



# 12104 - Through a Lens, Darkly - New Constraints on the Fundamental Components of the Cosmos

Cycle: 18, Proposal Category: GO

(Treasury)

(Availability Mode: SUPPORTED)

## INVESTIGATORS

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<i>Name</i>	<i>Institution</i>	<i>E-Mail</i>
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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) RXJ1347-1145 (3) RXJ1347-1145-WFC3PAR1	ACS/WFC WFC3/IR WFC3/UVIS	1	03-Jul-2012 21:48:52.0	yes
A2	(1) RXJ1347-1145 (2) RXJ1347-1145-ACSPAR1	ACS/WFC WFC3/IR	1	03-Jul-2012 21:49:05.0	yes
A3	(1) RXJ1347-1145 (3) RXJ1347-1145-WFC3PAR1	ACS/WFC WFC3/IR WFC3/UVIS	1	03-Jul-2012 21:49:17.0	yes
A4	(1) RXJ1347-1145 (2) RXJ1347-1145-ACSPAR1	ACS/WFC WFC3/IR	1	03-Jul-2012 21:49:28.0	yes
A6	(1) RXJ1347-1145 (2) RXJ1347-1145-ACSPAR1	ACS/WFC WFC3/UVIS	2	03-Jul-2012 21:49:44.0	yes
A9	(1) RXJ1347-1145 (2) RXJ1347-1145-ACSPAR1	ACS/WFC WFC3/IR	1	03-Jul-2012 21:49:57.0	yes
B0	(1) RXJ1347-1145 (5) RXJ1347-1145-WFC3PAR2	ACS/WFC WFC3/IR WFC3/UVIS	1	03-Jul-2012 21:50:07.0	yes

<i>Visit</i>	<i>Targets used in Visit</i>	<i>Configurations used in Visit</i>	<i>Orbits Used</i>	<i>Last Orbit Planner Run</i>	<i>OP Current with Visit?</i>
B1	(1) RXJ1347-1145 (4) RXJ1347-1145-ACSPAR2	ACS/WFC WFC3/IR	1	03-Jul-2012 21:50:17.0	yes
B3	(1) RXJ1347-1145 (4) RXJ1347-1145-ACSPAR2	ACS/WFC WFC3/UVIS	2	03-Jul-2012 21:50:32.0	yes
B6	(1) RXJ1347-1145 (4) RXJ1347-1145-ACSPAR2	ACS/WFC WFC3/IR WFC3/UVIS	2	03-Jul-2012 21:50:53.0	yes
B7	(1) RXJ1347-1145 (5) RXJ1347-1145-WFC3PAR2	ACS/WFC WFC3/IR WFC3/UVIS	1	03-Jul-2012 21:51:04.0	yes
B8	(1) RXJ1347-1145 (4) RXJ1347-1145-ACSPAR2	ACS/WFC WFC3/IR	1	03-Jul-2012 21:51:14.0	yes

15 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 LambdaCDM model. Detailed maps of internal structure will be enabled by ~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.

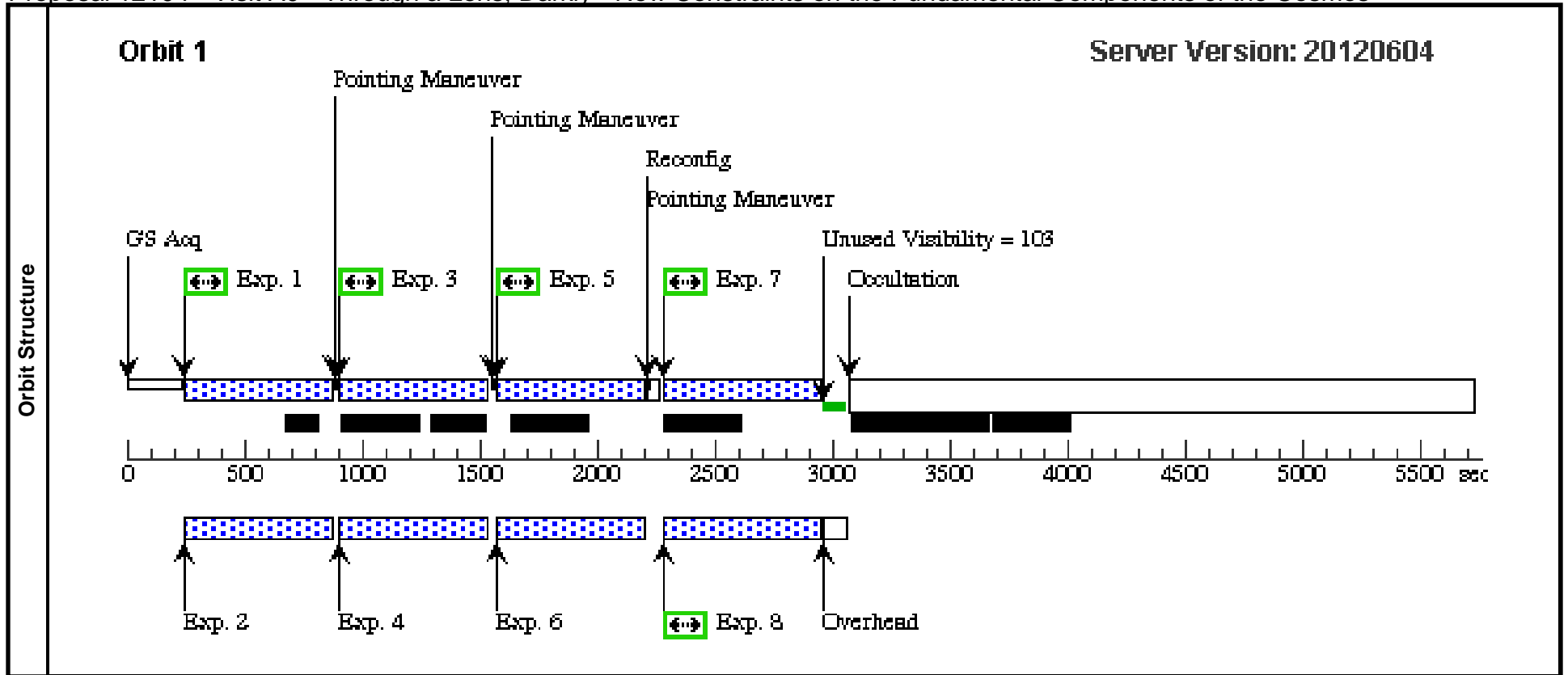
**OBSERVING DESCRIPTION**

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 12104 - Visit A0 - Through a Lens, Darkly - New Constraints on the Fundamental Components of the Cosmos

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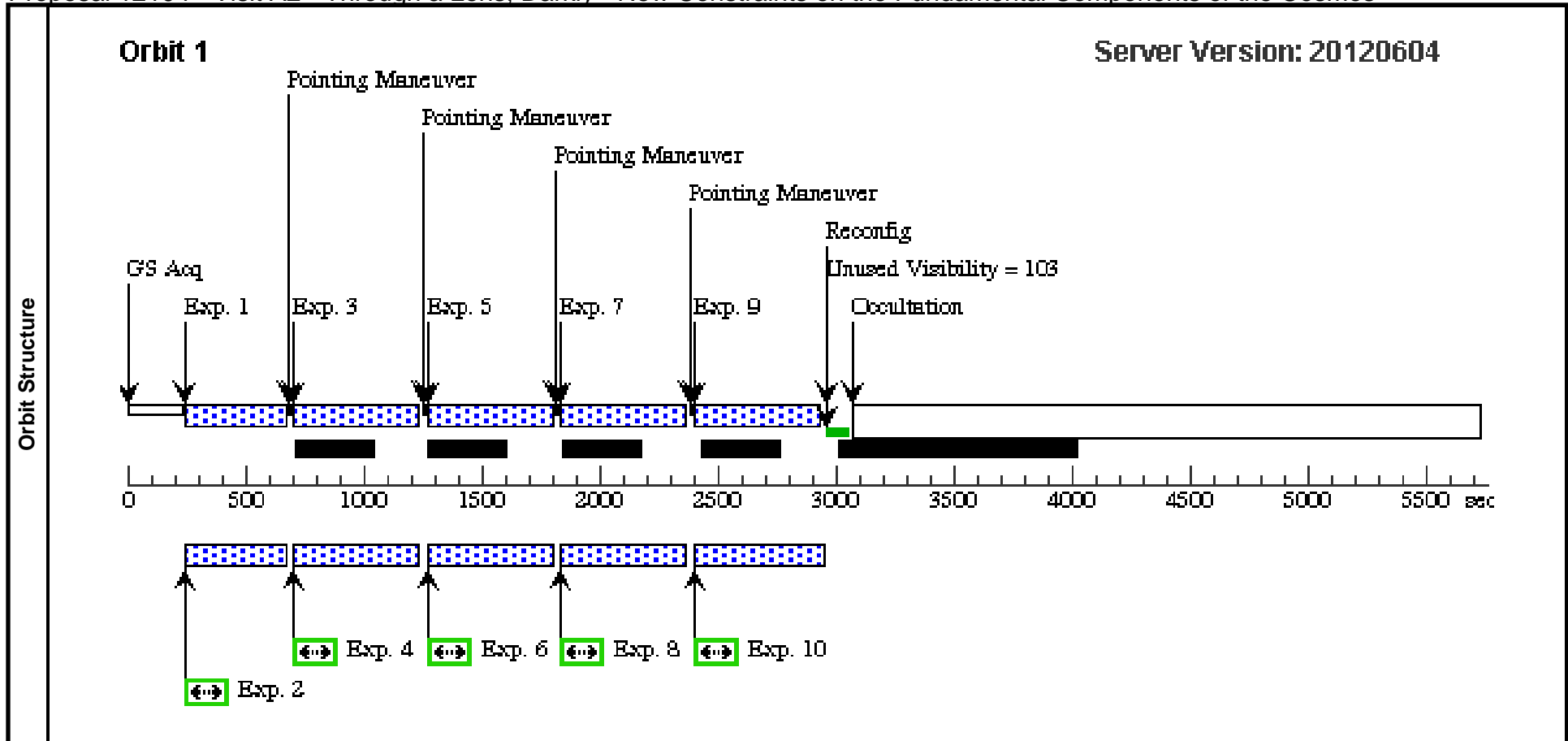
<b>Visit</b>	<b>Proposal 12104, Visit A0, completed</b> <b>Diagnostic Status: Warning</b> Scientific Instruments: WFC3/IR, WFC3/UVIS, ACS/WFC Special Requirements: SCHED 80%; ORIENT 0.0D TO 88 D; ORIENT 144D TO 262 D; ORIENT 330D TO 359 D Comments: Visits A0-A2 represent epoch 1 (at orient 1) and should be taken concurrently. Absolute ORIENT constraints are to avoid a bright star in the parallel fields.									
	(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>Fixed Targets</b>	<b>#</b>	<b>Name</b>	<b>Target Coordinates</b>	<b>Targ. Coord. Corrections</b>	<b>Fluxes</b>	<b>Miscellaneous</b>				
	(1)	RXJ1347-1145	RA: 13 47 32.2800 (206.8845000d) Dec: -11 45 12.81 (-11.75356d) Equinox: J2000		V=15	Reference Frame: ICRS				
(3)	RXJ1347-1145-WFC3PAR1	RA: 13 47 32.2800 (206.8845000d) Dec: -11 45 12.81 (-11.75356d) 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) RXJ1347-1145	ACS/WFC, ACCUM, WFC-FIX	F625W			POS TARG 0,0; GS ACQ SCENARI O SINGLE	Prime + Parallel Group 1-2 in Visit A0	525 Secs [==>425 Secs ]	[1]
	2	(3) RXJ1347-1145-WFC3PAR1	WFC3/IR, MULTIACCUM, IR-FIX	F125W		SAMP-SEQ=SPARS 100; NSAMP=7		Prime + Parallel Group 1-2 in Visit A0	[==>]	[1]
	3	(1) RXJ1347-1145	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) RXJ1347-1145-WFC3PAR1	WFC3/IR, MULTIACCUM, IR-FIX	F160W		SAMP-SEQ=SPARS 50; NSAMP=13		Prime + Parallel Group 3-4 in Visit A0	[==>]	[1]
	5	(1) RXJ1347-1145	ACS/WFC, ACCUM, WFC-FIX	F435W			POS TARG 0.1729,- 0.0848	Prime + Parallel Group 5-6 in Visit A0	551 Secs [==>453 Secs ]	[1]
	6	(3) RXJ1347-1145-WFC3PAR1	WFC3/IR, MULTIACCUM, IR-FIX	F160W		SAMP-SEQ=SPARS 100; NSAMP=7		Prime + Parallel Group 5-6 in Visit A0	[==>]	[1]
	7	(1) RXJ1347-1145	ACS/WFC, ACCUM, WFC-FIX	F435W			POS TARG 0.247,0. 2423	Prime + Parallel Group 7-8 in Visit A0	564 Secs [==>549 Secs ]	[1]
8	(3) RXJ1347-1145-WFC3PAR1	WFC3/UVIS, ACCUM, UVIS-FIX	F350LP		CR-SPLIT=NO		Prime + Parallel Group 7-8 in Visit A0	400 Secs [==>643 Secs ]	[1]	



