



# 11194 - Beyond the Bullet: Direct Detection of Dark Matter in Merging Galaxy Clusters

Cycle: 16, Proposal Category: GO  
(Availability Mode: SUPPORTED)

## INVESTIGATORS

<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>
01	(1) ABELL-1758NP1	WFPC2	1	30-May-2007 21:48:00.0	yes
02	(2) ABELL-1758NP2	WFPC2	1	30-May-2007 21:48:05.0	yes
03	(3) ABELL-1758NP3	WFPC2	1	30-May-2007 21:48:07.0	yes
04	(4) ABELL-1758NP4	WFPC2	1	30-May-2007 21:48:09.0	yes
05	(5) ABELL-1758NP5	WFPC2	1	30-May-2007 21:48:11.0	yes
06	(6) ABELL-1758NP6	WFPC2	1	30-May-2007 21:48:13.0	yes
07	(7) ABELL-1758NP7	WFPC2	1	30-May-2007 21:48:16.0	yes
08	(8) ABELL-1758NP8	WFPC2	1	30-May-2007 21:48:18.0	yes

Proposal 11194 (STScI Edit Number: 0, Created: Wednesday, May 30, 2007 8:48:57 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>
09	(9) ABELL-1758NP9	WFPC2	1	30-May-2007 21:48:20.0	yes
10	(10) ABELL-1758NP10	WFPC2	1	30-May-2007 21:48:22.0	yes
11	(11) ABELL-1758PN11	WFPC2	1	30-May-2007 21:48:24.0	yes
12	(12) ABELL-1758NP12	WFPC2	1	30-May-2007 21:48:26.0	yes
13	(13) ABELL-1758NP13	WFPC2	1	30-May-2007 21:48:28.0	yes
14	(14) ABELL-1758NP14	WFPC2	1	30-May-2007 21:48:30.0	yes
15	(15) ABELL-1758NP15	WFPC2	1	30-May-2007 21:48:32.0	yes
16	(16) ABELL-1758NP16	WFPC2	1	30-May-2007 21:48:34.0	yes
17	(17) ABELL-1758NP17	WFPC2	1	30-May-2007 21:48:36.0	yes
18	(18) ABELL-1758NP18	WFPC2	1	30-May-2007 21:48:38.0	yes
19	(19) ABELL-1758NP19	WFPC2	1	30-May-2007 21:48:40.0	yes
20	(20) ABELL-1758NP20	WFPC2	1	30-May-2007 21:48:42.0	yes
21	(21) ABELL-1758NP21	WFPC2	1	30-May-2007 21:48:43.0	yes
22	(22) ABELL-1758NP22	WFPC2	1	30-May-2007 21:48:45.0	yes
23	(23) ABELL-1758NP23	WFPC2	1	30-May-2007 21:48:47.0	yes
24	(24) ABELL-1758NP24	WFPC2	1	30-May-2007 21:48:49.0	yes
25	(25) ABELL-1758PN25	WFPC2	1	30-May-2007 21:48:51.0	yes
26	(26) ABELL-1758NP26	WFPC2	1	30-May-2007 21:48:52.0	yes
27	(27) ABELL-1758NP27	WFPC2	1	30-May-2007 21:48:54.0	yes
28	(28) ABELL-1758NP28	WFPC2	1	30-May-2007 21:48:56.0	yes

28 Total Orbits Used

## **ABSTRACT**

Our comparison of the distribution of baryons (stars and gas) and mass (from weak lensing) in the "Bullet" Cluster has recently yielded concrete evidence for dark matter independent of basic assumptions regarding the nature of the gravitational force. The one incomplete aspect of the argument relates to potential, although highly unlikely, coincidences (special alignments along the line of sight, and/or fortuitous canceling in non-standard gravitational models) that can always be invoked against results derived from the study of one object. Therefore, we propose to complete this line of investigation by increasing the size of our sample with observations of an additional cluster. Here we propose to obtain HST WFPC2 imaging mosaics around the cores of the cluster to detect at high significance if the weak gravitational lensing mass peaks are routinely displaced from the X-ray plasma clouds and aligned with the galaxy concentrations in interacting clusters. With a relatively modest allocation of time, we seek to complete a significant step toward the eventual resolution of the dark matter question.

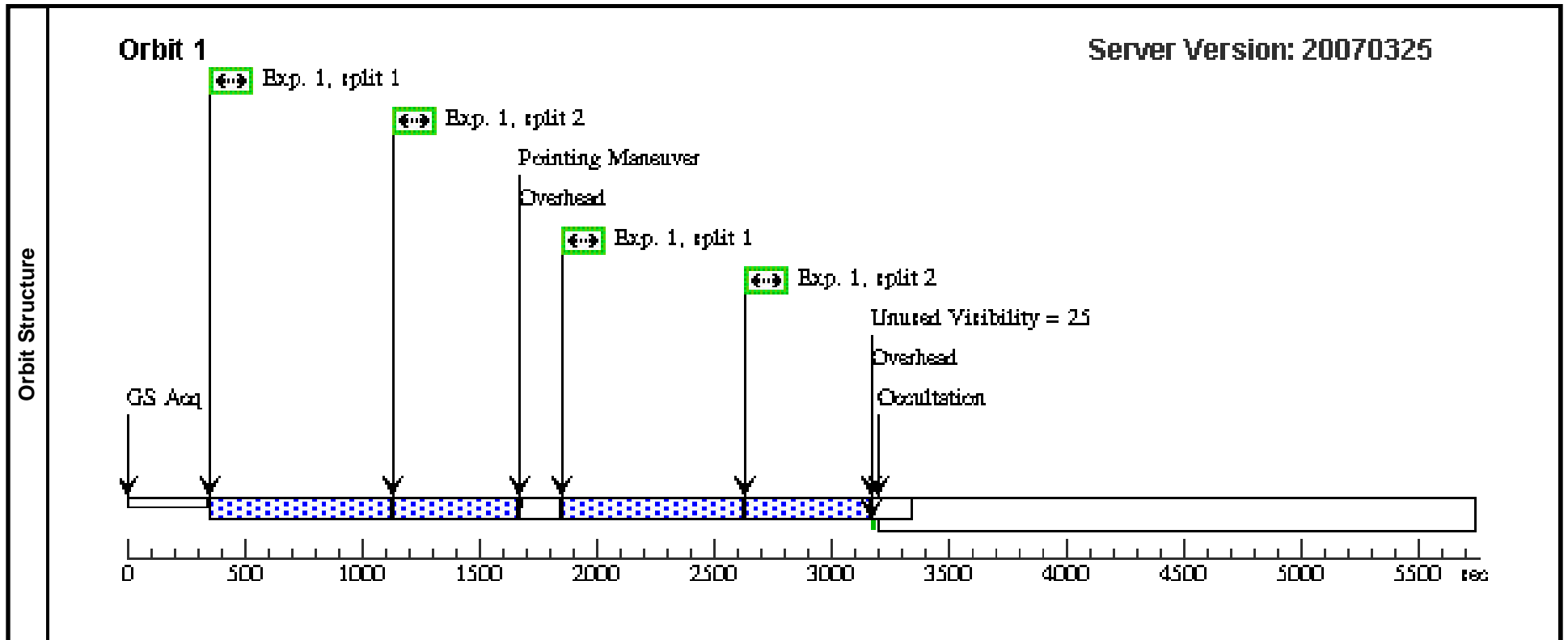
## **OBSERVING DESCRIPTION**

The program will be observing an interlocking mosaic pattern spread over the cluster core. The pattern will have 14 pointings and at each pointing we will obtain a 2 point dither with cr-split exposures at each point. The 14 point mosaic will be repeated for a second orbit, with the entire mosaic shifted by roughly half of one chip.

Proposal 11194 - Visit 01 - Beyond the Bullet: Direct Detection of Dark Matter in Merging Galaxy Clusters

Thu May 31 01:48:58 GMT 2007

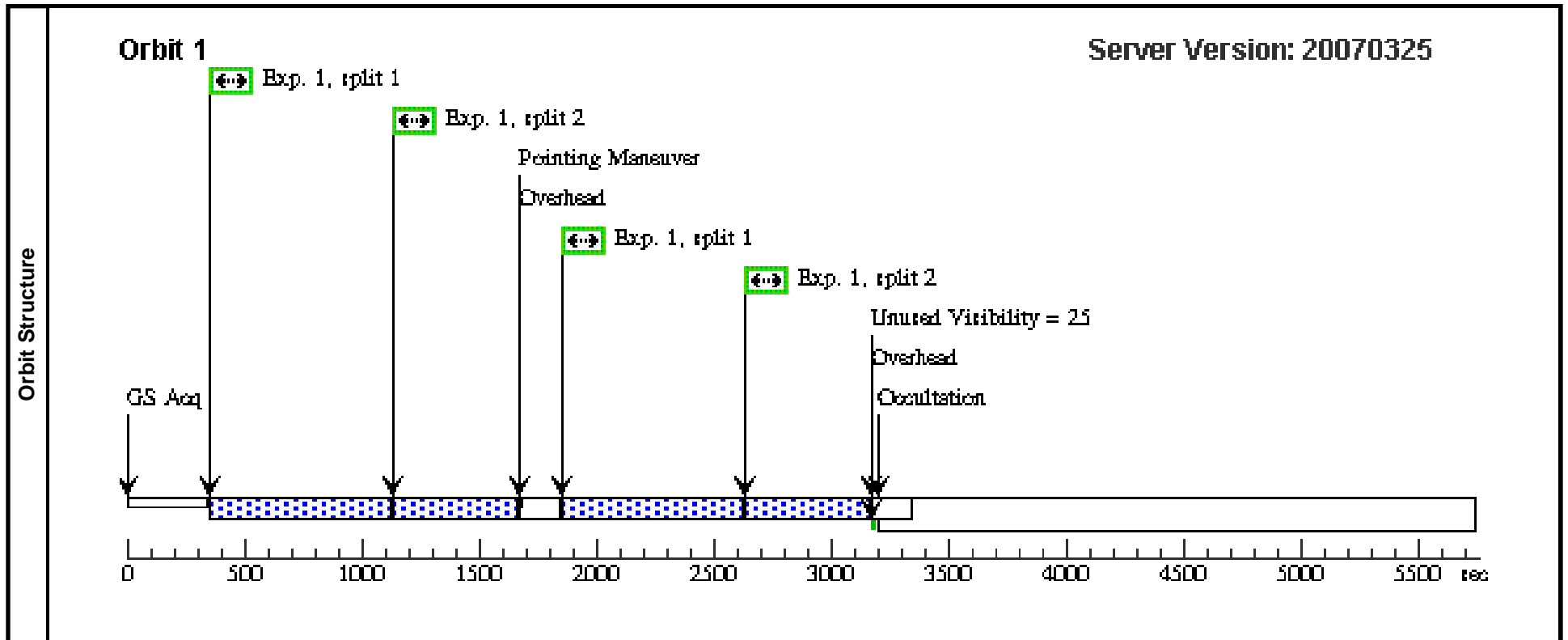
<b>Visit</b>	<b>Proposal 11194, Visit 01, implementation</b> <b>Diagnostic Status: No Diagnostics</b> Scientific Instruments: WFPC2 Special Requirements: ORIENT 349.0D TO 355.0 D										
	<b>Patterns</b>	<b>#</b>	<b>Primary Pattern</b>				<b>Secondary Pattern</b>				<b>Exposures</b>
(1)		Pattern Type=WFPC2-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.354 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=45 Angle Between Sides= Center Pattern=false					(1)			
<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)	ABELL-1758NP1	RA: 13 32 53.5641 (203.2231838d) Dec: +50 30 14.41 (50.50400d) Equinox: J2000			V=25.0	Reference Frame: NED				
<i>Comments: This object was generated by the targetselector and retrieved from the NED database.</i>											
<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) ABELL-1758NP1	WFPC2, IMAGE, WF3-FIX	F606W			Pattern 1-1 (1)	1010.0 Secs		
			1						[=>500.0 Secs (Pattern 1, Split 1)]		
									[=>500.0 Secs (Pattern 1, Split 2)]		
									[=>500.0 Secs (Pattern 2, Split 1)]		
								[=>500.0 Secs (Pattern 2, Split 2)]		[1]	



Proposal 11194 - Visit 02 - Beyond the Bullet: Direct Detection of Dark Matter in Merging Galaxy Clusters

Thu May 31 01:49:01 GMT 2007

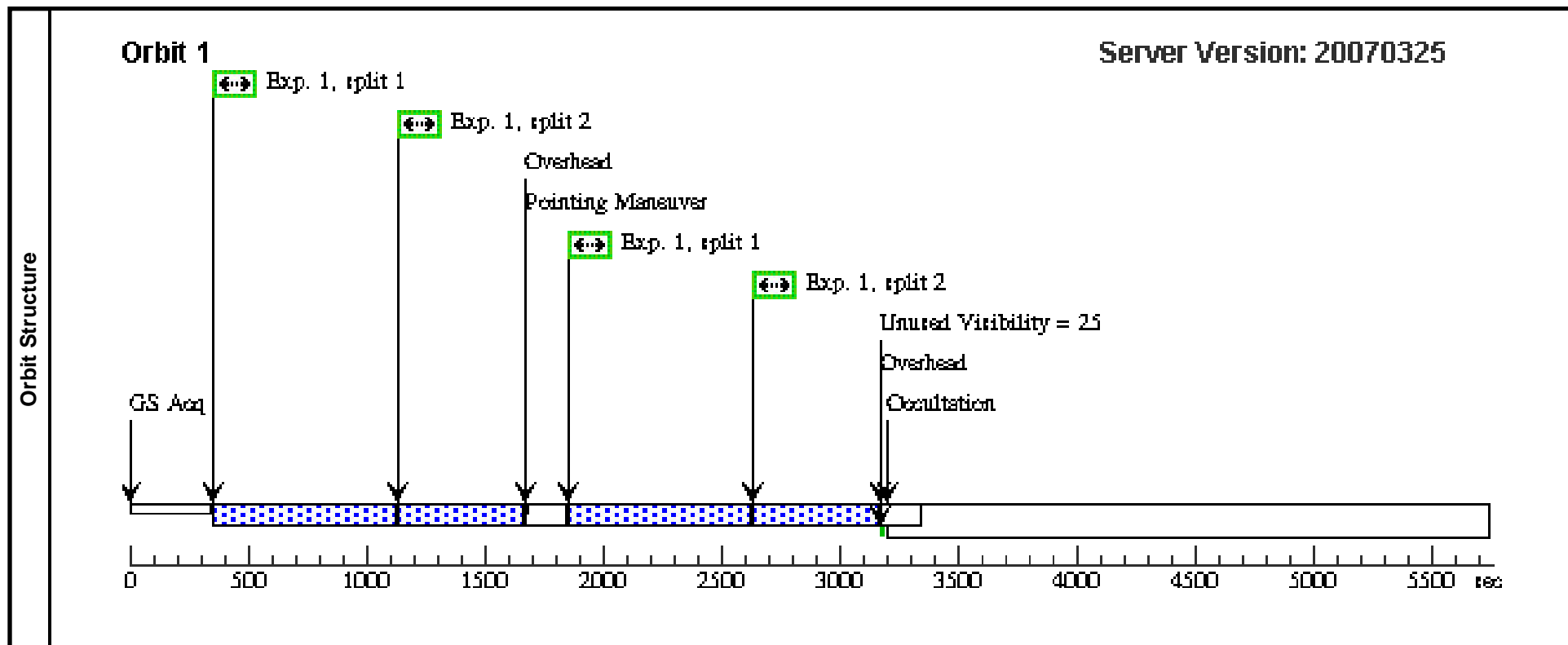
<b>Visit</b>	<b>Proposal 11194, Visit 02, implementation</b> <b>Diagnostic Status: No Diagnostics</b> Scientific Instruments: WFPC2 Special Requirements: SAME ORIENT AS 01										
	<b>Patterns</b>	<b>#</b>	<b>Primary Pattern</b>				<b>Secondary Pattern</b>				<b>Exposures</b>
(1)		Pattern Type=WFPC2-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.354 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=45 Angle Between Sides= Center Pattern=false					(1)			
<b>Fixed Targets</b>	<b>#</b>	<b>Name</b>	<b>Target Coordinates</b>	<b>Targ. Coord. Corrections</b>		<b>Fluxes</b>	<b>Miscellaneous</b>				
	(2)	ABELL-1758NP2	RA: 13 32 46.8010 (203.1950042d) Dec: +50 31 0.89 (50.51691d) Equinox: J2000			V=25.0	Reference Frame: NED				
<i>Comments: This object was generated by the targetselector and retrieved from the NED database.</i>											
<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		(2) ABELL-1758NP 2	WFPC2, IMAGE, WF3-FIX	F606W			Pattern 1-1 (1)	1010.0 Secs [=>500.0 Secs (Pattern 1, Split 1)] [=>500.0 Secs (Pattern 1, Split 2)] [=>500.0 Secs (Pattern 2, Split 1)] [=>500.0 Secs (Pattern 2, Split 2)]	[1]	



