7917	Prime + Parallel Group 3-4 in Visit B7	507 Secs [==>507.0 Secs ]	[1]
	4	(5) MACS1115-WF C3PAR2	(5) MACS1115-WF C3PAR2	WFC3/IR, MULTIACCUM, IR-FIX	F160W	SAMP-SEQ=SPARS 50; NSAMP=13		Prime + Parallel Group 3-4 in Visit B7	[==>]	[1]
	5	(1) MACS1115+0129	(1) MACS1115+0129	ACS/WFC, ACCUM, WFC-FIX	F850LP		POS TARG 1.0868,0 .5573	Prime + Parallel Group 5-6 in Visit B7	551 Secs [==>469.0 Secs ]	[1]
	6	(5) MACS1115-WF C3PAR2	(5) MACS1115-WF C3PAR2	WFC3/IR, MULTIACCUM, IR-FIX	F160W	SAMP-SEQ=SPARS 100; NSAMP=7		Prime + Parallel Group 5-6 in Visit B7	[==>]	[1]
	7	(1) MACS1115+0129	(1) MACS1115+0129	ACS/WFC, ACCUM, WFC-FIX	F850LP		POS TARG -0.3211, -0.1742	Prime + Parallel Group 7-8 in Visit B7	564 Secs [==>537 Secs ]	[1]
8	(5) MACS1115-WF C3PAR2	(5) MACS1115-WF C3PAR2	WFC3/UVIS, ACCUM, UVIS-FIX	F350LP	CR-SPLIT=NO		Prime + Parallel Group 7-8 in Visit B7	400 Secs [==>631 Secs ]	[1]	



Proposal 12453 - Visit B8 - Through a Lens, Darkly - New Constraints on the Fundamental Components of the Cosmos

Wed Jul 04 02:08:17 GMT 2012

Visit	<b>Proposal 12453, Visit B8, completed</b> <b>Diagnostic Status: Warning</b> Scientific Instruments: WFC3/IR, ACS/WFC Special Requirements: SCHED 80%; SAME ORIENT AS B0; SEQ B7,B8 WITHIN 1.2 Orbits <i>Comments: Visits B7-B8 represent epoch 4 (at orient 2) and should be taken concurrently</i>									
	Diagnostics	(Visit B8) Warning (Form): The proposal is part of a large program (100 orbits or more in one cycle) and so should use Schedulability 100.								
Fixed Targets		#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous			
		(1)	MACS1115+0129	RA: 11 15 51.9000 (168.9662500d) Dec: +01 29 55.10 (1.49864d) Equinox: J2000		V=15	Reference Frame: ICRS			
	(4)	MACS1115-ACSPAR2	RA: 11 15 51.9000 (168.9662500d) Dec: +01 29 55.10 (1.49864d) Equinox: J2000		V=15	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(1) MACS1115+0129	WFC3/IR, MULTIACCUM, IR-FIX	F160W	SAMP-SEQ=SPARS 100; NSAMP=6	POS TARG 0,0; GS ACQ SCENARI O BASE1B3	Prime + Parallel Group 1-2 in Visit B8	[==>]	[1]
	2		(4) MACS1115-ACS PAR2	ACS/WFC, ACCUM, WFC-FIX	F850LP			Prime + Parallel Group 1-2 in Visit B8	525 Secs [==>325.0 Secs ]	[1]
	3		(1) MACS1115+0129	WFC3/IR, MULTIACCUM, IR-FIX	F160W	SAMP-SEQ=SPARS 100; NSAMP=5	POS TARG -1.1517 5,0.42385	Prime + Parallel Group 3-4 in Visit B8	[==>]	[1]
	4		(4) MACS1115-ACS PAR2	ACS/WFC, ACCUM, WFC-FIX	F850LP			Prime + Parallel Group 3-4 in Visit B8	607 Secs [==>339 Secs ]	[1]
	5		(1) MACS1115+0129	WFC3/IR, MULTIACCUM, IR-FIX	F160W	SAMP-SEQ=SPARS 100; NSAMP=5	POS TARG -0.813,- 0.30275	Prime + Parallel Group 5-6 in Visit B8	[==>]	[1]
	6		(4) MACS1115-ACS PAR2	ACS/WFC, ACCUM, WFC-FIX	F850LP			Prime + Parallel Group 5-6 in Visit B8	582 Secs [==>339 Secs ]	[1]
	7		(1) MACS1115+0129	WFC3/IR, MULTIACCUM, IR-FIX	F125W	SAMP-SEQ=SPARS 100; NSAMP=6	POS TARG 0.33875, -0.1211	Prime + Parallel Group 7-8 in Visit B8	[==>]	[1]
	8		(4) MACS1115-ACS PAR2	ACS/WFC, ACCUM, WFC-FIX	F850LP			Prime + Parallel Group 7-8 in Visit B8	587 Secs [==>407.0 Secs ]	[1]
	9		(1) MACS1115+0129	WFC3/IR, MULTIACCUM, IR-FIX	F125W	SAMP-SEQ=SPARS 100; NSAMP=6	POS TARG -0.813,- 0.30275	Prime + Parallel Group 9-10 in Visit B8	[==>]	[1]
10		(4) MACS1115-ACS PAR2	ACS/WFC, ACCUM, WFC-FIX	F775W			Prime + Parallel Group 9-10 in Visit B8	587 Secs [==>428 Secs ]	[1]	

