



14041 - Classifying and Following a Strongly Lensed Likely Supernova with Multiple Images

Cycle: 22, Proposal Category: GO/DD

(Availability Mode: SUPPORTED)

INVESTIGATORS

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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) MACS1149-GALAXY-LENS	WFC3/UVIS	2	20-Jan-2015 16:11:02.0	yes

Proposal 14041 (STScI Edit Number: 3, Created: Tuesday, January 20, 2015 4:11:26 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>
02	(1) MACS1149-GALAXY-LENS	WFC3/UVIS	2	20-Jan-2015 16:11:05.0	yes
A0	(3) REFSDAL-GRISM	WFC3/IR	1	20-Jan-2015 16:11:06.0	yes
AA	(3) REFSDAL-GRISM	WFC3/IR	1	20-Jan-2015 16:11:07.0	yes
A1	(3) REFSDAL-GRISM	WFC3/IR	1	20-Jan-2015 16:11:07.0	yes
AB	(3) REFSDAL-GRISM	WFC3/IR	1	20-Jan-2015 16:11:08.0	yes
A2	(3) REFSDAL-GRISM	WFC3/IR	1	20-Jan-2015 16:11:09.0	yes
AC	(3) REFSDAL-GRISM	WFC3/IR	1	20-Jan-2015 16:11:09.0	yes
A3	(3) REFSDAL-GRISM	WFC3/IR	1	20-Jan-2015 16:11:10.0	yes
AD	(3) REFSDAL-GRISM	WFC3/IR	1	20-Jan-2015 16:11:11.0	yes
A4	(3) REFSDAL-GRISM	WFC3/IR	1	20-Jan-2015 16:11:11.0	yes
AE	(3) REFSDAL-GRISM	WFC3/IR	1	20-Jan-2015 16:11:12.0	yes
A5	(3) REFSDAL-GRISM	WFC3/IR	1	20-Jan-2015 16:11:13.0	yes
AF	(3) REFSDAL-GRISM	WFC3/IR	1	20-Jan-2015 16:11:13.0	yes
A6	(3) REFSDAL-GRISM	WFC3/IR	1	20-Jan-2015 16:11:14.0	yes
AG	(3) REFSDAL-GRISM	WFC3/IR	1	20-Jan-2015 16:11:14.0	yes
A7	(3) REFSDAL-GRISM	WFC3/IR	1	20-Jan-2015 16:11:15.0	yes
B0	(3) REFSDAL-GRISM	WFC3/IR	1	20-Jan-2015 16:11:16.0	yes
BA	(3) REFSDAL-GRISM	WFC3/IR	1	20-Jan-2015 16:11:16.0	yes
B1	(3) REFSDAL-GRISM	WFC3/IR	1	20-Jan-2015 16:11:17.0	yes
BB	(3) REFSDAL-GRISM	WFC3/IR	1	20-Jan-2015 16:11:18.0	yes
B2	(3) REFSDAL-GRISM	WFC3/IR	1	20-Jan-2015 16:11:18.0	yes
BC	(3) REFSDAL-GRISM	WFC3/IR	1	20-Jan-2015 16:11:19.0	yes
B3	(3) REFSDAL-GRISM	WFC3/IR	1	20-Jan-2015 16:11:20.0	yes
BD	(3) REFSDAL-GRISM	WFC3/IR	1	20-Jan-2015 16:11:20.0	yes
B4	(3) REFSDAL-GRISM	WFC3/IR	1	20-Jan-2015 16:11:21.0	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>
BE	(3) REFSDAL-GRISM	WFC3/IR	1	20-Jan-2015 16:11:21.0	yes
B5	(3) REFSDAL-GRISM	WFC3/IR	1	20-Jan-2015 16:11:22.0	yes
BF	(3) REFSDAL-GRISM	WFC3/IR	1	20-Jan-2015 16:11:23.0	yes
B6	(3) REFSDAL-GRISM	WFC3/IR	1	20-Jan-2015 16:11:23.0	yes
BG	(3) REFSDAL-GRISM	WFC3/IR	1	20-Jan-2015 16:11:24.0	yes
B7	(3) REFSDAL-GRISM	WFC3/IR	1	20-Jan-2015 16:11:24.0	yes

34 Total Orbits Used

ABSTRACT

A search for transients in F140W WFC3-IR imaging taken on 11 November 2014 of the MACS1149.6+2223 field revealed three new sources positioned close to an early-type galaxy cluster member. An absence of flux variation at the locations of these sources in earlier infrared imaging, as well as the configuration of a background lensed spiral galaxy suggest that the lensed source is not a flare from an active galactic nucleus (AGN). The most likely interpretation is that the lensed source is instead a strongly lensed supernova (SN). With the follow-up program proposed here, we will be able to classify the SN, measure the relative time delays of the multiple images, place constraints on the relative magnifications, and -- if the transient is a Type Ia SN -- determine the absolute magnifications of each image. These observations will provide unique data that will confront existing lens models, yield new cosmological constraints, and make it possible to study a SN at $z=1.5$ in unparalleled detail. To capitalize on this truly unprecedented opportunity, we request a disruptive TOO observation campaign totaling 42 orbits of imaging and grism spectroscopy.

OBSERVING DESCRIPTION

tbd

Proposal 14041 - M1149a (01) - Classifying and Following a Strongly Lensed Likely Supernova with Multiple Images

Tue Jan 20 21:11:26 GMT 2015

Visit	Proposal 14041, M1149a (01), completed				
	Diagnostic Status: No Diagnostics				
	Scientific Instruments: WFC3/UVIS				
	Special Requirements: SCHED 100%; BEFORE 25-NOV-2014:00:00:00				

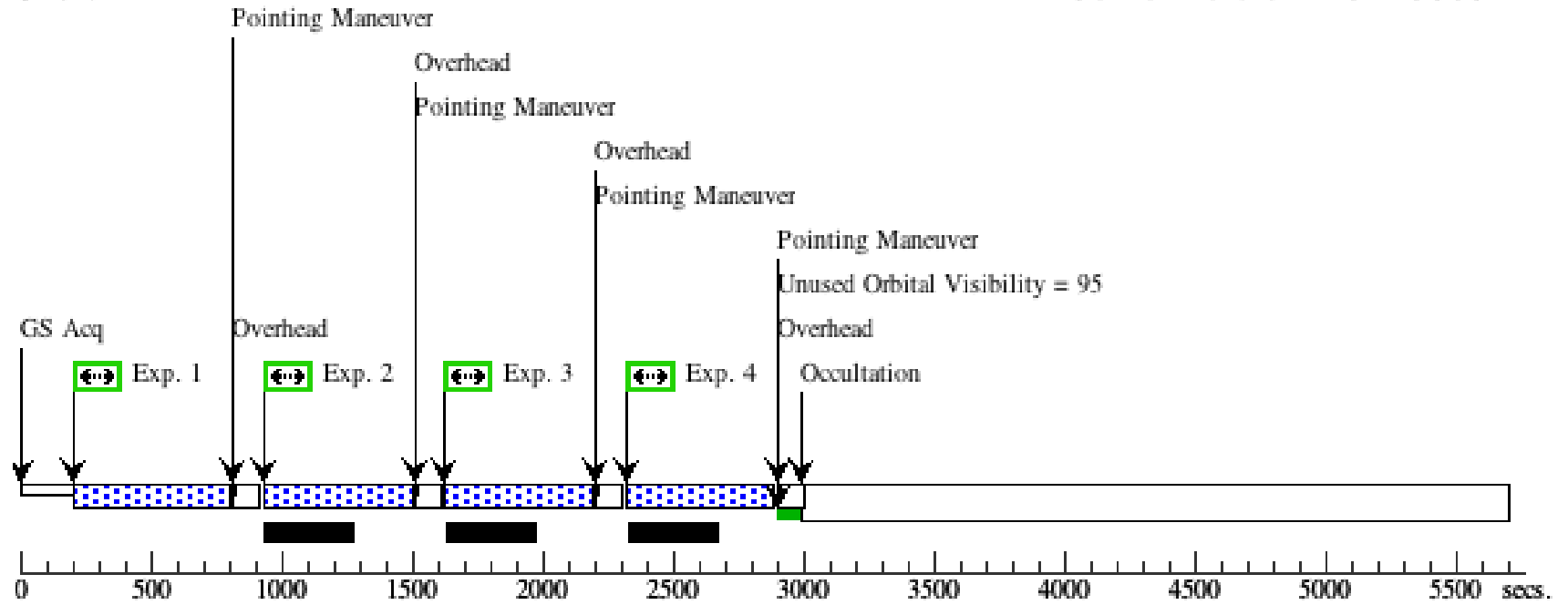
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(1)	MACS1149-GALAXY-LENS	RA: 11 49 35.4250 (177.3976042d) Dec: +22 23 44.63 (22.39573d) Equinox: J2000		V=27+/-0.1	Reference Frame: ICRS

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(1) MACS1149-GALAXY-LENS	WFC3/UVIS, ACCUM, UVIS1	F606W		POS TARG 0.00,0.0; GS ACQ SCENARIO ONEB1B3		527 Secs (568 Secs) [=>568.0 Secs]	[1]
	2		(1) MACS1149-GALAXY-LENS	WFC3/UVIS, ACCUM, UVIS1	F606W		POS TARG 0.158,0.070		527 Secs (568 Secs) [=>568.0 Secs]	[1]
	3		(1) MACS1149-GALAXY-LENS	WFC3/UVIS, ACCUM, UVIS1	F606W		POS TARG 0.099,0.165		527 Secs (568 Secs) [=>568.0 Secs]	[1]
	4		(1) MACS1149-GALAXY-LENS	WFC3/UVIS, ACCUM, UVIS1	F606W		POS TARG -0.060,0.095		526 Secs (567 Secs) [=>567.0 Secs]	[1]
	5		(1) MACS1149-GALAXY-LENS	WFC3/UVIS, ACCUM, UVIS1	F814W		POS TARG 2.00,2.00		527 Secs (596 Secs) [=>596.0 Secs]	[2]
	6		(1) MACS1149-GALAXY-LENS	WFC3/UVIS, ACCUM, UVIS1	F814W		POS TARG 2.158,2.070		527 Secs (596 Secs) [=>596.0 Secs]	[2]
	7		(1) MACS1149-GALAXY-LENS	WFC3/UVIS, ACCUM, UVIS1	F814W		POS TARG 2.099,2.165		527 Secs (596 Secs) [=>596.0 Secs]	[2]
	8		(1) MACS1149-GALAXY-LENS	WFC3/UVIS, ACCUM, UVIS1	F814W		POS TARG -0.060,0.095		527 Secs (596 Secs) [=>596.0 Secs]	[2]

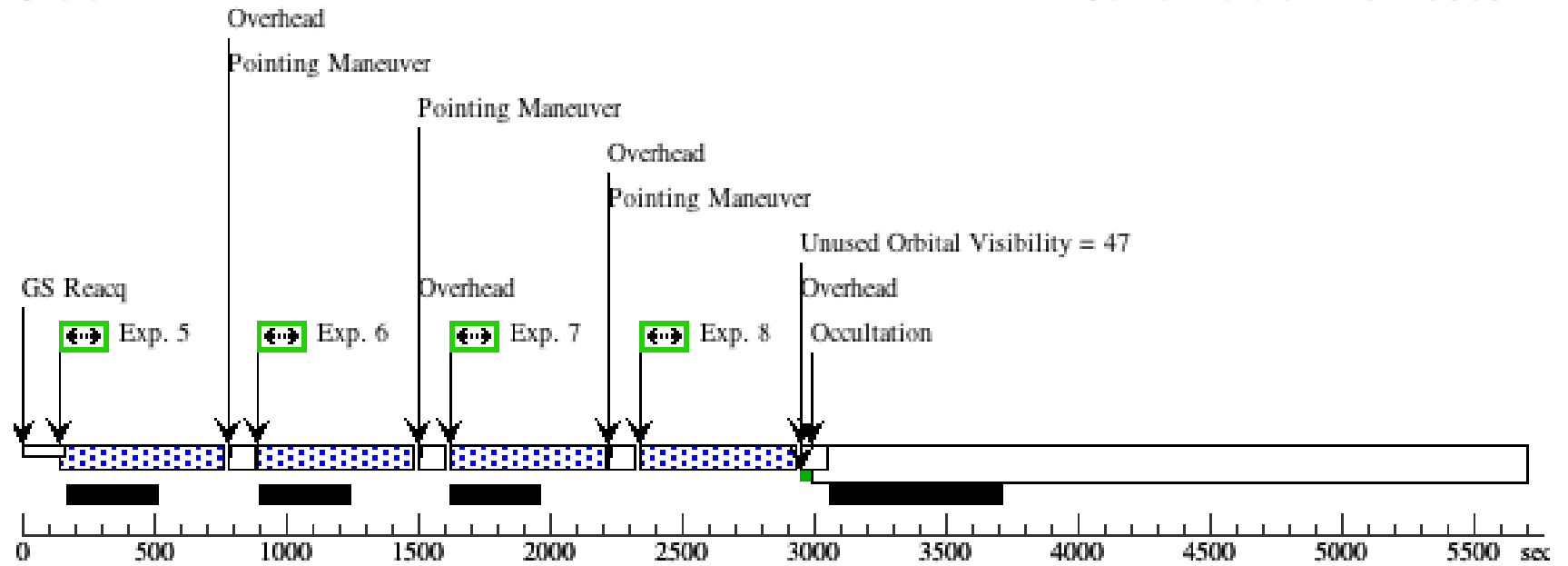
Orbit 1

Server Version: 20140605

Orbit Structure



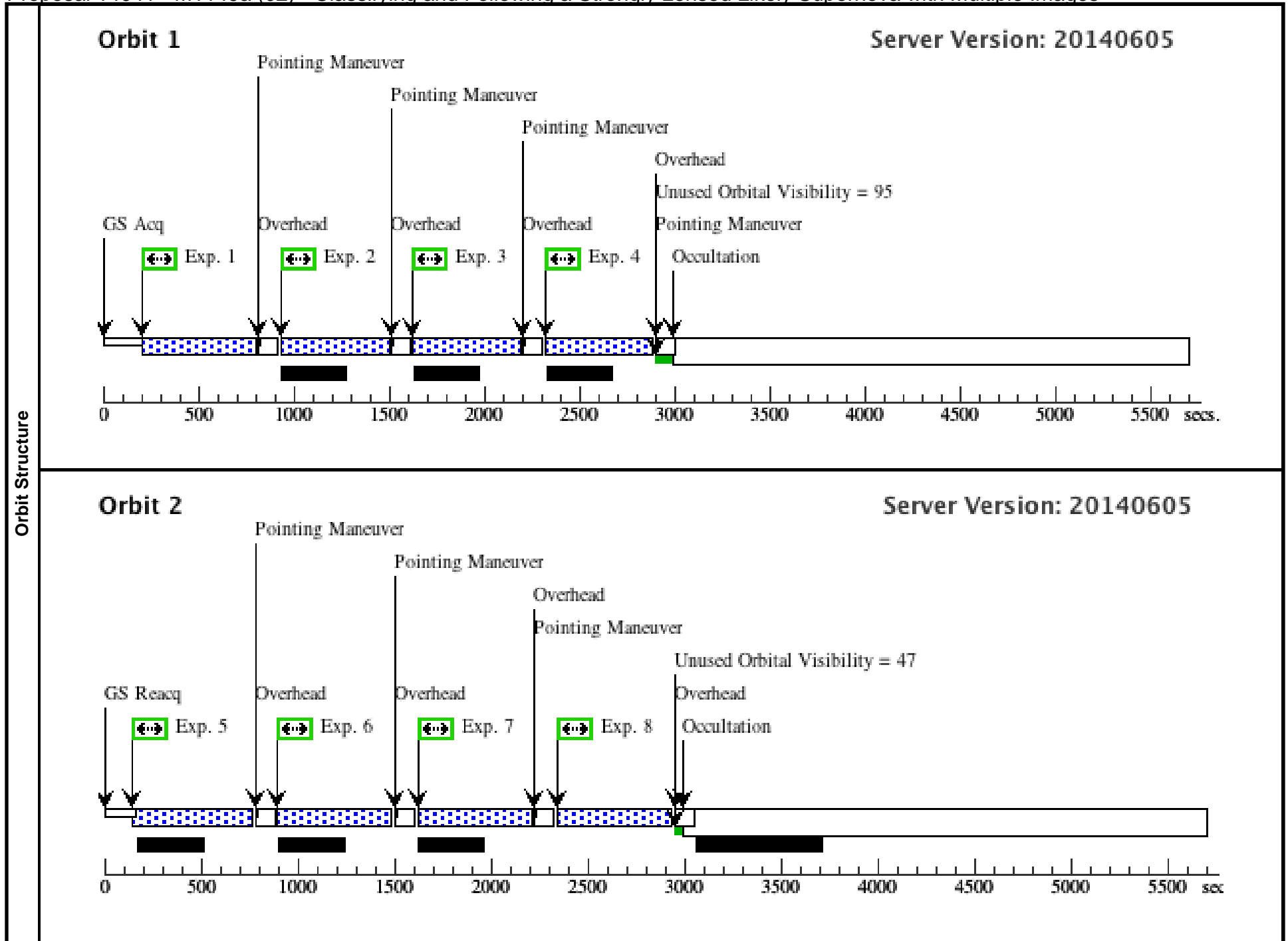
Orbit 2



Proposal 14041 - M1149a (02) - Classifying and Following a Strongly Lensed Likely Supernova with Multiple Images

