



17065 - Resolving a Massive Node of the Cosmic Web at $z=3$

Cycle: 30, Proposal Category: GO

(Availability Mode: SUPPORTED)

INVESTIGATORS

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Dr. Antonio Pensabene (CoI) (ESA Member)	University of Milano-Bicocca
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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) MQN01	ACS/WFC	2	27-Apr-2023 14:00:17.0	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>
Z1	(1) MQN01	ACS/WFC	2	27-Apr-2023 14:00:18.0	yes
02	(1) MQN01	ACS/WFC	2	27-Apr-2023 14:00:19.0	yes
Z2	(1) MQN01	ACS/WFC	1	27-Apr-2023 14:00:19.0	yes
03	(1) MQN01	ACS/WFC	2	27-Apr-2023 14:00:20.0	yes
04	(1) MQN01	ACS/WFC	2	27-Apr-2023 14:00:20.0	yes
05	(1) MQN01	ACS/WFC	2	27-Apr-2023 14:00:21.0	yes
06	(1) MQN01	ACS/WFC	2	27-Apr-2023 14:00:21.0	yes
07	(1) MQN01	ACS/WFC	2	27-Apr-2023 14:00:22.0	yes
08	(1) MQN01	ACS/WFC	2	27-Apr-2023 14:00:23.0	yes
09	(1) MQN01	ACS/WFC	2	27-Apr-2023 14:00:23.0	yes
10	(1) MQN01	ACS/WFC	2	27-Apr-2023 14:00:24.0	yes
11	(1) MQN01	ACS/WFC	2	27-Apr-2023 14:00:24.0	yes

25 Total Orbits Used

ABSTRACT

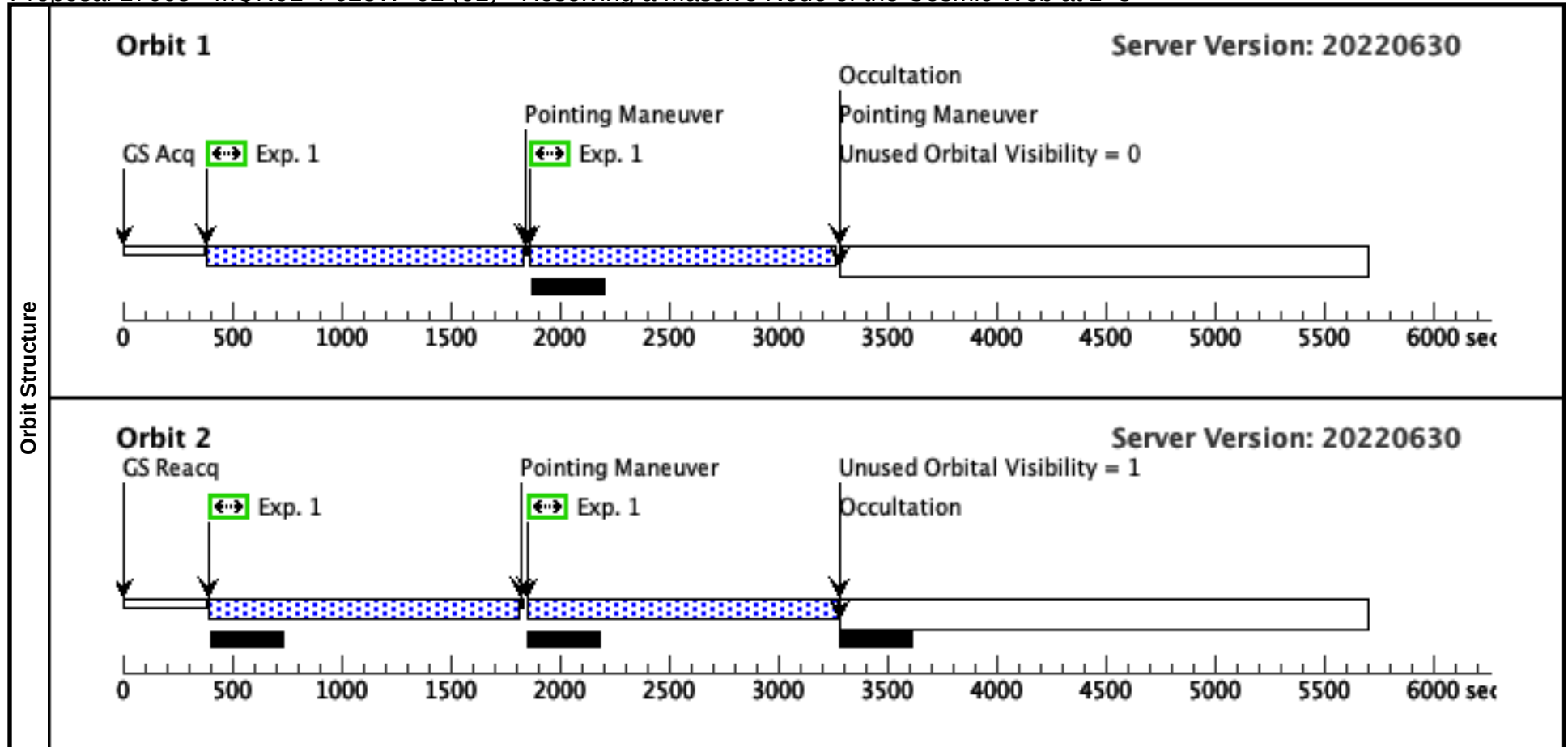
How do galaxies get their gas? What is the morphology and kinematics of the accreting gas and how does this affect galaxy evolution? A recent MUSE observation targeting a quasar at $z=3$ has finally provided the way to directly address these questions through one of the first images of contiguous Cosmic Web filaments on scales of several comoving Mpc. The filaments converge into a node associated with a large concentration of galaxies: two of these - separated only by 2" - have AGN-like spectra making them one of the few known close-binary AGN at high- z and the only triplet, including the quasar, which is 10" away. Because of the seeing-limited nature of the MUSE observations, the majority of the galaxies associated to the filaments and the AGN hosts are unresolved. To overcome this limitation we propose ACS imaging in two filters sampling the galaxy rest-frame UV continuum emission in order to: i) reveal the relation between the gaseous filaments properties (such as gas densities and kinematics) and the morphological properties (such as size, clumpiness and structural parameters) of the associated galaxy star forming regions in order to study how galaxies form their stars, ii) detect the diffuse UV light associated with galaxy interactions and intergalactic star formation in order to constrain the role of environment in the formation of the stellar and AGN components of the progenitor of today's massive galaxies. The proposed ACS imaging will be the perfect complement to the multi-wavelength, ongoing deep observations with JWST, ALMA and Chandra on this field providing a new window on the study of early galaxy and structure formation in a massive node of the Cosmic Web.