Proposal 12104 - Visit A2 - Through a Lens, Darkly - New Constraints on the Fundamental Components of the Cosmos

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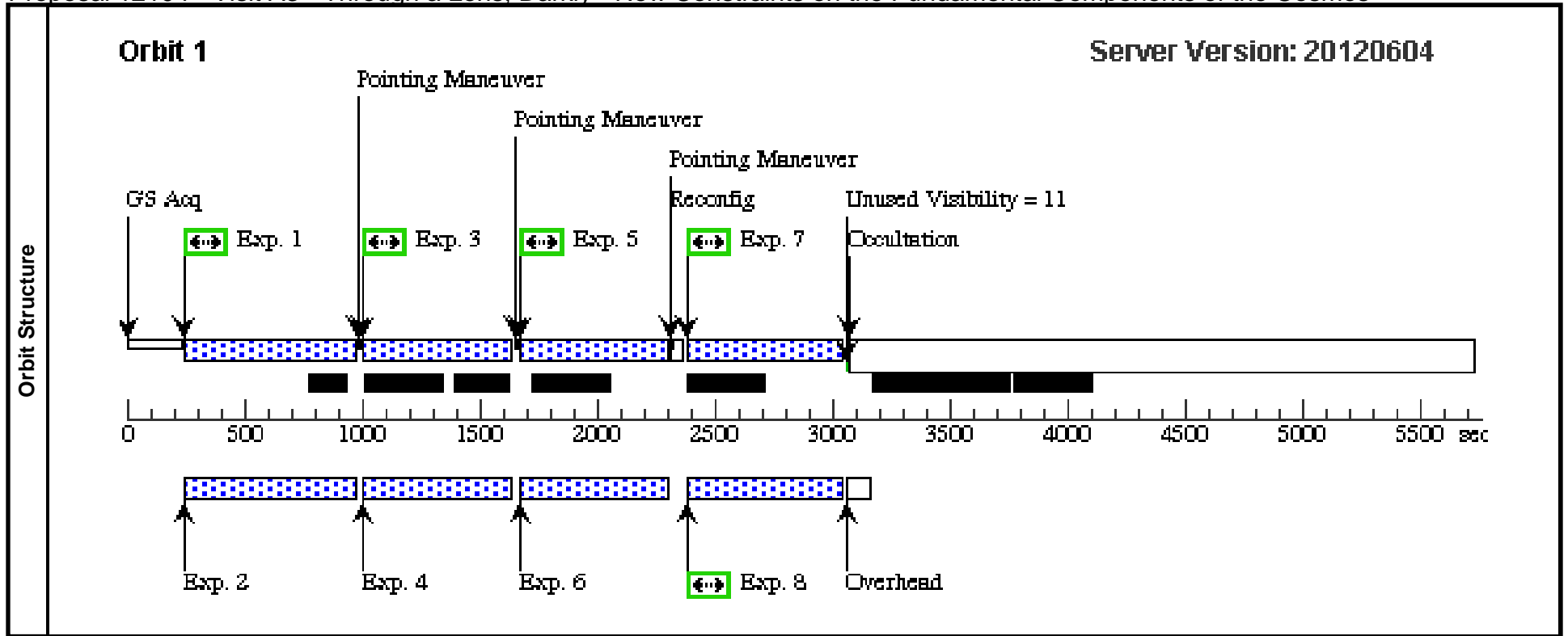
<b>Visit</b>	<b>Proposal 12104, Visit A2, completed</b> <b>Diagnostic Status: Warning</b> Scientific Instruments: WFC3/IR, ACS/WFC Special Requirements: SCHED 80%; SAME ORIENT AS A0; SEQ A0,A2 WITHIN 1.2 Orbits <i>Comments: Visits A0-A2 represent epoch 1 (at orient 1) and should be taken concurrently</i>									
	(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.									
<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)	RXJ1347-1145	RA: 13 47 32.2800 (206.8845000d) Dec: -11 45 12.81 (-11.75356d) Equinox: J2000		V=15	Reference Frame: ICRS				
(2)	RXJ1347-1145-ACSPAR1	RA: 13 47 32.2800 (206.8845000d) Dec: -11 45 12.81 (-11.75356d) 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) RXJ1347-1145	WFC3/IR, MULTIACCUM, IR-FIX	F110W	SAMP-SEQ=SPARS 100; NSAMP=5	POS TARG 0,0; GS ACQ SCENARI O SINGLE	Prime + Parallel Group 1-2 in Visit A2	[==>]	[1]	
	2	(2) RXJ1347-1145-A CSPAR1	ACS/WFC, ACCUM, WFC-FIX	F850LP			Prime + Parallel Group 1-2 in Visit A2	525 Secs [==>225.0 Secs ]	[1]	
	3	(1) RXJ1347-1145	WFC3/IR, MULTIACCUM, IR-FIX	F110W	SAMP-SEQ=SPARS 100; NSAMP=6	POS TARG 0.20325, -0.18165	Prime + Parallel Group 3-4 in Visit A2	[==>]	[1]	
	4	(2) RXJ1347-1145-A CSPAR1	ACS/WFC, ACCUM, WFC-FIX	F850LP			Prime + Parallel Group 3-4 in Visit A2	607 Secs [==>407 Secs ]	[1]	
	5	(1) RXJ1347-1145	WFC3/IR, MULTIACCUM, IR-FIX	F110W	SAMP-SEQ=SPARS 100; NSAMP=6	POS TARG 0.47425, 0.6055	Prime + Parallel Group 5-6 in Visit A2	[==>]	[1]	
	6	(2) RXJ1347-1145-A CSPAR1	ACS/WFC, ACCUM, WFC-FIX	F850LP			Prime + Parallel Group 5-6 in Visit A2	582 Secs [==>407 Secs ]	[1]	
	7	(1) RXJ1347-1145	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) RXJ1347-1145-A CSPAR1	ACS/WFC, ACCUM, WFC-FIX	F850LP			Prime + Parallel Group 7-8 in Visit A2	587 Secs [==>407.0 Secs ]	[1]	
	9	(1) RXJ1347-1145	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) RXJ1347-1145-A CSPAR1	ACS/WFC, ACCUM, WFC-FIX	F775W			Prime + Parallel Group 9-10 in Visit A2	587 Secs [==>404.0 Secs ]	[1]		



Proposal 12104 - Visit A3 - Through a Lens, Darkly - New Constraints on the Fundamental Components of the Cosmos

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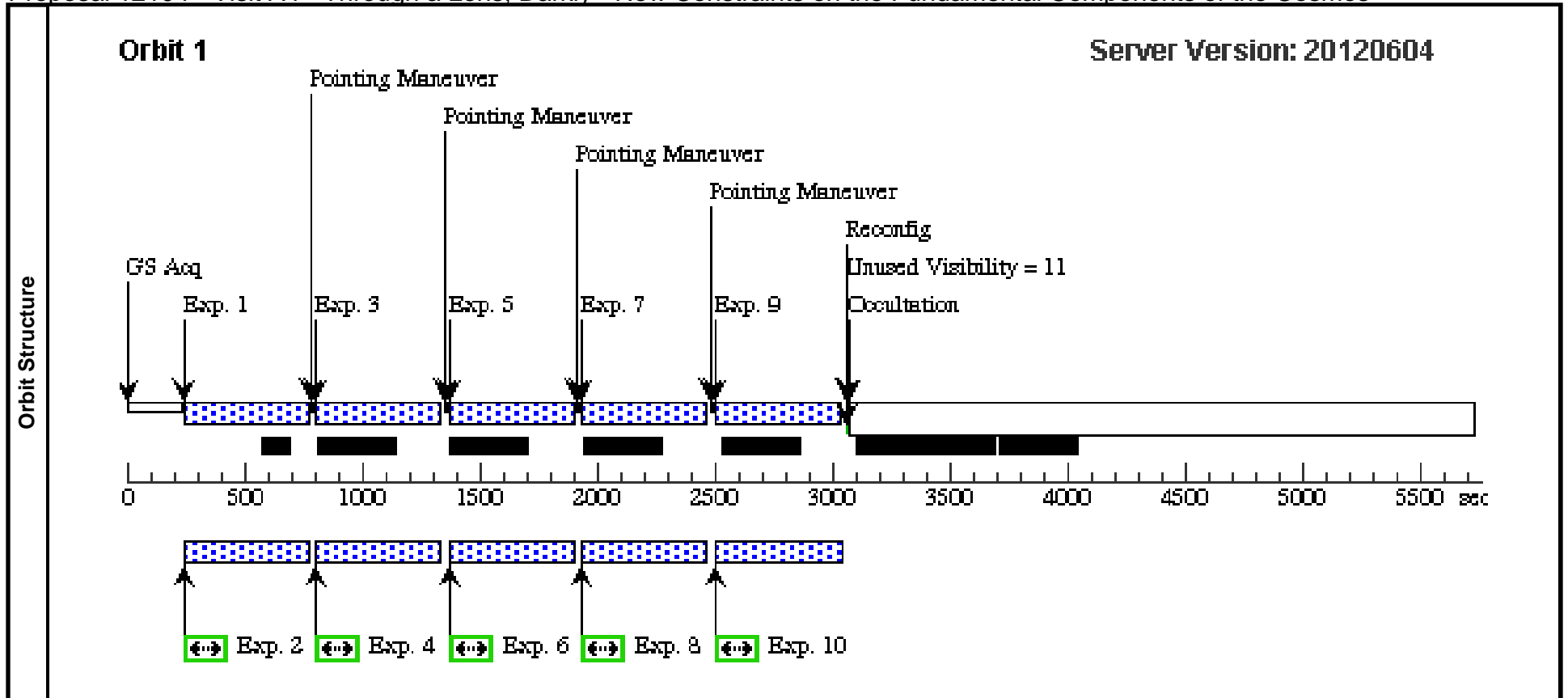
<b>Visit</b>	<b>Proposal 12104, Visit A3, completed</b> <b>Diagnostic Status: Warning</b> Scientific Instruments: WFC3/IR, WFC3/UVIS, ACS/WFC Special Requirements: SCHED 80%; SAME ORIENT AS A0; AFTER A0 BY 27 D TO 29 D <i>Comments: Visits A3-A4 represent epoch 2 (at orient 1) and should be taken concurrently</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)	RXJ1347-1145	RA: 13 47 32.2800 (206.8845000d) Dec: -11 45 12.81 (-11.75356d) Equinox: J2000				V=15	Reference Frame: ICRS		
(3)	RXJ1347-1145-WFC3PAR1	RA: 13 47 32.2800 (206.8845000d) Dec: -11 45 12.81 (-11.75356d) 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) RXJ1347-1145	ACS/WFC, ACCUM, WFC-FIX	F775W		POS TARG 0,0; GS ACQ SCENARI O SINGLE	Prime + Parallel Group 1-2 in Visit A3	525 Secs [==>525 Secs ]	[1]
	2		(3) RXJ1347-1145-WFC3PAR1	WFC3/IR, MULTIACCUM, IR-FIX	F125W	SAMP-SEQ=SPARS 100; NSAMP=8		Prime + Parallel Group 1-2 in Visit A3	[==>]	[1]
	3		(1) RXJ1347-1145	ACS/WFC, ACCUM, WFC-FIX	F775W		POS TARG 0.3211,0 .7917	Prime + Parallel Group 3-4 in Visit A3	507 Secs [==>507.0 Secs ]	[1]
	4		(3) RXJ1347-1145-WFC3PAR1	WFC3/IR, MULTIACCUM, IR-FIX	F160W	SAMP-SEQ=SPARS 50; NSAMP=13		Prime + Parallel Group 3-4 in Visit A3	[==>]	[1]
	5		(1) RXJ1347-1145	ACS/WFC, ACCUM, WFC-FIX	F606W		POS TARG 1.0868,0 .5573	Prime + Parallel Group 5-6 in Visit A3	551 Secs [==>466 Secs ]	[1]
	6		(3) RXJ1347-1145-WFC3PAR1	WFC3/IR, MULTIACCUM, IR-FIX	F160W	SAMP-SEQ=SPARS 100; NSAMP=7		Prime + Parallel Group 5-6 in Visit A3	[==>]	[1]
	7		(1) RXJ1347-1145	ACS/WFC, ACCUM, WFC-FIX	F606W		POS TARG -0.3211, -0.1742	Prime + Parallel Group 7-8 in Visit A3	564 Secs [==>541 Secs ]	[1]
	8		(3) RXJ1347-1145-WFC3PAR1	WFC3/UVIS, ACCUM, UVIS-FIX	F350LP	CR-SPLIT=NO		Prime + Parallel Group 7-8 in Visit A3	400 Secs [==>635 Secs ]	[1]