Tue Jan 20 21:11:26 GMT 2015

Visit	Proposal 14041, M1149a (02), completed Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/UVIS Special Requirements: SCHED 100%; BEFORE 25-NOV-2014:00:00:00									
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous			
	(1)	MACS1149-GALAXY-LENS	RA: 11 49 35.4250 (177.3976042d) Dec: +22 23 44.63 (22.39573d) Equinox: J2000		V=27+/-0.1	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(1) MACS1149-GALAXY-LENS	WFC3/UVIS, ACCUM, UVIS1	F606W		POS TARG 0.00,0.0; GS ACQ SCENARIO ONEB1B3		527 Secs (568 Secs) [=>568.0 Secs]	[1]
	2		(1) MACS1149-GALAXY-LENS	WFC3/UVIS, ACCUM, UVIS1	F606W		POS TARG 0.158,0.070		527 Secs (568 Secs) [=>568.0 Secs]	[1]
	3		(1) MACS1149-GALAXY-LENS	WFC3/UVIS, ACCUM, UVIS1	F606W		POS TARG 0.099,0.165		527 Secs (568 Secs) [=>568.0 Secs]	[1]
	4		(1) MACS1149-GALAXY-LENS	WFC3/UVIS, ACCUM, UVIS1	F606W		POS TARG -0.060,0.095		526 Secs (567 Secs) [=>567.0 Secs]	[1]
	5		(1) MACS1149-GALAXY-LENS	WFC3/UVIS, ACCUM, UVIS1	F814W		POS TARG 2.00,2.00		527 Secs (596 Secs) [=>596.0 Secs]	[2]
	6		(1) MACS1149-GALAXY-LENS	WFC3/UVIS, ACCUM, UVIS1	F814W		POS TARG 2.158,2.070		527 Secs (596 Secs) [=>596.0 Secs]	[2]
	7		(1) MACS1149-GALAXY-LENS	WFC3/UVIS, ACCUM, UVIS1	F814W		POS TARG 2.099,2.165		527 Secs (596 Secs) [=>596.0 Secs]	[2]
	8		(1) MACS1149-GALAXY-LENS	WFC3/UVIS, ACCUM, UVIS1	F814W		POS TARG -0.060,0.095		527 Secs (596 Secs) [=>596.0 Secs]	[2]



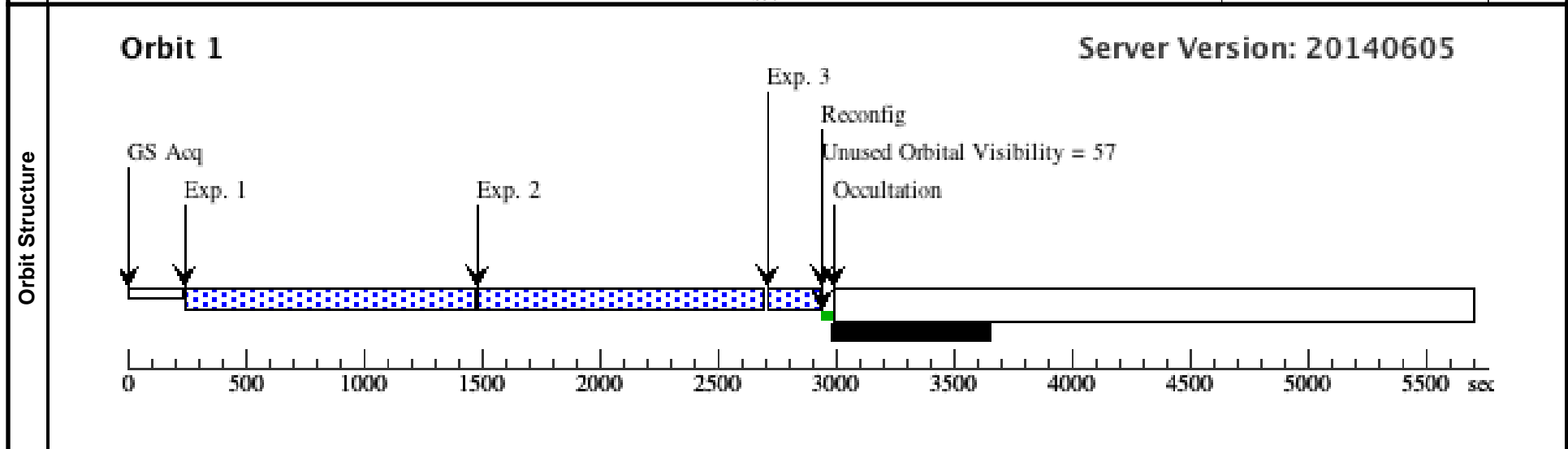
Proposal 14041 - 1orb: 1x f160w; 2x g141 (A0) - Classifying and Following a Strongly Lensed Likely Supernova with Multiple Images

Tue Jan 20 21:11:27 GMT 2015

Visit	Proposal 14041, 1orb: 1x f160w; 2x g141 (A0), completed				
	Diagnostic Status: No Diagnostics				
	Scientific Instruments: WFC3/IR				
	Special Requirements: SCHED 100%; ORIENT 290D TO 292 D				
<i>Comments: PI prefers orient of 291</i>					

Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(3)	REFSDAL-GRISM	RA: 11 49 36.1539 (177.4006412d)		V=20	Reference Frame: ICRS
		Alt Name1: MACS1149.6+2223	Dec: +22 24 12.95 (22.40360d)			
		Alt Name2: MACS1149	Equinox: J2000			

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(3) REFSDAL-GRIS M	WFC3/IR, MULTIACCUM, GRISM1024	G141	NSAMP=13; SAMP-SEQ=SPAR S100	POS TARG 0.0,0.0; GS ACQ SCENARI O ONEB1B3		1202.936167 Secs (1202.936 Secs) [==>]	[1]
	2		(3) REFSDAL-GRIS M	WFC3/IR, MULTIACCUM, GRISM1024	G141	NSAMP=13; SAMP-SEQ=SPAR S100	POS TARG 0.0,0.0		1202.936167 Secs (1202.936 Secs) [==>]	[1]
	3		(3) REFSDAL-GRIS M	WFC3/IR, MULTIACCUM, GRISM1024	F160W	NSAMP=5; SAMP-SEQ=SPAR S50	POS TARG 0.0,0.0		202.934095 Secs (202.934 Secs) [==>]	[1]

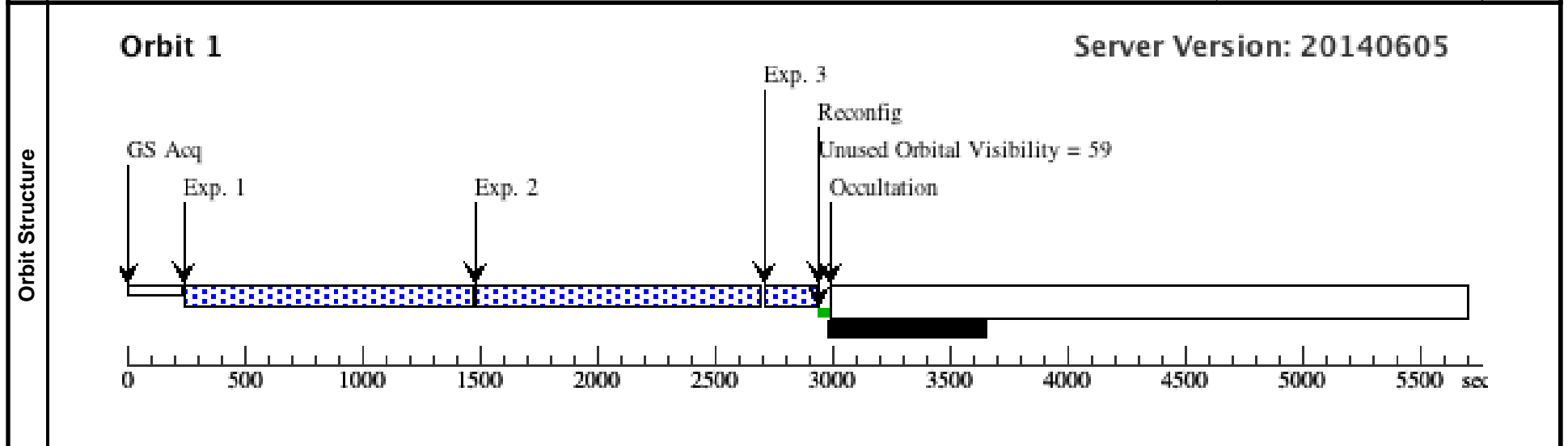


Proposal 14041 - 1orb: 1x f125w; 2x g141 (AA) - Classifying and Following a Strongly Lensed Likely Supernova with Multiple Images

Visit	Proposal 14041, 1orb: 1x f125w; 2x g141 (AA), completed					Tue Jan 20 21:11:27 GMT 2015
	Diagnostic Status: No Diagnostics					
	Scientific Instruments: WFC3/IR					
	Special Requirements: SCHED 100%; SAME ORIENT AS A0					

Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(3)	REFSDAL-GRISM	RA: 11 49 36.1539 (177.4006412d)		V=20	Reference Frame: ICRS
		Alt Name1: MACS1149.6+2223	Dec: +22 24 12.95 (22.40360d)			
		Alt Name2: MACS1149	Equinox: J2000			

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(3) REFSDAL-GRIS M	WFC3/IR, MULTIACCUM, GRISM1024	G141	NSAMP=13; SAMP-SEQ=SPAR S100	POS TARG 0.0,0.0; GS ACQ SCENARI O ONEB1B3		1202.936167 Secs (1202.936 Secs) [==>]	[1]
	2		(3) REFSDAL-GRIS M	WFC3/IR, MULTIACCUM, GRISM1024	G141	NSAMP=13; SAMP-SEQ=SPAR S100	POS TARG 0.0,0.0		1202.936167 Secs (1202.936 Secs) [==>]	[1]
	3		(3) REFSDAL-GRIS M	WFC3/IR, MULTIACCUM, GRISM1024	F125W	NSAMP=5; SAMP-SEQ=SPAR S50	POS TARG 0.0,0.0		202.934095 Secs (202.934 Secs) [==>]	[1]



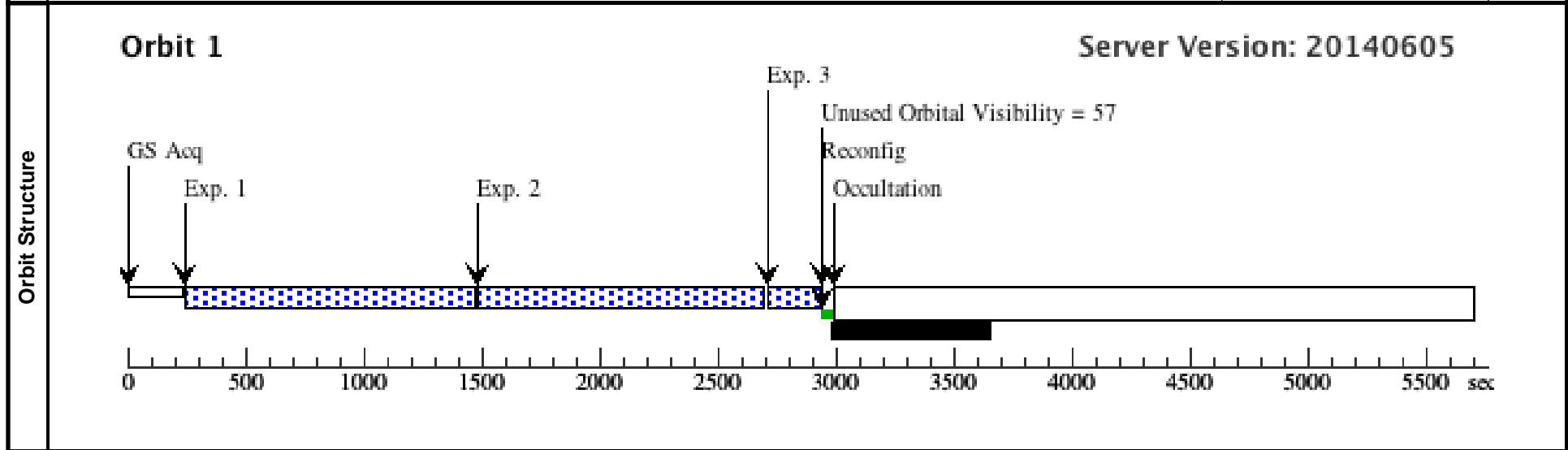
Proposal 14041 - 1orb: 1x f160w; 2x g141 (A1) - Classifying and Following a Strongly Lensed Likely Supernova with Multiple Images

Tue Jan 20 21:11:27 GMT 2015

Visit	Proposal 14041, 1orb: 1x f160w; 2x g141 (A1), completed				
	Diagnostic Status: No Diagnostics				
	Scientific Instruments: WFC3/IR				
	Special Requirements: SCHED 100%; SAME ORIENT AS A0				

Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(3)	REFSDAL-GRISM	RA: 11 49 36.1539 (177.4006412d)		V=20	Reference Frame: ICRS
		Alt Name1: MACS1149.6+2223	Dec: +22 24 12.95 (22.40360d)			
		Alt Name2: MACS1149	Equinox: J2000			

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(3) REFSDAL-GRISM	REFSDAL-GRISM	WFC3/IR, MULTIACCUM, GRISM1024	G141	NSAMP=13; SAMP-SEQ=SPAR S100	POS TARG 0.273,0.302; GS ACQ SCENARI O ONEB1B3		1202.936167 Secs (1202.936 Secs) [==>]	[1]
	2	(3) REFSDAL-GRISM	REFSDAL-GRISM	WFC3/IR, MULTIACCUM, GRISM1024	G141	NSAMP=13; SAMP-SEQ=SPAR S100	POS TARG 0.273,0.302		1202.936167 Secs (1202.936 Secs) [==>]	[1]
	3	(3) REFSDAL-GRISM	REFSDAL-GRISM	WFC3/IR, MULTIACCUM, GRISM1024	F160W	NSAMP=5; SAMP-SEQ=SPAR S50	POS TARG 0.273,0.302		202.934095 Secs (202.934 Secs) [==>]	[1]



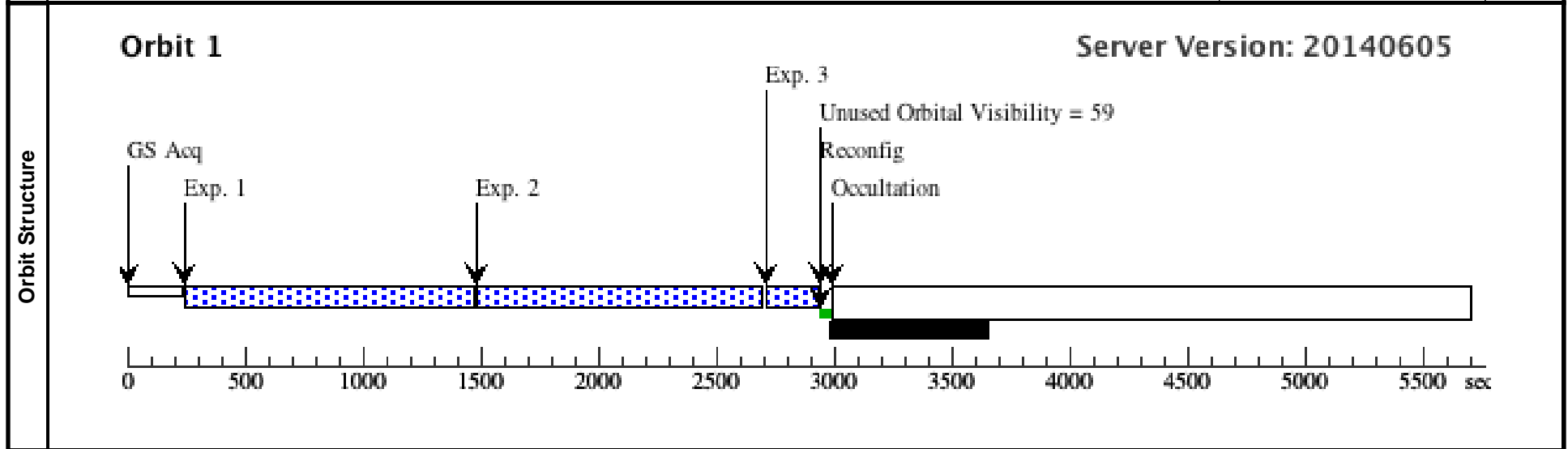
Proposal 14041 - 1orb: 1x f125w; 2x g141 (AB) - Classifying and Following a Strongly Lensed Likely Supernova with Multiple Images