OBSERVING DESCRIPTION

In order to reach the scientific goals of the proposal, two broad-band filters are used (F625W and F814W) sampling the rest-frame UV emission of galaxies at the redshift of the MQN01 structure ($z=3.2$) found through a MUSE mosaic of $2' \times 2'$. Current area of interest is fully covered by one ACS/WFC pointing irrespective of the orientation. For each filter, observations are split in visits of 2 orbits each in order to maximize schedulability. Each orbit contains two equal exposures of about 1200s each minimizing CTE losses. The large number of exposures (20 exposures for F625W and 24 exposures for F814W) and a dithering pattern will be used to reject both CR and hot pixels. The dithering pattern consists of 4 shifts of about $3''$ in the Y direction in order to cover the chip gap plus smaller shifts obtained changing the POS TARG field. The most interesting region is an area of radius $\sim 10''$ centered on the quasar CTS G18.1 (main target). By placing the main target in the "WFC" aperture position, such area is always contained in a single chip and not affected by the chip gap irrespective of orientation. No constraints have been put between orientations used in the two filters although it would be of course beneficial if the same range of orientation is used for both filters to increase the sky area overlap.

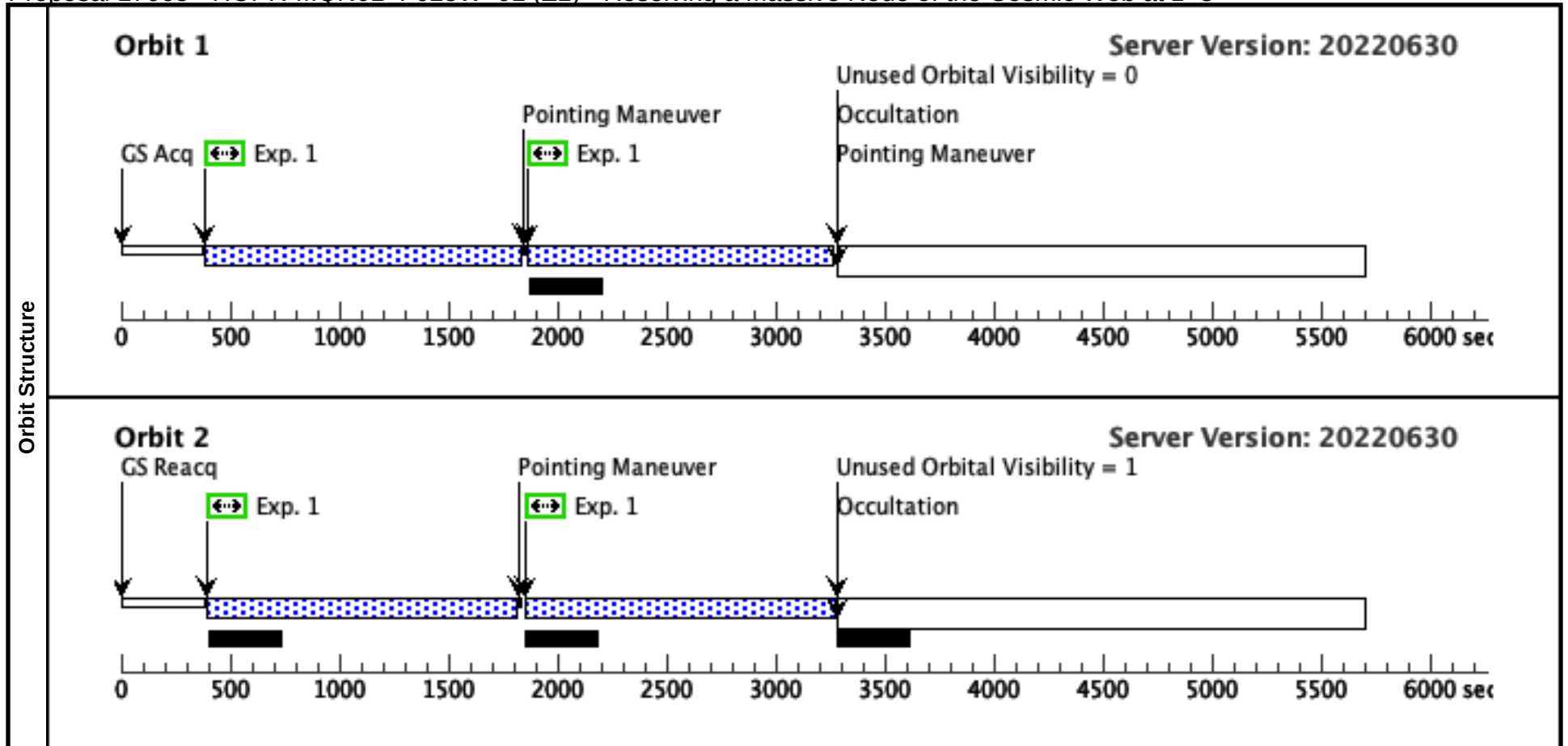
Proposal 17065 - MQN01_F625W_01 (01) - Resolving a Massive Node of the Cosmic Web at z=3