Proposal 11194 - Visit 03 - Beyond the Bullet: Direct Detection of Dark Matter in Merging Galaxy Clusters

Thu May 31 01:49:02 GMT 2007

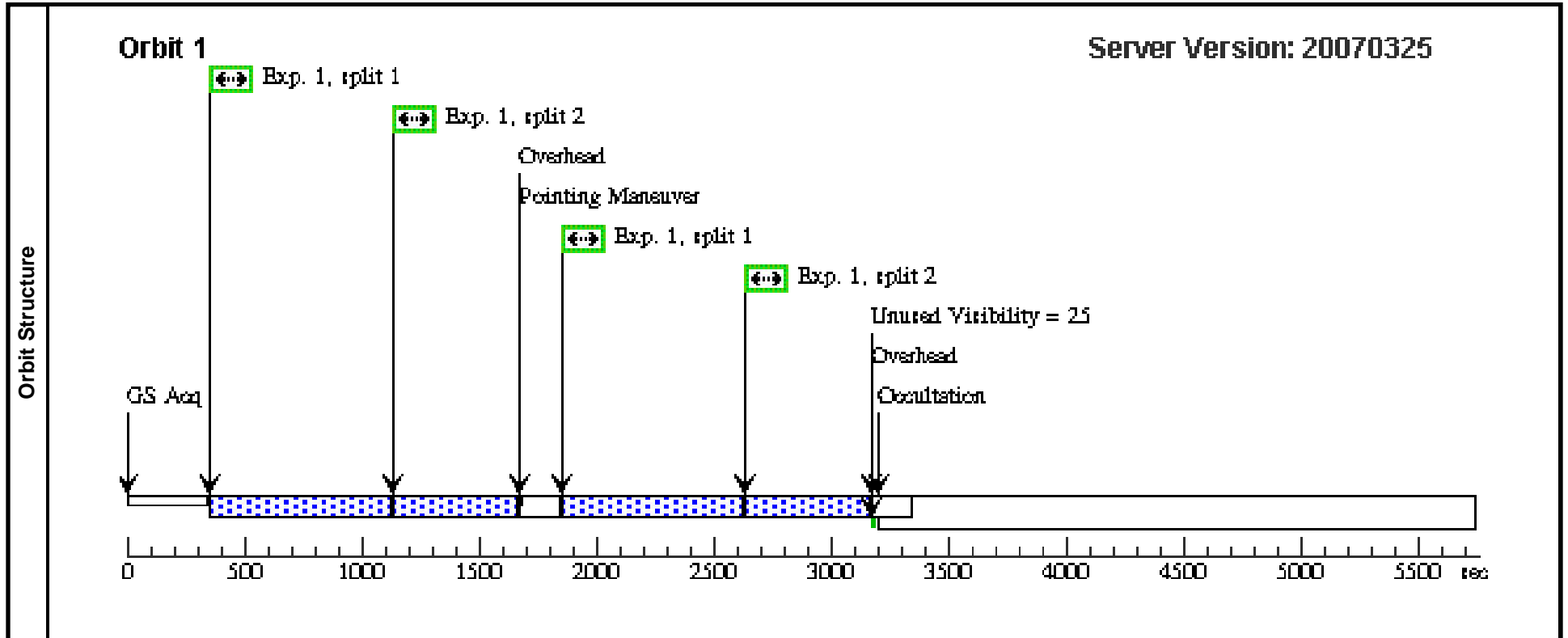
<b>Visit</b>	<b>Proposal 11194, Visit 03, implementation</b> <b>Diagnostic Status: No Diagnostics</b> Scientific Instruments: WFPC2 Special Requirements: SAME ORIENT AS 01										
	<b>Patterns</b>	<b>#</b>	<b>Primary Pattern</b>				<b>Secondary Pattern</b>				<b>Exposures</b>
(1)		Pattern Type=WFPC2-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.354 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=45 Angle Between Sides= Center Pattern=false					(1)			
<b>Fixed Targets</b>	<b>#</b>	<b>Name</b>	<b>Target Coordinates</b>		<b>Targ. Coord. Corrections</b>		<b>Fluxes</b>	<b>Miscellaneous</b>			
	(3)	ABELL-1758NP3	RA: 13 32 40.0386 (203.1668275d) Dec: +50 31 47.41 (50.52984d) Equinox: J2000				V=25.0	Reference Frame: NED			
<i>Comments: This object was generated by the targetselector and retrieved from the NED database.</i>											
<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		(3) ABELL-1758NP 3	WFPC2, IMAGE, WF3-FIX	F606W			Pattern 1-1 (1)	1010.0 Secs [=>500.0 Secs (Pattern 1, Split 1)] [=>500.0 Secs (Pattern 1, Split 2)] [=>500.0 Secs (Pattern 2, Split 1)] [=>500.0 Secs (Pattern 2, Split 2)]	[1]	



Proposal 11194 - Visit 04 - Beyond the Bullet: Direct Detection of Dark Matter in Merging Galaxy Clusters

Thu May 31 01:49:02 GMT 2007

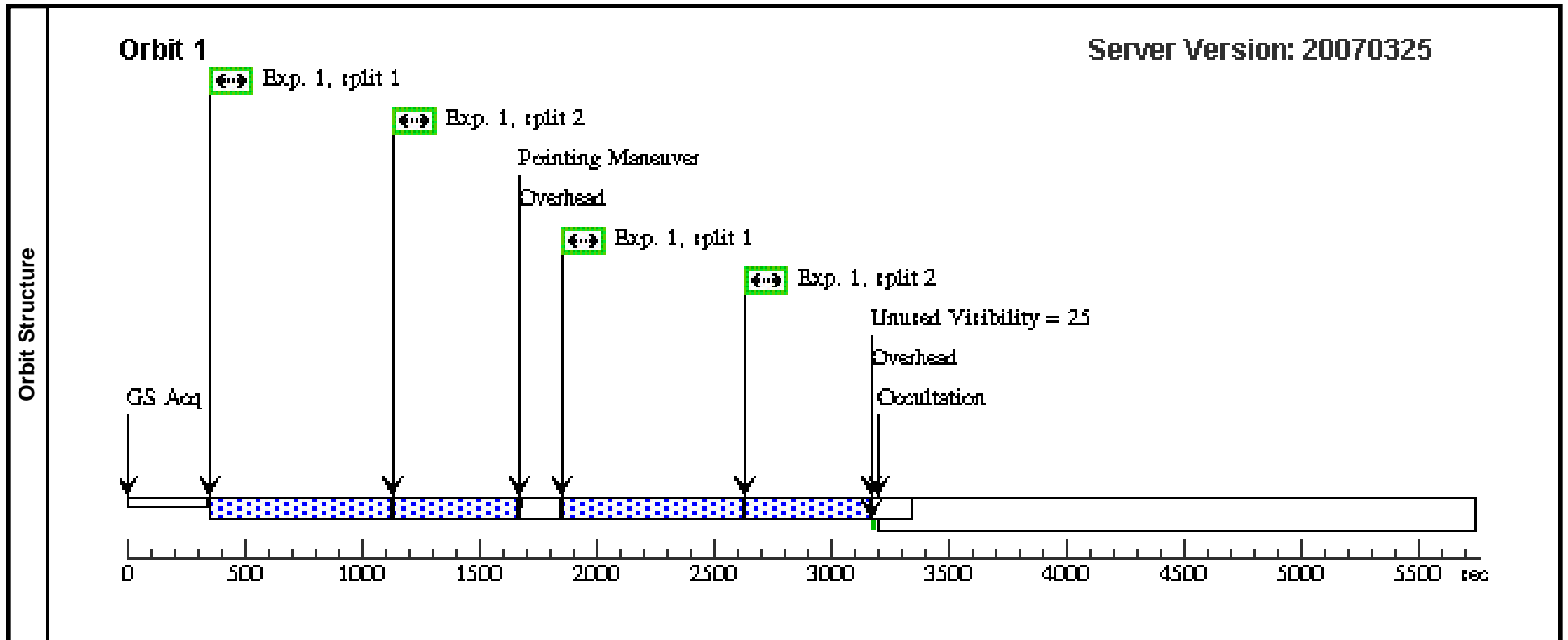
<b>Visit</b>	<b>Proposal 11194, Visit 04, implementation</b> <b>Diagnostic Status: No Diagnostics</b> Scientific Instruments: WFPC2 Special Requirements: SAME ORIENT AS 01										
	<b>Patterns</b>	<b>#</b>	<b>Primary Pattern</b>				<b>Secondary Pattern</b>				<b>Exposures</b>
(1)		Pattern Type=WFPC2-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.354 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=45 Angle Between Sides= Center Pattern=false					(1)			
<b>Fixed Targets</b>	<b>#</b>	<b>Name</b>	<b>Target Coordinates</b>		<b>Targ. Coord. Corrections</b>	<b>Fluxes</b>	<b>Miscellaneous</b>				
	(4)	ABELL-1758NP4	RA: 13 32 33.4359 (203.1393162d) Dec: +50 32 33.96 (50.54277d) Equinox: J2000			V=25.0	Reference Frame: NED				
<i>Comments: This object was generated by the targetselector and retrieved from the NED database.</i>											
<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		(4) ABELL-1758NP 4	WFPC2, IMAGE, WF3-FIX	F606W			Pattern 1-1 (1)	1010.0 Secs [=>500.0 Secs (Pattern 1, Split 1)] [=>500.0 Secs (Pattern 1, Split 2)] [=>500.0 Secs (Pattern 2, Split 1)] [=>500.0 Secs (Pattern 2, Split 2)]	[1]	



Proposal 11194 - Visit 05 - Beyond the Bullet: Direct Detection of Dark Matter in Merging Galaxy Clusters

Thu May 31 01:49:03 GMT 2007

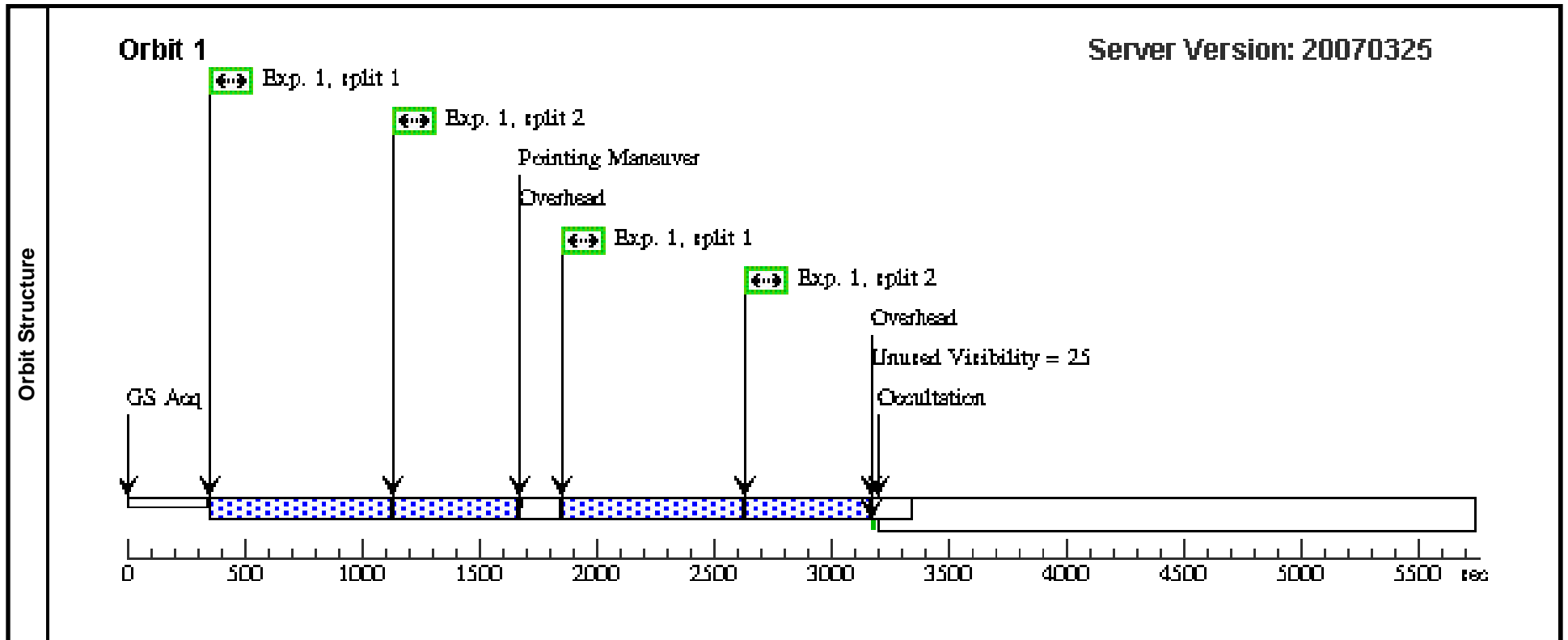
<b>Visit</b>	<b>Proposal 11194, Visit 05, implementation</b> <b>Diagnostic Status: No Diagnostics</b> Scientific Instruments: WFPC2 Special Requirements: SAME ORIENT AS 01										
	<b>Patterns</b>	<b>#</b>	<b>Primary Pattern</b>				<b>Secondary Pattern</b>				<b>Exposures</b>
(1)		Pattern Type=WFPC2-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.354 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=45 Angle Between Sides= Center Pattern=false					(1)			
<b>Fixed Targets</b>	<b>#</b>	<b>Name</b>	<b>Target Coordinates</b>	<b>Targ. Coord. Corrections</b>		<b>Fluxes</b>	<b>Miscellaneous</b>				
	(5)	ABELL-1758NP5	RA: 13 32 38.1631 (203.1590129d) Dec: +50 33 36.58 (50.56016d) Equinox: J2000			V=25.0	Reference Frame: NED				
<i>Comments: This object was generated by the targetselector and retrieved from the NED database.</i>											
<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		(5) ABELL-1758NP 5	WFPC2, IMAGE, WF3-FIX	F606W			Pattern 1-1 (1)	1010.0 Secs [=>500.0 Secs (Pattern 1, Split 1)] [=>500.0 Secs (Pattern 1, Split 2)] [=>500.0 Secs (Pattern 2, Split 1)] [=>500.0 Secs (Pattern 2, Split 2)]	[1]	



Proposal 11194 - Visit 06 - Beyond the Bullet: Direct Detection of Dark Matter in Merging Galaxy Clusters