Tue Jan 20 21:11:27 GMT 2015

Visit	Proposal 14041, 1orb: 1x f125w; 2x g141 (AB), completed				
	Diagnostic Status: No Diagnostics				
	Scientific Instruments: WFC3/IR				
	Special Requirements: SCHED 100%; SAME ORIENT AS A0				

Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(3)	REFSDAL-GRISM	RA: 11 49 36.1539 (177.4006412d)		V=20	Reference Frame: ICRS
		Alt Name1: MACS1149.6+2223	Dec: +22 24 12.95 (22.40360d)			
		Alt Name2: MACS1149	Equinox: J2000			

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(3) REFSDAL-GRIS M	(3) REFSDAL-GRIS M	WFC3/IR, MULTIACCUM, GRISM1024	G141	NSAMP=13; SAMP-SEQ=SPAR S100	POS TARG 0.273,0. 302; GS ACQ SCENARI O ONEB1B3		1202.936167 Secs (1202.936 Secs) [==>]	[1]
	2	(3) REFSDAL-GRIS M	(3) REFSDAL-GRIS M	WFC3/IR, MULTIACCUM, GRISM1024	G141	NSAMP=13; SAMP-SEQ=SPAR S100	POS TARG 0.273,0. 302		1202.936167 Secs (1202.936 Secs) [==>]	[1]
	3	(3) REFSDAL-GRIS M	(3) REFSDAL-GRIS M	WFC3/IR, MULTIACCUM, GRISM1024	F125W	NSAMP=5; SAMP-SEQ=SPAR S50	POS TARG 0.273,0. 302		202.934095 Secs (202.934 Secs) [==>]	[1]



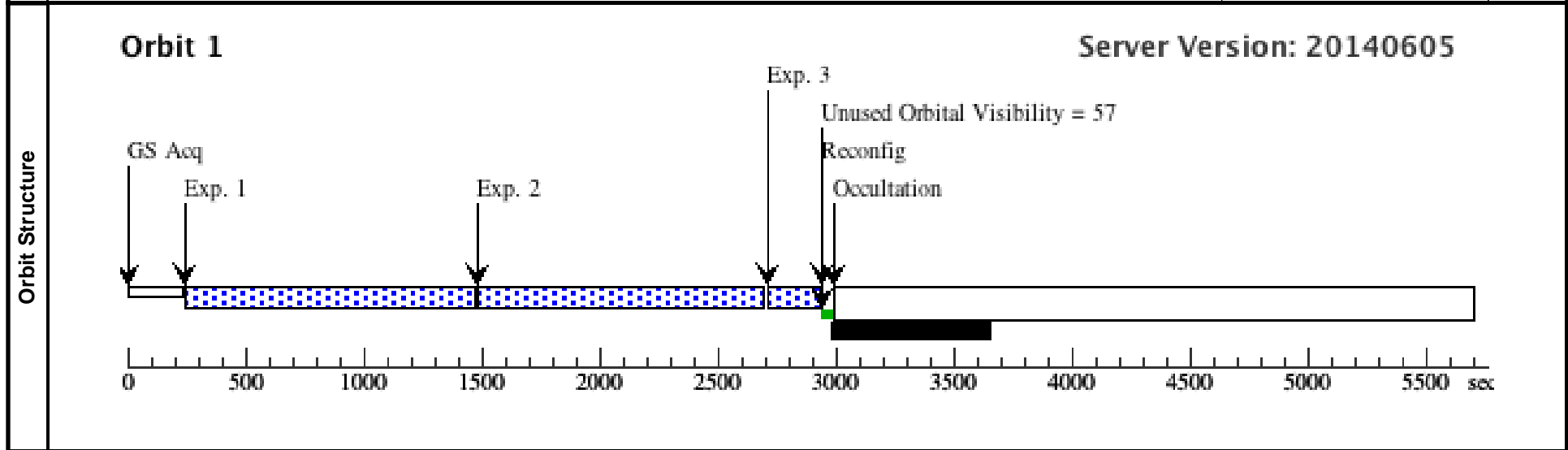
Proposal 14041 - 1orb: 1x f160w; 2x g141 (A2) - Classifying and Following a Strongly Lensed Likely Supernova with Multiple Images

Tue Jan 20 21:11:27 GMT 2015

Visit	Proposal 14041, 1orb: 1x f160w; 2x g141 (A2), completed				
	Diagnostic Status: No Diagnostics				
	Scientific Instruments: WFC3/IR				
	Special Requirements: SCHED 100%; SAME ORIENT AS A0				

Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(3)	REFSDAL-GRISM	RA: 11 49 36.1539 (177.4006412d)		V=20	Reference Frame: ICRS
		Alt Name1: MACS1149.6+2223	Dec: +22 24 12.95 (22.40360d)			
		Alt Name2: MACS1149	Equinox: J2000			

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(3) REFSDAL-GRISM	REFSDAL-GRISM	WFC3/IR, MULTIACCUM, GRISM1024	G141	NSAMP=13; SAMP-SEQ=SPAR S100	POS TARG 0.540,-0.243; GS ACQ SCENARI O ONEB1B3		1202.936167 Secs (1202.936 Secs)	[1]
	2	(3) REFSDAL-GRISM	REFSDAL-GRISM	WFC3/IR, MULTIACCUM, GRISM1024	G141	NSAMP=13; SAMP-SEQ=SPAR S100	POS TARG 0.540,-0.243		1202.936167 Secs (1202.936 Secs)	[1]
	3	(3) REFSDAL-GRISM	REFSDAL-GRISM	WFC3/IR, MULTIACCUM, GRISM1024	F160W	NSAMP=5; SAMP-SEQ=SPAR S50	POS TARG 0.540,-0.243		202.934095 Secs (202.934 Secs)	[1]



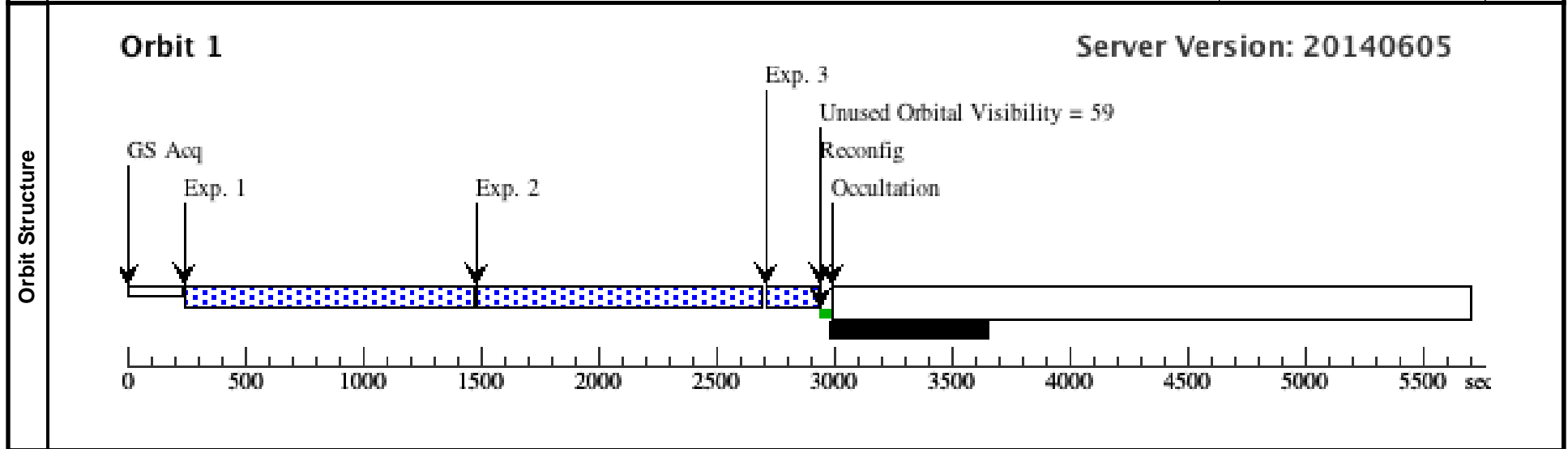
Proposal 14041 - 1orb: 1x f125w; 2x g141 (AC) - Classifying and Following a Strongly Lensed Likely Supernova with Multiple Images

Tue Jan 20 21:11:27 GMT 2015

Visit	Proposal 14041, 1orb: 1x f125w; 2x g141 (AC), completed				
	Diagnostic Status: No Diagnostics				
	Scientific Instruments: WFC3/IR				
	Special Requirements: SCHED 100%; SAME ORIENT AS A0				

Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(3)	REFSDAL-GRISM	RA: 11 49 36.1539 (177.4006412d)		V=20	Reference Frame: ICRS
		Alt Name1: MACS1149.6+2223	Dec: +22 24 12.95 (22.40360d)			
		Alt Name2: MACS1149	Equinox: J2000			

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(3) REFSDAL-GRISM	WFC3/IR, MULTIACCUM, GRISM1024	G141	NSAMP=13; SAMP-SEQ=SPAR S100	POS TARG 0.540,-0.243; GS ACQ SCENARI O ONEB1B3		1202.936167 Secs (1202.936 Secs) [==>]	[1]
	2		(3) REFSDAL-GRISM	WFC3/IR, MULTIACCUM, GRISM1024	G141	NSAMP=13; SAMP-SEQ=SPAR S100	POS TARG 0.540,-0.243		1202.936167 Secs (1202.936 Secs) [==>]	[1]
	3		(3) REFSDAL-GRISM	WFC3/IR, MULTIACCUM, GRISM1024	F125W	NSAMP=5; SAMP-SEQ=SPAR S50	POS TARG 0.540,-0.243		202.934095 Secs (202.934 Secs) [==>]	[1]



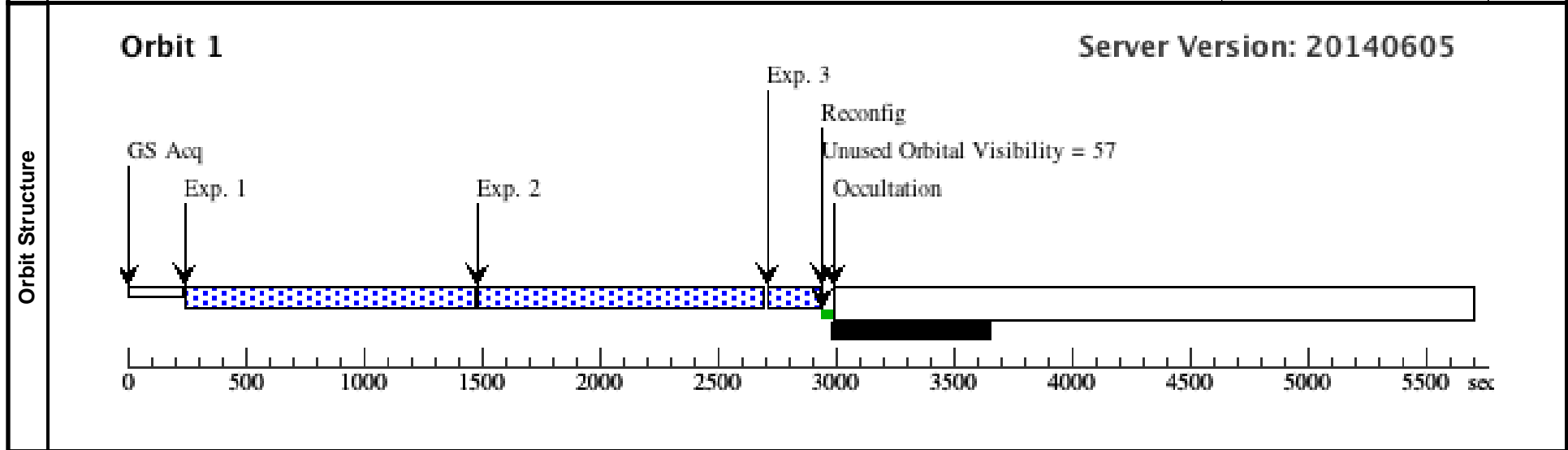
Proposal 14041 - 1orb: 1x f160w; 2x g141 (A3) - Classifying and Following a Strongly Lensed Likely Supernova with Multiple Images

Tue Jan 20 21:11:27 GMT 2015

Visit	Proposal 14041, 1orb: 1x f160w; 2x g141 (A3), completed				
	Diagnostic Status: No Diagnostics				
	Scientific Instruments: WFC3/IR				
	Special Requirements: SCHED 100%; SAME ORIENT AS A0				

Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(3)	REFSDAL-GRISM	RA: 11 49 36.1539 (177.4006412d)		V=20	Reference Frame: ICRS
		Alt Name1: MACS1149.6+2223	Dec: +22 24 12.95 (22.40360d)			
		Alt Name2: MACS1149	Equinox: J2000			

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(3) REFSDAL-GRISM	REFSDAL-GRISM	WFC3/IR, MULTIACCUM, GRISM1024	G141	NSAMP=13; SAMP-SEQ=SPAR S100	POS TARG -0.340,-0.301; GS ACQ SCENARI O ONEB1B3		1202.936167 Secs (1202.936 Secs) [==>]	[1]
	2	(3) REFSDAL-GRISM	REFSDAL-GRISM	WFC3/IR, MULTIACCUM, GRISM1024	G141	NSAMP=13; SAMP-SEQ=SPAR S100	POS TARG -0.340,-0.301		1202.936167 Secs (1202.936 Secs) [==>]	[1]
	3	(3) REFSDAL-GRISM	REFSDAL-GRISM	WFC3/IR, MULTIACCUM, GRISM1024	F160W	NSAMP=5; SAMP-SEQ=SPAR S50	POS TARG -0.340,-0.301		202.934095 Secs (202.934 Secs) [==>]	[1]



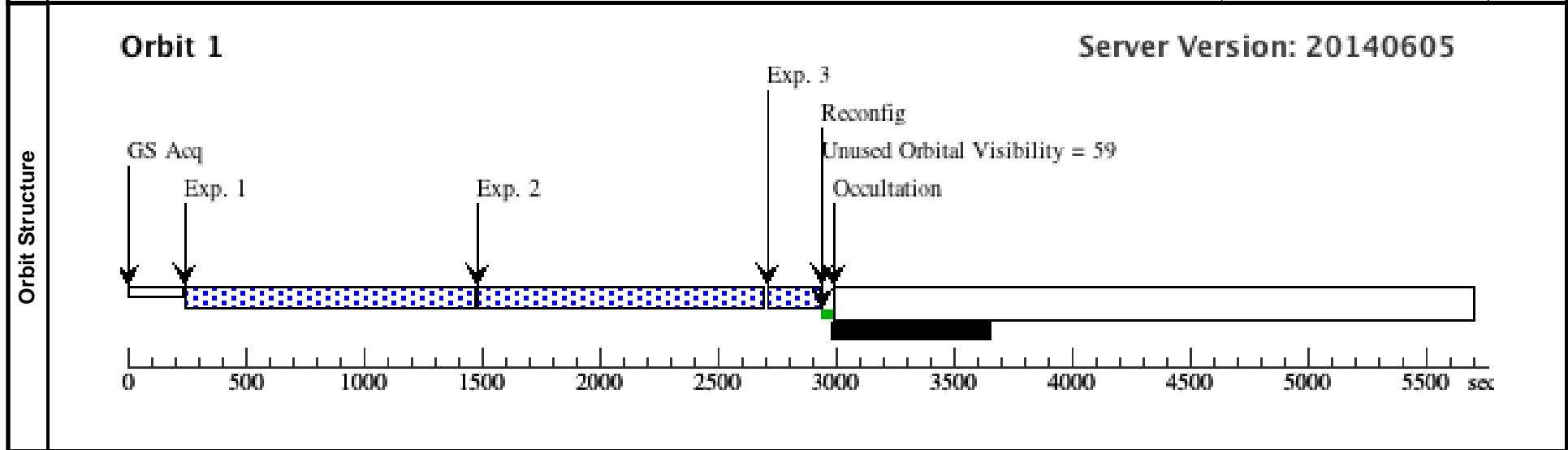
Proposal 14041 - 1orb: 1x f125w; 2x g141 (AD) - Classifying and Following a Strongly Lensed Likely Supernova with Multiple Images

Tue Jan 20 21:11:27 GMT 2015

Visit	Proposal 14041, 1orb: 1x f125w; 2x g141 (AD), completed				
	Diagnostic Status: No Diagnostics				
	Scientific Instruments: WFC3/IR Special Requirements: SCHED 100%; SAME ORIENT AS A0				

Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(3)	REFSDAL-GRISM	RA: 11 49 36.1539 (177.4006412d)		V=20	Reference Frame: ICRS
		Alt Name1: MACS1149.6+2223	Dec: +22 24 12.95 (22.40360d)			
		Alt Name2: MACS1149	Equinox: J2000			