Visit	Proposal 17065, MQN01_F625W_01 (01), failed										Thu Apr 27 18:00:25 GMT 2023	
	Diagnostic Status: No Diagnostics											
	Scientific Instruments: ACS/WFC											
	Special Requirements: (none)											
Patterns	#	Primary Pattern				Secondary Pattern				Exposures		
	(1)	Pattern Type=ACS-WFC-DITHER-LINE Purpose=DITHER Number Of Points=4 Point Spacing=3.034 Line Spacing=		Coordinate Frame=POS-TARG Pattern Orientation=85.29 Angle Between Sides= Center Pattern=false						(1)		
Fixed Targets	#	Name	Target Coordinates		Targ. Coord. Corrections		Fluxes		Miscellaneous			
	(1)	MQN01	RA: 00 41 31.4401 (10.3810004d)				V=17		Reference Frame: ICRS			
		Alt Name1: CTSG18.1	Dec: -49 36 11.69 (-49.60325d)									
		Alt Name2: CTQ0408	Equinox: J2000									
	Comments: Category=GALAXY Description=[EMISSION LINE NEBULA, LYMAN ALPHA CLOUD, QUASAR]											
Exposures	#	Label	Target	Config,Mode,Aperture		Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]		Orbit
	1		(1) MQN01	ACS/WFC, ACCUM, WFC		F625W		POS TARG 0,0	Pattern 1, Exps 1-1 in MQN01_F625W_01 (01) (1)	1200 Secs (5112 Secs)		
										[==>1242.0 Secs (Pattern 1)]		[1]
										[==>1278.0 Secs (Pattern 2)]		
										[==>1296.0 Secs (Pattern 3)]		[2]
									[==>1296.0 Secs (Pattern 4)]			



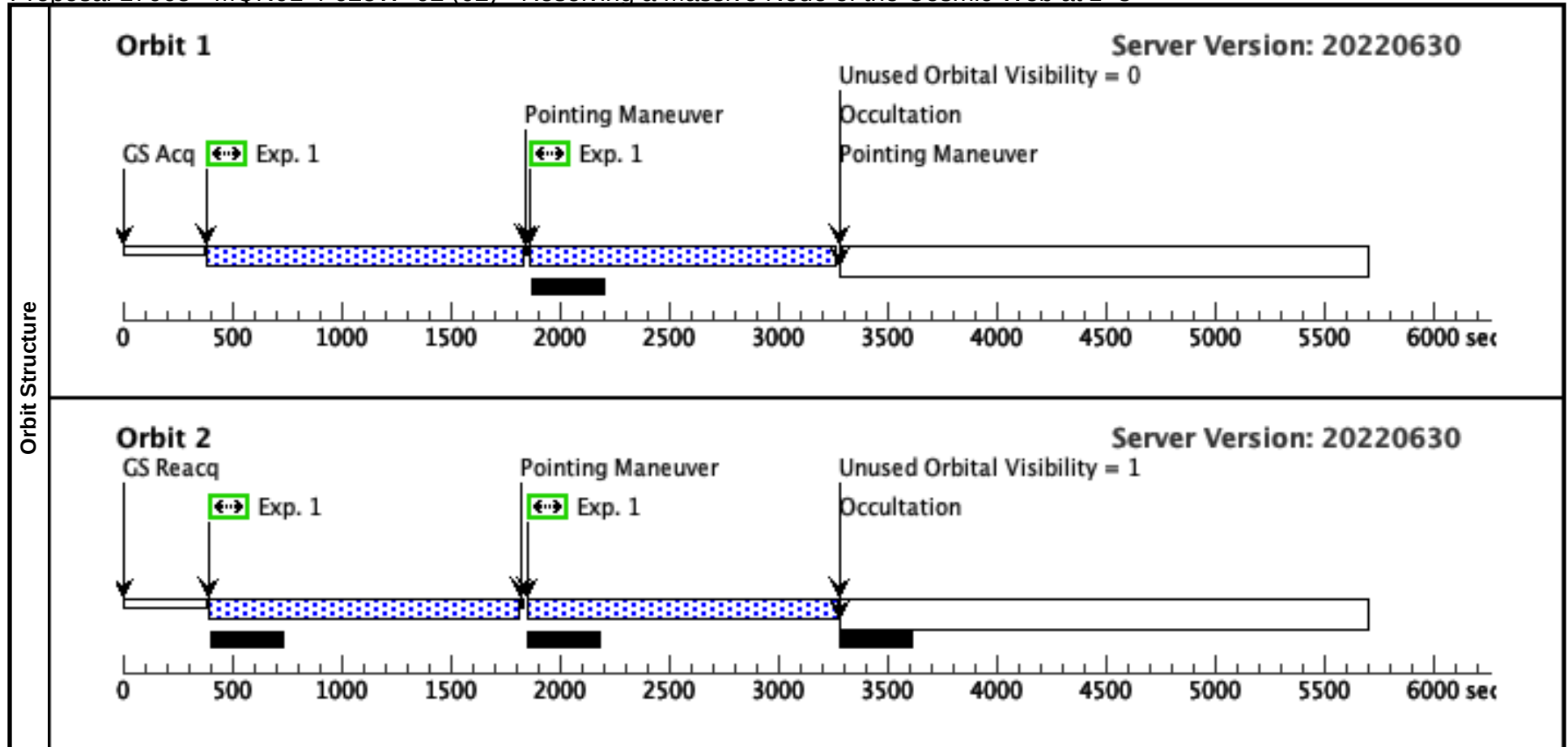
Proposal 17065 - HOPR-MQN01_F625W_01 (Z1) - Resolving a Massive Node of the Cosmic Web at z=3