Thu May 31 01:49:04 GMT 2007

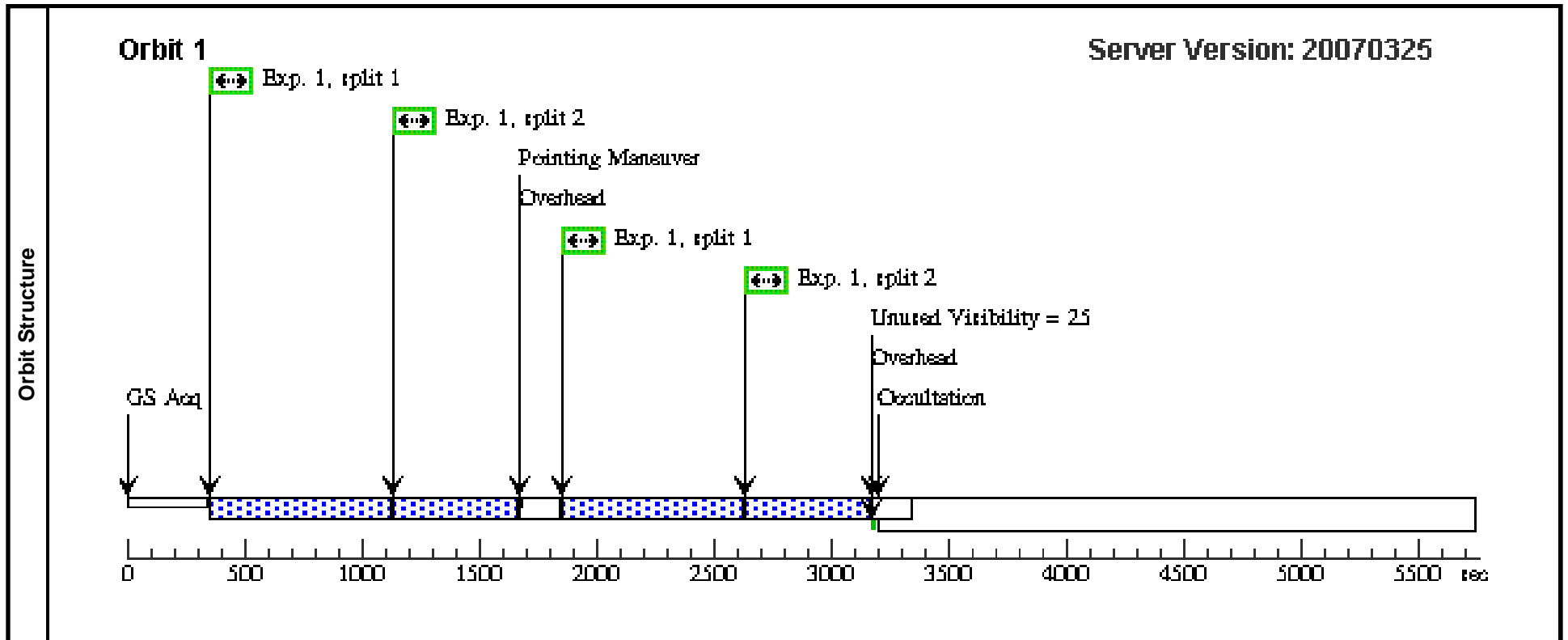
<b>Visit</b>	<b>Proposal 11194, Visit 06, implementation</b> <b>Diagnostic Status: No Diagnostics</b> Scientific Instruments: WFPC2 Special Requirements: SAME ORIENT AS 01										
	<b>Patterns</b>	<b>#</b>	<b>Primary Pattern</b>				<b>Secondary Pattern</b>				<b>Exposures</b>
(1)		Pattern Type=WFPC2-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.354 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=45 Angle Between Sides= Center Pattern=false					(1)			
<b>Fixed Targets</b>	<b>#</b>	<b>Name</b>	<b>Target Coordinates</b>	<b>Targ. Coord. Corrections</b>		<b>Fluxes</b>	<b>Miscellaneous</b>				
	(6)	ABELL-1758NP6	RA: 13 32 44.9684 (203.1873683d) Dec: +50 32 49.65 (50.54712d) Equinox: J2000			V=25.0	Reference Frame: NED				
<i>Comments: This object was generated by the targetselector and retrieved from the NED database.</i>											
<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		(6) ABELL-1758NP6	WFPC2, IMAGE, WF3-FIX	F606W			Pattern 1-1 (1)	1010.0 Secs		
									[=>500.0 Secs (Pattern 1, Split 1)]	[1]	
									[=>500.0 Secs (Pattern 1, Split 2)]		
									[=>500.0 Secs (Pattern 2, Split 1)]		
									[=>500.0 Secs (Pattern 2, Split 2)]		



Proposal 11194 - Visit 07 - Beyond the Bullet: Direct Detection of Dark Matter in Merging Galaxy Clusters

Thu May 31 01:49:04 GMT 2007

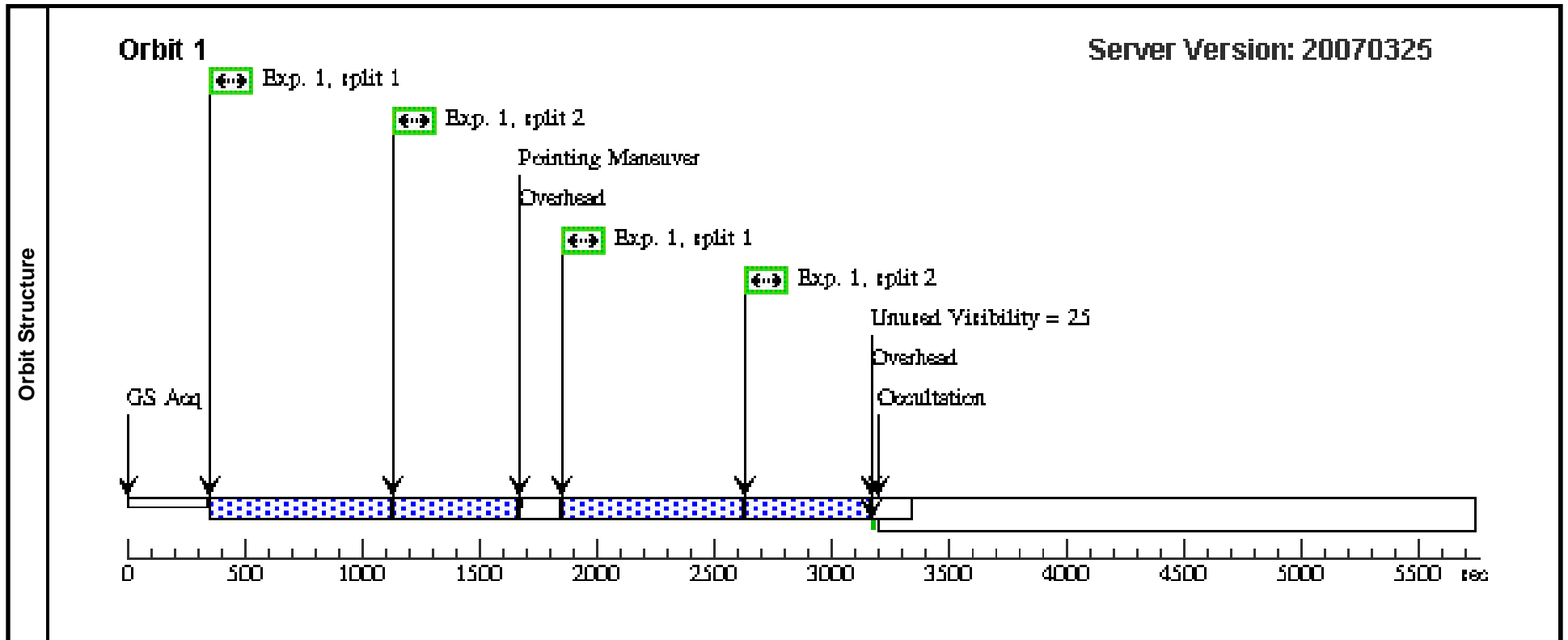
<b>Visit</b>	<b>Proposal 11194, Visit 07, implementation</b> <b>Diagnostic Status: No Diagnostics</b> Scientific Instruments: WFPC2 Special Requirements: SAME ORIENT AS 01										
	<b>Patterns</b>	<b>#</b>	<b>Primary Pattern</b>				<b>Secondary Pattern</b>				<b>Exposures</b>
(1)		Pattern Type=WFPC2-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.354 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=45 Angle Between Sides= Center Pattern=false					(1)			
<b>Fixed Targets</b>	<b>#</b>	<b>Name</b>	<b>Target Coordinates</b>	<b>Targ. Coord. Corrections</b>		<b>Fluxes</b>	<b>Miscellaneous</b>				
	(7)	ABELL-1758NP7	RA: 13 32 51.7331 (203.2155546d) Dec: +50 32 1.71 (50.53381d) Equinox: J2000			V=25.0	Reference Frame: NED				
<i>Comments: This object was generated by the targetselector and retrieved from the NED database.</i>											
<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		(7) ABELL-1758NP 7	WFPC2, IMAGE, WF3-FIX	F606W			Pattern 1-1 (1)	1010.0 Secs [=>500.0 Secs (Pattern 1, Split 1)] [=>500.0 Secs (Pattern 1, Split 2)] [=>500.0 Secs (Pattern 2, Split 1)] [=>500.0 Secs (Pattern 2, Split 2)]	[1]	



Proposal 11194 - Visit 08 - Beyond the Bullet: Direct Detection of Dark Matter in Merging Galaxy Clusters

Thu May 31 01:49:04 GMT 2007

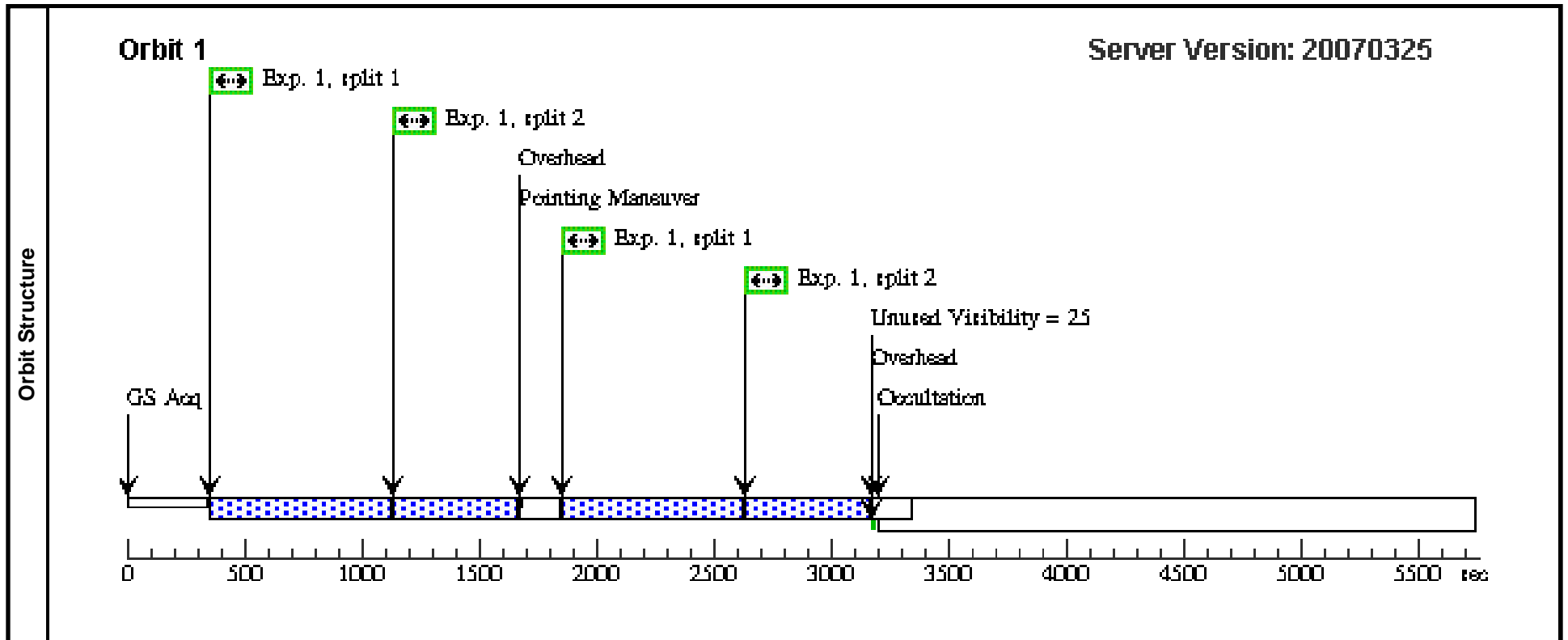
<b>Visit</b>	<b>Proposal 11194, Visit 08, implementation</b> <b>Diagnostic Status: No Diagnostics</b> Scientific Instruments: WFPC2 Special Requirements: SAME ORIENT AS 01									
	<b>Patterns</b>	<b>#</b>	<b>Primary Pattern</b>				<b>Secondary Pattern</b>			
(1)		Pattern Type=WFPC2-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.354 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=45 Angle Between Sides= Center Pattern=false					(1)		
<b>Fixed Targets</b>	<b>#</b>	<b>Name</b>	<b>Target Coordinates</b>	<b>Targ. Coord. Corrections</b>	<b>Fluxes</b>	<b>Miscellaneous</b>				
	(8)	ABELL-1758NP8	RA: 13 32 58.3887 (203.2432862d) Dec: +50 31 16.27 (50.52119d) Equinox: J2000		V=25.0	Reference Frame: NED				
<i>Comments: This object was generated by the targetselector and retrieved from the NED database.</i>										
<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		(8) ABELL-1758NP 8	WFPC2, IMAGE, WF3-FIX	F606W			Pattern 1-1 (1)	1010.0 Secs [=>500.0 Secs (Pattern 1, Split 1)] [=>500.0 Secs (Pattern 1, Split 2)] [=>500.0 Secs (Pattern 2, Split 1)] [=>500.0 Secs (Pattern 2, Split 2)]	[1]



Proposal 11194 - Visit 09 - Beyond the Bullet: Direct Detection of Dark Matter in Merging Galaxy Clusters

Thu May 31 01:49:05 GMT 2007

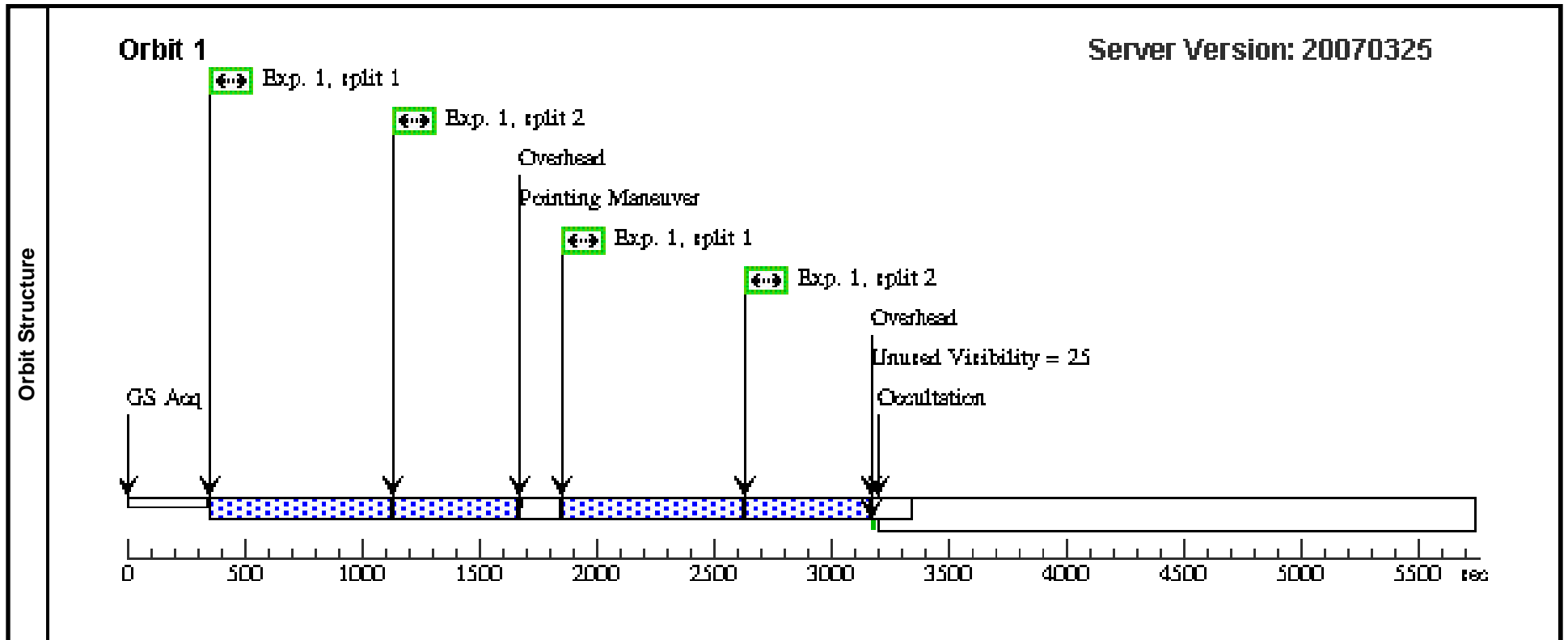
<b>Visit</b>	<b>Proposal 11194, Visit 09, implementation</b> <b>Diagnostic Status: No Diagnostics</b> Scientific Instruments: WFPC2 Special Requirements: SAME ORIENT AS 01									
	<b>Patterns</b>	<b>#</b>	<b>Primary Pattern</b>				<b>Secondary Pattern</b>			
(1)		Pattern Type=WFPC2-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.354 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=45 Angle Between Sides= Center Pattern=false					(1)		
<b>Fixed Targets</b>	<b>#</b>	<b>Name</b>	<b>Target Coordinates</b>	<b>Targ. Coord. Corrections</b>	<b>Fluxes</b>	<b>Miscellaneous</b>				
	(9)	ABELL-1758NP9	RA: 13 32 42.9199 (203.1788329d) Dec: +50 34 35.42 (50.57651d) Equinox: J2000		V=25.0	Reference Frame: NED				
<i>Comments: This object was generated by the targetselector and retrieved from the NED database.</i>										
<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		(9) ABELL-1758NP 9	WFPC2, IMAGE, WF3-FIX	F606W			Pattern 1-1 (1)	1010.0 Secs [=>500.0 Secs (Pattern 1, Split 1)] [=>500.0 Secs (Pattern 1, Split 2)] [=>500.0 Secs (Pattern 2, Split 1)] [=>500.0 Secs (Pattern 2, Split 2)]	[1]