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(3) REFSDAL-GRISM	REFSDAL-GRISM	WFC3/IR, MULTIACCUM, GRISM1024	G141	NSAMP=13; SAMP-SEQ=SPAR S100	POS TARG -0.340,-0.301; GS ACQ SCENARI O ONEB1B3		1202.936167 Secs (1202.936 Secs) [==>]	[1]
	2	(3) REFSDAL-GRISM	REFSDAL-GRISM	WFC3/IR, MULTIACCUM, GRISM1024	G141	NSAMP=13; SAMP-SEQ=SPAR S100	POS TARG -0.340,-0.301		1202.936167 Secs (1202.936 Secs) [==>]	[1]
	3	(3) REFSDAL-GRISM	REFSDAL-GRISM	WFC3/IR, MULTIACCUM, GRISM1024	F125W	NSAMP=5; SAMP-SEQ=SPAR S50	POS TARG -0.340,-0.301		202.934095 Secs (202.934 Secs) [==>]	[1]



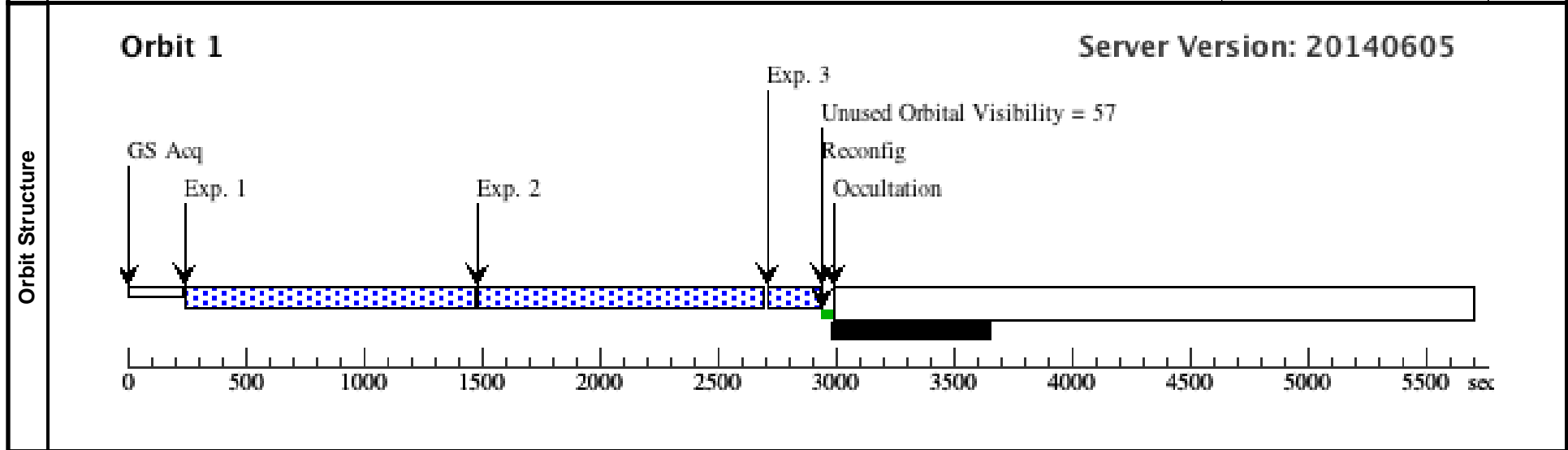
Proposal 14041 - 1orb: 1x f160w; 2x g141 (A4) - Classifying and Following a Strongly Lensed Likely Supernova with Multiple Images

Tue Jan 20 21:11:27 GMT 2015

Visit	Proposal 14041, 1orb: 1x f160w; 2x g141 (A4), completed				
	Diagnostic Status: No Diagnostics				
	Scientific Instruments: WFC3/IR				
	Special Requirements: SCHED 100%; SAME ORIENT AS A0				

Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(3)	REFSDAL-GRISM	RA: 11 49 36.1539 (177.4006412d)		V=20	Reference Frame: ICRS
		Alt Name1: MACS1149.6+2223	Dec: +22 24 12.95 (22.40360d)			
		Alt Name2: MACS1149	Equinox: J2000			

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(3) REFSDAL-GRISM	(3) REFSDAL-GRIS M	WFC3/IR, MULTIACCUM, GRISM1024	G141	NSAMP=13; SAMP-SEQ=SPAR S100	POS TARG -0.608,0 .244; GS ACQ SCENARI O ONEB1B3		1202.936167 Secs (1202.936 Secs) [==>]	[1]
	2	(3) REFSDAL-GRISM	(3) REFSDAL-GRIS M	WFC3/IR, MULTIACCUM, GRISM1024	G141	NSAMP=13; SAMP-SEQ=SPAR S100	POS TARG -0.608,0 .244		1202.936167 Secs (1202.936 Secs) [==>]	[1]
	3	(3) REFSDAL-GRISM	(3) REFSDAL-GRIS M	WFC3/IR, MULTIACCUM, GRISM1024	F160W	NSAMP=5; SAMP-SEQ=SPAR S50	POS TARG -0.608,0 .244		202.934095 Secs (202.934 Secs) [==>]	[1]



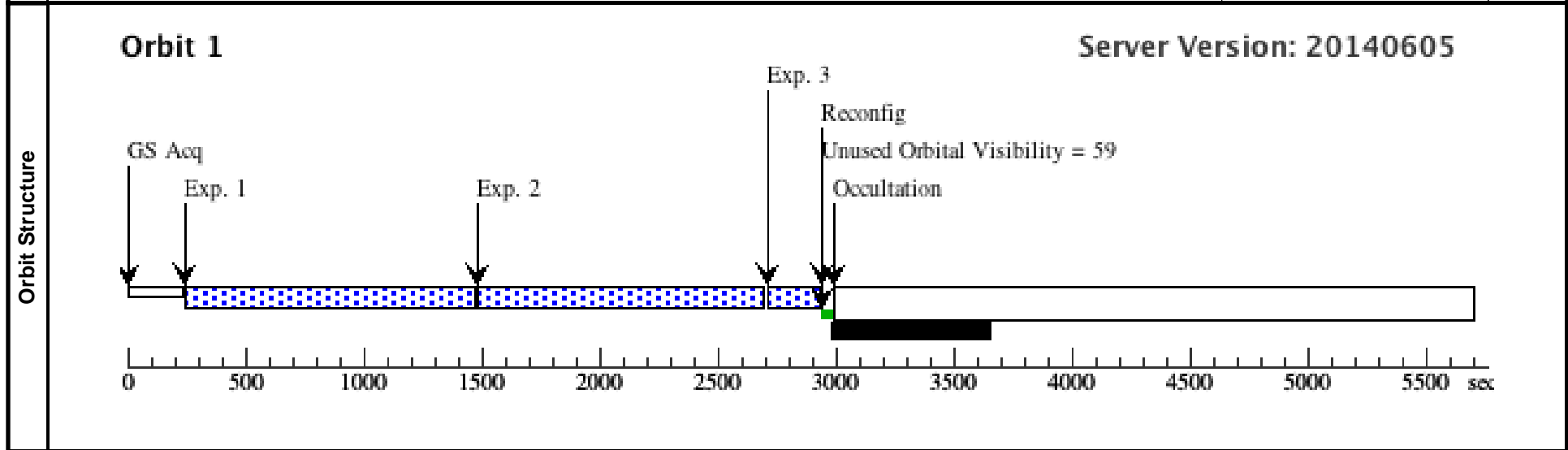
Proposal 14041 - 1orb: 1x f125w; 2x g141 (AE) - Classifying and Following a Strongly Lensed Likely Supernova with Multiple Images

Tue Jan 20 21:11:27 GMT 2015

Visit	Proposal 14041, 1orb: 1x f125w; 2x g141 (AE), completed				
	Diagnostic Status: No Diagnostics				
	Scientific Instruments: WFC3/IR				
	Special Requirements: SCHED 100%; SAME ORIENT AS A0				

Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(3)	REFSDAL-GRISM	RA: 11 49 36.1539 (177.4006412d)		V=20	Reference Frame: ICRS
		Alt Name1: MACS1149.6+2223	Dec: +22 24 12.95 (22.40360d)			
		Alt Name2: MACS1149	Equinox: J2000			

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(3) REFSDAL-GRISM	WFC3/IR, MULTIACCUM, GRISM1024	G141	NSAMP=13; SAMP-SEQ=SPAR S100	POS TARG -0.608,0 .244; GS ACQ SCENARI O ONEB1B3		1202.936167 Secs (1202.936 Secs) [==>]	[1]
	2		(3) REFSDAL-GRISM	WFC3/IR, MULTIACCUM, GRISM1024	G141	NSAMP=13; SAMP-SEQ=SPAR S100	POS TARG -0.608,0 .244		1202.936167 Secs (1202.936 Secs) [==>]	[1]
	3		(3) REFSDAL-GRISM	WFC3/IR, MULTIACCUM, GRISM1024	F125W	NSAMP=5; SAMP-SEQ=SPAR S50	POS TARG -0.608,0 .244		202.934095 Secs (202.934 Secs) [==>]	[1]



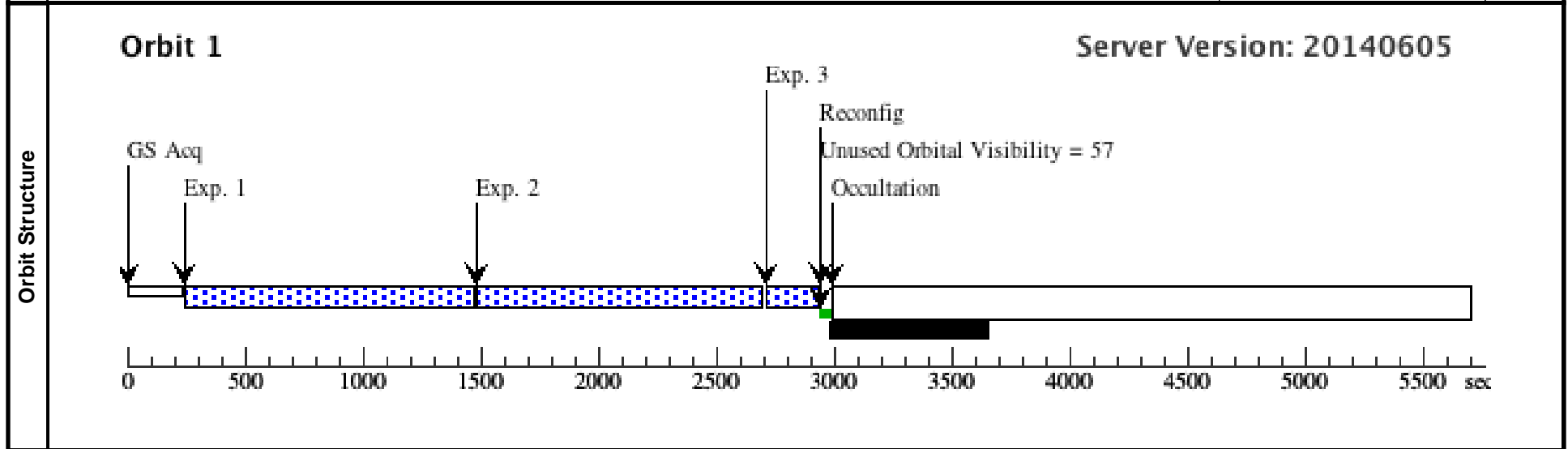
Proposal 14041 - 1orb: 1x f160w; 2x g141 (A5) - Classifying and Following a Strongly Lensed Likely Supernova with Multiple Images

Tue Jan 20 21:11:28 GMT 2015

Visit	Proposal 14041, 1orb: 1x f160w; 2x g141 (A5), completed				
	Diagnostic Status: No Diagnostics				
	Scientific Instruments: WFC3/IR				
	Special Requirements: SCHED 100%; SAME ORIENT AS A0				

Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(3)	REFSDAL-GRISM	RA: 11 49 36.1539 (177.4006412d)		V=20	Reference Frame: ICRS
		Alt Name1: MACS1149.6+2223	Dec: +22 24 12.95 (22.40360d)			
		Alt Name2: MACS1149	Equinox: J2000			

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(3) REFSDAL-GRISM	REFSDAL-GRISM	WFC3/IR, MULTIACCUM, GRISM1024	G141	NSAMP=13; SAMP-SEQ=SPAR S100	POS TARG 0.273,0.302; GS ACQ SCENARI ONEB1B3		1202.936167 Secs (1202.936 Secs) [==>]	[1]
	2	(3) REFSDAL-GRISM	REFSDAL-GRISM	WFC3/IR, MULTIACCUM, GRISM1024	G141	NSAMP=13; SAMP-SEQ=SPAR S100	POS TARG 0.273,0.302		1202.936167 Secs (1202.936 Secs) [==>]	[1]
	3	(3) REFSDAL-GRISM	REFSDAL-GRISM	WFC3/IR, MULTIACCUM, GRISM1024	F160W	NSAMP=5; SAMP-SEQ=SPAR S50	POS TARG 0.273,0.302		202.934095 Secs (202.934 Secs) [==>]	[1]

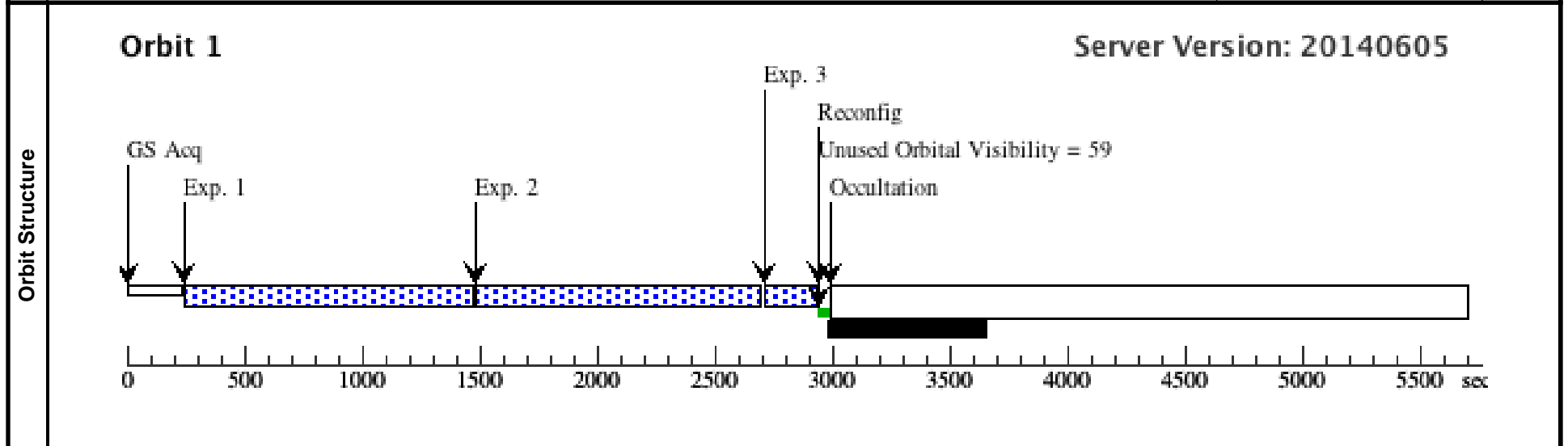


Proposal 14041 - 1orb: 1x f125w; 2x g141 (AF) - Classifying and Following a Strongly Lensed Likely Supernova with Multiple Images

Visit	Proposal 14041, 1orb: 1x f125w; 2x g141 (AF), completed				Tue Jan 20 21:11:28 GMT 2015
	Diagnostic Status: No Diagnostics				
	Scientific Instruments: WFC3/IR				
	Special Requirements: SCHED 100%; SAME ORIENT AS A0				

Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(3)	REFSDAL-GRISM	RA: 11 49 36.1539 (177.4006412d)		V=20	Reference Frame: ICRS
		Alt Name1: MACS1149.6+2223	Dec: +22 24 12.95 (22.40360d)			
		Alt Name2: MACS1149	Equinox: J2000			

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(3) REFSDAL-GRIS M	WFC3/IR, MULTIACCUM, GRISM1024	G141	NSAMP=13; SAMP-SEQ=SPAR S100	POS TARG 0.0,0.0; GS ACQ SCENARI O ONEB1B3		1202.936167 Secs (1202.936 Secs) [==>]	[1]
	2		(3) REFSDAL-GRIS M	WFC3/IR, MULTIACCUM, GRISM1024	G141	NSAMP=13; SAMP-SEQ=SPAR S100	POS TARG 0.0,0.0		1202.936167 Secs (1202.936 Secs) [==>]	[1]
	3		(3) REFSDAL-GRIS M	WFC3/IR, MULTIACCUM, GRISM1024	F125W	NSAMP=5; SAMP-SEQ=SPAR S50	POS TARG 0.0,0.0		202.934095 Secs (202.934 Secs) [==>]	[1]