Visit	Proposal 17065, HOPR-MQN01_F625W_01 (Z1), scheduling										Thu Apr 27 18:00:25 GMT 2023		
	Diagnostic Status: No Diagnostics												
	Scientific Instruments: ACS/WFC												
	Special Requirements: (none)												
	Comments: HOPR repeat of failed 01												
Patterns	#	Primary Pattern					Secondary Pattern					Exposures	
	(1)	Pattern Type=ACS-WFC-DITHER-LINE Purpose=DITHER Number Of Points=4 Point Spacing=3.034 Line Spacing=			Coordinate Frame=POS-TARG Pattern Orientation=85.29 Angle Between Sides= Center Pattern=false							(1)	
Fixed Targets	#	Name		Target Coordinates		Targ. Coord. Corrections		Fluxes		Miscellaneous			
	(1)	MQN01		RA: 00 41 31.4401 (10.3810004d)				V=17		Reference Frame: ICRS			
		Alt Name1: CTSG18.1		Dec: -49 36 11.69 (-49.60325d)									
		Alt Name2: CTQ0408		Equinox: J2000									
	Comments: Category=GALAXY Description=[EMISSION LINE NEBULA, LYMAN ALPHA CLOUD, QUASAR]												
Exposures	#	Label	Target	Config,Mode,Aperture		Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]		Orbit	
	1		(1) MQN01	ACS/WFC, ACCUM, WFC		F625W		POS TARG 0,0	Pattern 1, Exps 1-1 in HOPR-MQN01_F625W_01 (Z1) (1)	1200 Secs (5112 Secs)			
										[==>1242.0 Secs (Pattern 1)]		[1]	
										[==>1278.0 Secs (Pattern 2)]			
										[==>1296.0 Secs (Pattern 3)]			
										[==>1296.0 Secs (Pattern 4)]		[2]	



Proposal 17065 - MQN01_F625W_02 (02) - Resolving a Massive Node of the Cosmic Web at z=3

Visit	Proposal 17065, MQN01_F625W_02 (02), failed										Thu Apr 27 18:00:25 GMT 2023	
	Diagnostic Status: No Diagnostics											
	Scientific Instruments: ACS/WFC											
	Special Requirements: (none)											
Patterns	#	Primary Pattern				Secondary Pattern				Exposures		
	(1)	Pattern Type=ACS-WFC-DITHER-LINE Purpose=DITHER Number Of Points=4 Point Spacing=3.034 Line Spacing=		Coordinate Frame=POS-TARG Pattern Orientation=85.29 Angle Between Sides= Center Pattern=false						(1)		
Fixed Targets	#	Name	Target Coordinates		Targ. Coord. Corrections		Fluxes		Miscellaneous			
	(1)	MQN01	RA: 00 41 31.4401 (10.3810004d)				V=17		Reference Frame: ICRS			
		Alt Name1: CTSG18.1	Dec: -49 36 11.69 (-49.60325d)									
		Alt Name2: CTQ0408	Equinox: J2000									
	Comments: Category=GALAXY Description=[EMISSION LINE NEBULA, LYMAN ALPHA CLOUD, QUASAR]											
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]		Orbit	
	1		(1) MQN01	ACS/WFC, ACCUM, WFC	F625W		POS TARG -0.25,0.25	Pattern 1, Exps 1-1 in MQN01_F625W_02 (02) (1)	1200 Secs (5112 Secs)			
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									[==>1278.0 Secs (Pattern 2)]			
										[==>1296.0 Secs (Pattern 3)]		[2]
									[==>1296.0 Secs (Pattern 4)]			