Proposal 12104 - Visit A4 - Through a Lens, Darkly - New Constraints on the Fundamental Components of the Cosmos

Wed Jul 04 01:51:29 GMT 2012

<b>Visit</b>	<b>Proposal 12104, 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)	RXJ1347-1145	RA: 13 47 32.2800 (206.8845000d) Dec: -11 45 12.81 (-11.75356d) Equinox: J2000		V=15	Reference Frame: ICRS				
(2)	RXJ1347-1145-ACSPAR1	RA: 13 47 32.2800 (206.8845000d) Dec: -11 45 12.81 (-11.75356d) 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) RXJ1347-1145	WFC3/IR, MULTIACCUM, IR-FIX	F160W	SAMP-SEQ=SPARS 100; NSAMP=6	POS TARG 0,0; GS ACQ SCENARI O SINGLE	Prime + Parallel Group 1-2 in Visit A4	[==>]	[1]	
	2	(2) RXJ1347-1145-A CSPAR1	ACS/WFC, ACCUM, WFC-FIX	F850LP			Prime + Parallel Group 1-2 in Visit A4	525 Secs [==>325 Secs ]	[1]	
	3	(1) RXJ1347-1145	WFC3/IR, MULTIACCUM, IR-FIX	F160W	SAMP-SEQ=SPARS 100; NSAMP=6	POS TARG -1.1517 5,0.42385	Prime + Parallel Group 3-4 in Visit A4	[==>]	[1]	
	4	(2) RXJ1347-1145-A CSPAR1	ACS/WFC, ACCUM, WFC-FIX	F850LP			Prime + Parallel Group 3-4 in Visit A4	607 Secs [==>407 Secs ]	[1]	
	5	(1) RXJ1347-1145	WFC3/IR, MULTIACCUM, IR-FIX	F160W	SAMP-SEQ=SPARS 100; NSAMP=6	POS TARG -0.813,- 0.30275	Prime + Parallel Group 5-6 in Visit A4	[==>]	[1]	
	6	(2) RXJ1347-1145-A CSPAR1	ACS/WFC, ACCUM, WFC-FIX	F850LP			Prime + Parallel Group 5-6 in Visit A4	582 Secs [==>407.0 Secs ]	[1]	
	7	(1) RXJ1347-1145	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) RXJ1347-1145-A CSPAR1	ACS/WFC, ACCUM, WFC-FIX	F850LP			Prime + Parallel Group 7-8 in Visit A4	587 Secs [==>407.0 Secs ]	[1]	
	9	(1) RXJ1347-1145	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) RXJ1347-1145-A CSPAR1	ACS/WFC, ACCUM, WFC-FIX	F775W			Prime + Parallel Group 9-10 in Visit A4	587 Secs [==>396 Secs ]	[1]		



Proposal 12104 - Visit A6 - Through a Lens, Darkly - New Constraints on the Fundamental Components of the Cosmos

Wed Jul 04 01:51:30 GMT 2012

<b>Visit</b>	<p><b>Proposal 12104, 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; AFTER A0 BY 63 D TO 65 D</p> <p><i>Comments: Visits A5-A7 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)	RXJ1347-1145	RA: 13 47 32.2800 (206.8845000d) Dec: -11 45 12.81 (-11.75356d) Equinox: J2000		V=15	Reference Frame: ICRS
	(2)	RXJ1347-1145-ACSPAR1	RA: 13 47 32.2800 (206.8845000d) Dec: -11 45 12.81 (-11.75356d) Equinox: J2000		V=15	Reference Frame: ICRS

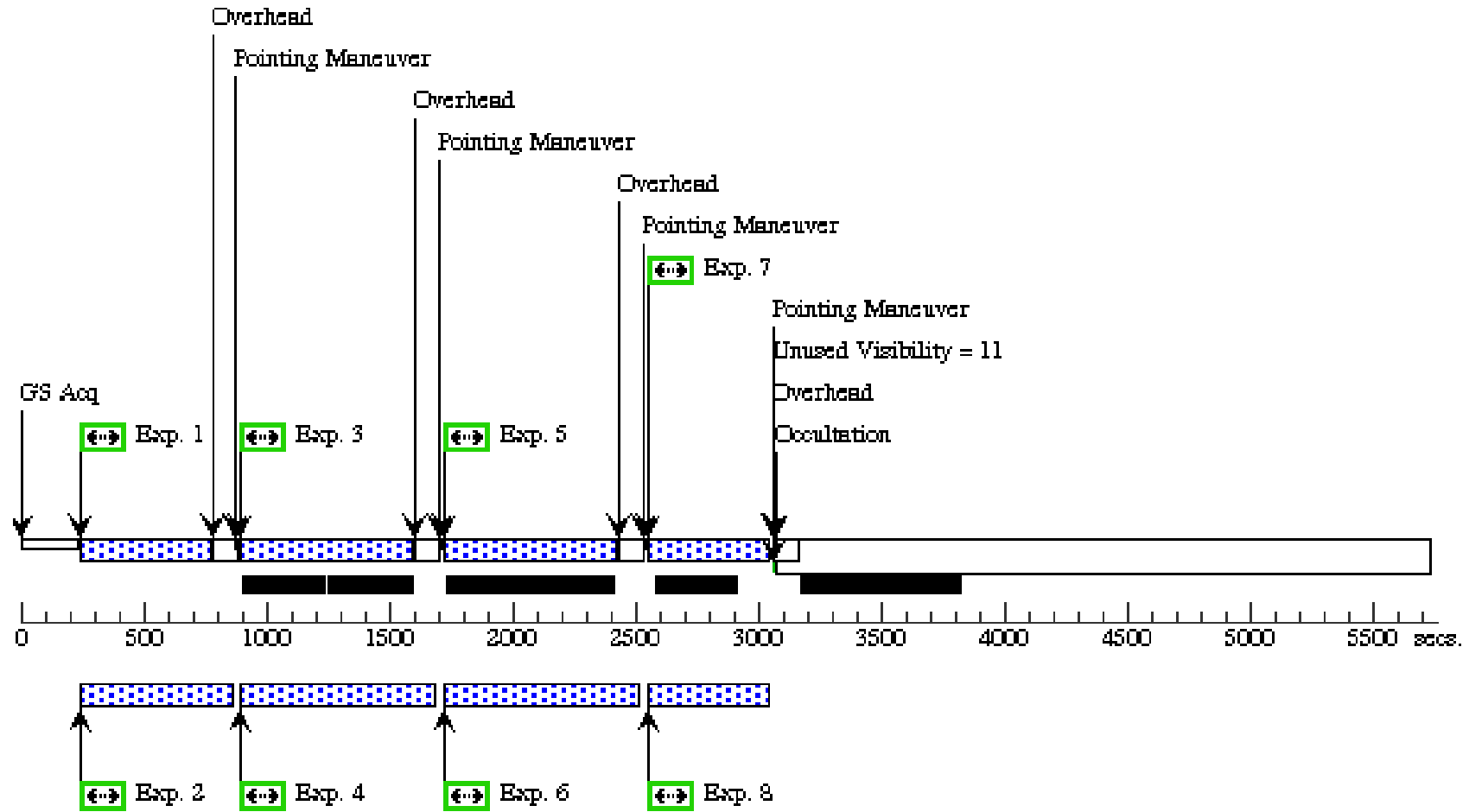
Proposal 12104 - Visit A6 - Through a Lens, Darkly - New Constraints on the Fundamental Components of the Cosmos