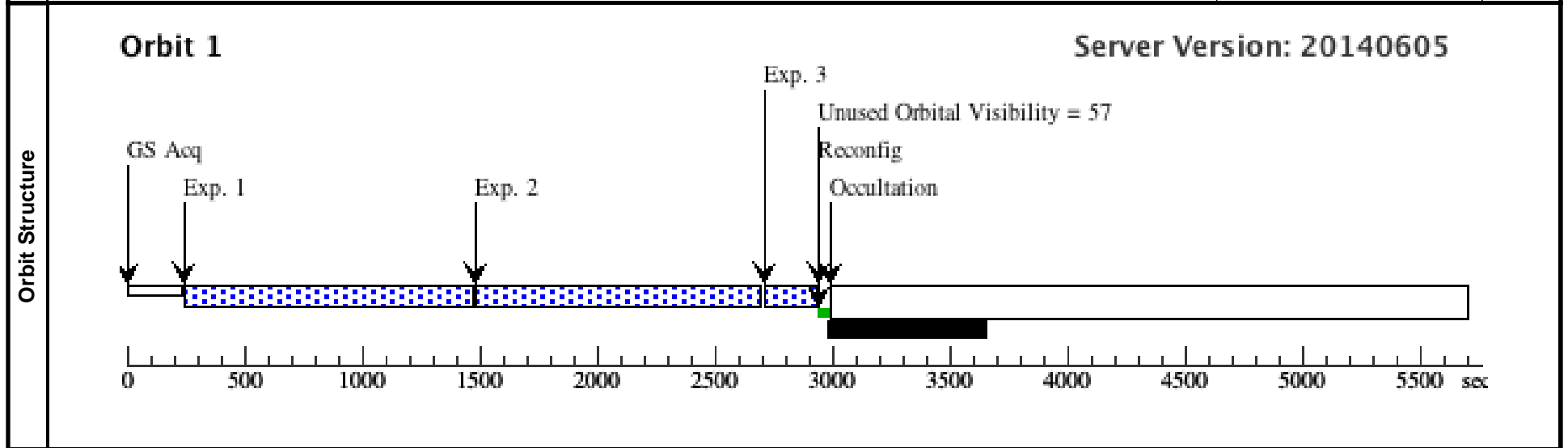
Proposal 14041 - 1orb: 1x f160w; 2x g141 (A6) - Classifying and Following a Strongly Lensed Likely Supernova with Multiple Images

Tue Jan 20 21:11:28 GMT 2015

Visit	Proposal 14041, 1orb: 1x f160w; 2x g141 (A6), completed				
	Diagnostic Status: No Diagnostics				
	Scientific Instruments: WFC3/IR				
	Special Requirements: SCHED 100%; SAME ORIENT AS A0				

Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(3)	REFSDAL-GRISM	RA: 11 49 36.1539 (177.4006412d)		V=20	Reference Frame: ICRS
		Alt Name1: MACS1149.6+2223	Dec: +22 24 12.95 (22.40360d)			
		Alt Name2: MACS1149	Equinox: J2000			

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(3) REFSDAL-GRISM	REFSDAL-GRISM	WFC3/IR, MULTIACCUM, GRISM1024	G141	NSAMP=13; SAMP-SEQ=SPAR S100	POS TARG 0.540,-0.243; GS ACQ SCENARI ONEB1B3		1202.936167 Secs (1202.936 Secs) [==>]	[1]
	2	(3) REFSDAL-GRISM	REFSDAL-GRISM	WFC3/IR, MULTIACCUM, GRISM1024	G141	NSAMP=13; SAMP-SEQ=SPAR S100	POS TARG 0.540,-0.243		1202.936167 Secs (1202.936 Secs) [==>]	[1]
	3	(3) REFSDAL-GRISM	REFSDAL-GRISM	WFC3/IR, MULTIACCUM, GRISM1024	F160W	NSAMP=5; SAMP-SEQ=SPAR S50	POS TARG 0.540,-0.243		202.934095 Secs (202.934 Secs) [==>]	[1]



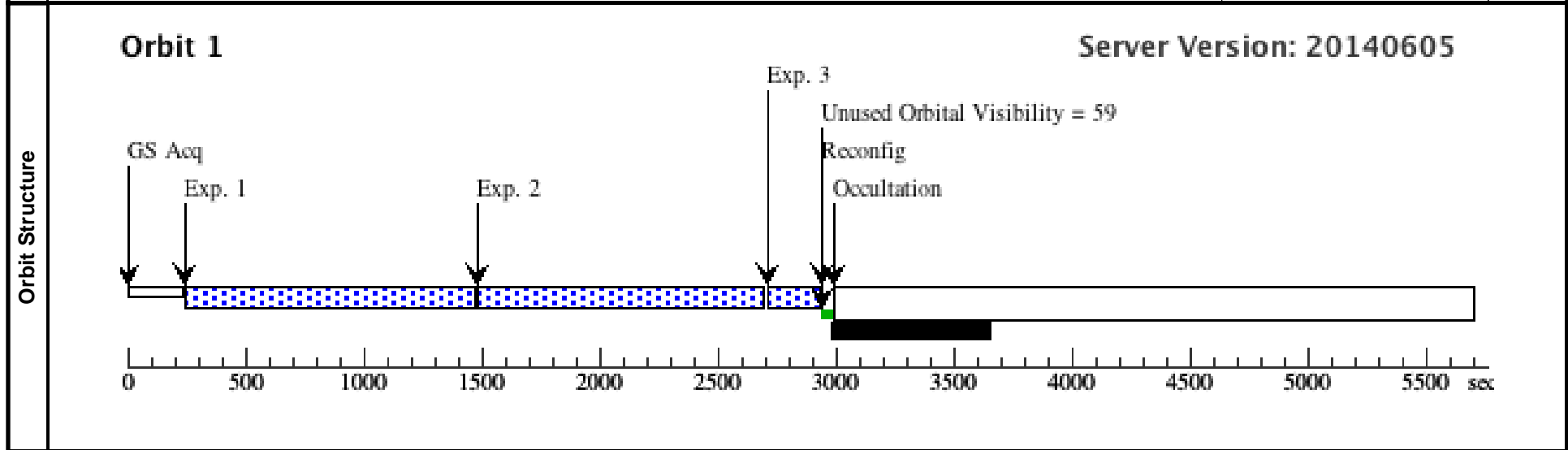
Proposal 14041 - 1orb: 1x f125w; 2x g141 (AG) - Classifying and Following a Strongly Lensed Likely Supernova with Multiple Images

Tue Jan 20 21:11:28 GMT 2015

Visit	Proposal 14041, 1orb: 1x f125w; 2x g141 (AG), completed				
	Diagnostic Status: No Diagnostics				
	Scientific Instruments: WFC3/IR				
	Special Requirements: SCHED 100%; SAME ORIENT AS A0				

Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(3)	REFSDAL-GRISM	RA: 11 49 36.1539 (177.4006412d)		V=20	Reference Frame: ICRS
		Alt Name1: MACS1149.6+2223	Dec: +22 24 12.95 (22.40360d)			
		Alt Name2: MACS1149	Equinox: J2000			

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(3) REFSDAL-GRISM	REFSDAL-GRISM	WFC3/IR, MULTIACCUM, GRISM1024	G141	NSAMP=13; SAMP-SEQ=SPAR S100	POS TARG -0.340,-0.301; GS ACQ SCENARI ONEB1B3		1202.936167 Secs (1202.936 Secs) [==>]	[1]
	2	(3) REFSDAL-GRISM	REFSDAL-GRISM	WFC3/IR, MULTIACCUM, GRISM1024	G141	NSAMP=13; SAMP-SEQ=SPAR S100	POS TARG -0.340,-0.301		1202.936167 Secs (1202.936 Secs) [==>]	[1]
	3	(3) REFSDAL-GRISM	REFSDAL-GRISM	WFC3/IR, MULTIACCUM, GRISM1024	F125W	NSAMP=5; SAMP-SEQ=SPAR S50	POS TARG -0.340,-0.301		202.934095 Secs (202.934 Secs) [==>]	[1]



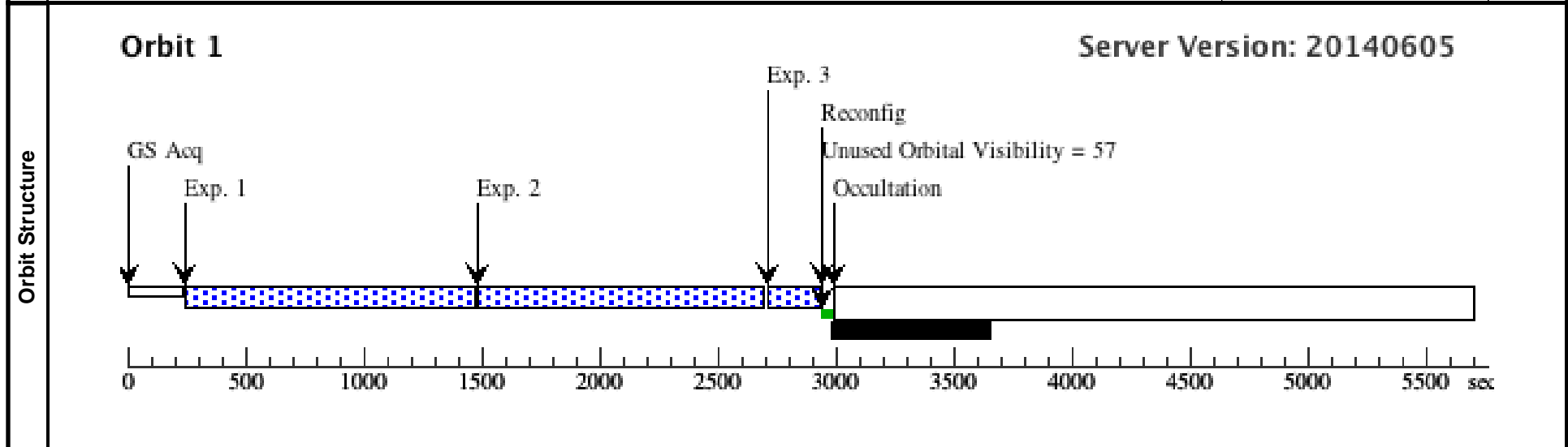
Proposal 14041 - 1orb: 1x f160w; 2x g141 (A7) - Classifying and Following a Strongly Lensed Likely Supernova with Multiple Images

Tue Jan 20 21:11:28 GMT 2015

Visit	Proposal 14041, 1orb: 1x f160w; 2x g141 (A7), completed				
	Diagnostic Status: No Diagnostics				
	Scientific Instruments: WFC3/IR				
	Special Requirements: SCHED 100%; SAME ORIENT AS A0				

Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(3)	REFSDAL-GRISM	RA: 11 49 36.1539 (177.4006412d)		V=20	Reference Frame: ICRS
		Alt Name1: MACS1149.6+2223	Dec: +22 24 12.95 (22.40360d)			
		Alt Name2: MACS1149	Equinox: J2000			

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(3) REFSDAL-GRISM	REFSDAL-GRISM	WFC3/IR, MULTIACCUM, GRISM1024	G141	NSAMP=13; SAMP-SEQ=SPAR S100	POS TARG -0.608,0 .244; GS ACQ SCENARI O ONEB1B3		1202.936167 Secs (1202.936 Secs) [==>]	[1]
	2	(3) REFSDAL-GRISM	REFSDAL-GRISM	WFC3/IR, MULTIACCUM, GRISM1024	G141	NSAMP=13; SAMP-SEQ=SPAR S100	POS TARG -0.608,0 .244		1202.936167 Secs (1202.936 Secs) [==>]	[1]
	3	(3) REFSDAL-GRISM	REFSDAL-GRISM	WFC3/IR, MULTIACCUM, GRISM1024	F160W	NSAMP=5; SAMP-SEQ=SPAR S50	POS TARG -0.608,0 .244		202.934095 Secs (202.934 Secs) [==>]	[1]



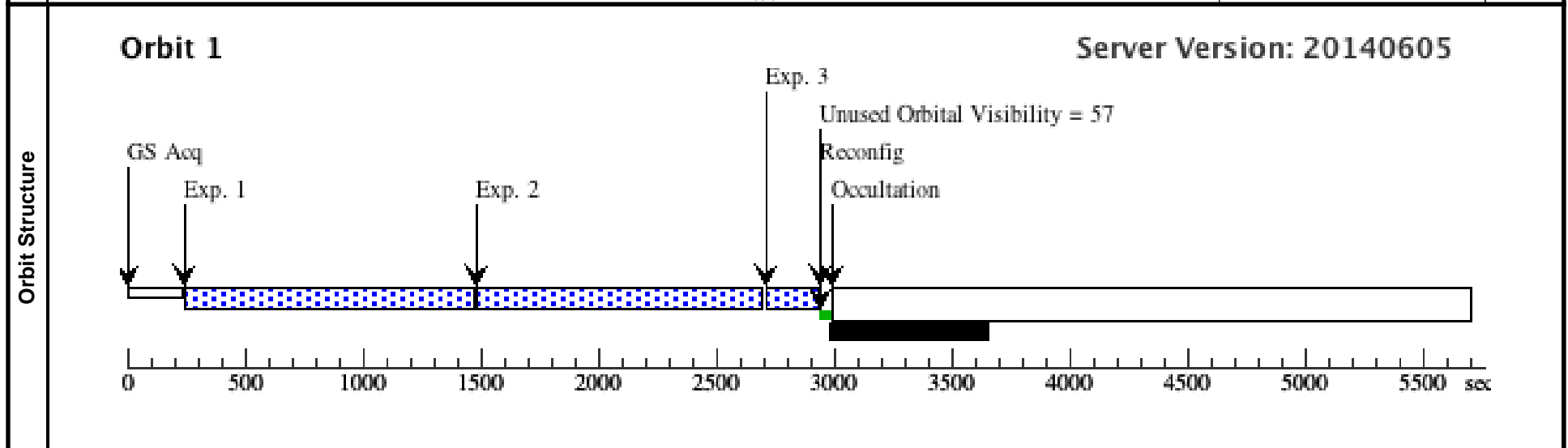
Proposal 14041 - 1orb: 1x f160w; 2x g141 (B0) - Classifying and Following a Strongly Lensed Likely Supernova with Multiple Images

Tue Jan 20 21:11:28 GMT 2015

Visit	Proposal 14041, 1orb: 1x f160w; 2x g141 (B0), completed				
	Diagnostic Status: No Diagnostics				
	Scientific Instruments: WFC3/IR				
	Special Requirements: SCHED 100%; ORIENT 296D TO 300 D				
<i>Comments: PI prefers orient of 299</i>					

Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(3)	REFSDAL-GRISM	RA: 11 49 36.1539 (177.4006412d)		V=20	Reference Frame: ICRS
		Alt Name1: MACS1149.6+2223	Dec: +22 24 12.95 (22.40360d)			
		Alt Name2: MACS1149	Equinox: J2000			

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(3) REFSDAL-GRIS M	WFC3/IR, MULTIACCUM, GRISM1024	G141	NSAMP=13; SAMP-SEQ=SPAR S100	POS TARG 0.0,0.0; GS ACQ SCENARI O ONEB1B3		1202.936167 Secs (1202.936 Secs) [==>]	[1]
	2		(3) REFSDAL-GRIS M	WFC3/IR, MULTIACCUM, GRISM1024	G141	NSAMP=13; SAMP-SEQ=SPAR S100	POS TARG 0.0,0.0		1202.936167 Secs (1202.936 Secs) [==>]	[1]
	3		(3) REFSDAL-GRIS M	WFC3/IR, MULTIACCUM, GRISM1024	F160W	NSAMP=5; SAMP-SEQ=SPAR S50	POS TARG 0.0,0.0		202.934095 Secs (202.934 Secs) [==>]	[1]

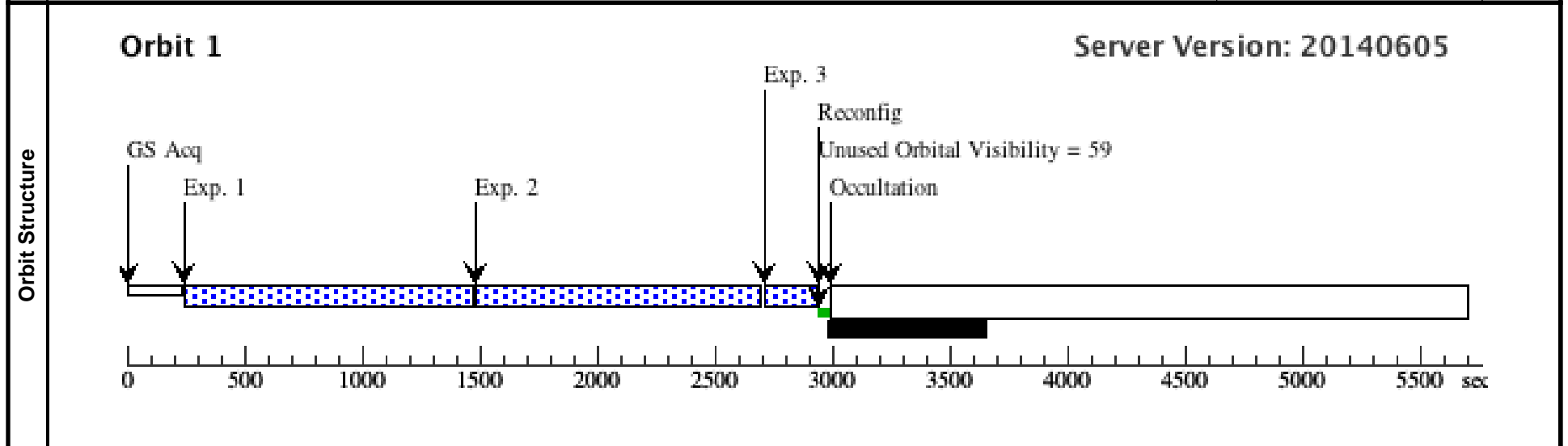


Proposal 14041 - 1orb: 1x f125w; 2x g141 (BA) - Classifying and Following a Strongly Lensed Likely Supernova with Multiple Images