Proposal 11194 - Visit 10 - Beyond the Bullet: Direct Detection of Dark Matter in Merging Galaxy Clusters

Thu May 31 01:49:05 GMT 2007

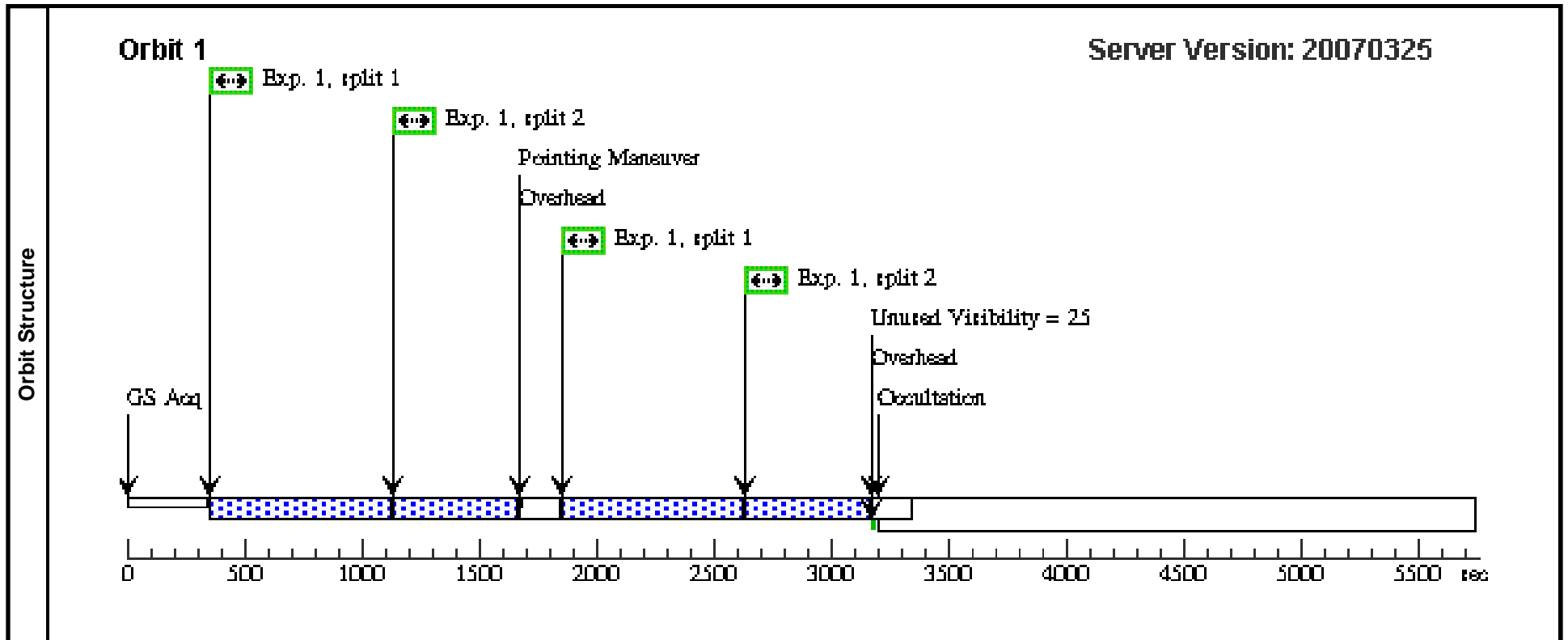
<b>Visit</b>	<b>Proposal 11194, Visit 10, implementation</b> <b>Diagnostic Status: No Diagnostics</b> Scientific Instruments: WFPC2 Special Requirements: SAME ORIENT AS 01										
	<b>Patterns</b>	<b>#</b>	<b>Primary Pattern</b>				<b>Secondary Pattern</b>				<b>Exposures</b>
(1)		Pattern Type=WFPC2-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.354 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=45 Angle Between Sides= Center Pattern=false					(1)			
<b>Fixed Targets</b>	<b>#</b>	<b>Name</b>	<b>Target Coordinates</b>		<b>Targ. Coord. Corrections</b>		<b>Fluxes</b>	<b>Miscellaneous</b>			
	(10)	ABELL-1758NP10	RA: 13 32 49.4776 (203.2061567d) Dec: +50 33 48.50 (50.56347d) Equinox: J2000				V=25.0	Reference Frame: NED			
<i>Comments: This object was generated by the targetselector and retrieved from the NED database.</i>											
<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		(10) ABELL-1758N P10	WFPC2, IMAGE, WF3-FIX	F606W			Pattern 1-1 (1)	1010.0 Secs [=>500.0 Secs (Pattern 1, Split 1)] [=>500.0 Secs (Pattern 1, Split 2)] [=>500.0 Secs (Pattern 2, Split 1)] [=>500.0 Secs (Pattern 2, Split 2)]	[1]	



Proposal 11194 - Visit 11 - Beyond the Bullet: Direct Detection of Dark Matter in Merging Galaxy Clusters

Thu May 31 01:49:05 GMT 2007

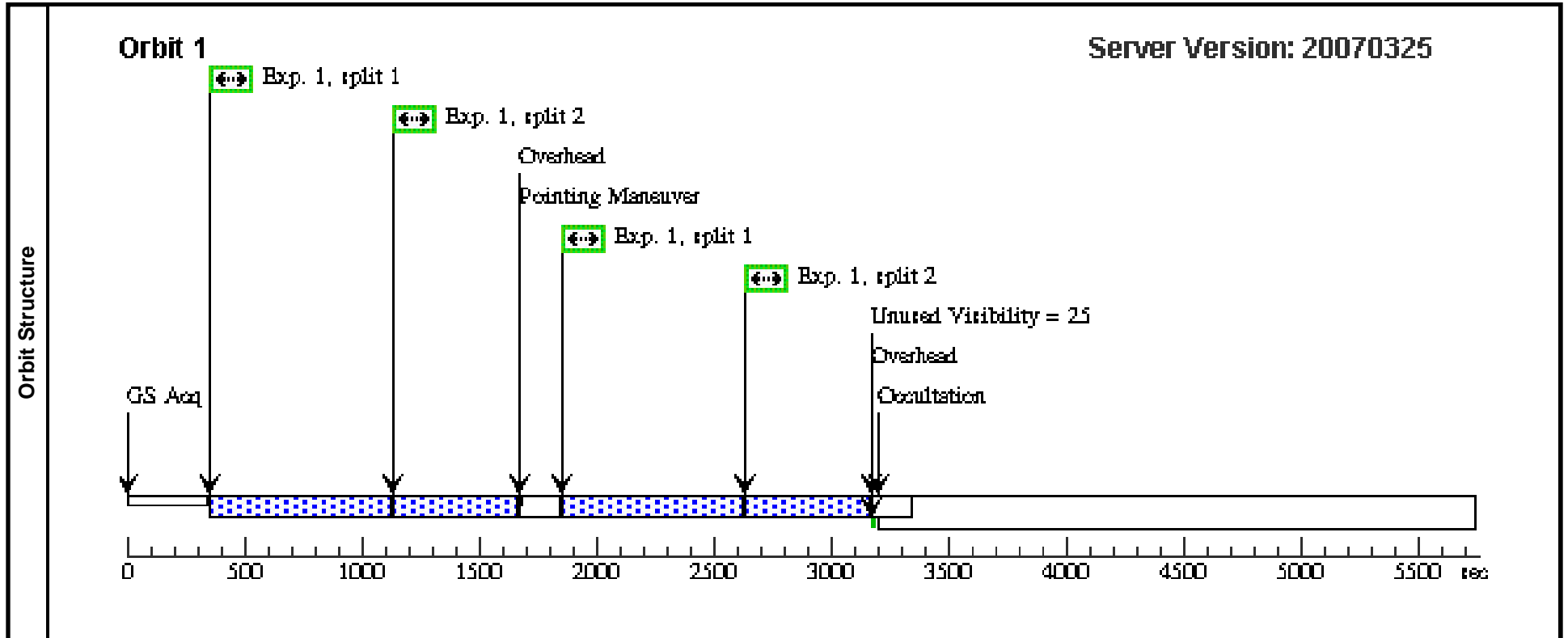
<b>Visit</b>	<b>Proposal 11194, Visit 11, implementation</b> <b>Diagnostic Status: No Diagnostics</b> Scientific Instruments: WFPC2 Special Requirements: SAME ORIENT AS 01									
	<b>Patterns</b>	<b>#</b>	<b>Primary Pattern</b>				<b>Secondary Pattern</b>			
(1)		Pattern Type=WFPC2-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.354 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=45 Angle Between Sides= Center Pattern=false					(1)		
<b>Fixed Targets</b>	<b>#</b>	<b>Name</b>	<b>Target Coordinates</b>	<b>Targ. Coord. Corrections</b>	<b>Fluxes</b>	<b>Miscellaneous</b>				
	(11)	ABELL-1758PN11	RA: 13 32 56.1378 (203.2339075d) Dec: +50 33 2.05 (50.55057d) Equinox: J2000		V=25.0	Reference Frame: NED				
<i>Comments: This object was generated by the targetselector and retrieved from the NED database.</i>										
<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		(11) ABELL-1758P N11	WFPC2, IMAGE, WF3-FIX	F606W			Pattern 1-1 (1)	1010.0 Secs [=>500.0 Secs (Pattern 1, Split 1)] [=>500.0 Secs (Pattern 1, Split 2)] [=>500.0 Secs (Pattern 2, Split 1)] [=>500.0 Secs (Pattern 2, Split 2)]	[1]



Proposal 11194 - Visit 12 - Beyond the Bullet: Direct Detection of Dark Matter in Merging Galaxy Clusters

Thu May 31 01:49:06 GMT 2007

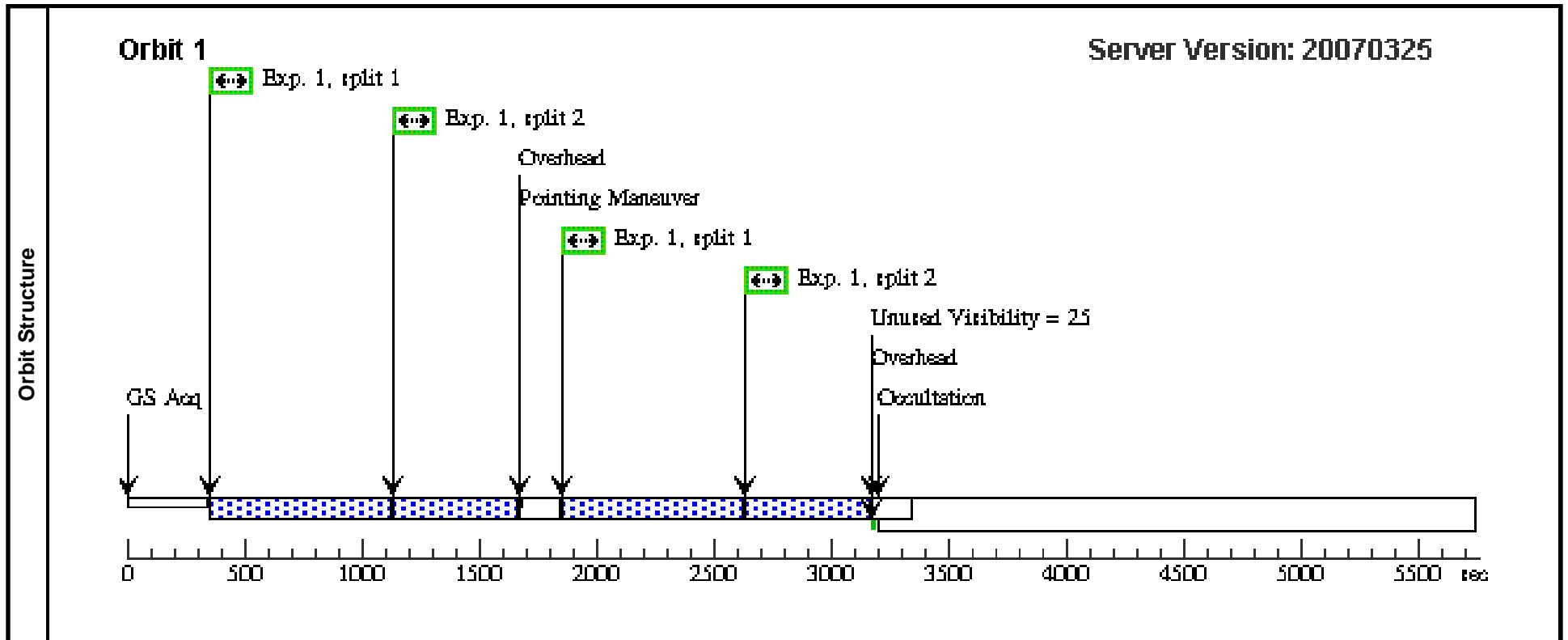
<b>Visit</b>	<b>Proposal 11194, Visit 12, implementation</b> <b>Diagnostic Status: No Diagnostics</b> Scientific Instruments: WFPC2 Special Requirements: SAME ORIENT AS 01										
	<b>Patterns</b>	<b>#</b>	<b>Primary Pattern</b>				<b>Secondary Pattern</b>				<b>Exposures</b>
(1)		Pattern Type=WFPC2-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.354 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=45 Angle Between Sides= Center Pattern=false					(1)			
<b>Fixed Targets</b>	<b>#</b>	<b>Name</b>	<b>Target Coordinates</b>	<b>Targ. Coord. Corrections</b>		<b>Fluxes</b>	<b>Miscellaneous</b>				
	(12)	ABELL-1758NP12	RA: 13 33 2.9002 (203.2620842d) Dec: +50 32 15.59 (50.53766d) Equinox: J2000			V=25.0	Reference Frame: NED				
<i>Comments: This object was generated by the targetselector and retrieved from the NED database.</i>											
<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		(12) ABELL-1758N P12	WFPC2, IMAGE, WF3-FIX	F606W			Pattern 1-1 (1)	1010.0 Secs [=>500.0 Secs (Pattern 1, Split 1)] [=>500.0 Secs (Pattern 1, Split 2)] [=>500.0 Secs (Pattern 2, Split 1)] [=>500.0 Secs (Pattern 2, Split 2)]	[1]	



Proposal 11194 - Visit 13 - Beyond the Bullet: Direct Detection of Dark Matter in Merging Galaxy Clusters

Thu May 31 01:49:06 GMT 2007

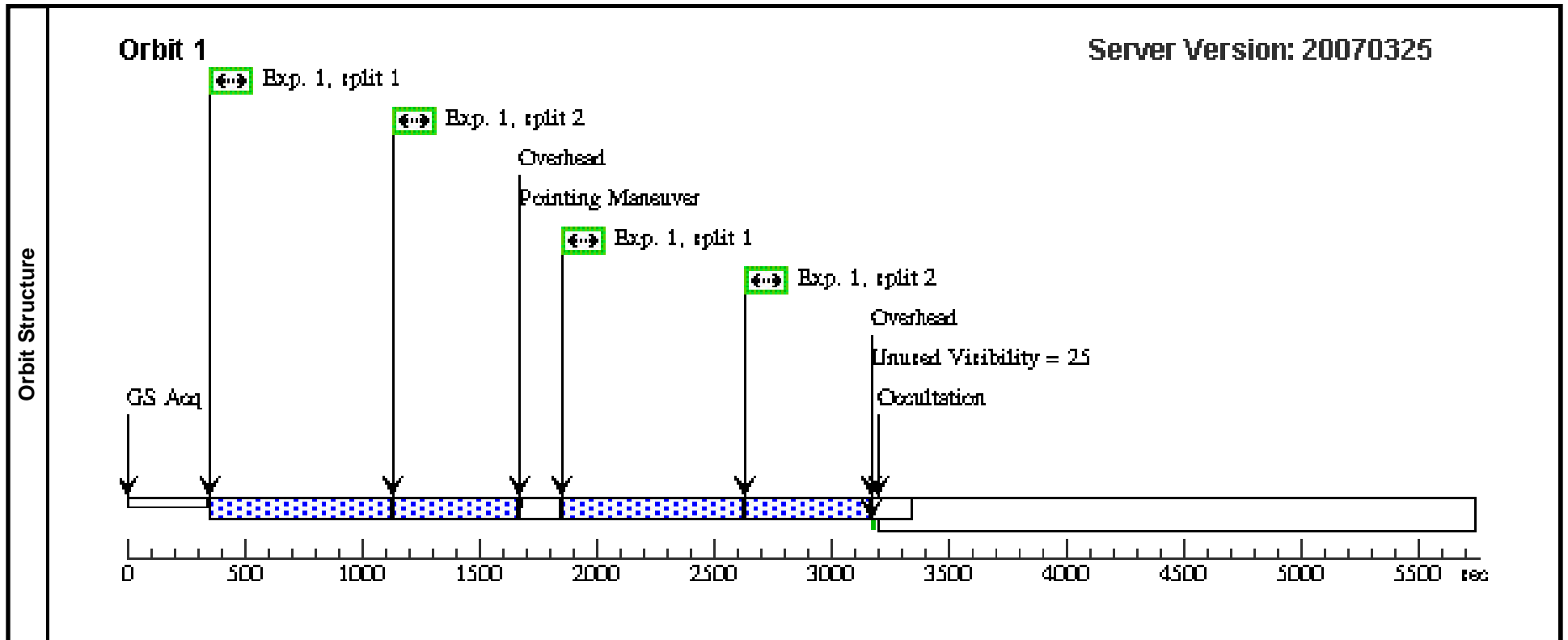
<b>Visit</b>	<b>Proposal 11194, Visit 13, implementation</b> <b>Diagnostic Status: No Diagnostics</b> Scientific Instruments: WFPC2 Special Requirements: SAME ORIENT AS 01									
	<b>Patterns</b>	<b>#</b>	<b>Primary Pattern</b>				<b>Secondary Pattern</b>			
(1)		Pattern Type=WFPC2-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.354 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=45 Angle Between Sides= Center Pattern=false					(1)		
<b>Fixed Targets</b>	<b>#</b>	<b>Name</b>	<b>Target Coordinates</b>	<b>Targ. Coord. Corrections</b>	<b>Fluxes</b>	<b>Miscellaneous</b>				
	(13)	ABELL-1758NP13	RA: 13 33 4.9347 (203.2705613d) Dec: +50 30 29.81 (50.50828d) Equinox: J2000		V=25.0	Reference Frame: NED				
<i>Comments: This object was generated by the targetselector and retrieved from the NED database.</i>										
<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		(13) ABELL-1758N P13	WFPC2, IMAGE, WF3-FIX	F606W			Pattern 1-1 (1)	1010.0 Secs [=>500.0 Secs (Pattern 1, Split 1)] [=>500.0 Secs (Pattern 1, Split 2)] [=>500.0 Secs (Pattern 2, Split 1)] [=>500.0 Secs (Pattern 2, Split 2)]	[1]