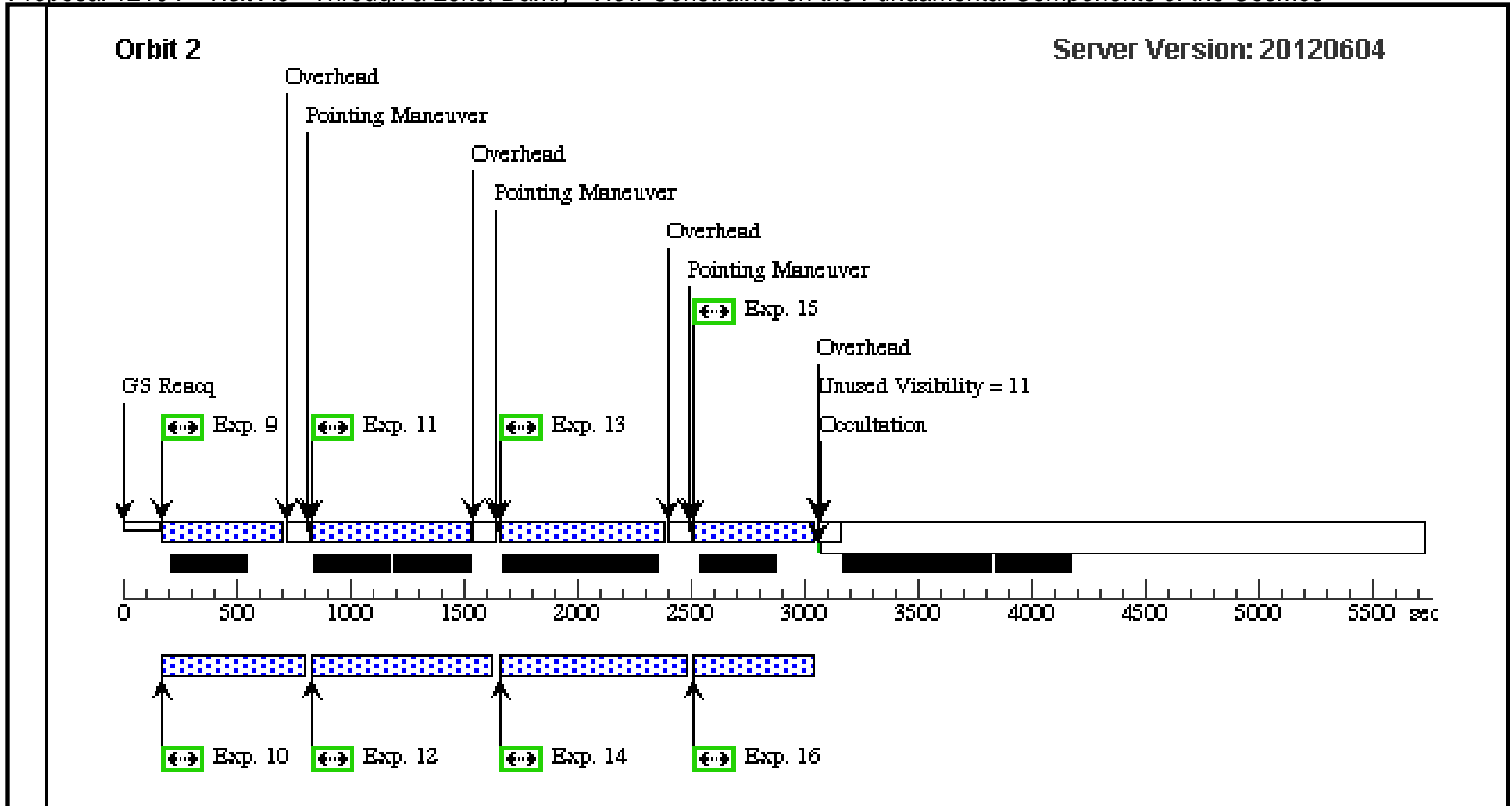
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(1) RXJ1347-1145	WFC3/UVIS, ACCUM, UVIS-FIX	F225W	CR-SPLIT=NO	POS TARG 0,0; GS ACQ SCENARI O SINGLE	Prime + Parallel Group 1-2 in Visit A6	600 Secs [==>496.0 Secs ]	[1]
	2		(2) RXJ1347-1145-A CSPAR1	ACS/WFC, ACCUM, WFC-FIX	F850LP			Prime + Parallel Group 1-2 in Visit A6	600 Secs [==>416.0 Secs ]	[1]
	3		(1) RXJ1347-1145	WFC3/UVIS, ACCUM, UVIS-FIX	F225W	CR-SPLIT=NO	POS TARG 0.0594,- 0.0552	Prime + Parallel Group 3-4 in Visit A6	600 Secs [==>699.0 Secs ]	[1]
	4		(2) RXJ1347-1145-A CSPAR1	ACS/WFC, ACCUM, WFC-FIX	F850LP			Prime + Parallel Group 3-4 in Visit A6	600 Secs [==>669.0 Secs ]	[1]
	5		(1) RXJ1347-1145	WFC3/UVIS, ACCUM, UVIS-FIX	F225W	CR-SPLIT=NO	POS TARG 0.1188,0 .06735	Prime + Parallel Group 5-6 in Visit A6	600 Secs [==>699.0 Secs ]	[1]
	6		(2) RXJ1347-1145-A CSPAR1	ACS/WFC, ACCUM, WFC-FIX	F850LP			Prime + Parallel Group 5-6 in Visit A6	600 Secs [==>669.0 Secs ]	[1]
	7		(1) RXJ1347-1145	WFC3/UVIS, ACCUM, UVIS-FIX	F225W	CR-SPLIT=NO	POS TARG -0.0594, 0.15395	Prime + Parallel Group 7-8 in Visit A6	600 Secs [==>496.5 Secs ]	[1]
	8		(2) RXJ1347-1145-A CSPAR1	ACS/WFC, ACCUM, WFC-FIX	F775W			Prime + Parallel Group 7-8 in Visit A6	600 Secs [==>345.5 Secs ]	[1]
	9		(1) RXJ1347-1145	WFC3/UVIS, ACCUM, UVIS-FIX	F225W	CR-SPLIT=NO	POS TARG 0,0	Prime + Parallel Group 9-10 in Visit A6	600 Secs [==>532.0 Secs ]	[2]
	10		(2) RXJ1347-1145-A CSPAR1	ACS/WFC, ACCUM, WFC-FIX	F850LP			Prime + Parallel Group 9-10 in Visit A6	600 Secs [==>476.0 Secs ]	[2]
	11		(1) RXJ1347-1145	WFC3/UVIS, ACCUM, UVIS-FIX	F225W	CR-SPLIT=NO	POS TARG 0.0594,- 0.0552	Prime + Parallel Group 11-12 in Visit A6	600 Secs [==>699.0 Secs ]	[2]
	12		(2) RXJ1347-1145-A CSPAR1	ACS/WFC, ACCUM, WFC-FIX	F850LP			Prime + Parallel Group 11-12 in Visit A6	600 Secs [==>669.0 Secs ]	[2]
	13		(1) RXJ1347-1145	WFC3/UVIS, ACCUM, UVIS-FIX	F390W	CR-SPLIT=NO	POS TARG 0.1188,0 .06735	Prime + Parallel Group 13-14 in Visit A6	600 Secs [==>699.0 Secs ]	[2]
	14		(2) RXJ1347-1145-A CSPAR1	ACS/WFC, ACCUM, WFC-FIX	F850LP			Prime + Parallel Group 13-14 in Visit A6	600 Secs [==>695.0 Secs ]	[2]
	15		(1) RXJ1347-1145	WFC3/UVIS, ACCUM, UVIS-FIX	F390W	CR-SPLIT=NO	POS TARG -0.0594, 0.15395	Prime + Parallel Group 15-16 in Visit A6	600 Secs [==>532.0 Secs ]	[2]
16		(2) RXJ1347-1145-A CSPAR1	ACS/WFC, ACCUM, WFC-FIX	F775W			Prime + Parallel Group 15-16 in Visit A6	600 Secs [==>381.0 Secs ]	[2]	

**Orbit 1**

Server Version: 20120604

Orbit Structure

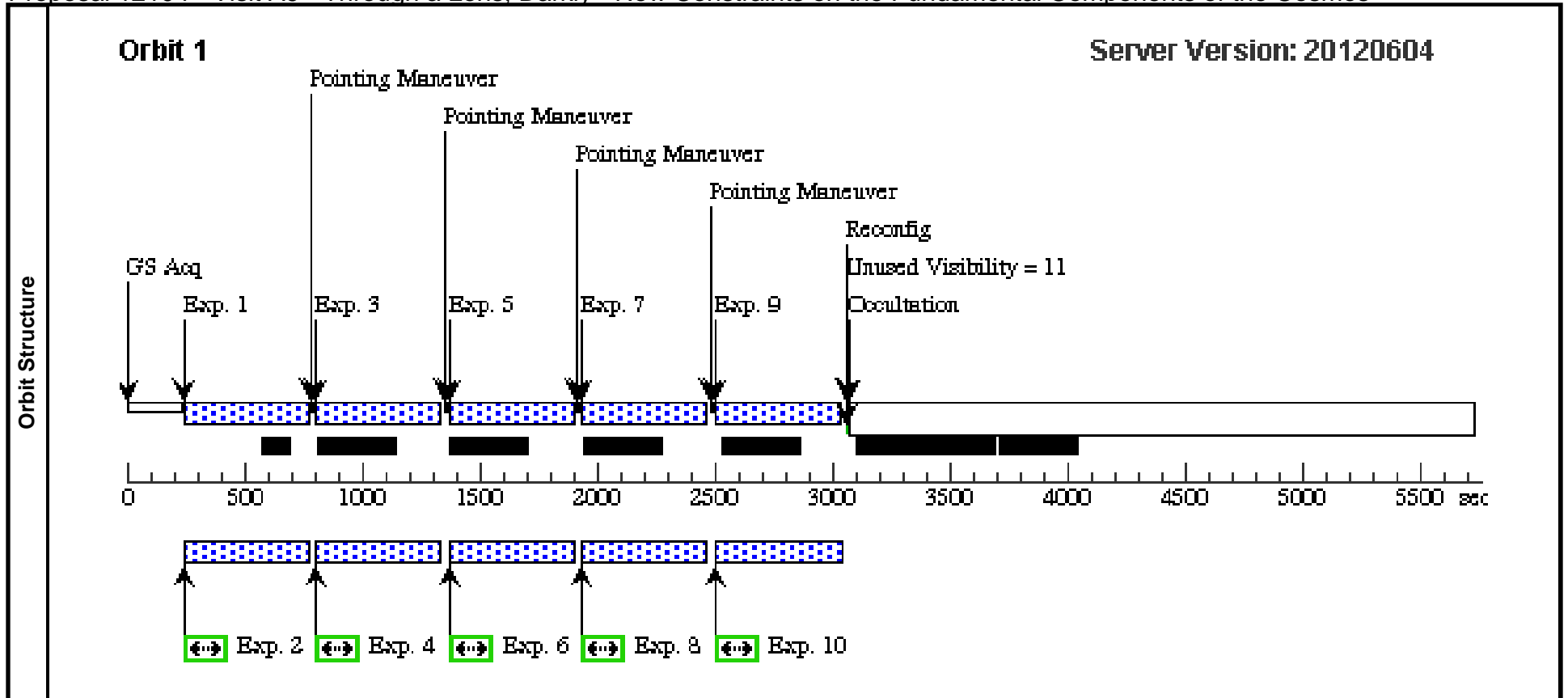




Proposal 12104 - Visit A9 - Through a Lens, Darkly - New Constraints on the Fundamental Components of the Cosmos