Visit	Proposal 14041, 1orb: 1x f125w; 2x g141 (BA), completed					Tue Jan 20 21:11:28 GMT 2015
	Diagnostic Status: No Diagnostics					
	Scientific Instruments: WFC3/IR					
	Special Requirements: SCHED 100%; SAME ORIENT AS B0					

Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(3)	REFSDAL-GRISM	RA: 11 49 36.1539 (177.4006412d)		V=20	Reference Frame: ICRS
		Alt Name1: MACS1149.6+2223	Dec: +22 24 12.95 (22.40360d)			
		Alt Name2: MACS1149	Equinox: J2000			

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(3) REFSDAL-GRIS M	WFC3/IR, MULTIACCUM, GRISM1024	G141	NSAMP=13; SAMP-SEQ=SPAR S100	POS TARG 0.0,0.0; GS ACQ SCENARI O ONEB1B3		1202.936167 Secs (1202.936 Secs) [==>]	[1]
	2		(3) REFSDAL-GRIS M	WFC3/IR, MULTIACCUM, GRISM1024	G141	NSAMP=13; SAMP-SEQ=SPAR S100	POS TARG 0.0,0.0		1202.936167 Secs (1202.936 Secs) [==>]	[1]
	3		(3) REFSDAL-GRIS M	WFC3/IR, MULTIACCUM, GRISM1024	F125W	NSAMP=5; SAMP-SEQ=SPAR S50	POS TARG 0.0,0.0		202.934095 Secs (202.934 Secs) [==>]	[1]



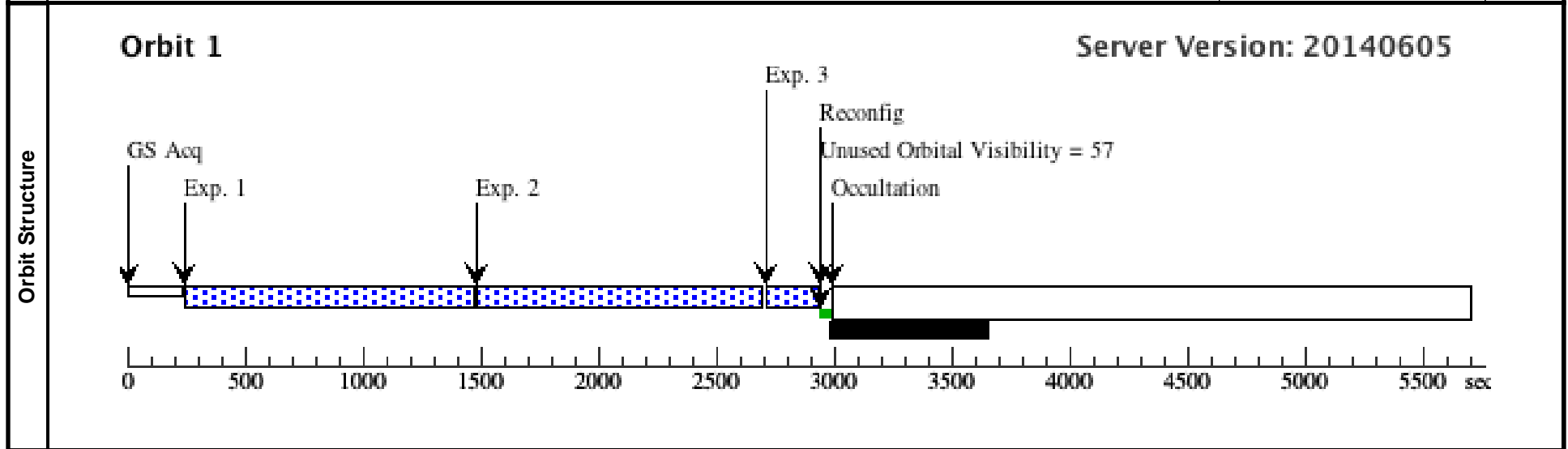
Proposal 14041 - 1orb: 1x f160w; 2x g141 (B1) - Classifying and Following a Strongly Lensed Likely Supernova with Multiple Images

Tue Jan 20 21:11:28 GMT 2015

Visit	Proposal 14041, 1orb: 1x f160w; 2x g141 (B1), completed				
	Diagnostic Status: No Diagnostics				
	Scientific Instruments: WFC3/IR				
	Special Requirements: SCHED 100%; SAME ORIENT AS B0				

Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(3)	REFSDAL-GRISM	RA: 11 49 36.1539 (177.4006412d)		V=20	Reference Frame: ICRS
		Alt Name1: MACS1149.6+2223	Dec: +22 24 12.95 (22.40360d)			
		Alt Name2: MACS1149	Equinox: J2000			

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(3) REFSDAL-GRIS M	(3) REFSDAL-GRIS M	WFC3/IR, MULTIACCUM, GRISM1024	G141	NSAMP=13; SAMP-SEQ=SPAR S100	POS TARG 0.273,0. 302; GS ACQ SCENARI O ONEB1B3		1202.936167 Secs (1202.936 Secs) [==>]	[1]
	2	(3) REFSDAL-GRIS M	(3) REFSDAL-GRIS M	WFC3/IR, MULTIACCUM, GRISM1024	G141	NSAMP=13; SAMP-SEQ=SPAR S100	POS TARG 0.273,0. 302		1202.936167 Secs (1202.936 Secs) [==>]	[1]
	3	(3) REFSDAL-GRIS M	(3) REFSDAL-GRIS M	WFC3/IR, MULTIACCUM, GRISM1024	F160W	NSAMP=5; SAMP-SEQ=SPAR S50	POS TARG 0.273,0. 302		202.934095 Secs (202.934 Secs) [==>]	[1]



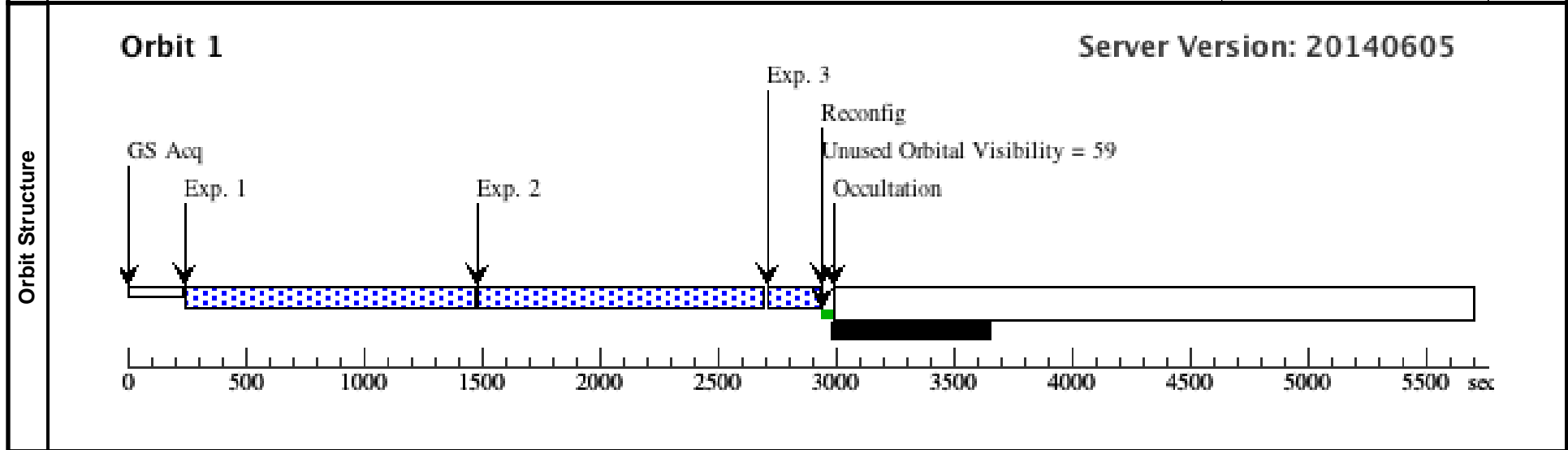
Proposal 14041 - 1orb: 1x f125w; 2x g141 (BB) - Classifying and Following a Strongly Lensed Likely Supernova with Multiple Images

Tue Jan 20 21:11:28 GMT 2015

Visit	Proposal 14041, 1orb: 1x f125w; 2x g141 (BB), completed				
	Diagnostic Status: No Diagnostics				
	Scientific Instruments: WFC3/IR				
	Special Requirements: SCHED 100%; SAME ORIENT AS B0				

Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(3)	REFSDAL-GRISM	RA: 11 49 36.1539 (177.4006412d)		V=20	Reference Frame: ICRS
		Alt Name1: MACS1149.6+2223	Dec: +22 24 12.95 (22.40360d)			
		Alt Name2: MACS1149	Equinox: J2000			

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(3) REFSDAL-GRISM	WFC3/IR, MULTIACCUM, GRISM1024	G141	NSAMP=13; SAMP-SEQ=SPAR S100	POS TARG 0.273,0.302; GS ACQ SCENARI O ONEB1B3		1202.936167 Secs (1202.936 Secs) [==>]	[1]
	2		(3) REFSDAL-GRISM	WFC3/IR, MULTIACCUM, GRISM1024	G141	NSAMP=13; SAMP-SEQ=SPAR S100	POS TARG 0.273,0.302		1202.936167 Secs (1202.936 Secs) [==>]	[1]
	3		(3) REFSDAL-GRISM	WFC3/IR, MULTIACCUM, GRISM1024	F125W	NSAMP=5; SAMP-SEQ=SPAR S50	POS TARG 0.273,0.302		202.934095 Secs (202.934 Secs) [==>]	[1]



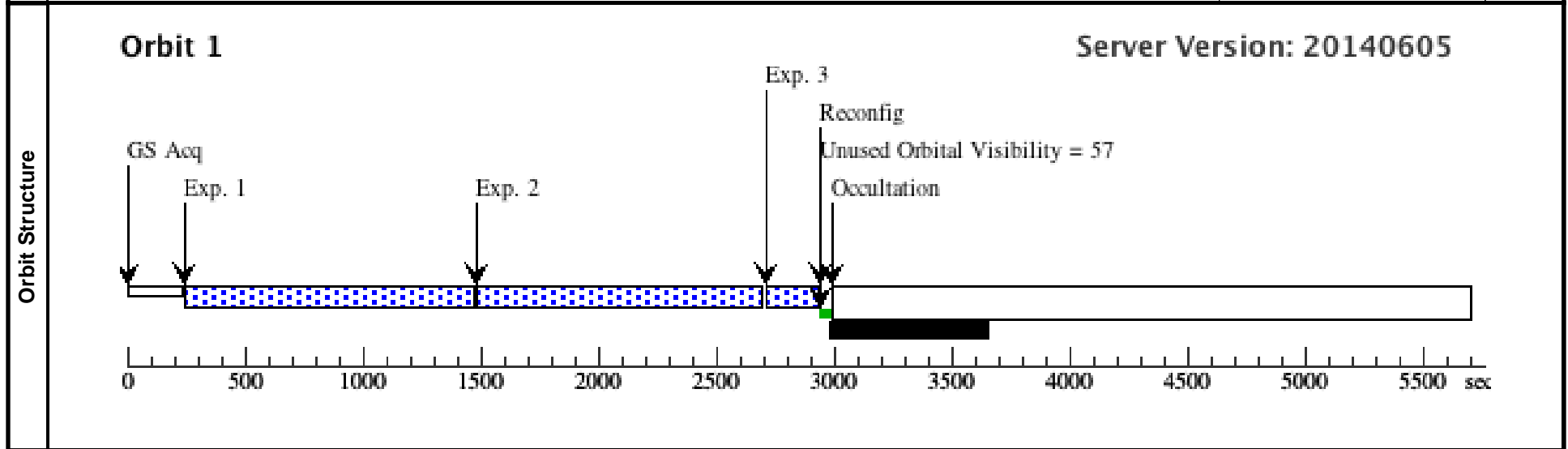
Proposal 14041 - 1orb: 1x f160w; 2x g141 (B2) - Classifying and Following a Strongly Lensed Likely Supernova with Multiple Images

Tue Jan 20 21:11:28 GMT 2015

Visit	Proposal 14041, 1orb: 1x f160w; 2x g141 (B2), completed				
	Diagnostic Status: No Diagnostics				
	Scientific Instruments: WFC3/IR				
	Special Requirements: SCHED 100%; SAME ORIENT AS B0				

Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(3)	REFSDAL-GRISM	RA: 11 49 36.1539 (177.4006412d)		V=20	Reference Frame: ICRS
		Alt Name1: MACS1149.6+2223	Dec: +22 24 12.95 (22.40360d)			
		Alt Name2: MACS1149	Equinox: J2000			

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(3) REFSDAL-GRISM	WFC3/IR, MULTIACCUM, GRISM1024	G141	NSAMP=13; SAMP-SEQ=SPAR S100	POS TARG 0.540,-0.243; GS ACQ SCENARI O ONEB1B3		1202.936167 Secs (1202.936 Secs) [==>]	[1]
	2		(3) REFSDAL-GRISM	WFC3/IR, MULTIACCUM, GRISM1024	G141	NSAMP=13; SAMP-SEQ=SPAR S100	POS TARG 0.540,-0.243		1202.936167 Secs (1202.936 Secs) [==>]	[1]
	3		(3) REFSDAL-GRISM	WFC3/IR, MULTIACCUM, GRISM1024	F160W	NSAMP=5; SAMP-SEQ=SPAR S50	POS TARG 0.540,-0.243		202.934095 Secs (202.934 Secs) [==>]	[1]



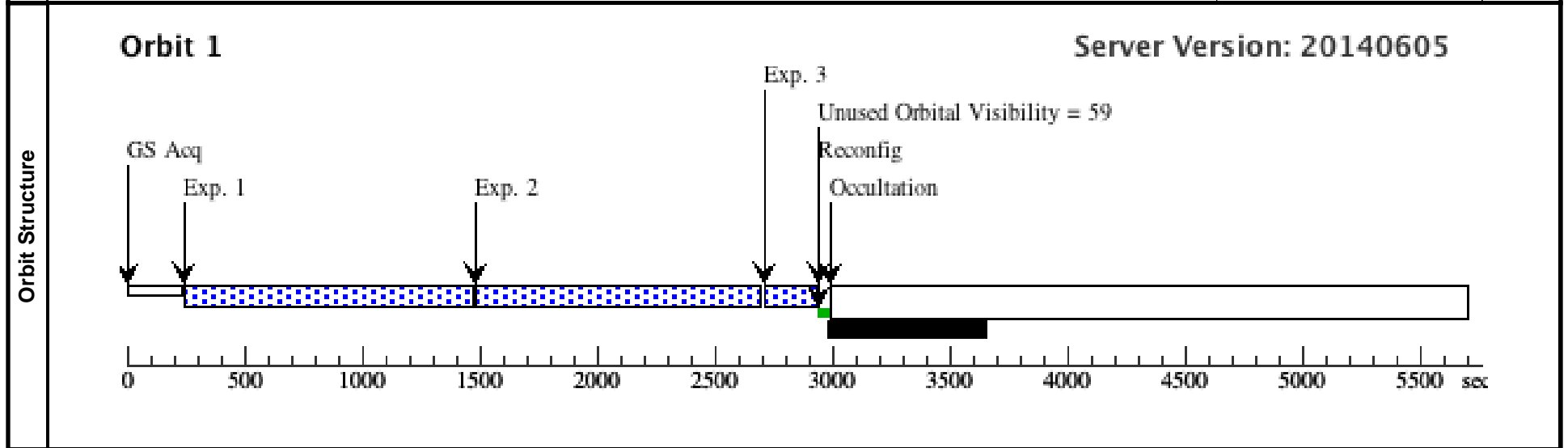
Proposal 14041 - 1orb: 1x f125w; 2x g141 (BC) - Classifying and Following a Strongly Lensed Likely Supernova with Multiple Images

Tue Jan 20 21:11:28 GMT 2015

Visit	Proposal 14041, 1orb: 1x f125w; 2x g141 (BC), completed				
	Diagnostic Status: No Diagnostics				
	Scientific Instruments: WFC3/IR				
	Special Requirements: SCHED 100%; SAME ORIENT AS B0				

Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(3)	REFSDAL-GRISM	RA: 11 49 36.1539 (177.4006412d)		V=20	Reference Frame: ICRS
		Alt Name1: MACS1149.6+2223	Dec: +22 24 12.95 (22.40360d)			
		Alt Name2: MACS1149	Equinox: J2000			