Proposal 11194 - Visit 14 - Beyond the Bullet: Direct Detection of Dark Matter in Merging Galaxy Clusters

Thu May 31 01:49:06 GMT 2007

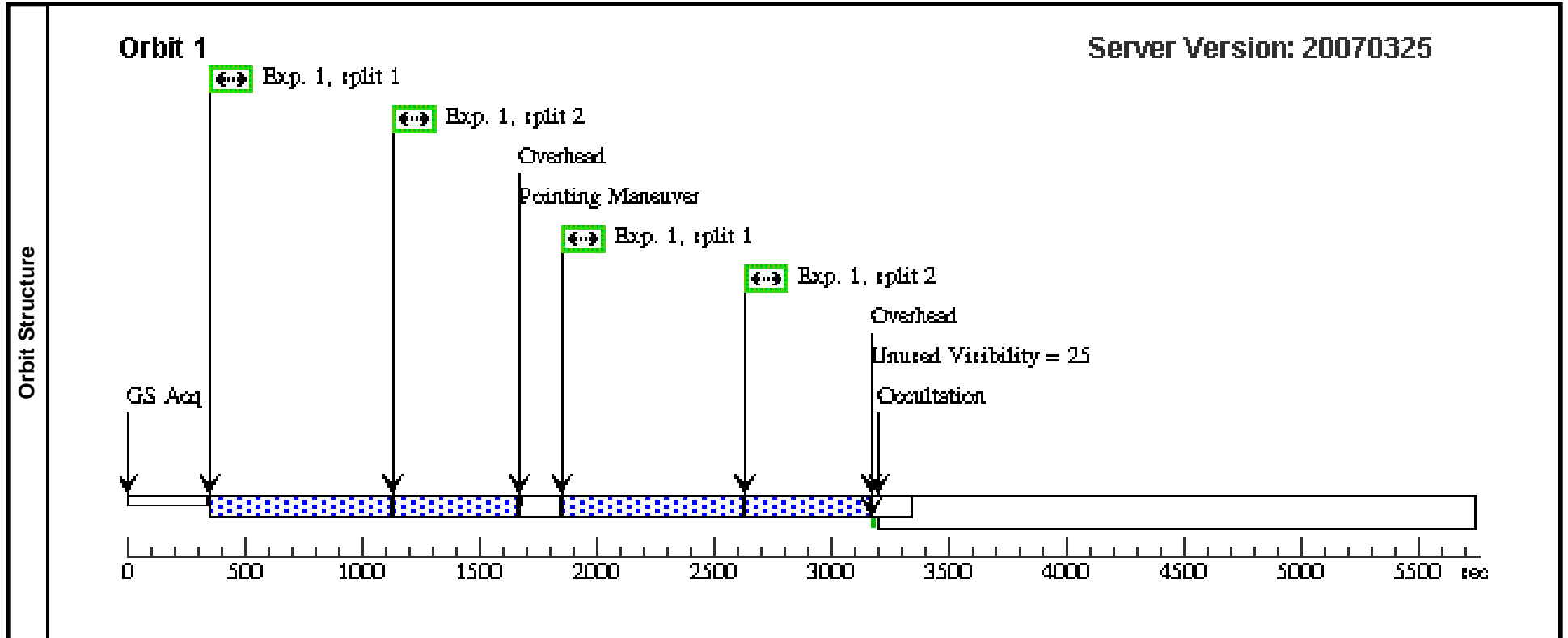
<b>Visit</b>	<b>Proposal 11194, Visit 14, implementation</b> <b>Diagnostic Status: No Diagnostics</b> Scientific Instruments: WFPC2 Special Requirements: SAME ORIENT AS 01										
	<b>Patterns</b>	<b>#</b>	<b>Primary Pattern</b>				<b>Secondary Pattern</b>				<b>Exposures</b>
(1)		Pattern Type=WFPC2-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.354 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=45 Angle Between Sides= Center Pattern=false					(1)			
<b>Fixed Targets</b>	<b>#</b>	<b>Name</b>	<b>Target Coordinates</b>	<b>Targ. Coord. Corrections</b>		<b>Fluxes</b>	<b>Miscellaneous</b>				
	(14)	ABELL-1758NP14	RA: 13 33 0.0018 (203.2500075d) Dec: +50 29 28.51 (50.49125d) Equinox: J2000			V=25.0	Reference Frame: NED				
<i>Comments: This object was generated by the targetselector and retrieved from the NED database.</i>											
<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		(14) ABELL-1758N P14	WFPC2, IMAGE, WF3-FIX	F606W			Pattern 1-1 (1)	1010.0 Secs [=>500.0 Secs (Pattern 1, Split 1)] [=>500.0 Secs (Pattern 1, Split 2)] [=>500.0 Secs (Pattern 2, Split 1)] [=>500.0 Secs (Pattern 2, Split 2)]	[1]	



Proposal 11194 - Visit 15 - Beyond the Bullet: Direct Detection of Dark Matter in Merging Galaxy Clusters

Thu May 31 01:49:07 GMT 2007

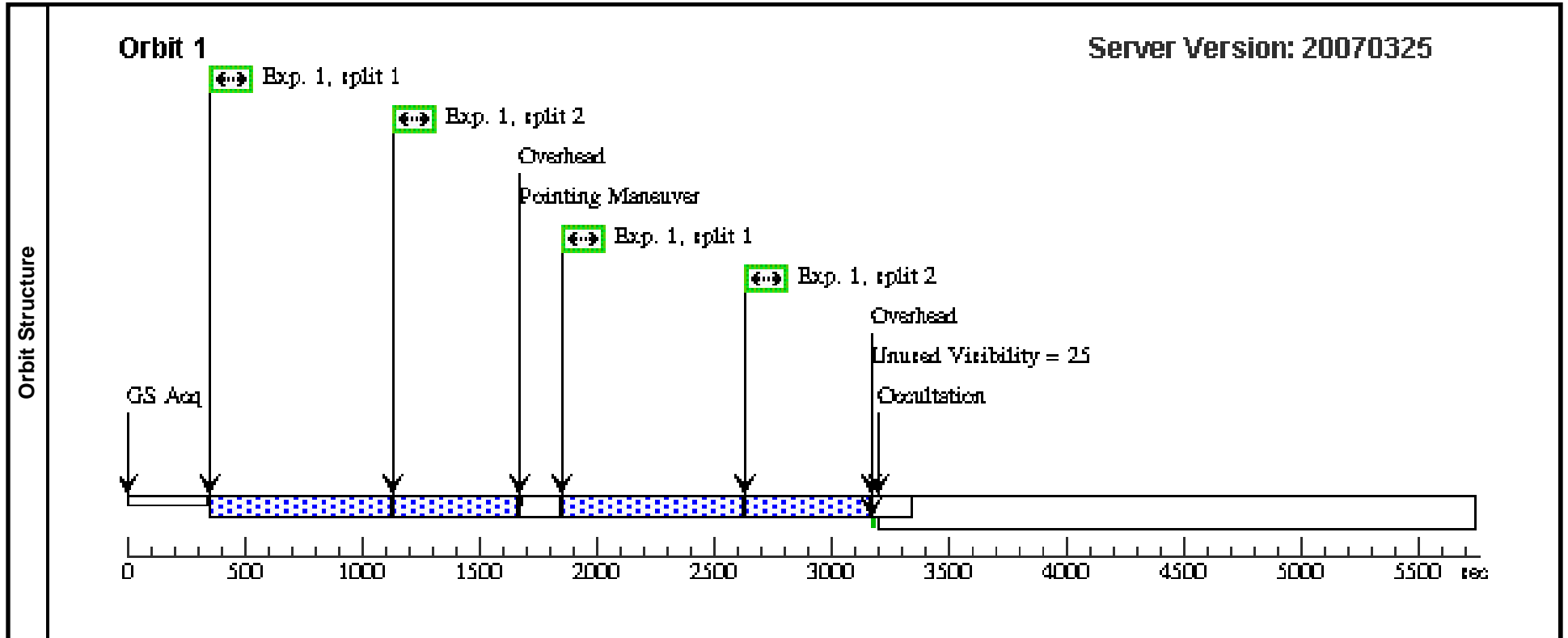
<b>Visit</b>	<b>Proposal 11194, Visit 15, implementation</b> <b>Diagnostic Status: No Diagnostics</b> Scientific Instruments: WFPC2 Special Requirements: SAME ORIENT AS 01										
	<b>Patterns</b>	<b>#</b>	<b>Primary Pattern</b>				<b>Secondary Pattern</b>				<b>Exposures</b>
(1)		Pattern Type=WFPC2-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.354 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=45 Angle Between Sides= Center Pattern=false					(1)			
<b>Fixed Targets</b>	<b>#</b>	<b>Name</b>	<b>Target Coordinates</b>		<b>Targ. Coord. Corrections</b>		<b>Fluxes</b>	<b>Miscellaneous</b>			
	(15)	ABELL-1758NP15	RA: 13 32 48.9529 (203.2039704d) Dec: +50 29 12.57 (50.48682d) Equinox: J2000				V=25.0	Reference Frame: NED			
<i>Comments: This object was generated by the targetselector and retrieved from the NED database.</i>											
<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		(15) ABELL-1758N P15	WFPC2, IMAGE, WF3-FIX	F606W			Pattern 1-1 (1)	1010.0 Secs [=>500.0 Secs (Pattern 1, Split 1)] [=>500.0 Secs (Pattern 1, Split 2)] [=>500.0 Secs (Pattern 2, Split 1)] [=>500.0 Secs (Pattern 2, Split 2)]	[1]	



Proposal 11194 - Visit 16 - Beyond the Bullet: Direct Detection of Dark Matter in Merging Galaxy Clusters

Thu May 31 01:49:07 GMT 2007

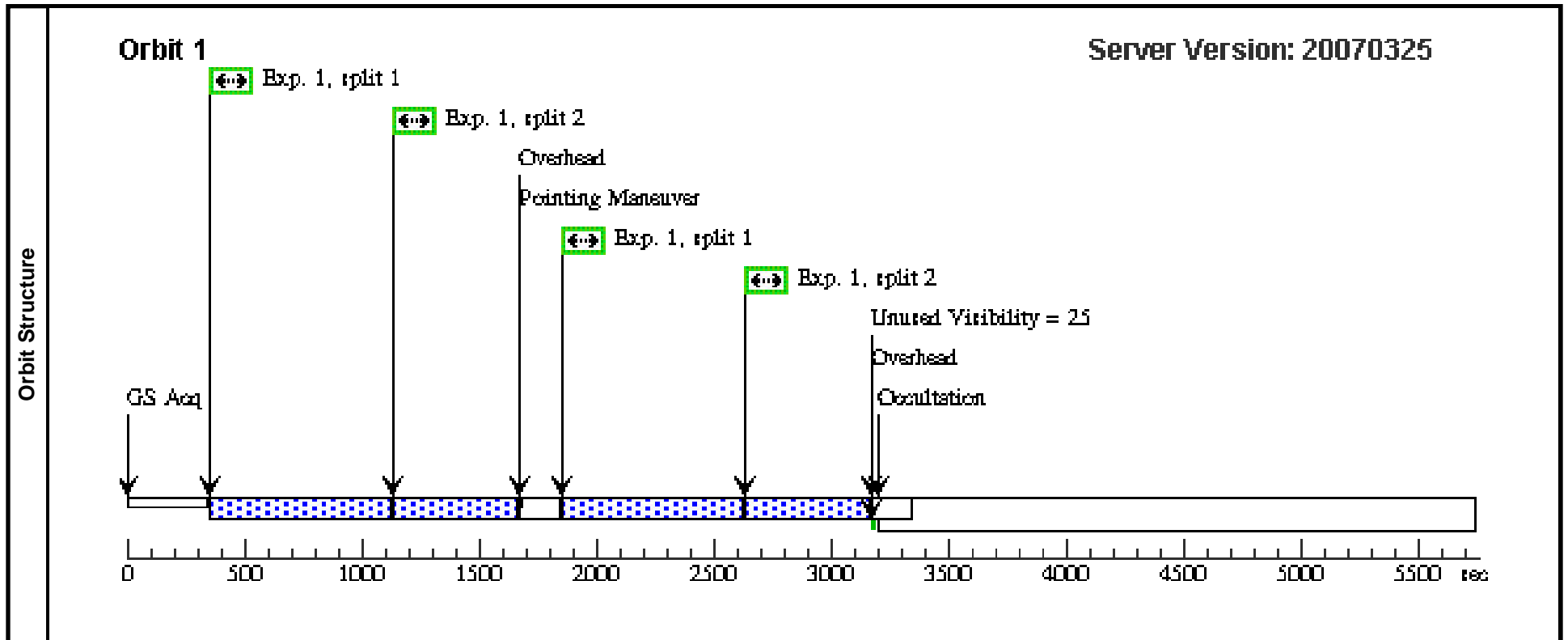
<b>Visit</b>	<b>Proposal 11194, Visit 16, implementation</b> <b>Diagnostic Status: No Diagnostics</b> Scientific Instruments: WFPC2 Special Requirements: SAME ORIENT AS 01										
	<b>Patterns</b>	<b>#</b>	<b>Primary Pattern</b>				<b>Secondary Pattern</b>				<b>Exposures</b>
(1)		Pattern Type=WFPC2-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.354 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=45 Angle Between Sides= Center Pattern=false					(1)			
<b>Fixed Targets</b>	<b>#</b>	<b>Name</b>	<b>Target Coordinates</b>		<b>Targ. Coord. Corrections</b>		<b>Fluxes</b>	<b>Miscellaneous</b>			
	(16)	ABELL-1758NP16	RA: 13 32 42.4553 (203.1768971d) Dec: +50 29 59.03 (50.49973d) Equinox: J2000				V=25.0	Reference Frame: NED			
<i>Comments: This object was generated by the targetselector and retrieved from the NED database.</i>											
<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		(16) ABELL-1758N P16	WFPC2, IMAGE, WF3-FIX	F606W			Pattern 1-1 (1)	1010.0 Secs [=>500.0 Secs (Pattern 1, Split 1)] [=>500.0 Secs (Pattern 1, Split 2)] [=>500.0 Secs (Pattern 2, Split 1)] [=>500.0 Secs (Pattern 2, Split 2)]	[1]	



Proposal 11194 - Visit 17 - Beyond the Bullet: Direct Detection of Dark Matter in Merging Galaxy Clusters