Wed Jul 04 01:51:32 GMT 2012

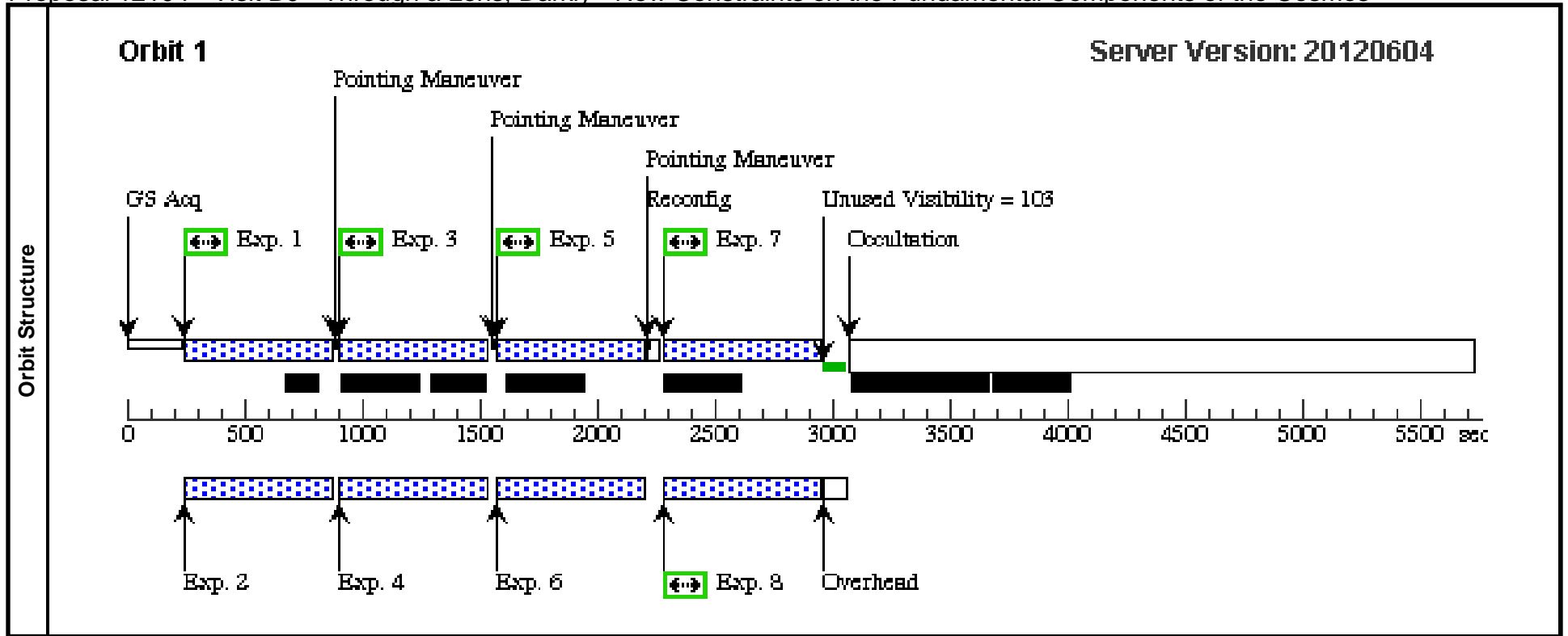
<b>Visit</b>	<b>Proposal 12104, Visit A9, completed</b> <b>Diagnostic Status: Warning</b> Scientific Instruments: WFC3/IR, ACS/WFC Special Requirements: SCHED 80%; SAME ORIENT AS A0; AFTER A0 BY 83 D TO 85 D <i>Comments: Visits A8-A9 represent epoch 4 (at orient 1) and should be taken concurrently</i>									
	(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)	RXJ1347-1145	RA: 13 47 32.2800 (206.8845000d) Dec: -11 45 12.81 (-11.75356d) Equinox: J2000		V=15	Reference Frame: ICRS				
(2)	RXJ1347-1145-ACSPAR1	RA: 13 47 32.2800 (206.8845000d) Dec: -11 45 12.81 (-11.75356d) 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) RXJ1347-1145	(1) RXJ1347-1145	WFC3/IR, MULTIACCUM, IR-FIX	F105W	SAMP-SEQ=SPARS 100; NSAMP=6	POS TARG 0,0; GS ACQ SCENARI O SINGLE	Prime + Parallel Group 1-2 in Visit A9	[==>]	[1]
	2	(2) RXJ1347-1145-A CSPAR1	(2) RXJ1347-1145-A CSPAR1	ACS/WFC, ACCUM, WFC-FIX	F850LP			Prime + Parallel Group 1-2 in Visit A9	525 Secs [==>325 Secs ]	[1]
	3	(1) RXJ1347-1145	(1) RXJ1347-1145	WFC3/IR, MULTIACCUM, IR-FIX	F105W	SAMP-SEQ=SPARS 100; NSAMP=6	POS TARG -1.1517 5,0.42385	Prime + Parallel Group 3-4 in Visit A9	[==>]	[1]
	4	(2) RXJ1347-1145-A CSPAR1	(2) RXJ1347-1145-A CSPAR1	ACS/WFC, ACCUM, WFC-FIX	F850LP			Prime + Parallel Group 3-4 in Visit A9	607 Secs [==>407 Secs ]	[1]
	5	(1) RXJ1347-1145	(1) RXJ1347-1145	WFC3/IR, MULTIACCUM, IR-FIX	F105W	SAMP-SEQ=SPARS 100; NSAMP=6	POS TARG -0.813,- 0.30275	Prime + Parallel Group 5-6 in Visit A9	[==>]	[1]
	6	(2) RXJ1347-1145-A CSPAR1	(2) RXJ1347-1145-A CSPAR1	ACS/WFC, ACCUM, WFC-FIX	F850LP			Prime + Parallel Group 5-6 in Visit A9	582 Secs [==>407 Secs ]	[1]
	7	(1) RXJ1347-1145	(1) RXJ1347-1145	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) RXJ1347-1145-A CSPAR1	(2) RXJ1347-1145-A CSPAR1	ACS/WFC, ACCUM, WFC-FIX	F850LP			Prime + Parallel Group 7-8 in Visit A9	587 Secs [==>407.0 Secs ]	[1]
	9	(1) RXJ1347-1145	(1) RXJ1347-1145	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) RXJ1347-1145-A CSPAR1	(2) RXJ1347-1145-A CSPAR1	ACS/WFC, ACCUM, WFC-FIX	F775W			Prime + Parallel Group 9-10 in Visit A9	587 Secs [==>396 Secs ]	[1]	



Proposal 12104 - Visit B0 - Through a Lens, Darkly - New Constraints on the Fundamental Components of the Cosmos

Wed Jul 04 01:51:33 GMT 2012

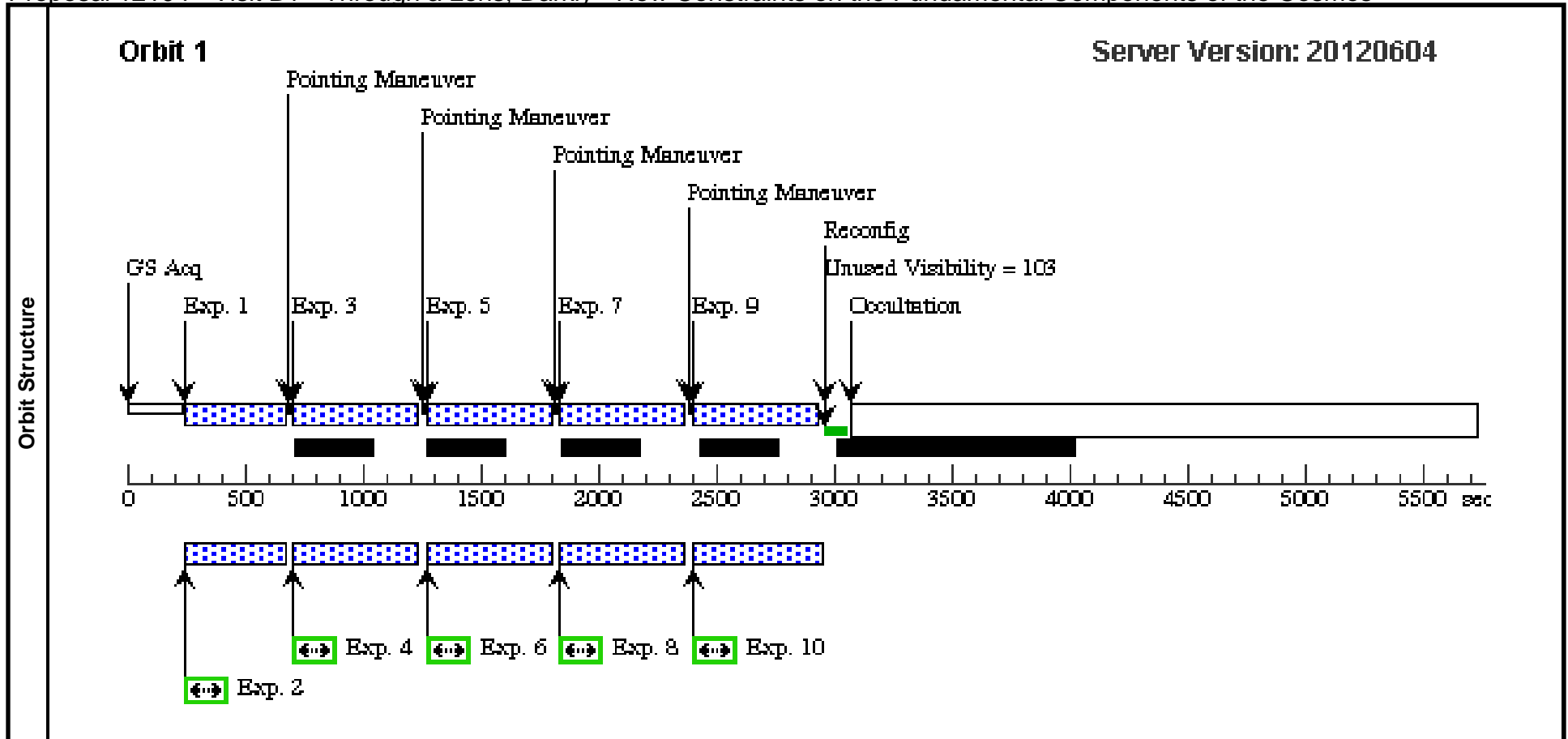
Visit	<b>Proposal 12104, Visit B0, completed</b> <b>Diagnostic Status: Warning</b> Scientific Instruments: WFC3/IR, WFC3/UVIS, ACS/WFC Special Requirements: SCHED 80%; ORIENT 15D TO 15D FROM A0 <i>Comments: Visits B0-B1 represent epoch 1 (at orient 2) and should be taken concurrently</i>									
	Diagnostics	(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.								
Fixed Targets		#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous			
	(1)	RXJ1347-1145	RA: 13 47 32.2800 (206.8845000d) Dec: -11 45 12.81 (-11.75356d) Equinox: J2000		V=15	Reference Frame: ICRS				
(5)	RXJ1347-1145-WFC3PAR2	RA: 13 47 32.2800 (206.8845000d) Dec: -11 45 12.81 (-11.75356d) 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) RXJ1347-1145	ACS/WFC, ACCUM, WFC-FIX	F606W		POS TARG 0,0; GS ACQ SCENARI O SINGLE	Prime + Parallel Group 1-2 in Visit B0	525 Secs [==>425 Secs ]	[1]
	2		(5) RXJ1347-1145-WFC3PAR2	WFC3/IR, MULTIACCUM, IR-FIX	F125W	SAMP-SEQ=SPARS 100; NSAMP=7		Prime + Parallel Group 1-2 in Visit B0	[==>]	[1]
	3		(1) RXJ1347-1145	ACS/WFC, ACCUM, WFC-FIX	F606W		POS TARG 0.0741,0 .1295	Prime + Parallel Group 3-4 in Visit B0	507 Secs [==>507.0 Secs ]	[1]
	4		(5) RXJ1347-1145-WFC3PAR2	WFC3/IR, MULTIACCUM, IR-FIX	F160W	SAMP-SEQ=SPARS 50; NSAMP=13		Prime + Parallel Group 3-4 in Visit B0	[==>]	[1]
	5		(1) RXJ1347-1145	ACS/WFC, ACCUM, WFC-FIX	F775W		POS TARG 0.1729,- 0.0848	Prime + Parallel Group 5-6 in Visit B0	551 Secs [==>467 Secs ]	[1]
	6		(5) RXJ1347-1145-WFC3PAR2	WFC3/IR, MULTIACCUM, IR-FIX	F160W	SAMP-SEQ=SPARS 100; NSAMP=7		Prime + Parallel Group 5-6 in Visit B0	[==>]	[1]
	7		(1) RXJ1347-1145	ACS/WFC, ACCUM, WFC-FIX	F775W		POS TARG 0.247,0. 2423	Prime + Parallel Group 7-8 in Visit B0	564 Secs [==>549 Secs ]	[1]
	8		(5) RXJ1347-1145-WFC3PAR2	WFC3/UVIS, ACCUM, UVIS-FIX	F350LP	CR-SPLIT=NO		Prime + Parallel Group 7-8 in Visit B0	400 Secs [==>643 Secs ]	[1]



Proposal 12104 - Visit B1 - Through a Lens, Darkly - New Constraints on the Fundamental Components of the Cosmos