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(3) REFSDAL-GRISM	WFC3/IR, MULTIACCUM, GRISM1024	G141	NSAMP=13; SAMP-SEQ=SPAR S100	POS TARG 0.540,-0.243; GS ACQ SCENARI O ONEB1B3		1202.936167 Secs (1202.936 Secs)	[1]
	2		(3) REFSDAL-GRISM	WFC3/IR, MULTIACCUM, GRISM1024	G141	NSAMP=13; SAMP-SEQ=SPAR S100	POS TARG 0.540,-0.243		1202.936167 Secs (1202.936 Secs)	[1]
	3		(3) REFSDAL-GRISM	WFC3/IR, MULTIACCUM, GRISM1024	F125W	NSAMP=5; SAMP-SEQ=SPAR S50	POS TARG 0.540,-0.243		202.934095 Secs (202.934 Secs)	[1]



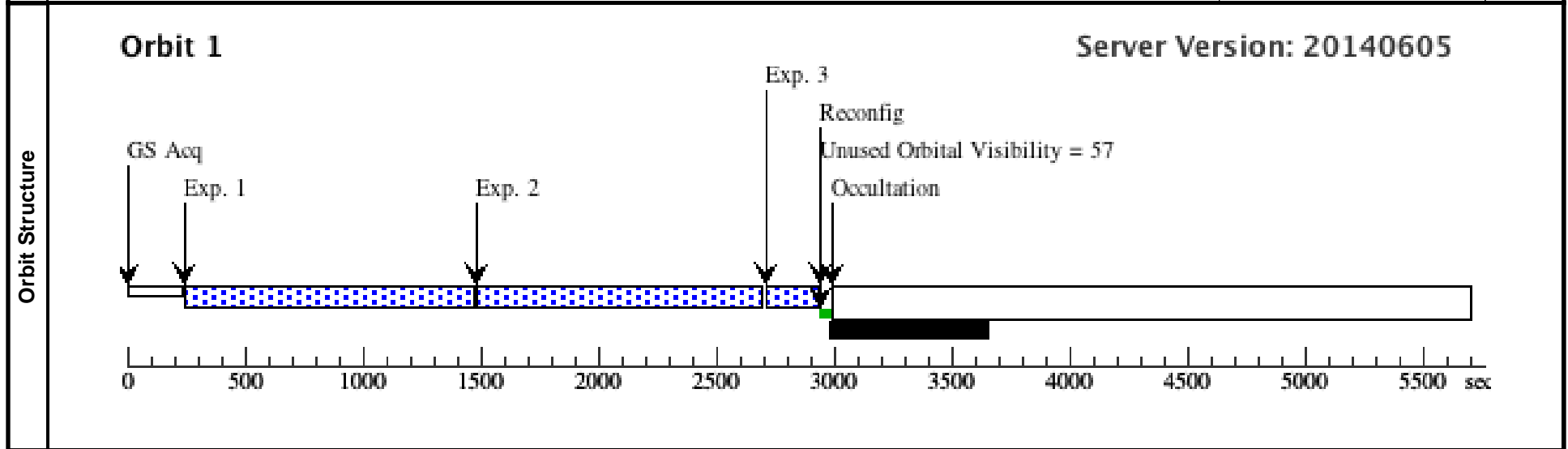
Proposal 14041 - 1orb: 1x f160w; 2x g141 (B3) - Classifying and Following a Strongly Lensed Likely Supernova with Multiple Images

Tue Jan 20 21:11:28 GMT 2015

Visit	Proposal 14041, 1orb: 1x f160w; 2x g141 (B3), completed				
	Diagnostic Status: No Diagnostics				
	Scientific Instruments: WFC3/IR				
	Special Requirements: SCHED 100%; SAME ORIENT AS B0				

Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(3)	REFSDAL-GRISM	RA: 11 49 36.1539 (177.4006412d)		V=20	Reference Frame: ICRS
		Alt Name1: MACS1149.6+2223	Dec: +22 24 12.95 (22.40360d)			
		Alt Name2: MACS1149	Equinox: J2000			

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(3) REFSDAL-GRISM	WFC3/IR, MULTIACCUM, GRISM1024	G141	NSAMP=13; SAMP-SEQ=SPAR S100	POS TARG -0.340,- 0.301; GS ACQ SCENARI O ONEB1B3		1202.936167 Secs (1202.936 Secs) [==>]	[1]
	2		(3) REFSDAL-GRISM	WFC3/IR, MULTIACCUM, GRISM1024	G141	NSAMP=13; SAMP-SEQ=SPAR S100	POS TARG -0.340,- 0.301		1202.936167 Secs (1202.936 Secs) [==>]	[1]
	3		(3) REFSDAL-GRISM	WFC3/IR, MULTIACCUM, GRISM1024	F160W	NSAMP=5; SAMP-SEQ=SPAR S50	POS TARG -0.340,- 0.301		202.934095 Secs (202.934 Secs) [==>]	[1]



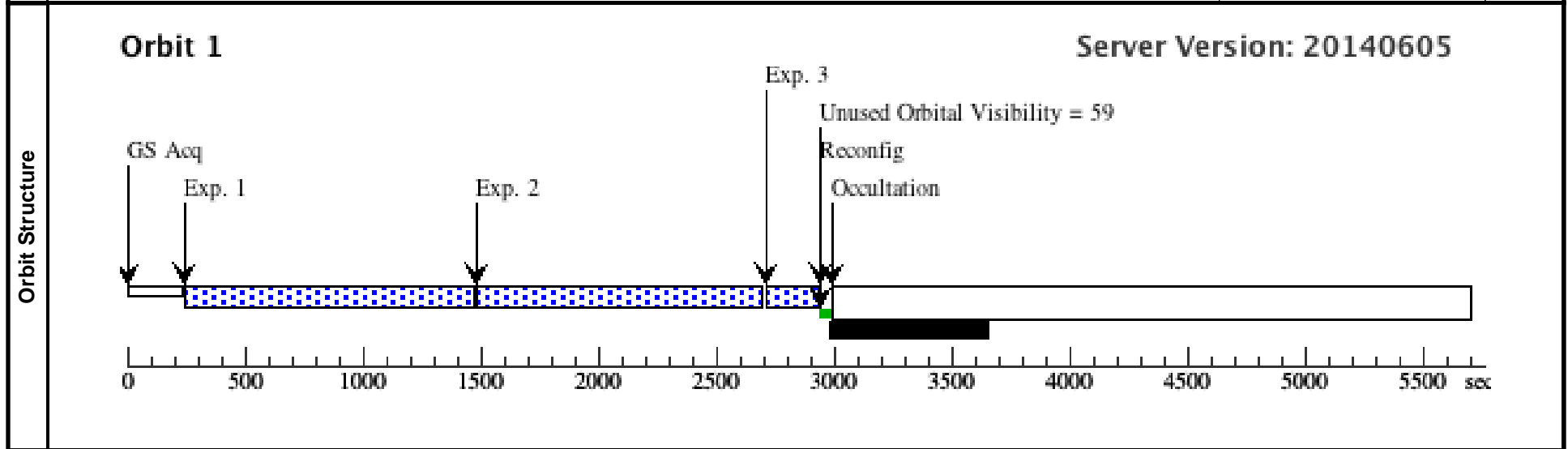
Proposal 14041 - 1orb: 1x f125w; 2x g141 (BD) - Classifying and Following a Strongly Lensed Likely Supernova with Multiple Images

Tue Jan 20 21:11:28 GMT 2015

Visit	Proposal 14041, 1orb: 1x f125w; 2x g141 (BD), completed				
	Diagnostic Status: No Diagnostics				
	Scientific Instruments: WFC3/IR				
	Special Requirements: SCHED 100%; SAME ORIENT AS B0				

Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(3)	REFSDAL-GRISM	RA: 11 49 36.1539 (177.4006412d)		V=20	Reference Frame: ICRS
		Alt Name1: MACS1149.6+2223	Dec: +22 24 12.95 (22.40360d)			
		Alt Name2: MACS1149	Equinox: J2000			

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(3) REFSDAL-GRISM	WFC3/IR, MULTIACCUM, GRISM1024	G141	NSAMP=13; SAMP-SEQ=SPAR S100	POS TARG -0.340,-0.301; GS ACQ SCENARI O ONEB1B3		1202.936167 Secs (1202.936 Secs) [==>]	[1]
	2		(3) REFSDAL-GRISM	WFC3/IR, MULTIACCUM, GRISM1024	G141	NSAMP=13; SAMP-SEQ=SPAR S100	POS TARG -0.340,-0.301		1202.936167 Secs (1202.936 Secs) [==>]	[1]
	3		(3) REFSDAL-GRISM	WFC3/IR, MULTIACCUM, GRISM1024	F125W	NSAMP=5; SAMP-SEQ=SPAR S50	POS TARG -0.340,-0.301		202.934095 Secs (202.934 Secs) [==>]	[1]



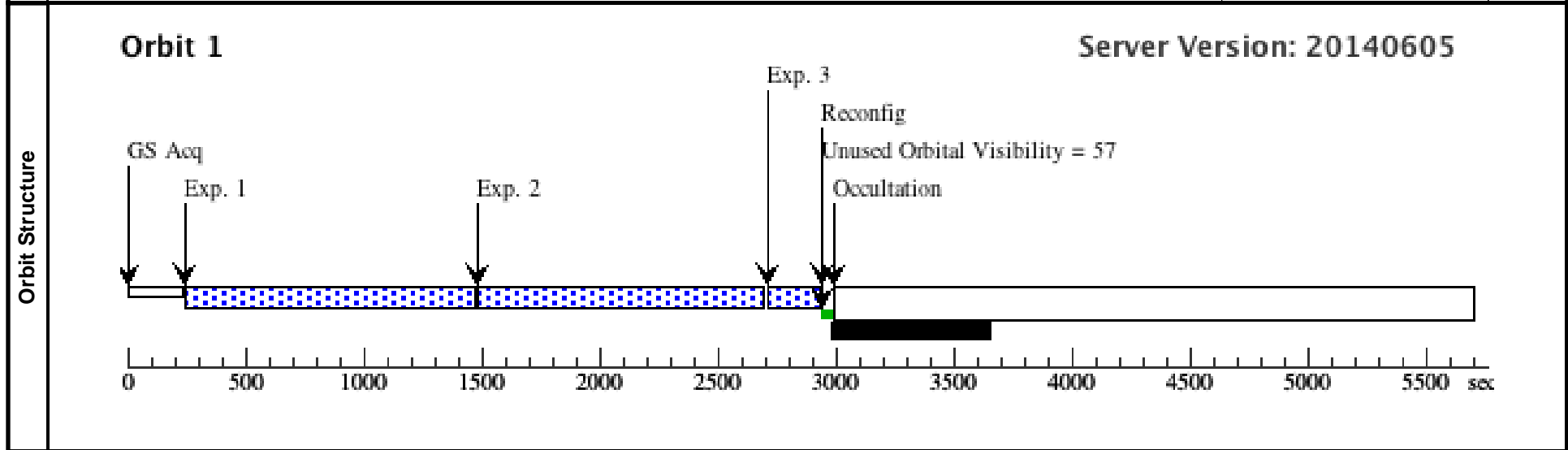
Proposal 14041 - 1orb: 1x f160w; 2x g141 (B4) - Classifying and Following a Strongly Lensed Likely Supernova with Multiple Images

Tue Jan 20 21:11:28 GMT 2015

Visit	Proposal 14041, 1orb: 1x f160w; 2x g141 (B4), completed				
	Diagnostic Status: No Diagnostics				
	Scientific Instruments: WFC3/IR				
	Special Requirements: SCHED 100%; SAME ORIENT AS B0				

Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(3)	REFSDAL-GRISM	RA: 11 49 36.1539 (177.4006412d)		V=20	Reference Frame: ICRS
		Alt Name1: MACS1149.6+2223	Dec: +22 24 12.95 (22.40360d)			
		Alt Name2: MACS1149	Equinox: J2000			

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(3) REFSDAL-GRISM	WFC3/IR, MULTIACCUM, GRISM1024	G141	NSAMP=13; SAMP-SEQ=SPAR S100	POS TARG -0.608,0 .244; GS ACQ SCENARI O ONEB1B3		1202.936167 Secs (1202.936 Secs) [==>]	[1]
	2		(3) REFSDAL-GRISM	WFC3/IR, MULTIACCUM, GRISM1024	G141	NSAMP=13; SAMP-SEQ=SPAR S100	POS TARG -0.608,0 .244		1202.936167 Secs (1202.936 Secs) [==>]	[1]
	3		(3) REFSDAL-GRISM	WFC3/IR, MULTIACCUM, GRISM1024	F160W	NSAMP=5; SAMP-SEQ=SPAR S50	POS TARG -0.608,0 .244		202.934095 Secs (202.934 Secs) [==>]	[1]



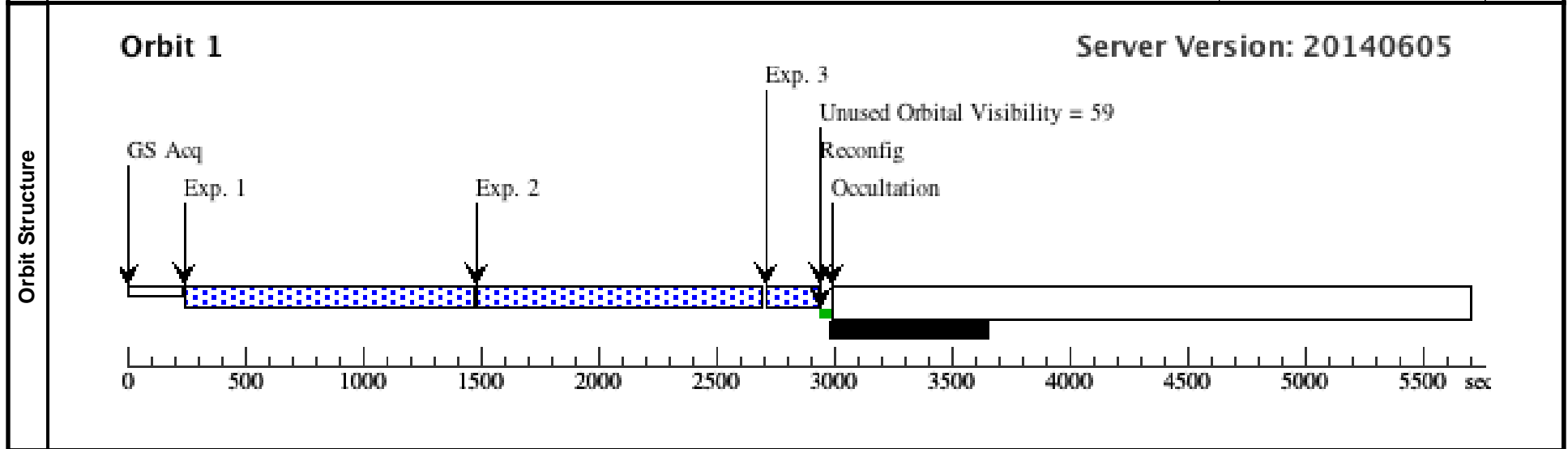
Proposal 14041 - 1orb: 1x f125w; 2x g141 (BE) - Classifying and Following a Strongly Lensed Likely Supernova with Multiple Images

Tue Jan 20 21:11:28 GMT 2015

Visit	Proposal 14041, 1orb: 1x f125w; 2x g141 (BE), completed				
	Diagnostic Status: No Diagnostics				
	Scientific Instruments: WFC3/IR				
	Special Requirements: SCHED 100%; SAME ORIENT AS B0				

Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(3)	REFSDAL-GRISM	RA: 11 49 36.1539 (177.4006412d)		V=20	Reference Frame: ICRS
		Alt Name1: MACS1149.6+2223	Dec: +22 24 12.95 (22.40360d)			
		Alt Name2: MACS1149	Equinox: J2000			

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(3) REFSDAL-GRISM	WFC3/IR, MULTIACCUM, GRISM1024	G141	NSAMP=13; SAMP-SEQ=SPAR S100	POS TARG -0.608,0 .244; GS ACQ SCENARI O ONEB1B3		1202.936167 Secs (1202.936 Secs) [==>]	[1]
	2		(3) REFSDAL-GRISM	WFC3/IR, MULTIACCUM, GRISM1024	G141	NSAMP=13; SAMP-SEQ=SPAR S100	POS TARG -0.608,0 .244		1202.936167 Secs (1202.936 Secs) [==>]	[1]
	3		(3) REFSDAL-GRISM	WFC3/IR, MULTIACCUM, GRISM1024	F125W	NSAMP=5; SAMP-SEQ=SPAR S50	POS TARG -0.608,0 .244		202.934095 Secs (202.934 Secs) [==>]	[1]