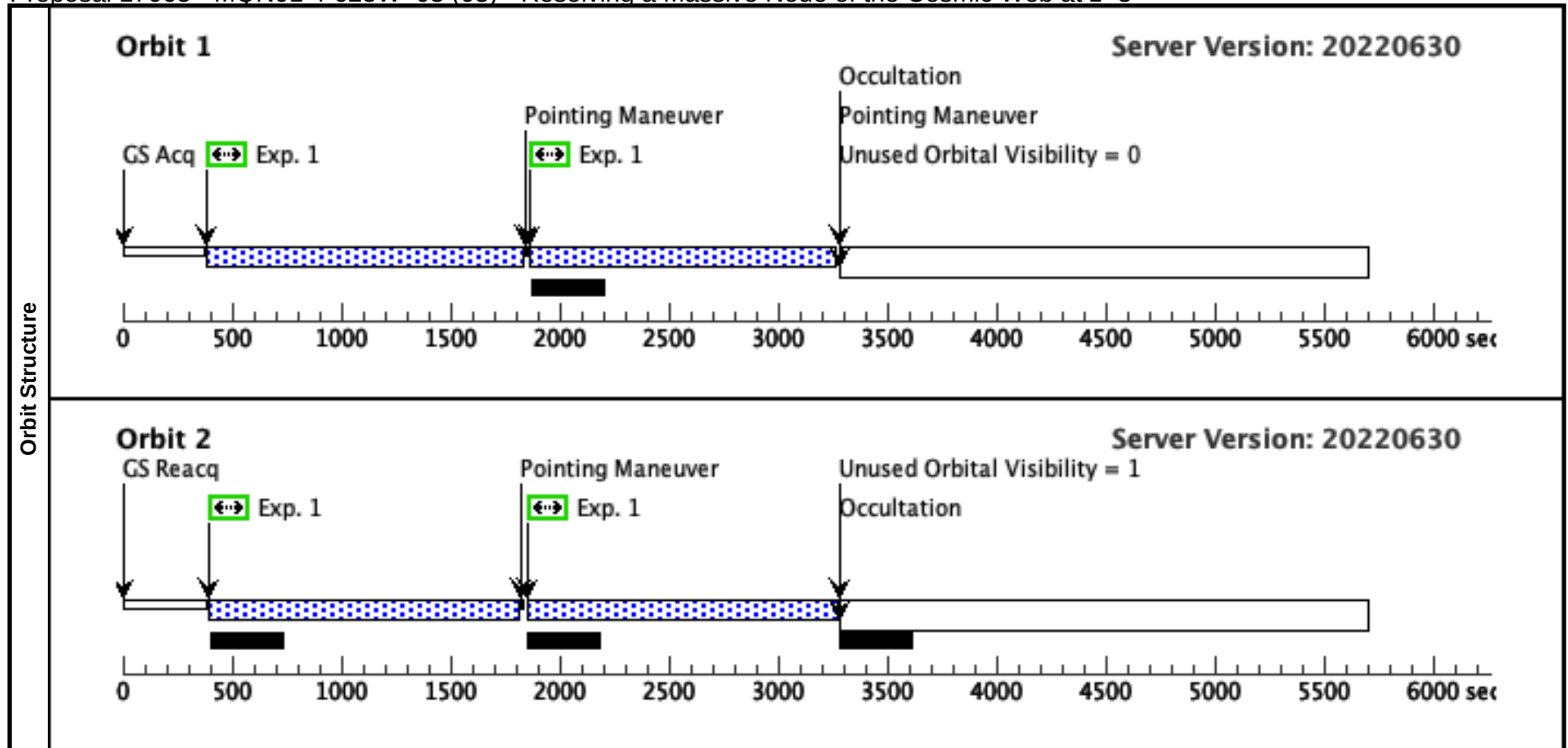


Proposal 17065 - HOPR-MQN01_F625W_02 (Z2) - Resolving a Massive Node of the Cosmic Web at z=3

Visit	Proposal 17065, HOPR-MQN01_F625W_02 (Z2), implementation										Thu Apr 27 18:00:25 GMT 2023	
	Diagnostic Status: No Diagnostics											
	Scientific Instruments: ACS/WFC											
	Special Requirements: (none)											
Patterns	#	Primary Pattern				Secondary Pattern				Exposures		
	(2)	Pattern Type=ACS-WFC-DITHER-LINE Coordinate Frame=POS-TARG Pattern Orientation=85.29 Purpose=DITHER Angle Between Sides= Number Of Points=2 Center Pattern=false Point Spacing=3.034 Line Spacing=								(1)		
Fixed Targets	#	Name	Target Coordinates		Targ. Coord. Corrections		Fluxes		Miscellaneous			
	(1)	MQN01	RA: 00 41 31.4401 (10.3810004d)				V=17		Reference Frame: ICRS			
		Alt Name1: CTSG18.1	Dec: -49 36 11.69 (-49.60325d)									
		Alt Name2: CTQ0408	Equinox: J2000									
	Comments: Category=GALAXY Description=[EMISSION LINE NEBULA, LYMAN ALPHA CLOUD, QUASAR]											
Exposures	#	Label	Target	Config,Mode,Aperture		Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]		Orbit
	1		(1) MQN01	ACS/WFC, ACCUM, WFC		F625W		POS TARG -0.25,0.25	Pattern 2, Exps 1-1 in HOPR-MQN01_F625W_02 (Z2) (2)	1200 Secs (2520 Secs)		
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Orbit Structure	Orbit 1 Server Version: 20220630 GS Acq Exp. 1 Pointing Maneuver Exp. 1 Occultation Unused Orbital Visibility = 0 050010001500200025003000350040004500500055006000 sec											