Thu May 31 01:49:07 GMT 2007

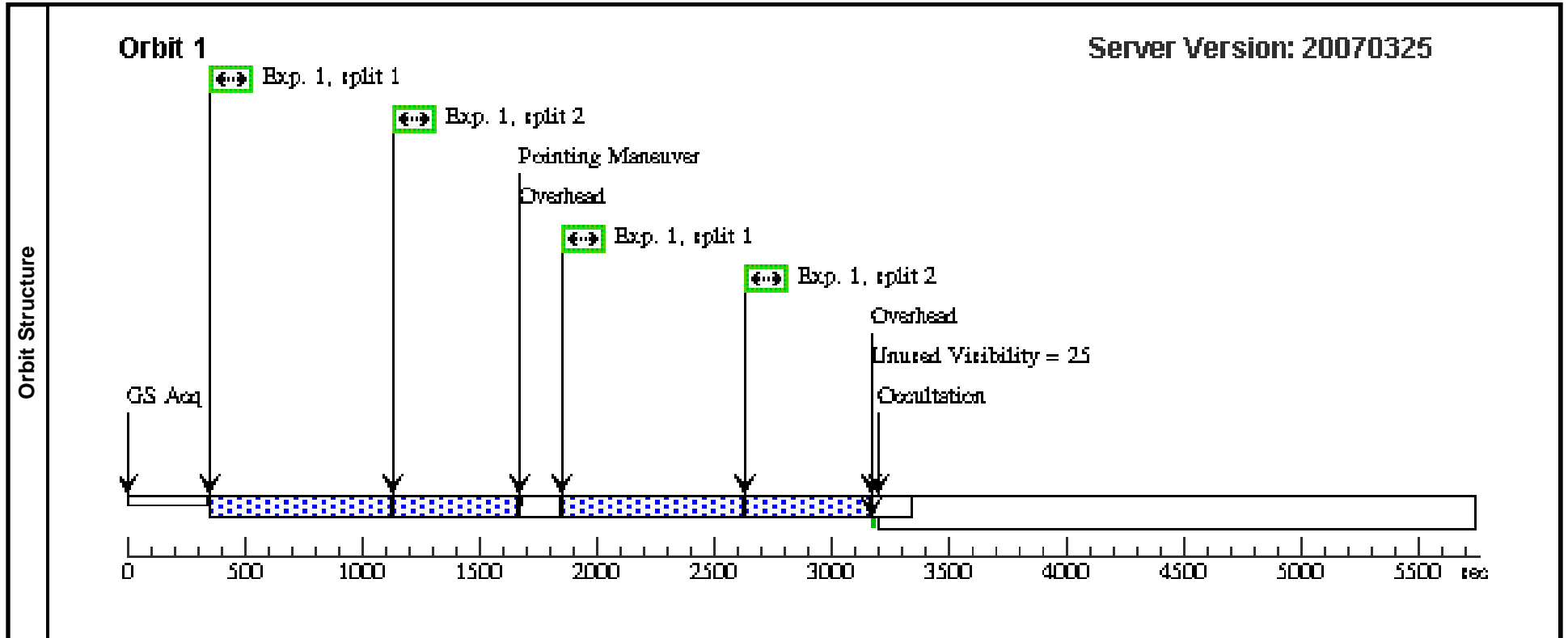
<b>Visit</b>	<b>Proposal 11194, Visit 17, implementation</b> <b>Diagnostic Status: No Diagnostics</b> Scientific Instruments: WFPC2 Special Requirements: SAME ORIENT AS 01										
	<b>Patterns</b>	<b>#</b>	<b>Primary Pattern</b>				<b>Secondary Pattern</b>				<b>Exposures</b>
(1)		Pattern Type=WFPC2-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.354 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=45 Angle Between Sides= Center Pattern=false					(1)			
<b>Fixed Targets</b>	<b>#</b>	<b>Name</b>	<b>Target Coordinates</b>		<b>Targ. Coord. Corrections</b>	<b>Fluxes</b>	<b>Miscellaneous</b>				
	(17)	ABELL-1758NP17	RA: 13 32 36.1169 (203.1504871d) Dec: +50 30 42.51 (50.51181d) Equinox: J2000			V=25.0	Reference Frame: NED				
<i>Comments: This object was generated by the targetselector and retrieved from the NED database.</i>											
<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		(17) ABELL-1758N P17	WFPC2, IMAGE, WF3-FIX	F606W			Pattern 1-1 (1)	1010.0 Secs [=>500.0 Secs (Pattern 1, Split 1)] [=>500.0 Secs (Pattern 1, Split 2)] [=>500.0 Secs (Pattern 2, Split 1)] [=>500.0 Secs (Pattern 2, Split 2)]	[1]	



Proposal 11194 - Visit 18 - Beyond the Bullet: Direct Detection of Dark Matter in Merging Galaxy Clusters

Thu May 31 01:49:08 GMT 2007

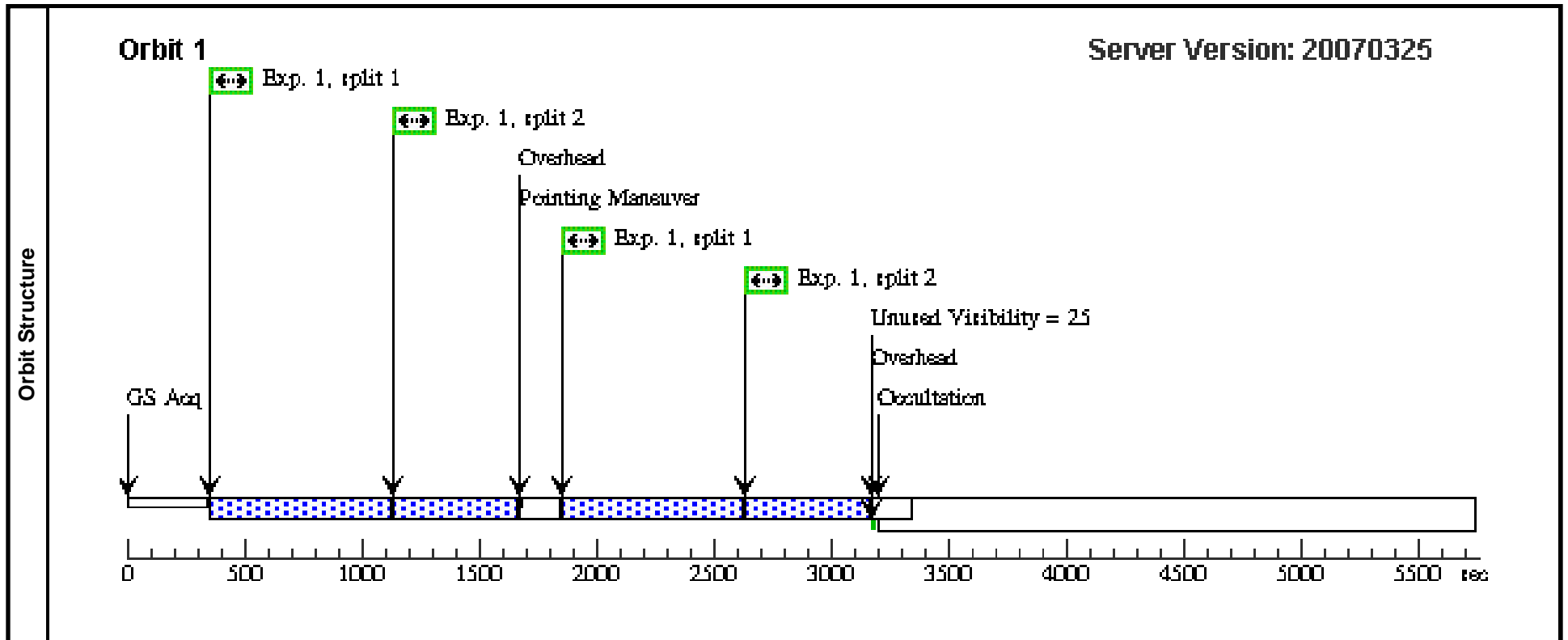
<b>Visit</b>	<b>Proposal 11194, Visit 18, implementation</b> <b>Diagnostic Status: No Diagnostics</b> Scientific Instruments: WFPC2 Special Requirements: SAME ORIENT AS 01									
	<b>Patterns</b>	<b>#</b>	<b>Primary Pattern</b>				<b>Secondary Pattern</b>			
(1)		Pattern Type=WFPC2-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.354 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=45 Angle Between Sides= Center Pattern=false					(1)		
<b>Fixed Targets</b>	<b>#</b>	<b>Name</b>	<b>Target Coordinates</b>	<b>Targ. Coord. Corrections</b>	<b>Fluxes</b>	<b>Miscellaneous</b>				
	(18)	ABELL-1758NP18	RA: 13 32 28.7224 (203.1196767d) Dec: +50 31 33.07 (50.52585d) Equinox: J2000		V=25.0	Reference Frame: NED				
<i>Comments: This object was generated by the targetselector and retrieved from the NED database.</i>										
<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		(18) ABELL-1758N P18	WFPC2, IMAGE, WF3-FIX	F606W			Pattern 1-1 (1)	1010.0 Secs [=>500.0 Secs (Pattern 1, Split 1)] [=>500.0 Secs (Pattern 1, Split 2)] [=>500.0 Secs (Pattern 2, Split 1)] [=>500.0 Secs (Pattern 2, Split 2)]	[1]



Proposal 11194 - Visit 19 - Beyond the Bullet: Direct Detection of Dark Matter in Merging Galaxy Clusters

Thu May 31 01:49:08 GMT 2007

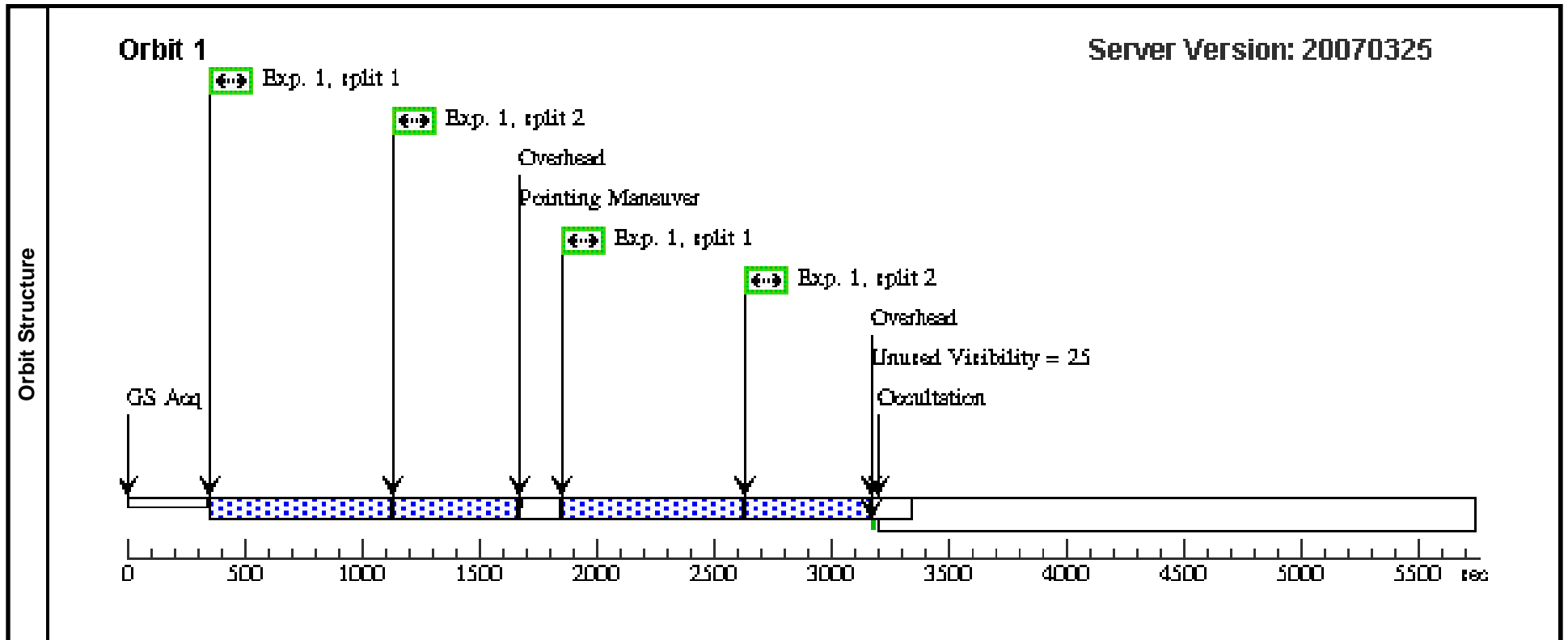
<b>Visit</b>	<b>Proposal 11194, Visit 19, implementation</b> <b>Diagnostic Status: No Diagnostics</b> Scientific Instruments: WFPC2 Special Requirements: SAME ORIENT AS 01										
	<b>Patterns</b>	<b>#</b>	<b>Primary Pattern</b>				<b>Secondary Pattern</b>				<b>Exposures</b>
(1)		Pattern Type=WFPC2-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.354 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=45 Angle Between Sides= Center Pattern=false					(1)			
<b>Fixed Targets</b>	<b>#</b>	<b>Name</b>	<b>Target Coordinates</b>	<b>Targ. Coord. Corrections</b>		<b>Fluxes</b>	<b>Miscellaneous</b>				
	(19)	ABELL-1758NP19	RA: 13 32 27.3101 (203.1137921d) Dec: +50 33 20.55 (50.55571d) Equinox: J2000			V=25.0	Reference Frame: NED				
<i>Comments: This object was generated by the targetselector and retrieved from the NED database.</i>											
<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		(19) ABELL-1758N P19	WFPC2, IMAGE, WF3-FIX	F606W			Pattern 1-1 (1)	1010.0 Secs [=>500.0 Secs (Pattern 1, Split 1)] [=>500.0 Secs (Pattern 1, Split 2)] [=>500.0 Secs (Pattern 2, Split 1)] [=>500.0 Secs (Pattern 2, Split 2)]	[1]	



Proposal 11194 - Visit 20 - Beyond the Bullet: Direct Detection of Dark Matter in Merging Galaxy Clusters

Thu May 31 01:49:09 GMT 2007

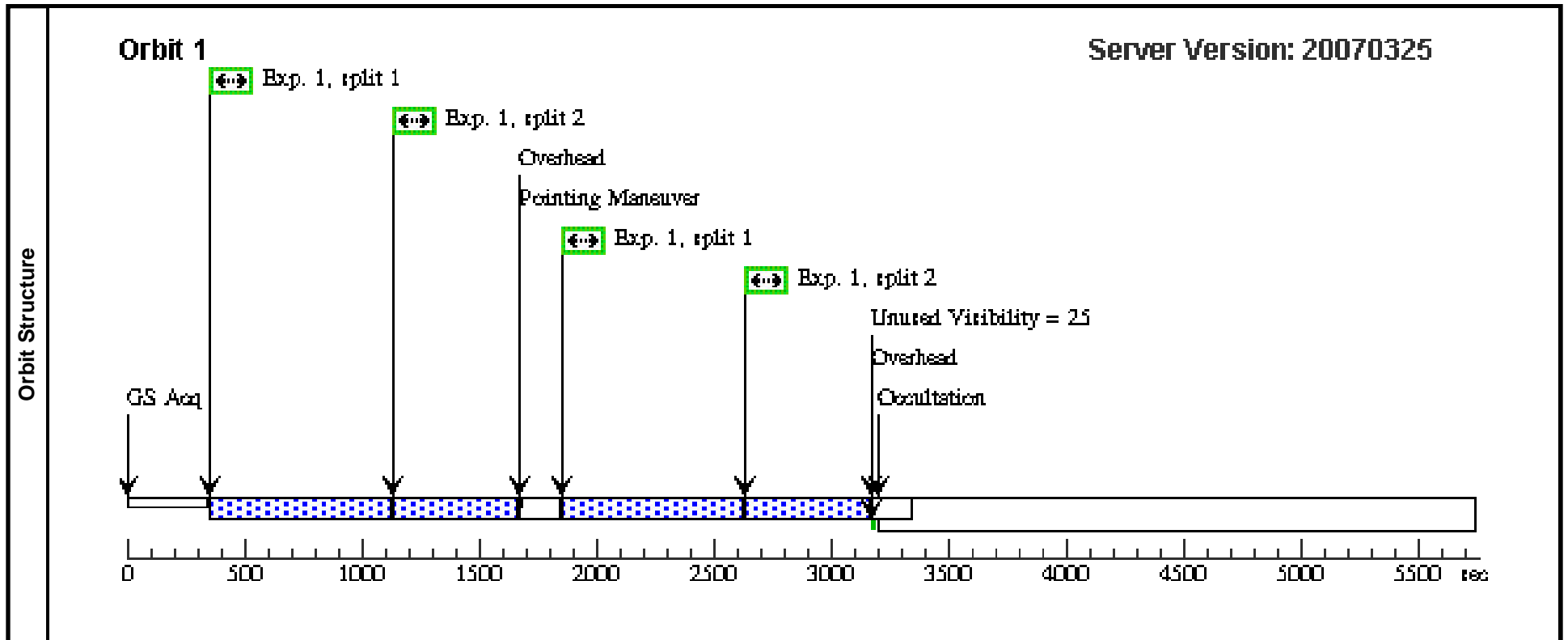
<b>Visit</b>	<b>Proposal 11194, Visit 20, implementation</b> <b>Diagnostic Status: No Diagnostics</b> Scientific Instruments: WFPC2 Special Requirements: SAME ORIENT AS 01									
	<b>Patterns</b>	<b>#</b>	<b>Primary Pattern</b>				<b>Secondary Pattern</b>			
(1)		Pattern Type=WFPC2-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.354 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=45 Angle Between Sides= Center Pattern=false					(1)		
<b>Fixed Targets</b>	<b>#</b>	<b>Name</b>	<b>Target Coordinates</b>	<b>Targ. Coord. Corrections</b>	<b>Fluxes</b>	<b>Miscellaneous</b>				
	(20)	ABELL-1758NP20	RA: 13 32 32.1157 (203.1338154d) Dec: +50 34 20.91 (50.57248d) Equinox: J2000		V=25.0	Reference Frame: NED				
<i>Comments: This object was generated by the targetselector and retrieved from the NED database.</i>										
<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		(20) ABELL-1758N P20	WFPC2, IMAGE, WF3-FIX	F606W			Pattern 1-1 (1)	1010.0 Secs [=>500.0 Secs (Pattern 1, Split 1)] [=>500.0 Secs (Pattern 1, Split 2)] [=>500.0 Secs (Pattern 2, Split 1)] [=>500.0 Secs (Pattern 2, Split 2)]	[1]