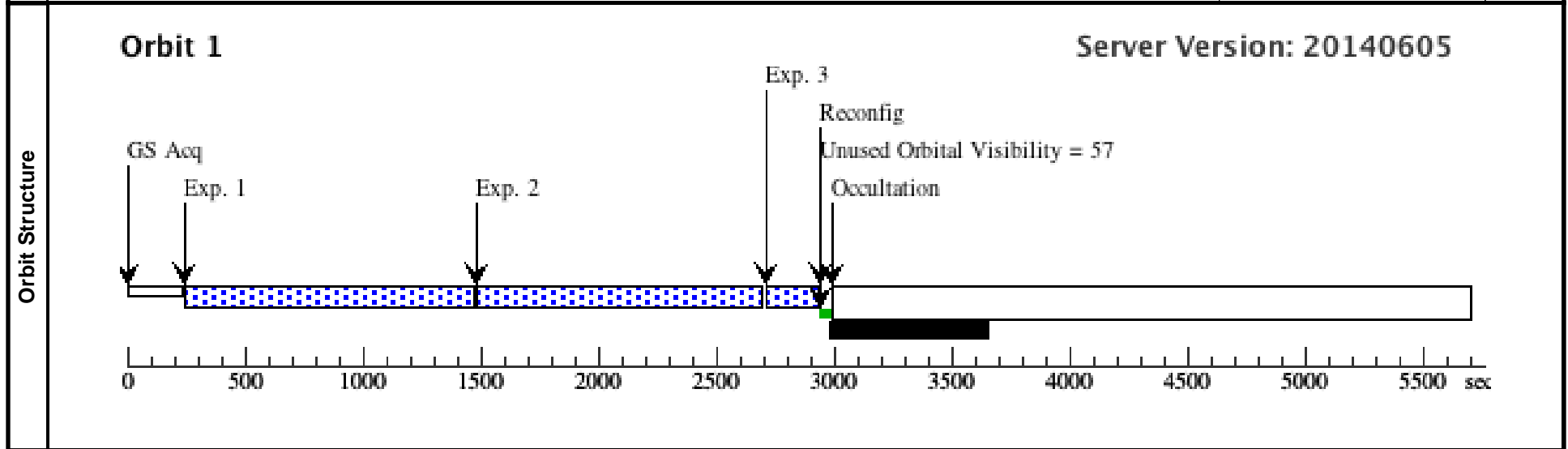
Proposal 14041 - 1orb: 1x f160w; 2x g141 (B5) - Classifying and Following a Strongly Lensed Likely Supernova with Multiple Images

Tue Jan 20 21:11:28 GMT 2015

Visit	Proposal 14041, 1orb: 1x f160w; 2x g141 (B5), completed				
	Diagnostic Status: No Diagnostics				
	Scientific Instruments: WFC3/IR				
	Special Requirements: SCHED 100%; SAME ORIENT AS B0				

Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(3)	REFSDAL-GRISM	RA: 11 49 36.1539 (177.4006412d)		V=20	Reference Frame: ICRS
		Alt Name1: MACS1149.6+2223	Dec: +22 24 12.95 (22.40360d)			
		Alt Name2: MACS1149	Equinox: J2000			

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(3) REFSDAL-GRISM	(3) REFSDAL-GRISM	WFC3/IR, MULTIACCUM, GRISM1024	G141	NSAMP=13; SAMP-SEQ=SPAR S100	POS TARG 0.273,0.302; GS ACQ SCENARI O ONEB1B3		1202.936167 Secs (1202.936 Secs) [==>]	[1]
	2	(3) REFSDAL-GRISM	(3) REFSDAL-GRISM	WFC3/IR, MULTIACCUM, GRISM1024	G141	NSAMP=13; SAMP-SEQ=SPAR S100	POS TARG 0.273,0.302		1202.936167 Secs (1202.936 Secs) [==>]	[1]
	3	(3) REFSDAL-GRISM	(3) REFSDAL-GRISM	WFC3/IR, MULTIACCUM, GRISM1024	F160W	NSAMP=5; SAMP-SEQ=SPAR S50	POS TARG 0.273,0.302		202.934095 Secs (202.934 Secs) [==>]	[1]

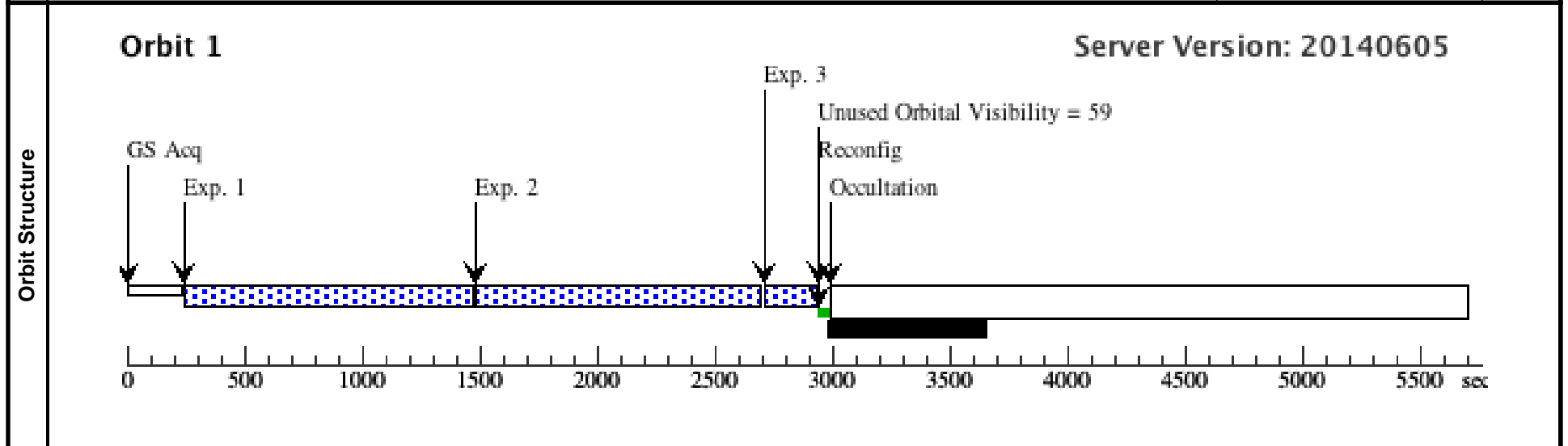


Proposal 14041 - 1orb: 1x f125w; 2x g141 (BF) - Classifying and Following a Strongly Lensed Likely Supernova with Multiple Images

Visit	Proposal 14041, 1orb: 1x f125w; 2x g141 (BF), completed				Tue Jan 20 21:11:28 GMT 2015
	Diagnostic Status: No Diagnostics				
	Scientific Instruments: WFC3/IR				
	Special Requirements: SCHED 100%; SAME ORIENT AS B0				

Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(3)	REFSDAL-GRISM	RA: 11 49 36.1539 (177.4006412d)		V=20	Reference Frame: ICRS
		Alt Name1: MACS1149.6+2223	Dec: +22 24 12.95 (22.40360d)			
		Alt Name2: MACS1149	Equinox: J2000			

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(3) REFSDAL-GRIS M	WFC3/IR, MULTIACCUM, GRISM1024	G141	NSAMP=13; SAMP-SEQ=SPAR S100	POS TARG 0.0,0.0; GS ACQ SCENARI O ONEB1B3		1202.936167 Secs (1202.936 Secs) [==>]	[1]
	2		(3) REFSDAL-GRIS M	WFC3/IR, MULTIACCUM, GRISM1024	G141	NSAMP=13; SAMP-SEQ=SPAR S100	POS TARG 0.0,0.0		1202.936167 Secs (1202.936 Secs) [==>]	[1]
	3		(3) REFSDAL-GRIS M	WFC3/IR, MULTIACCUM, GRISM1024	F125W	NSAMP=5; SAMP-SEQ=SPAR S50	POS TARG 0.0,0.0		202.934095 Secs (202.934 Secs) [==>]	[1]



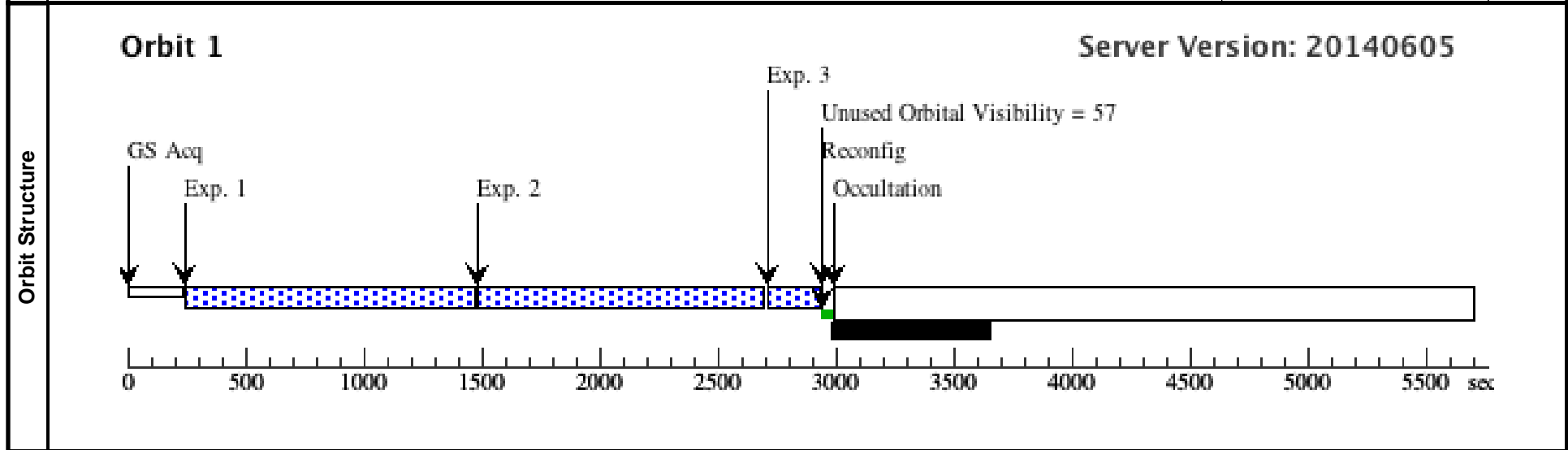
Proposal 14041 - 1orb: 1x f160w; 2x g141 (B6) - Classifying and Following a Strongly Lensed Likely Supernova with Multiple Images

Tue Jan 20 21:11:29 GMT 2015

Visit	Proposal 14041, 1orb: 1x f160w; 2x g141 (B6), completed				
	Diagnostic Status: No Diagnostics				
	Scientific Instruments: WFC3/IR				
	Special Requirements: SCHED 100%; SAME ORIENT AS B0				

Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(3)	REFSDAL-GRISM	RA: 11 49 36.1539 (177.4006412d)		V=20	Reference Frame: ICRS
		Alt Name1: MACS1149.6+2223	Dec: +22 24 12.95 (22.40360d)			
		Alt Name2: MACS1149	Equinox: J2000			

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(3) REFSDAL-GRISM	REFSDAL-GRISM	WFC3/IR, MULTIACCUM, GRISM1024	G141	NSAMP=13; SAMP-SEQ=SPAR S100	POS TARG 0.540,-0.243; GS ACQ SCENARI ONEB1B3		1202.936167 Secs (1202.936 Secs)	[1]
	2	(3) REFSDAL-GRISM	REFSDAL-GRISM	WFC3/IR, MULTIACCUM, GRISM1024	G141	NSAMP=13; SAMP-SEQ=SPAR S100	POS TARG 0.540,-0.243		1202.936167 Secs (1202.936 Secs)	[1]
	3	(3) REFSDAL-GRISM	REFSDAL-GRISM	WFC3/IR, MULTIACCUM, GRISM1024	F160W	NSAMP=5; SAMP-SEQ=SPAR S50	POS TARG 0.540,-0.243		202.934095 Secs (202.934 Secs)	[1]



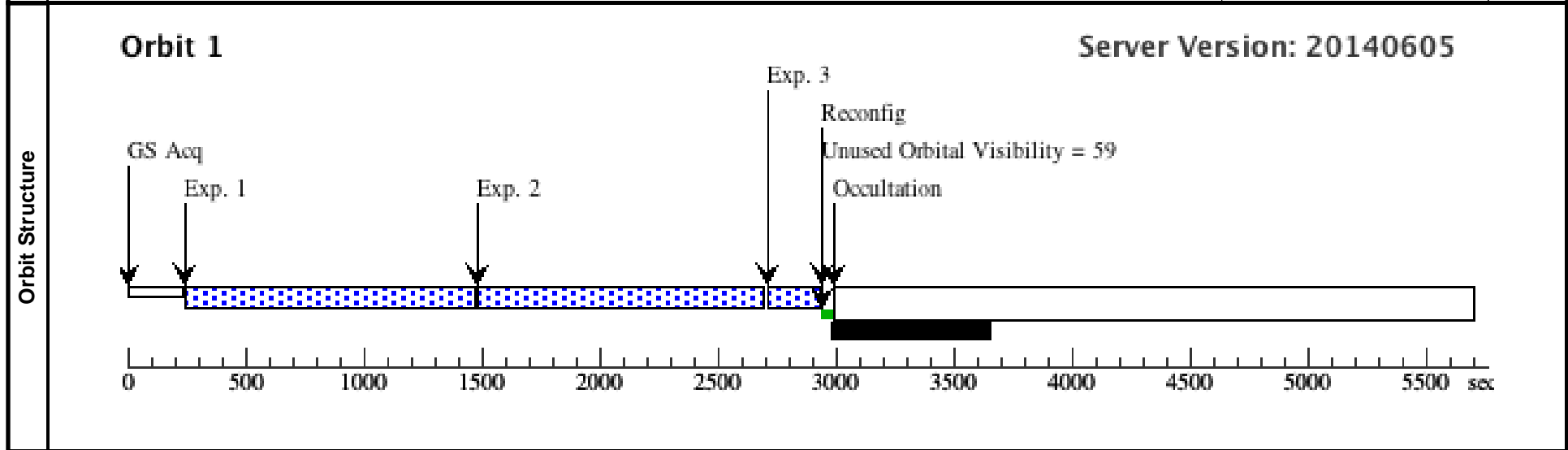
Proposal 14041 - 1orb: 1x f125w; 2x g141 (BG) - Classifying and Following a Strongly Lensed Likely Supernova with Multiple Images

Tue Jan 20 21:11:29 GMT 2015

Visit	Proposal 14041, 1orb: 1x f125w; 2x g141 (BG), completed				
	Diagnostic Status: No Diagnostics				
	Scientific Instruments: WFC3/IR				
	Special Requirements: SCHED 100%; SAME ORIENT AS B0				

Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(3)	REFSDAL-GRISM	RA: 11 49 36.1539 (177.4006412d)		V=20	Reference Frame: ICRS
		Alt Name1: MACS1149.6+2223	Dec: +22 24 12.95 (22.40360d)			
		Alt Name2: MACS1149	Equinox: J2000			

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(3) REFSDAL-GRIS M	WFC3/IR, MULTIACCUM, GRISM1024	G141	NSAMP=13; SAMP-SEQ=SPAR S100	POS TARG -0.340,- 0.301; GS ACQ SCENARI O ONEB1B3		1202.936167 Secs (1202.936 Secs) [==>]	[1]
	2		(3) REFSDAL-GRIS M	WFC3/IR, MULTIACCUM, GRISM1024	G141	NSAMP=13; SAMP-SEQ=SPAR S100	POS TARG -0.340,- 0.301		1202.936167 Secs (1202.936 Secs) [==>]	[1]
	3		(3) REFSDAL-GRIS M	WFC3/IR, MULTIACCUM, GRISM1024	F125W	NSAMP=5; SAMP-SEQ=SPAR S50	POS TARG -0.340,- 0.301		202.934095 Secs (202.934 Secs) [==>]	[1]



Proposal 14041 - 1orb: 1x f160w; 2x g141 (B7) - Classifying and Following a Strongly Lensed Likely Supernova with Multiple Images

Tue Jan 20 21:11:29 GMT 2015

Visit	Proposal 14041, 1orb: 1x f160w; 2x g141 (B7), completed				
	Diagnostic Status: No Diagnostics				
	Scientific Instruments: WFC3/IR				
	Special Requirements: SCHED 100%; SAME ORIENT AS B0				

Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(3)	REFSDAL-GRISM	RA: 11 49 36.1539 (177.4006412d)		V=20	Reference Frame: ICRS
		Alt Name1: MACS1149.6+2223	Dec: +22 24 12.95 (22.40360d)			
		Alt Name2: MACS1149	Equinox: J2000			

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(3) REFSDAL-GRISM	REFSDAL-GRISM	WFC3/IR, MULTIACCUM, GRISM1024	G141	NSAMP=13; SAMP-SEQ=SPAR S100	POS TARG -0.608,0 .244; GS ACQ SCENARI O ONEB1B3		1202.936167 Secs (1202.936 Secs) [==>]	[1]
	2	(3) REFSDAL-GRISM	REFSDAL-GRISM	WFC3/IR, MULTIACCUM, GRISM1024	G141	NSAMP=13; SAMP-SEQ=SPAR S100	POS TARG -0.608,0 .244		1202.936167 Secs (1202.936 Secs) [==>]	[1]
	3	(3) REFSDAL-GRISM	REFSDAL-GRISM	WFC3/IR, MULTIACCUM, GRISM1024	F160W	NSAMP=5; SAMP-SEQ=SPAR S50	POS TARG -0.608,0 .244		202.934095 Secs (202.934 Secs) [==>]	[1]