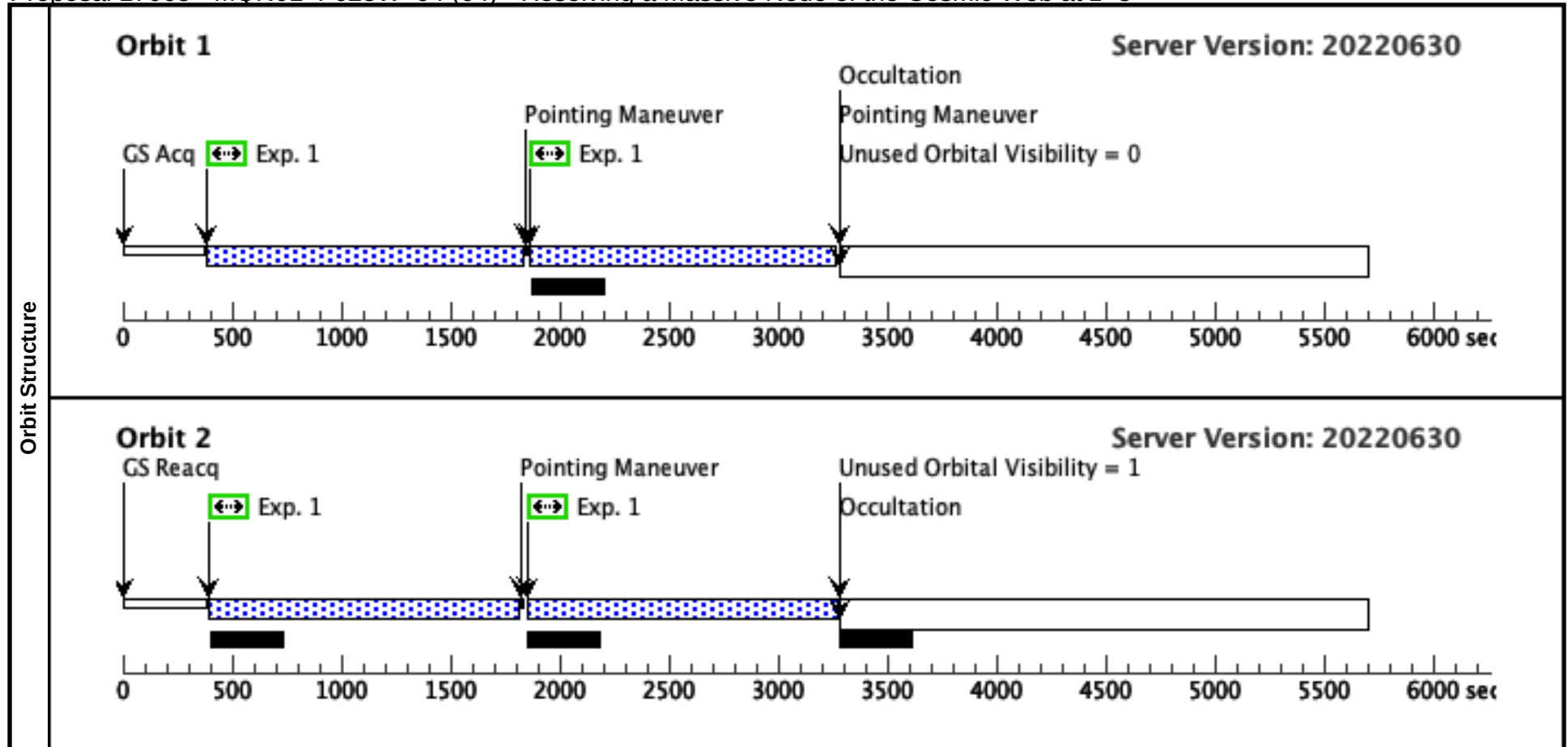
Proposal 17065 - MQN01_F625W_03 (03) - Resolving a Massive Node of the Cosmic Web at z=3

Visit	Proposal 17065, MQN01_F625W_03 (03), completed										Thu Apr 27 18:00:25 GMT 2023
	Diagnostic Status: No Diagnostics										
	Scientific Instruments: ACS/WFC										
	Special Requirements: (none)										
Patterns	#	Primary Pattern				Secondary Pattern				Exposures	
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Fixed Targets	#	Name	Target Coordinates		Targ. Coord. Corrections		Fluxes		Miscellaneous		
	(1)	MQN01	RA: 00 41 31.4401 (10.3810004d)				V=17		Reference Frame: ICRS		
		Alt Name1: CTSG18.1	Dec: -49 36 11.69 (-49.60325d)								
		Alt Name2: CTQ0408	Equinox: J2000								
	Comments: Category=GALAXY Description=[EMISSION LINE NEBULA, LYMAN ALPHA CLOUD, QUASAR]										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]		Orbit
	1		(1) MQN01	ACS/WFC, ACCUM, WFC	F625W		POS TARG 0.25,0.5	Pattern 1, Exps 1-1 in MQN01_F625W_03 (03) (1)	1200 Secs (5112 Secs)		
									[==>1242.0 Secs (Pattern 1)]		[1]
									[==>1278.0 Secs (Pattern 2)]		
									[==>1296.0 Secs (Pattern 3)]		[2]
									[==>1296.0 Secs (Pattern 4)]		