Wed Jul 04 01:51:34 GMT 2012

<b>Visit</b>	<b>Proposal 12104, 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)	RXJ1347-1145	RA: 13 47 32.2800 (206.8845000d) Dec: -11 45 12.81 (-11.75356d) Equinox: J2000		V=15	Reference Frame: ICRS				
(4)	RXJ1347-1145-ACSPAR2	RA: 13 47 32.2800 (206.8845000d) Dec: -11 45 12.81 (-11.75356d) 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) RXJ1347-1145	WFC3/IR, MULTIACCUM, IR-FIX	F125W	SAMP-SEQ=SPARS 100; NSAMP=5	POS TARG 0,0; GS ACQ SCENARI O SINGLE	Prime + Parallel Group 1-2 in Visit B1	[==>]	[1]	
	2	(4) RXJ1347-1145-A CSPAR2	ACS/WFC, ACCUM, WFC-FIX	F850LP			Prime + Parallel Group 1-2 in Visit B1	525 Secs [==>225 Secs ]	[1]	
	3	(1) RXJ1347-1145	WFC3/IR, MULTIACCUM, IR-FIX	F125W	SAMP-SEQ=SPARS 100; NSAMP=6	POS TARG 0.20325, -0.18165	Prime + Parallel Group 3-4 in Visit B1	[==>]	[1]	
	4	(4) RXJ1347-1145-A CSPAR2	ACS/WFC, ACCUM, WFC-FIX	F850LP			Prime + Parallel Group 3-4 in Visit B1	607 Secs [==>407 Secs ]	[1]	
	5	(1) RXJ1347-1145	WFC3/IR, MULTIACCUM, IR-FIX	F125W	SAMP-SEQ=SPARS 100; NSAMP=6	POS TARG 0.47425, 0.6055	Prime + Parallel Group 5-6 in Visit B1	[==>]	[1]	
	6	(4) RXJ1347-1145-A CSPAR2	ACS/WFC, ACCUM, WFC-FIX	F850LP			Prime + Parallel Group 5-6 in Visit B1	582 Secs [==>407 Secs ]	[1]	
	7	(1) RXJ1347-1145	WFC3/IR, MULTIACCUM, IR-FIX	F105W	SAMP-SEQ=SPARS 100; NSAMP=6	POS TARG -0.271,0 .42385	Prime + Parallel Group 7-8 in Visit B1	[==>]	[1]	
	8	(4) RXJ1347-1145-A CSPAR2	ACS/WFC, ACCUM, WFC-FIX	F850LP			Prime + Parallel Group 7-8 in Visit B1	587 Secs [==>407.0 Secs ]	[1]	
	9	(1) RXJ1347-1145	WFC3/IR, MULTIACCUM, IR-FIX	F105W	SAMP-SEQ=SPARS 100; NSAMP=6	POS TARG 0.47425, 0.6055	Prime + Parallel Group 9-10 in Visit B1	[==>]	[1]	
10	(4) RXJ1347-1145-A CSPAR2	ACS/WFC, ACCUM, WFC-FIX	F775W			Prime + Parallel Group 9-10 in Visit B1	587 Secs [==>404 Secs ]	[1]		



Proposal 12104 - Visit B3 - Through a Lens, Darkly - New Constraints on the Fundamental Components of the Cosmos

Wed Jul 04 01:51:35 GMT 2012

<b>Visit</b>	<p><b>Proposal 12104, Visit B3, 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 B0; AFTER B0 BY 27 D TO 29 D</p> <p><i>Comments: Visits B3-B4 represent epoch 2 (at orient 2) and should be taken concurrently</i></p>					
	<p>(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.</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)	RXJ1347-1145	RA: 13 47 32.2800 (206.8845000d) Dec: -11 45 12.81 (-11.75356d) Equinox: J2000		V=15	Reference Frame: ICRS
	(4)	RXJ1347-1145-ACSPAR2	RA: 13 47 32.2800 (206.8845000d) Dec: -11 45 12.81 (-11.75356d) Equinox: J2000		V=15	Reference Frame: ICRS

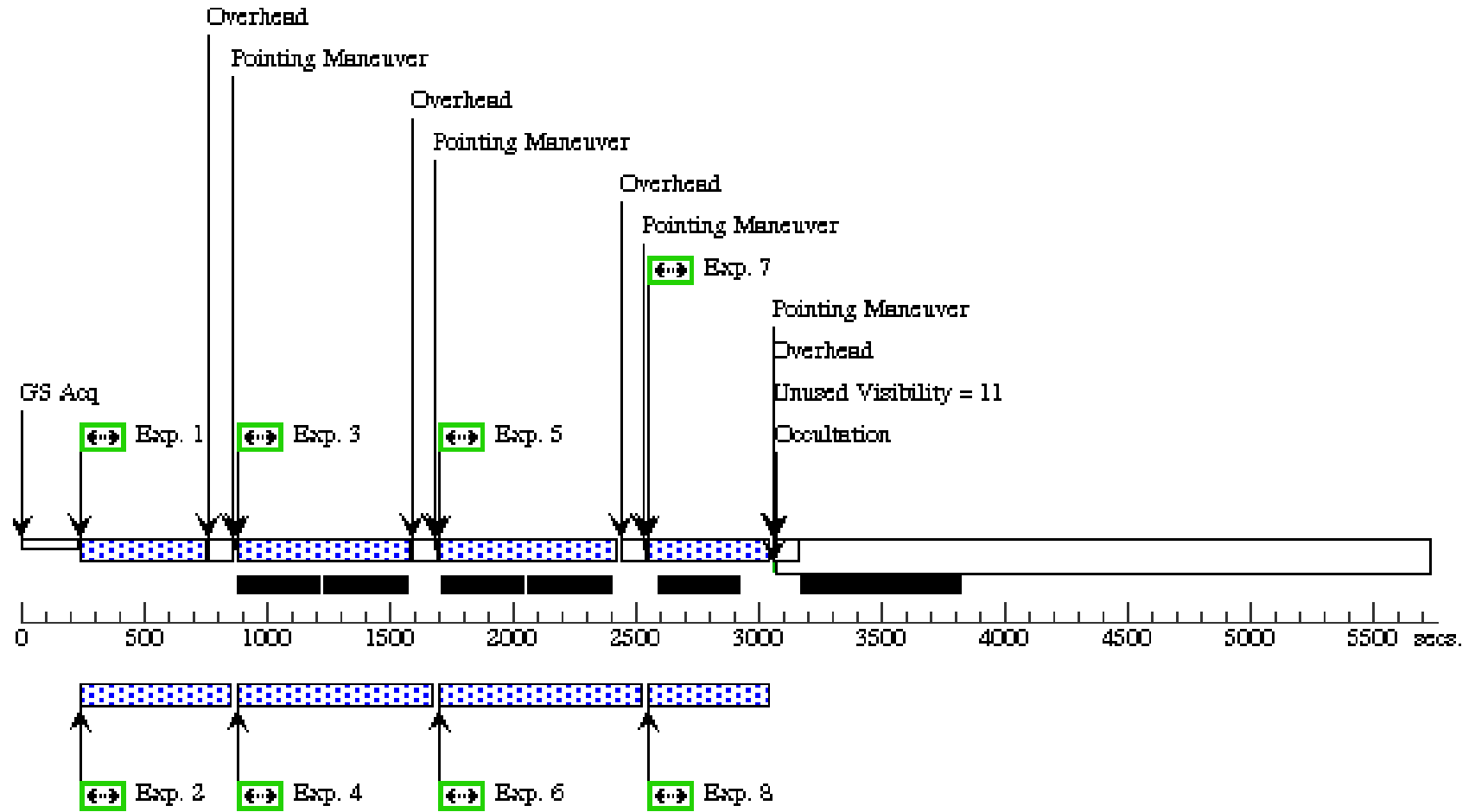
Proposal 12104 - Visit B3 - Through a Lens, Darkly - New Constraints on the Fundamental Components of the Cosmos

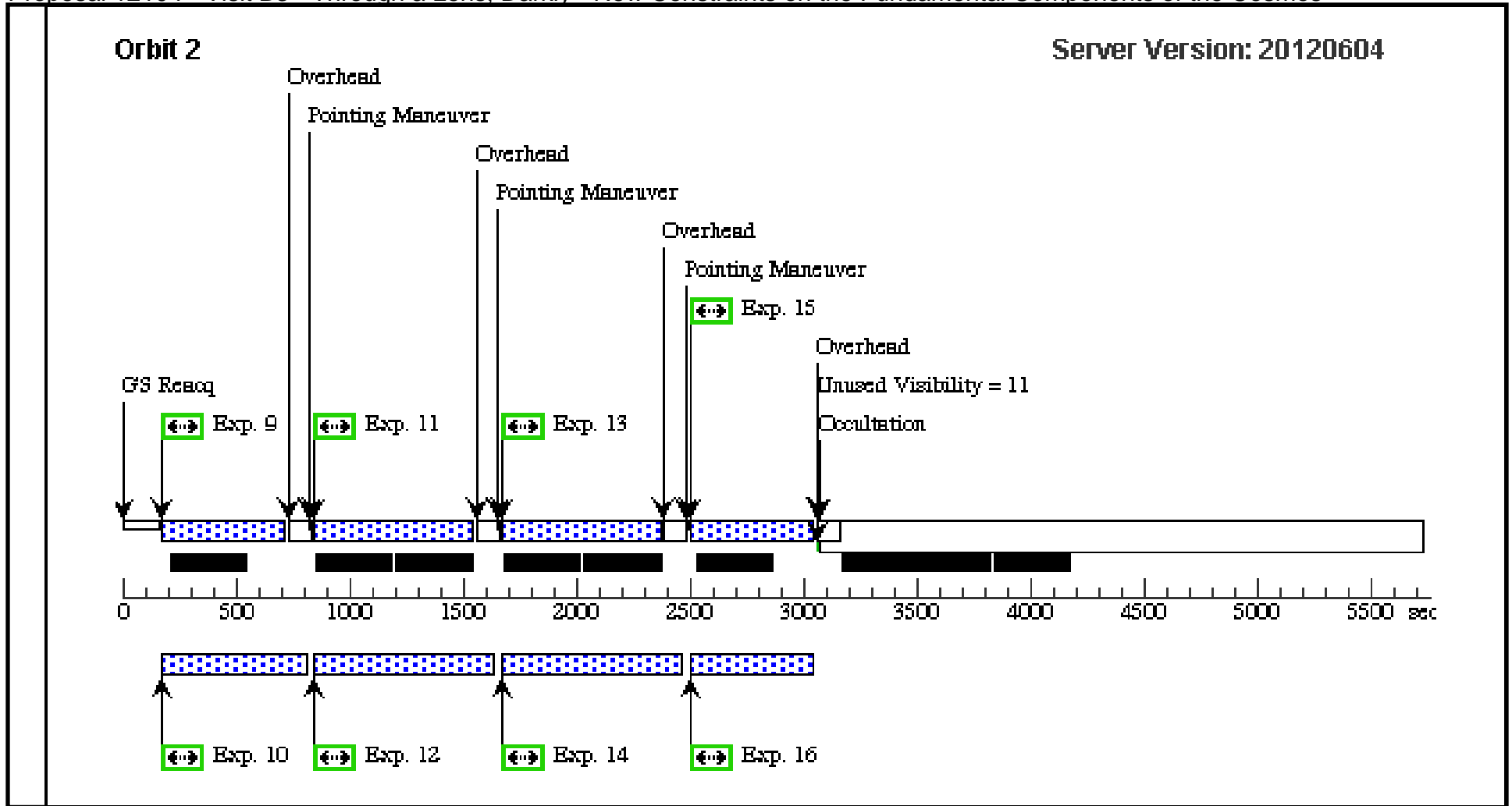
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(1) RXJ1347-1145	WFC3/UVIS, ACCUM, UVIS-FIX	F390W	CR-SPLIT=NO	POS TARG 0,0; GS ACQ SCENARI O SINGLE	Prime + Parallel Group 1-2 in Visit B3	600 Secs [==>480 Secs ]	[1]
	2		(4) RXJ1347-1145-A CSPAR2	ACS/WFC, ACCUM, WFC-FIX	F850LP			Prime + Parallel Group 1-2 in Visit B3	600 Secs [==>400 Secs ]	[1]
	3		(1) RXJ1347-1145	WFC3/UVIS, ACCUM, UVIS-FIX	F390W	CR-SPLIT=NO	POS TARG 0.0594,- 0.0552	Prime + Parallel Group 3-4 in Visit B3	600 Secs [==>699.0 Secs ]	[1]
	4		(4) RXJ1347-1145-A CSPAR2	ACS/WFC, ACCUM, WFC-FIX	F850LP			Prime + Parallel Group 3-4 in Visit B3	600 Secs [==>669 Secs ]	[1]
	5		(1) RXJ1347-1145	WFC3/UVIS, ACCUM, UVIS-FIX	F275W	CR-SPLIT=NO	POS TARG 0.1188,0 .06735	Prime + Parallel Group 5-6 in Visit B3	600 Secs [==>699.0 Secs ]	[1]
	6		(4) RXJ1347-1145-A CSPAR2	ACS/WFC, ACCUM, WFC-FIX	F850LP			Prime + Parallel Group 5-6 in Visit B3	600 Secs [==>692 Secs ]	[1]
	7		(1) RXJ1347-1145	WFC3/UVIS, ACCUM, UVIS-FIX	F275W	CR-SPLIT=NO	POS TARG -0.0594, 0.15395	Prime + Parallel Group 7-8 in Visit B3	600 Secs [==>490 Secs ]	[1]
	8		(4) RXJ1347-1145-A CSPAR2	ACS/WFC, ACCUM, WFC-FIX	F775W			Prime + Parallel Group 7-8 in Visit B3	600 Secs [==>339.0 Secs ]	[1]
	9		(1) RXJ1347-1145	WFC3/UVIS, ACCUM, UVIS-FIX	F275W	CR-SPLIT=NO	POS TARG 0,0	Prime + Parallel Group 9-10 in Visit B3	600 Secs [==>545.0 Secs ]	[2]
	10		(4) RXJ1347-1145-A CSPAR2	ACS/WFC, ACCUM, WFC-FIX	F850LP			Prime + Parallel Group 9-10 in Visit B3	600 Secs [==>489.0 Secs ]	[2]
	11		(1) RXJ1347-1145	WFC3/UVIS, ACCUM, UVIS-FIX	F275W	CR-SPLIT=NO	POS TARG 0.0594,- 0.0552	Prime + Parallel Group 11-12 in Visit B3	600 Secs [==>699.0 Secs ]	[2]
	12		(4) RXJ1347-1145-A CSPAR2	ACS/WFC, ACCUM, WFC-FIX	F850LP			Prime + Parallel Group 11-12 in Visit B3	600 Secs [==>669.0 Secs ]	[2]
	13		(1) RXJ1347-1145	WFC3/UVIS, ACCUM, UVIS-FIX	F275W	CR-SPLIT=NO	POS TARG 0.1188,0 .06735	Prime + Parallel Group 13-14 in Visit B3	600 Secs [==>699.0 Secs ]	[2]
	14		(4) RXJ1347-1145-A CSPAR2	ACS/WFC, ACCUM, WFC-FIX	F850LP			Prime + Parallel Group 13-14 in Visit B3	600 Secs [==>669.0 Secs ]	[2]
	15		(1) RXJ1347-1145	WFC3/UVIS, ACCUM, UVIS-FIX	F275W	CR-SPLIT=NO	POS TARG -0.0594, 0.15395	Prime + Parallel Group 15-16 in Visit B3	600 Secs [==>545.0 Secs ]	[2]
16		(4) RXJ1347-1145-A CSPAR2	ACS/WFC, ACCUM, WFC-FIX	F775W			Prime + Parallel Group 15-16 in Visit B3	600 Secs [==>394.0 Secs ]	[2]	