Proposal 11194 - Visit 21 - Beyond the Bullet: Direct Detection of Dark Matter in Merging Galaxy Clusters

Thu May 31 01:49:09 GMT 2007

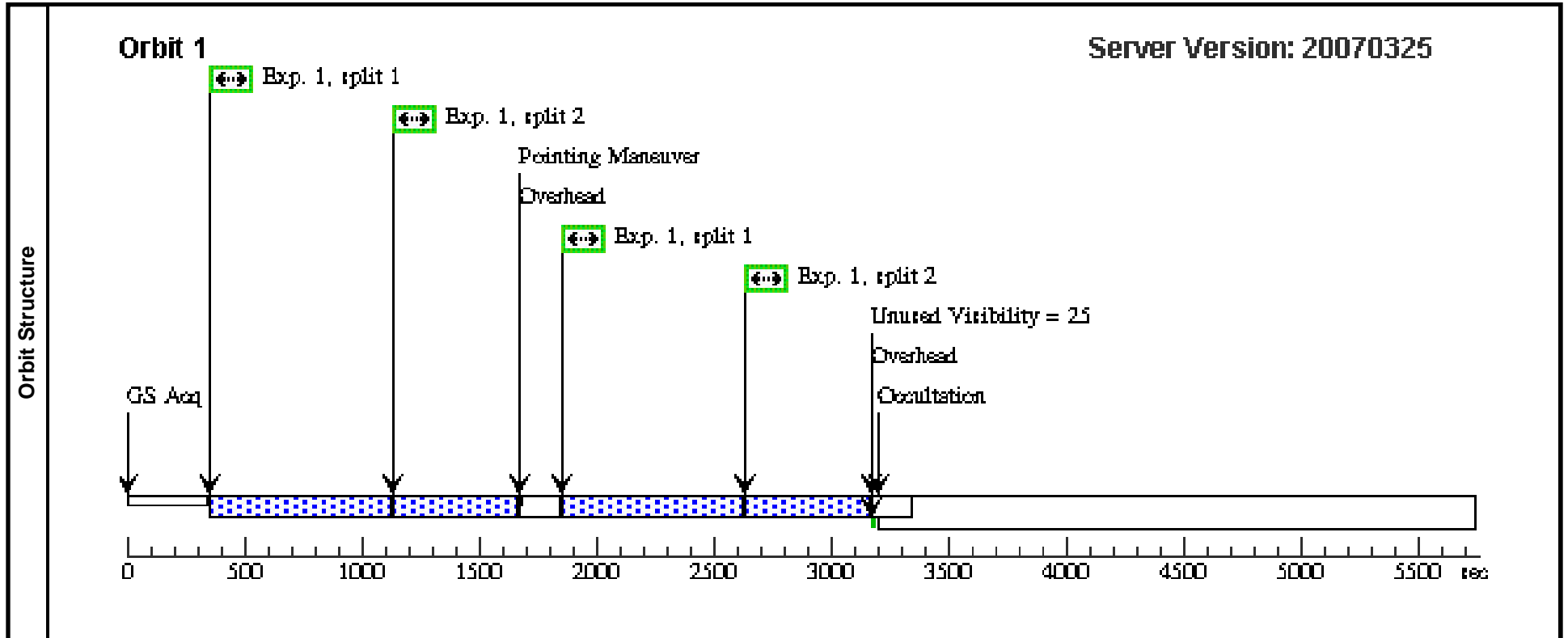
<b>Visit</b>	<b>Proposal 11194, Visit 21, implementation</b> <b>Diagnostic Status: No Diagnostics</b> Scientific Instruments: WFPC2 Special Requirements: SAME ORIENT AS 01										
	<b>Patterns</b>	<b>#</b>	<b>Primary Pattern</b>				<b>Secondary Pattern</b>				<b>Exposures</b>
(1)		Pattern Type=WFPC2-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.354 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=45 Angle Between Sides= Center Pattern=false					(1)			
<b>Fixed Targets</b>	<b>#</b>	<b>Name</b>	<b>Target Coordinates</b>	<b>Targ. Coord. Corrections</b>		<b>Fluxes</b>	<b>Miscellaneous</b>				
	(21)	ABELL-1758NP21	RA: 13 32 54.2376 (203.2259900d) Dec: +50 29 16.03 (50.48779d) Equinox: J2000			V=25.0	Reference Frame: NED				
<i>Comments: This object was generated by the targetselector and retrieved from the NED database.</i>											
<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		(21) ABELL-1758N P21	WFPC2, IMAGE, WF3-FIX	F606W			Pattern 1-1 (1)	1010.0 Secs [=>500.0 Secs (Pattern 1, Split 1)] [=>500.0 Secs (Pattern 1, Split 2)] [=>500.0 Secs (Pattern 2, Split 1)] [=>500.0 Secs (Pattern 2, Split 2)]	[1]	



Proposal 11194 - Visit 22 - Beyond the Bullet: Direct Detection of Dark Matter in Merging Galaxy Clusters

Thu May 31 01:49:09 GMT 2007

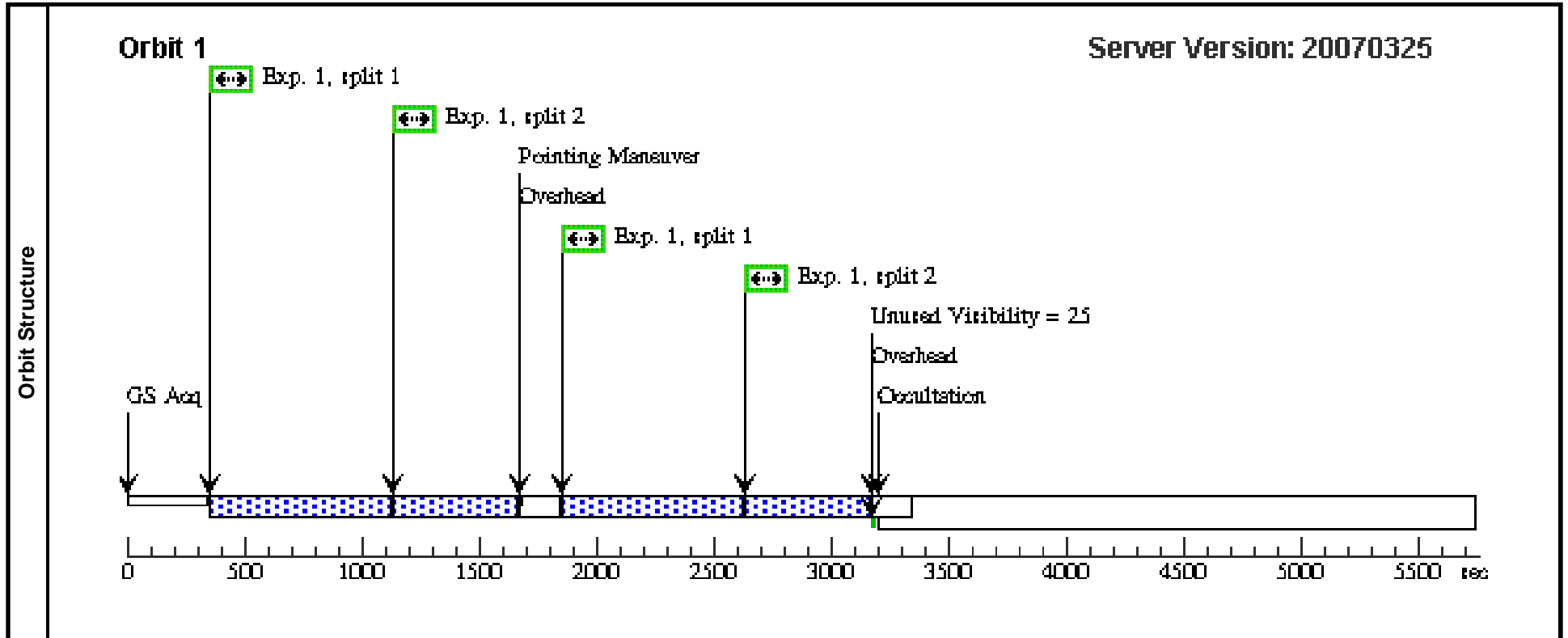
<b>Visit</b>	<b>Proposal 11194, Visit 22, implementation</b> <b>Diagnostic Status: No Diagnostics</b> Scientific Instruments: WFPC2 Special Requirements: SAME ORIENT AS 01										
	<b>Patterns</b>	<b>#</b>	<b>Primary Pattern</b>				<b>Secondary Pattern</b>				<b>Exposures</b>
(1)		Pattern Type=WFPC2-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.354 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=45 Angle Between Sides= Center Pattern=false					(1)			
<b>Fixed Targets</b>	<b>#</b>	<b>Name</b>	<b>Target Coordinates</b>	<b>Targ. Coord. Corrections</b>		<b>Fluxes</b>	<b>Miscellaneous</b>				
	(22)	ABELL-1758NP22	RA: 13 32 59.2737 (203.2469738d) Dec: +50 30 17.36 (50.50482d) Equinox: J2000			V=25.0	Reference Frame: NED				
<i>Comments: This object was generated by the targetselector and retrieved from the NED database.</i>											
<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		(22) ABELL-1758N P22	WFPC2, IMAGE, WF3-FIX	F606W			Pattern 1-1 (1)	1010.0 Secs [=>500.0 Secs (Pattern 1, Split 1)] [=>500.0 Secs (Pattern 1, Split 2)] [=>500.0 Secs (Pattern 2, Split 1)] [=>500.0 Secs (Pattern 2, Split 2)]	[1]	



Proposal 11194 - Visit 23 - Beyond the Bullet: Direct Detection of Dark Matter in Merging Galaxy Clusters

Thu May 31 01:49:10 GMT 2007

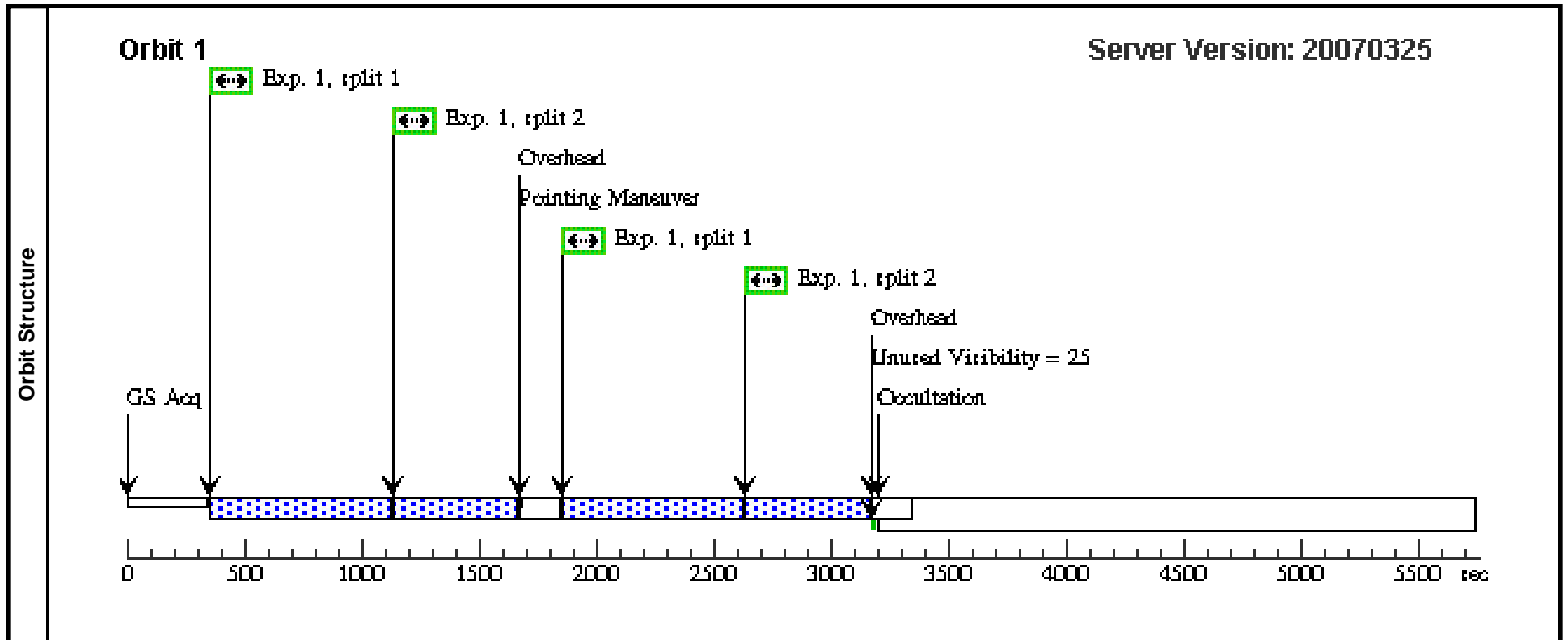
<b>Visit</b>	<b>Proposal 11194, Visit 23, implementation</b> <b>Diagnostic Status: No Diagnostics</b> Scientific Instruments: WFPC2 Special Requirements: SAME ORIENT AS 01									
	<b>Patterns</b>	<b>#</b>	<b>Primary Pattern</b>				<b>Secondary Pattern</b>			
(1)		Pattern Type=WFPC2-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.354 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=45 Angle Between Sides= Center Pattern=false					(1)		
<b>Fixed Targets</b>	<b>#</b>	<b>Name</b>	<b>Target Coordinates</b>	<b>Targ. Coord. Corrections</b>	<b>Fluxes</b>	<b>Miscellaneous</b>				
	(23)	ABELL-1758NP23	RA: 13 33 4.1549 (203.2673121d) Dec: +50 31 18.67 (50.52185d) Equinox: J2000		V=25.0	Reference Frame: NED				
<i>Comments: This object was generated by the targetselector and retrieved from the NED database.</i>										
<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		(23) ABELL-1758N P23	WFPC2, IMAGE, WF3-FIX	F606W			Pattern 1-1 (1)	1010.0 Secs [=>500.0 Secs (Pattern 1, Split 1)] [=>500.0 Secs (Pattern 1, Split 2)] [=>500.0 Secs (Pattern 2, Split 1)] [=>500.0 Secs (Pattern 2, Split 2)]	[1]



Proposal 11194 - Visit 24 - Beyond the Bullet: Direct Detection of Dark Matter in Merging Galaxy Clusters