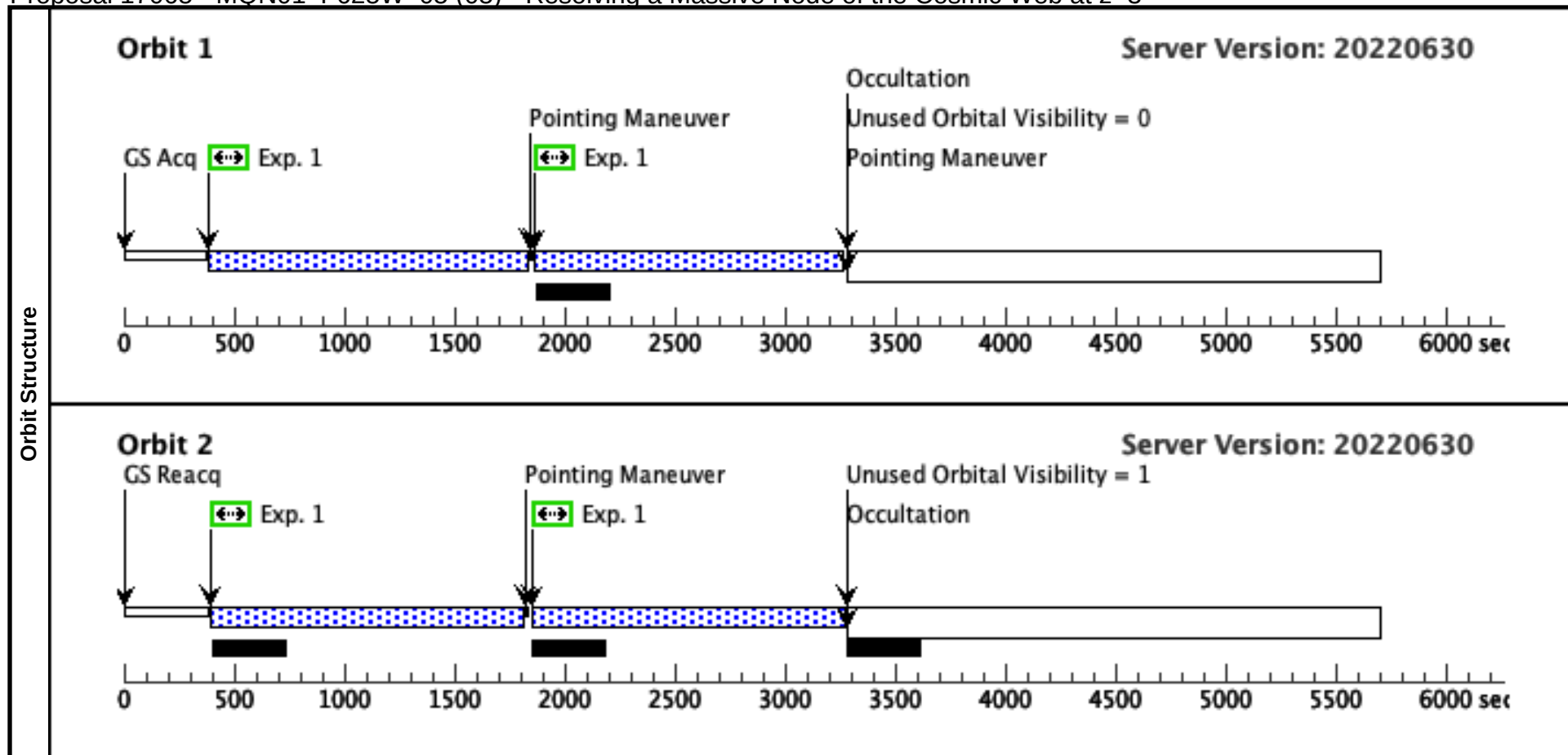
Proposal 17065 - MQN01_F625W_04 (04) - Resolving a Massive Node of the Cosmic Web at z=3