**Orbit 1**

Server Version: 20120604

Orbit Structure





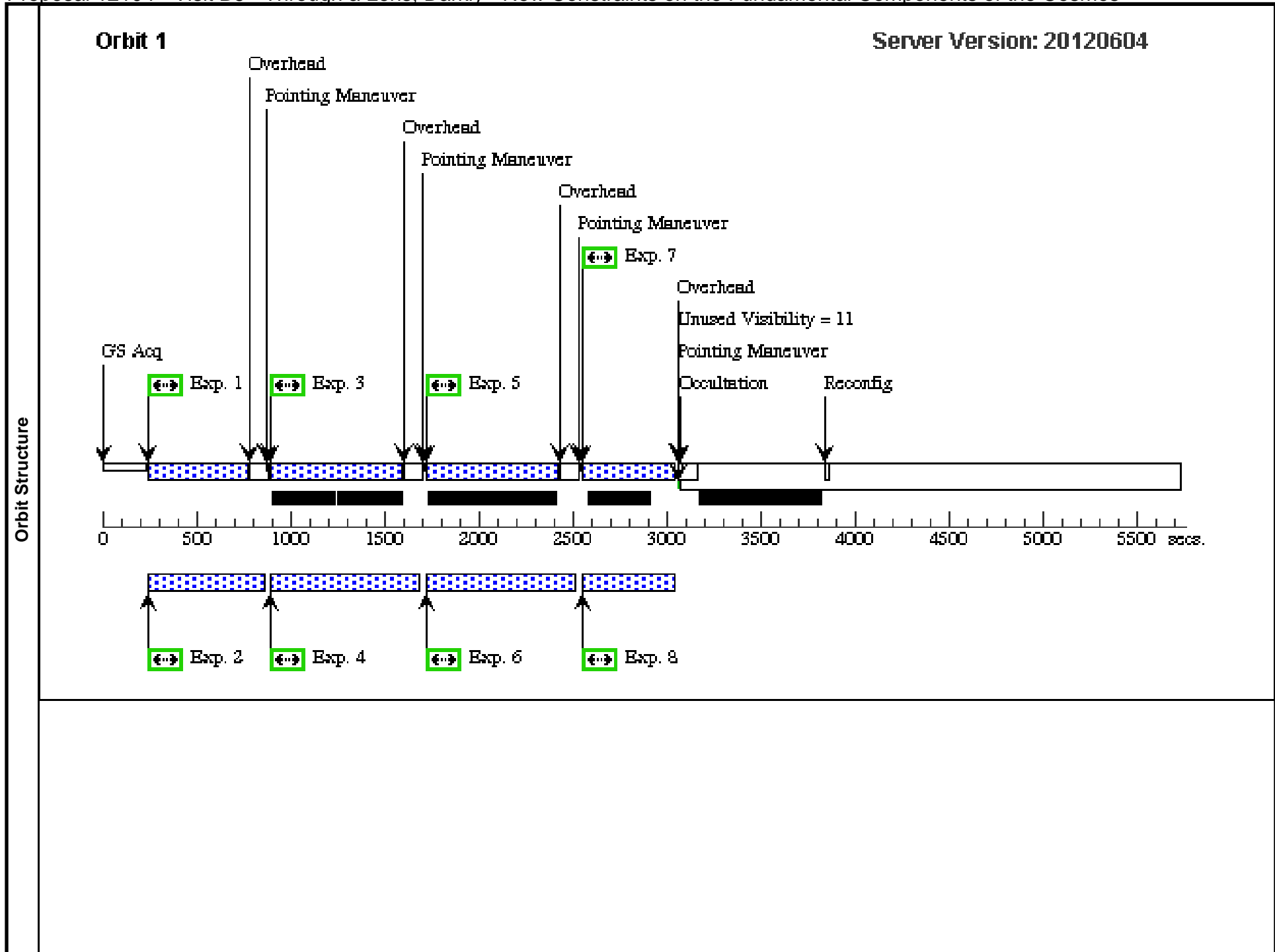
Proposal 12104 - Visit B6 - Through a Lens, Darkly - New Constraints on the Fundamental Components of the Cosmos

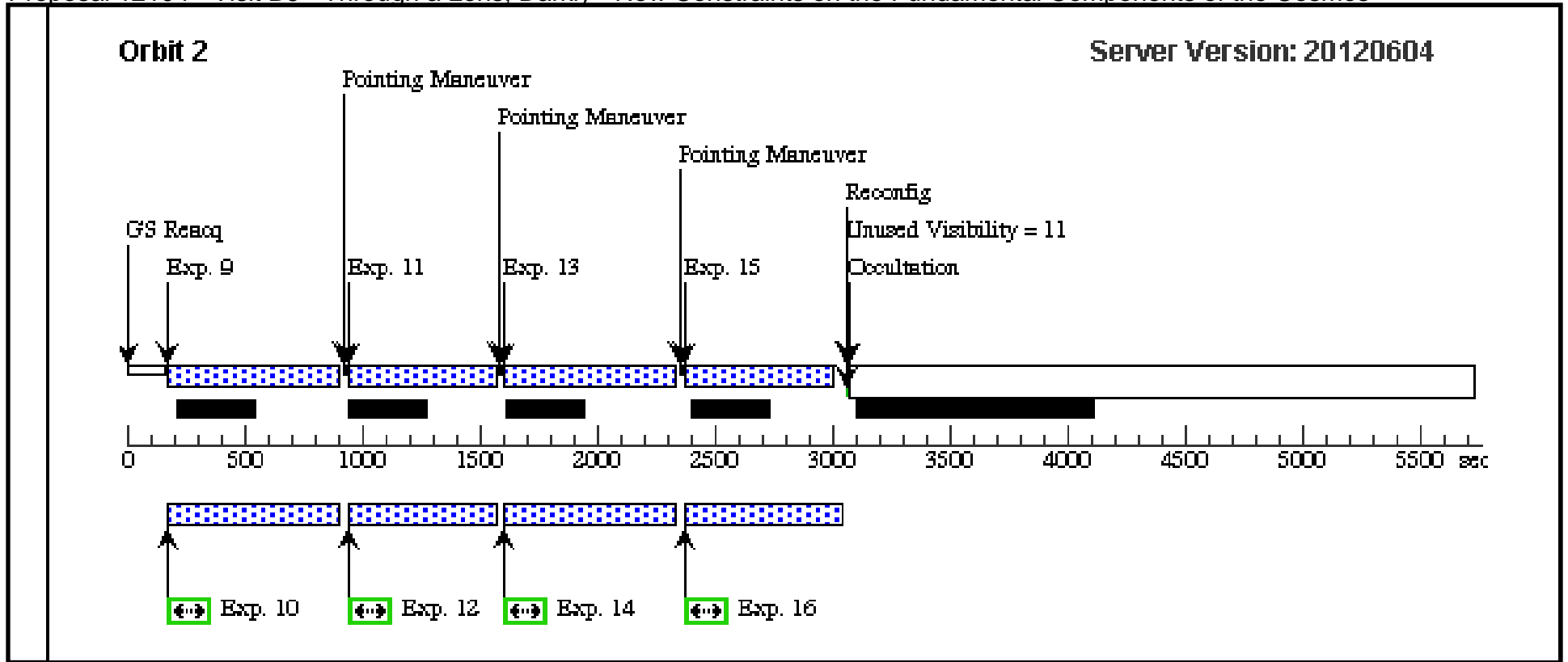
Wed Jul 04 01:51:38 GMT 2012

<b>Visit</b>	<p><b>Proposal 12104, 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; AFTER B0 BY 55 D TO 58 D</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>					
<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)	RXJ1347-1145	RA: 13 47 32.2800 (206.8845000d) Dec: -11 45 12.81 (-11.75356d) Equinox: J2000		V=15	Reference Frame: ICRS
	(4)	RXJ1347-1145-ACSPAR2	RA: 13 47 32.2800 (206.8845000d) Dec: -11 45 12.81 (-11.75356d) Equinox: J2000		V=15	Reference Frame: ICRS