Thu May 31 01:49:10 GMT 2007

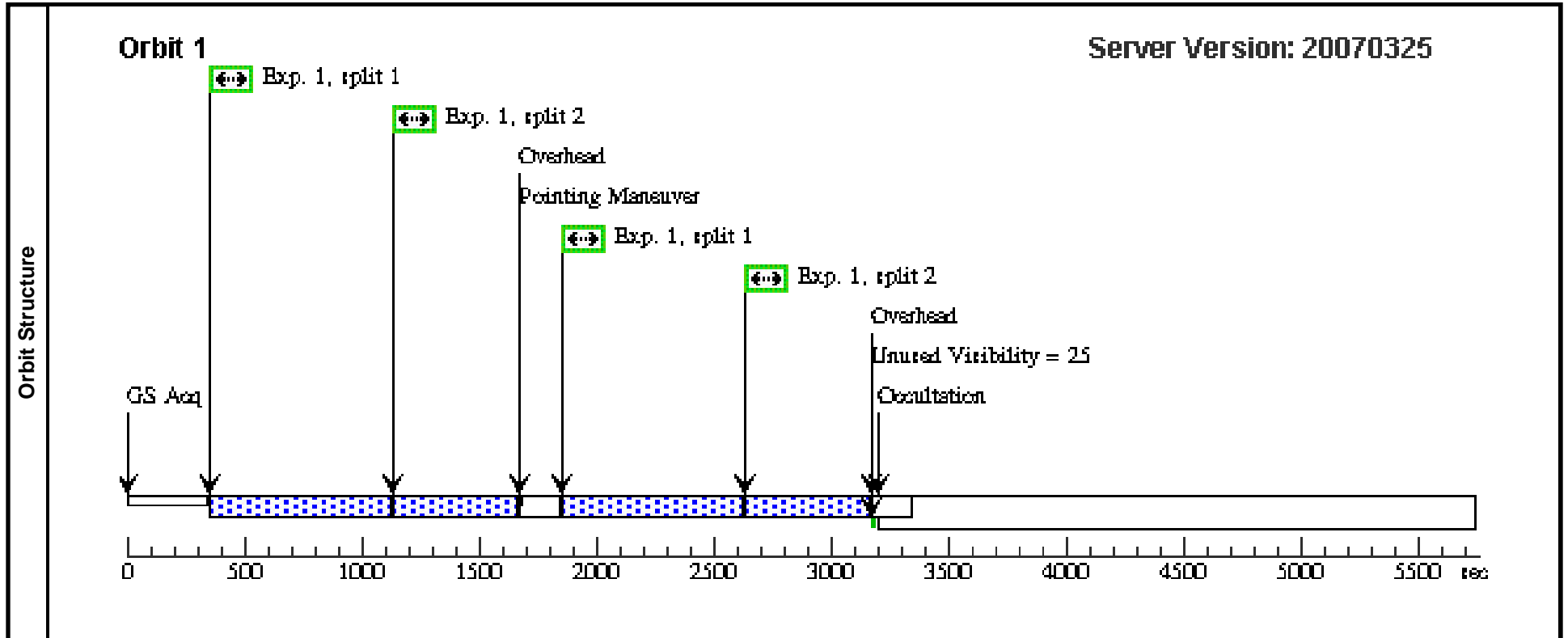
<b>Visit</b>	<b>Proposal 11194, Visit 24, implementation</b> <b>Diagnostic Status: No Diagnostics</b> Scientific Instruments: WFPC2 Special Requirements: SAME ORIENT AS 01										
	<b>Patterns</b>	<b>#</b>	<b>Primary Pattern</b>				<b>Secondary Pattern</b>				<b>Exposures</b>
(1)		Pattern Type=WFPC2-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.354 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=45 Angle Between Sides= Center Pattern=false					(1)			
<b>Fixed Targets</b>	<b>#</b>	<b>Name</b>	<b>Target Coordinates</b>	<b>Targ. Coord. Corrections</b>		<b>Fluxes</b>	<b>Miscellaneous</b>				
	(24)	ABELL-1758NP24	RA: 13 32 39.5137 (203.1646404d) Dec: +50 32 21.03 (50.53918d) Equinox: J2000			V=25.0	Reference Frame: NED				
<i>Comments: This object was generated by the targetselector and retrieved from the NED database.</i>											
<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		(24) ABELL-1758N P24	WFPC2, IMAGE, WF3-FIX	F606W			Pattern 1-1 (1)	1010.0 Secs [=>500.0 Secs (Pattern 1, Split 1)] [=>500.0 Secs (Pattern 1, Split 2)] [=>500.0 Secs (Pattern 2, Split 1)] [=>500.0 Secs (Pattern 2, Split 2)]	[1]	



Proposal 11194 - Visit 25 - Beyond the Bullet: Direct Detection of Dark Matter in Merging Galaxy Clusters

Thu May 31 01:49:11 GMT 2007

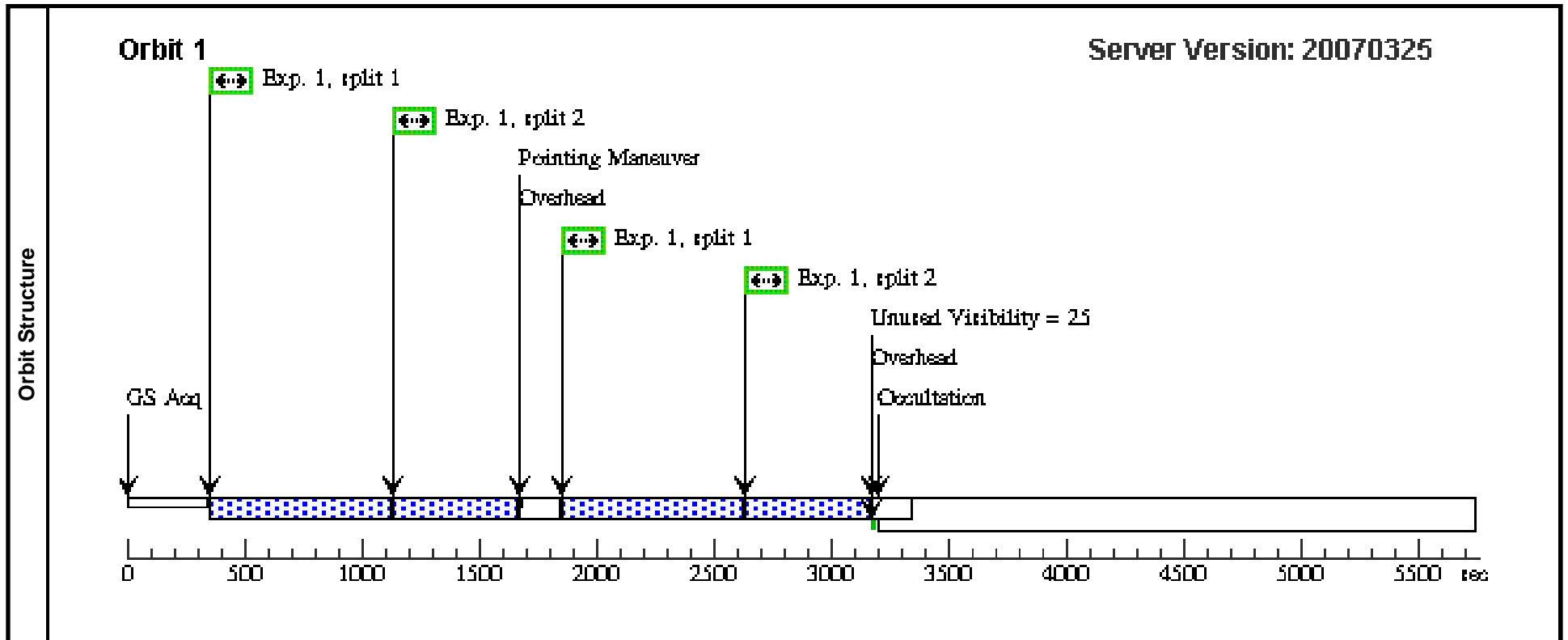
<b>Visit</b>	<b>Proposal 11194, Visit 25, implementation</b> <b>Diagnostic Status: No Diagnostics</b> Scientific Instruments: WFPC2 Special Requirements: SAME ORIENT AS 01										
	<b>Patterns</b>	<b>#</b>	<b>Primary Pattern</b>				<b>Secondary Pattern</b>				<b>Exposures</b>
(1)		Pattern Type=WFPC2-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.354 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=45 Angle Between Sides= Center Pattern=false					(1)			
<b>Fixed Targets</b>	<b>#</b>	<b>Name</b>	<b>Target Coordinates</b>		<b>Targ. Coord. Corrections</b>		<b>Fluxes</b>	<b>Miscellaneous</b>			
	(25)	ABELL-1758PN25	RA: 13 32 44.2329 (203.1843038d) Dec: +50 33 25.91 (50.55720d) Equinox: J2000				V=25.0	Reference Frame: NED			
<i>Comments: This object was generated by the targetselector and retrieved from the NED database.</i>											
<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		(25) ABELL-1758P N25	WFPC2, IMAGE, WF3-FIX	F606W			Pattern 1-1 (1)	1010.0 Secs [==>500.0 Secs (Pattern 1, Split 1)] [==>500.0 Secs (Pattern 1, Split 2)] [==>500.0 Secs (Pattern 2, Split 1)] [==>500.0 Secs (Pattern 2, Split 2)]	[1]	



Proposal 11194 - Visit 26 - Beyond the Bullet: Direct Detection of Dark Matter in Merging Galaxy Clusters

Thu May 31 01:49:11 GMT 2007

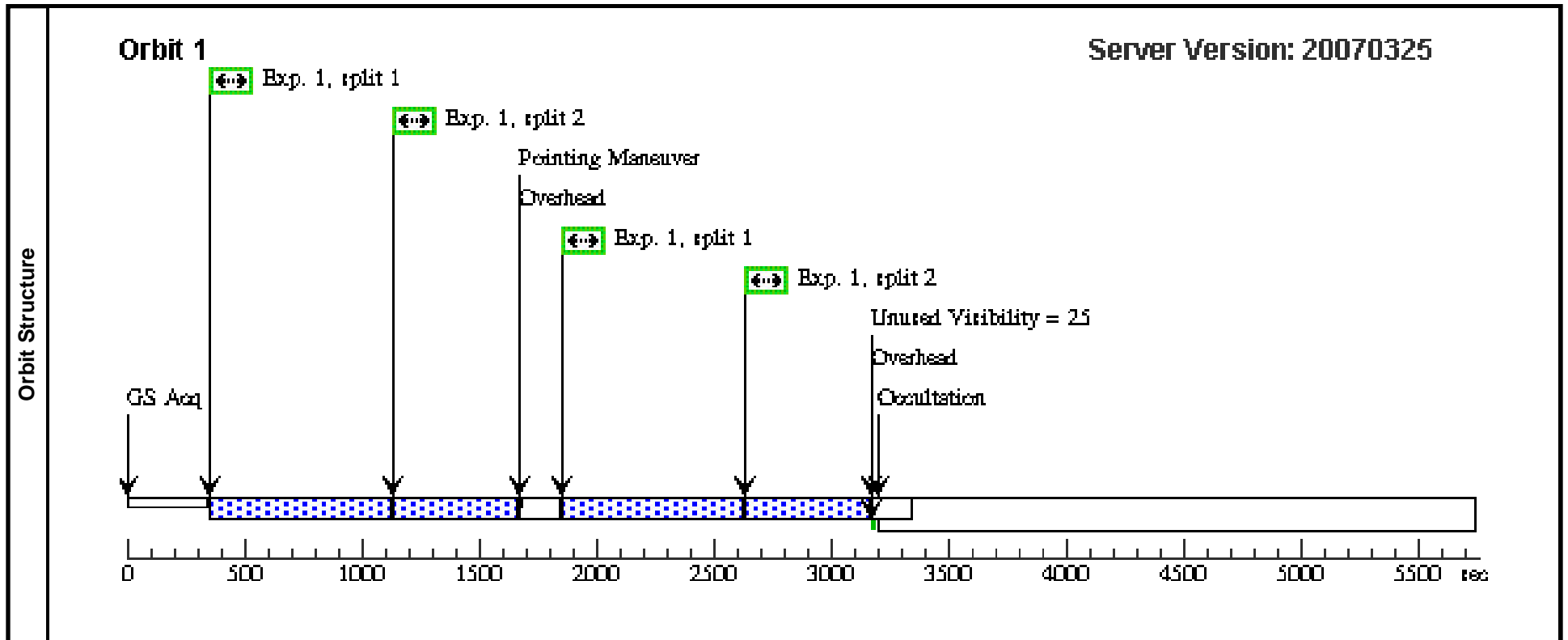
<b>Visit</b>	<b>Proposal 11194, Visit 26, implementation</b> <b>Diagnostic Status: No Diagnostics</b> Scientific Instruments: WFPC2 Special Requirements: SAME ORIENT AS 01										
	<b>Patterns</b>	<b>#</b>	<b>Primary Pattern</b>				<b>Secondary Pattern</b>				<b>Exposures</b>
(1)		Pattern Type=WFPC2-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.354 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=45 Angle Between Sides= Center Pattern=false					(1)			
<b>Fixed Targets</b>	<b>#</b>	<b>Name</b>	<b>Target Coordinates</b>	<b>Targ. Coord. Corrections</b>		<b>Fluxes</b>	<b>Miscellaneous</b>				
	(26)	ABELL-1758NP26	RA: 13 32 41.7758 (203.1740658d) Dec: +50 30 44.84 (50.51246d) Equinox: J2000			V=25.0	Reference Frame: NED				
<i>Comments: This object was generated by the targetselector and retrieved from the NED database.</i>											
<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		(26) ABELL-1758N P26	WFPC2, IMAGE, WF3-FIX	F606W			Pattern 1-1 (1)	1010.0 Secs [=>500.0 Secs (Pattern 1, Split 1)] [=>500.0 Secs (Pattern 1, Split 2)] [=>500.0 Secs (Pattern 2, Split 1)] [=>500.0 Secs (Pattern 2, Split 2)]	[1]	



Proposal 11194 - Visit 27 - Beyond the Bullet: Direct Detection of Dark Matter in Merging Galaxy Clusters

Thu May 31 01:49:11 GMT 2007

<b>Visit</b>	<b>Proposal 11194, Visit 27, implementation</b> <b>Diagnostic Status: No Diagnostics</b> Scientific Instruments: WFPC2 Special Requirements: SAME ORIENT AS 01										
	<b>Patterns</b>	<b>#</b>	<b>Primary Pattern</b>				<b>Secondary Pattern</b>				<b>Exposures</b>
(1)		Pattern Type=WFPC2-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.354 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=45 Angle Between Sides= Center Pattern=false					(1)			
<b>Fixed Targets</b>	<b>#</b>	<b>Name</b>	<b>Target Coordinates</b>	<b>Targ. Coord. Corrections</b>		<b>Fluxes</b>	<b>Miscellaneous</b>				
	(27)	ABELL-1758NP27	RA: 13 32 50.8948 (203.2120617d) Dec: +50 32 45.03 (50.54584d) Equinox: J2000			V=25.0	Reference Frame: NED				
<i>Comments: This object was generated by the targetselector and retrieved from the NED database.</i>											
<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		(27) ABELL-1758N P27	WFPC2, IMAGE, WF3-FIX	F606W			Pattern 1-1 (1)	1010.0 Secs [=>500.0 Secs (Pattern 1, Split 1)] [=>500.0 Secs (Pattern 1, Split 2)] [=>500.0 Secs (Pattern 2, Split 1)] [=>500.0 Secs (Pattern 2, Split 2)]	[1]	



Proposal 11194 - Visit 28 - Beyond the Bullet: Direct Detection of Dark Matter in Merging Galaxy Clusters

Thu May 31 01:49:12 GMT 2007

<b>Visit</b>	<b>Proposal 11194, Visit 28, implementation</b> <b>Diagnostic Status: No Diagnostics</b> Scientific Instruments: WFPC2 Special Requirements: SAME ORIENT AS 01										
	<b>Patterns</b>	<b>#</b>	<b>Primary Pattern</b>				<b>Secondary Pattern</b>				<b>Exposures</b>
(1)		Pattern Type=WFPC2-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.354 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=45 Angle Between Sides= Center Pattern=false					(1)			
<b>Fixed Targets</b>	<b>#</b>	<b>Name</b>	<b>Target Coordinates</b>	<b>Targ. Coord. Corrections</b>		<b>Fluxes</b>	<b>Miscellaneous</b>				
	(28)	ABELL-1758NP28	RA: 13 32 55.2195 (203.2300812d) Dec: +50 31 37.50 (50.52708d) Equinox: J2000			V=25.0	Reference Frame: NED				
<i>Comments: This object was generated by the targetselector and retrieved from the NED database.</i>											
<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		(28) ABELL-1758N P28	WFPC2, IMAGE, WF3-FIX	F606W			Pattern 1-1 (1)	1010.0 Secs [=>500.0 Secs (Pattern 1, Split 1)] [=>500.0 Secs (Pattern 1, Split 2)] [=>500.0 Secs (Pattern 2, Split 1)] [=>500.0 Secs (Pattern 2, Split 2)]	[1]	