Proposal 12104 - 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) RXJ1347-1145	WFC3/UVIS, ACCUM, UVIS-FIX	F336W	CR-SPLIT=NO	POS TARG 0,0; GS ACQ SCENARI O SINGLE	Prime + Parallel Group 1-2 in Visit B6	600 Secs [==>496 Secs ]	[1]
	2		(4) RXJ1347-1145-A CSPAR2	ACS/WFC, ACCUM, WFC-FIX	F850LP			Prime + Parallel Group 1-2 in Visit B6	600 Secs [==>416 Secs ]	[1]
	3		(1) RXJ1347-1145	WFC3/UVIS, ACCUM, UVIS-FIX	F336W	CR-SPLIT=NO	POS TARG 0.0594,- 0.0552	Prime + Parallel Group 3-4 in Visit B6	600 Secs [==>699.0 Secs ]	[1]
	4		(4) RXJ1347-1145-A CSPAR2	ACS/WFC, ACCUM, WFC-FIX	F850LP			Prime + Parallel Group 3-4 in Visit B6	600 Secs [==>669 Secs ]	[1]
	5		(1) RXJ1347-1145	WFC3/UVIS, ACCUM, UVIS-FIX	F336W	CR-SPLIT=NO	POS TARG 0.1188,0 .06735	Prime + Parallel Group 5-6 in Visit B6	600 Secs [==>699.0 Secs ]	[1]
	6		(4) RXJ1347-1145-A CSPAR2	ACS/WFC, ACCUM, WFC-FIX	F850LP			Prime + Parallel Group 5-6 in Visit B6	600 Secs [==>669 Secs ]	[1]
	7		(1) RXJ1347-1145	WFC3/UVIS, ACCUM, UVIS-FIX	F336W	CR-SPLIT=NO	POS TARG -0.0594, 0.15395	Prime + Parallel Group 7-8 in Visit B6	600 Secs [==>496.5 Secs ]	[1]
	8		(4) RXJ1347-1145-A CSPAR2	ACS/WFC, ACCUM, WFC-FIX	F775W			Prime + Parallel Group 7-8 in Visit B6	600 Secs [==>345.5 Secs ]	[1]
	9		(1) RXJ1347-1145	WFC3/IR, MULTIACCUM, IR-FIX	F140W		SAMP-SEQ=SPARS 100; NSAMP=8	POS TARG 0,0 Prime + Parallel Group 9-10 in Visit B6	[==>]	[2]
	10		(4) RXJ1347-1145-A CSPAR2	ACS/WFC, ACCUM, WFC-FIX	F850LP			Prime + Parallel Group 9-10 in Visit B6	525 Secs [==>581.0 Secs ]	[2]
	11		(1) RXJ1347-1145	WFC3/IR, MULTIACCUM, IR-FIX	F140W		SAMP-SEQ=SPARS 100; NSAMP=7	POS TARG -1.1517 5.042385 Prime + Parallel Group 11-12 in Visit B6	[==>]	[2]
	12		(4) RXJ1347-1145-A CSPAR2	ACS/WFC, ACCUM, WFC-FIX	F850LP			Prime + Parallel Group 11-12 in Visit B6	607 Secs [==>507.0 Secs ]	[2]
	13		(1) RXJ1347-1145	WFC3/IR, MULTIACCUM, IR-FIX	F160W		SAMP-SEQ=SPARS 100; NSAMP=8	POS TARG -0.813,- 0.30275 Prime + Parallel Group 13-14 in Visit B6	[==>]	[2]
	14		(4) RXJ1347-1145-A CSPAR2	ACS/WFC, ACCUM, WFC-FIX	F850LP			Prime + Parallel Group 13-14 in Visit B6	481 Secs [==>607.0 Secs ]	[2]
	15		(1) RXJ1347-1145	WFC3/IR, MULTIACCUM, IR-FIX	F160W		SAMP-SEQ=SPARS 100; NSAMP=7	POS TARG 0.33875, -0.1211 Prime + Parallel Group 15-16 in Visit B6	[==>]	[2]
16		(4) RXJ1347-1145-A CSPAR2	ACS/WFC, ACCUM, WFC-FIX	F775W			Prime + Parallel Group 15-16 in Visit B6	576 Secs [==>526.0 Secs ]	[2]	

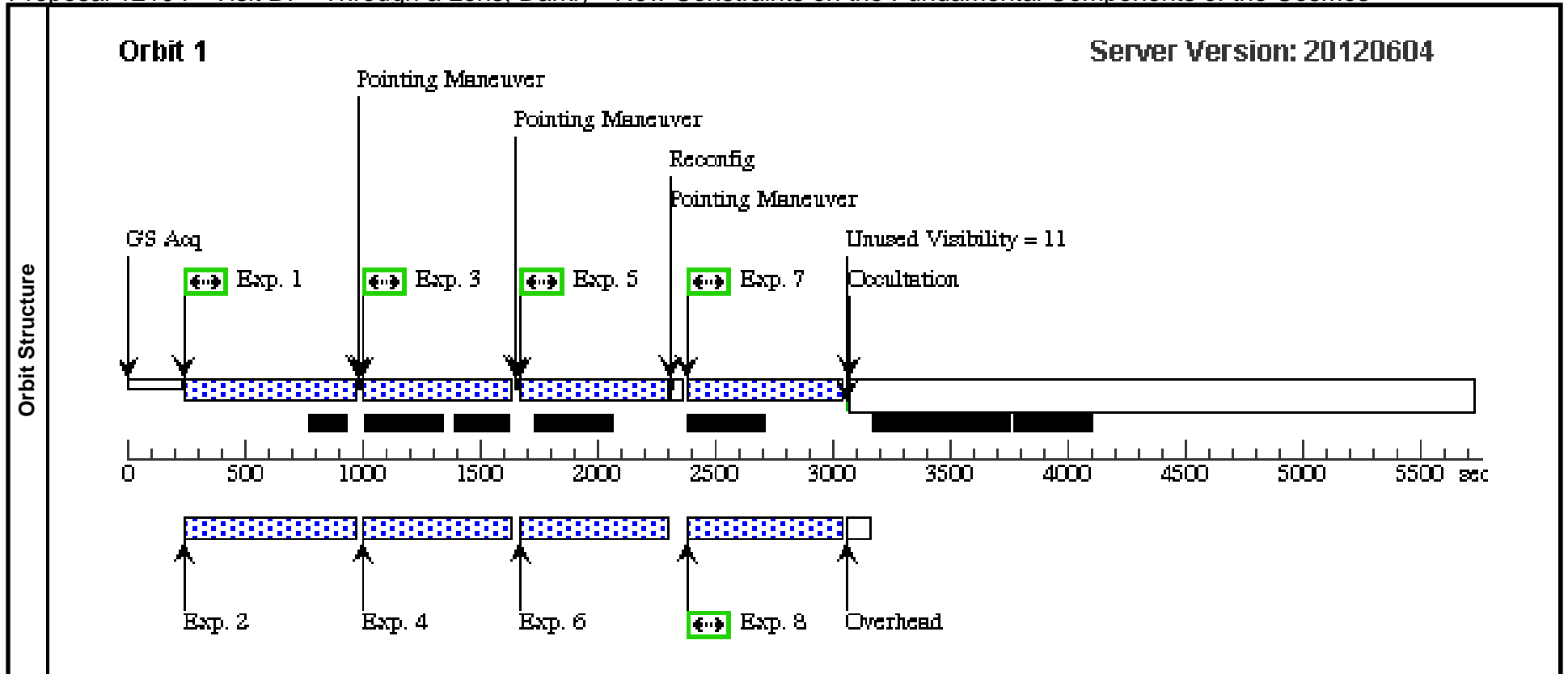




Proposal 12104 - Visit B7 - Through a Lens, Darkly - New Constraints on the Fundamental Components of the Cosmos

Wed Jul 04 01:51:40 GMT 2012

Visit	<b>Proposal 12104, 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 83 D TO 85 D Comments: Visits B7-B8 represent epoch 4 (at orient 2) and should be taken concurrently									
	Diagnostics	(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.								
Fixed Targets		#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous			
	(1)	RXJ1347-1145	RA: 13 47 32.2800 (206.8845000d) Dec: -11 45 12.81 (-11.75356d) Equinox: J2000		V=15	Reference Frame: ICRS				
(5)	RXJ1347-1145-WFC3PAR2	RA: 13 47 32.2800 (206.8845000d) Dec: -11 45 12.81 (-11.75356d) 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) RXJ1347-1145	ACS/WFC, ACCUM, WFC-FIX	F435W		POS TARG 0,0; GS ACQ SCENARI O SINGLE	Prime + Parallel Group 1-2 in Visit B7	525 Secs [==>525.0 Secs ]	[1]
	2		(5) RXJ1347-1145-WFC3PAR2	WFC3/IR, MULTIACCUM, IR-FIX	F125W	SAMP-SEQ=SPARS 100; NSAMP=8		Prime + Parallel Group 1-2 in Visit B7	[==>]	[1]
	3		(1) RXJ1347-1145	ACS/WFC, ACCUM, WFC-FIX	F435W		POS TARG 0.3211,0 .7917	Prime + Parallel Group 3-4 in Visit B7	507 Secs [==>507.0 Secs ]	[1]
	4		(5) RXJ1347-1145-WFC3PAR2	WFC3/IR, MULTIACCUM, IR-FIX	F160W	SAMP-SEQ=SPARS 50; NSAMP=13		Prime + Parallel Group 3-4 in Visit B7	[==>]	[1]
	5		(1) RXJ1347-1145	ACS/WFC, ACCUM, WFC-FIX	F625W		POS TARG 1.0868,0 .5573	Prime + Parallel Group 5-6 in Visit B7	551 Secs [==>451.0 Secs ]	[1]
	6		(5) RXJ1347-1145-WFC3PAR2	WFC3/IR, MULTIACCUM, IR-FIX	F160W	SAMP-SEQ=SPARS 100; NSAMP=7		Prime + Parallel Group 5-6 in Visit B7	[==>]	[1]
	7		(1) RXJ1347-1145	ACS/WFC, ACCUM, WFC-FIX	F625W		POS TARG -0.3211, -0.1742	Prime + Parallel Group 7-8 in Visit B7	564 Secs [==>541.0 Secs ]	[1]
	8		(5) RXJ1347-1145-WFC3PAR2	WFC3/UVIS, ACCUM, UVIS-FIX	F350LP	CR-SPLIT=NO		Prime + Parallel Group 7-8 in Visit B7	400 Secs [==>635.0 Secs ]	[1]



Proposal 12104 - Visit B8 - Through a Lens, Darkly - New Constraints on the Fundamental Components of the Cosmos

Wed Jul 04 01:51:41 GMT 2012

<b>Visit</b>	<b>Proposal 12104, 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>									
	(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.									
<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)	RXJ1347-1145	RA: 13 47 32.2800 (206.8845000d) Dec: -11 45 12.81 (-11.75356d) Equinox: J2000		V=15	Reference Frame: ICRS				
(4)	RXJ1347-1145-ACSPAR2	RA: 13 47 32.2800 (206.8845000d) Dec: -11 45 12.81 (-11.75356d) 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) RXJ1347-1145	WFC3/IR, MULTIACCUM, IR-FIX	F160W	SAMP-SEQ=SPARS 100; NSAMP=6	POS TARG 0,0; GS ACQ SCENARI O SINGLE	Prime + Parallel Group 1-2 in Visit B8	[==>]	[1]	
	2	(4) RXJ1347-1145-A CSPAR2	ACS/WFC, ACCUM, WFC-FIX	F850LP			Prime + Parallel Group 1-2 in Visit B8	525 Secs [==>325 Secs ]	[1]	
	3	(1) RXJ1347-1145	WFC3/IR, MULTIACCUM, IR-FIX	F160W	SAMP-SEQ=SPARS 100; NSAMP=6	POS TARG -1.1517 5,0.42385	Prime + Parallel Group 3-4 in Visit B8	[==>]	[1]	
	4	(4) RXJ1347-1145-A CSPAR2	ACS/WFC, ACCUM, WFC-FIX	F850LP			Prime + Parallel Group 3-4 in Visit B8	607 Secs [==>407 Secs ]	[1]	
	5	(1) RXJ1347-1145	WFC3/IR, MULTIACCUM, IR-FIX	F160W	SAMP-SEQ=SPARS 100; NSAMP=6	POS TARG -0.813,- 0.30275	Prime + Parallel Group 5-6 in Visit B8	[==>]	[1]	
	6	(4) RXJ1347-1145-A CSPAR2	ACS/WFC, ACCUM, WFC-FIX	F850LP			Prime + Parallel Group 5-6 in Visit B8	582 Secs [==>407 Secs ]	[1]	
	7	(1) RXJ1347-1145	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) RXJ1347-1145-A CSPAR2	ACS/WFC, ACCUM, WFC-FIX	F850LP			Prime + Parallel Group 7-8 in Visit B8	587 Secs [==>407.0 Secs ]	[1]	
	9	(1) RXJ1347-1145	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) RXJ1347-1145-A CSPAR2	ACS/WFC, ACCUM, WFC-FIX	F775W			Prime + Parallel Group 9-10 in Visit B8	587 Secs [==>396 Secs ]	[1]		