Visit	Proposal 17065, MQN01_F625W_04 (04), completed										Thu Apr 27 18:00:25 GMT 2023		
	Diagnostic Status: No Diagnostics												
	Scientific Instruments: ACS/WFC												
	Special Requirements: (none)												
Patterns	#	Primary Pattern					Secondary Pattern					Exposures	
	(1)	Pattern Type=ACS-WFC-DITHER-LINE Purpose=DITHER Number Of Points=4 Point Spacing=3.034 Line Spacing=			Coordinate Frame=POS-TARG Pattern Orientation=85.29 Angle Between Sides= Center Pattern=false							(1)	
Fixed Targets	#	Name		Target Coordinates		Targ. Coord. Corrections		Fluxes		Miscellaneous			
	(1)	MQN01		RA: 00 41 31.4401 (10.3810004d)				V=17		Reference Frame: ICRS			
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		Alt Name2: CTQ0408		Equinox: J2000									
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Exposures	#	Label	Target	Config,Mode,Aperture		Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]		Orbit	
	1		(1) MQN01	ACS/WFC, ACCUM, WFC		F625W		POS TARG -0.125,0.75	Pattern 1, Exps 1-1 in MQN01_F625W_04 (04) (1)	1200 Secs (5112 Secs)			
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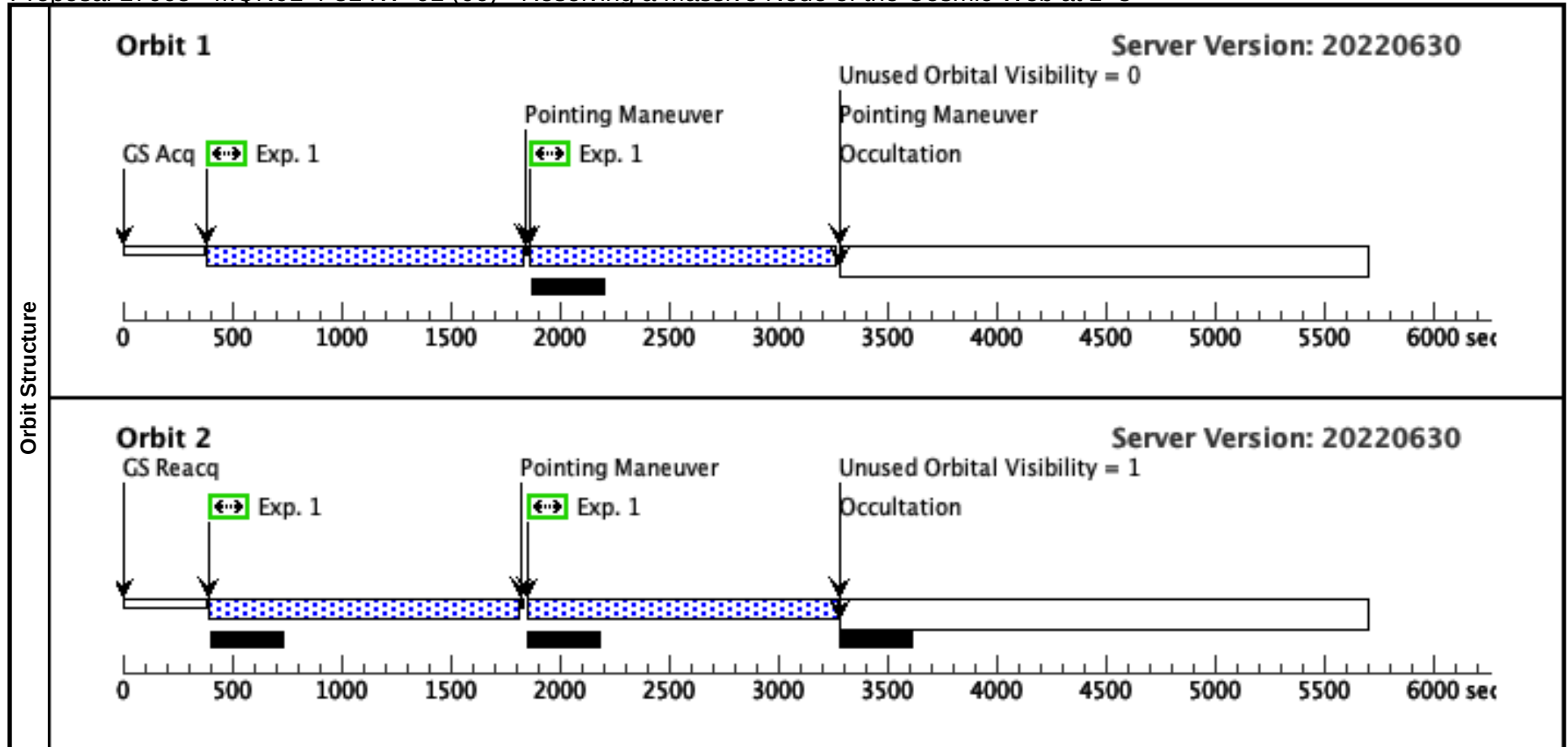
Proposal 17065 - MQN01_F625W_05 (05) - Resolving a Massive Node of the Cosmic Web at z=3

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	Scientific Instruments: ACS/WFC											
	Special Requirements: (none)											
Patterns	#	Primary Pattern				Secondary Pattern				Exposures		
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Fixed Targets	#	Name	Target Coordinates		Targ. Coord. Corrections		Fluxes		Miscellaneous			
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		Alt Name2: CTQ0408	Equinox: J2000									
	Comments: Category=GALAXY Description=[EMISSION LINE NEBULA, LYMAN ALPHA CLOUD, QUASAR]											
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]		Orbit	
	1		(1) MQN01	ACS/WFC, ACCUM, WFC	F625W		POS TARG 0.125,1.0	Pattern 1, Exps 1-1 in MQN01_F625W_05 (05) (1)	1200 Secs (5112 Secs)			
									[==>1242.0 Secs (Pattern 1)]		[1]	
									[==>1278.0 Secs (Pattern 2)]			
										[==>1296.0 Secs (Pattern 3)]		[2]
									[==>1296.0 Secs (Pattern 4)]			



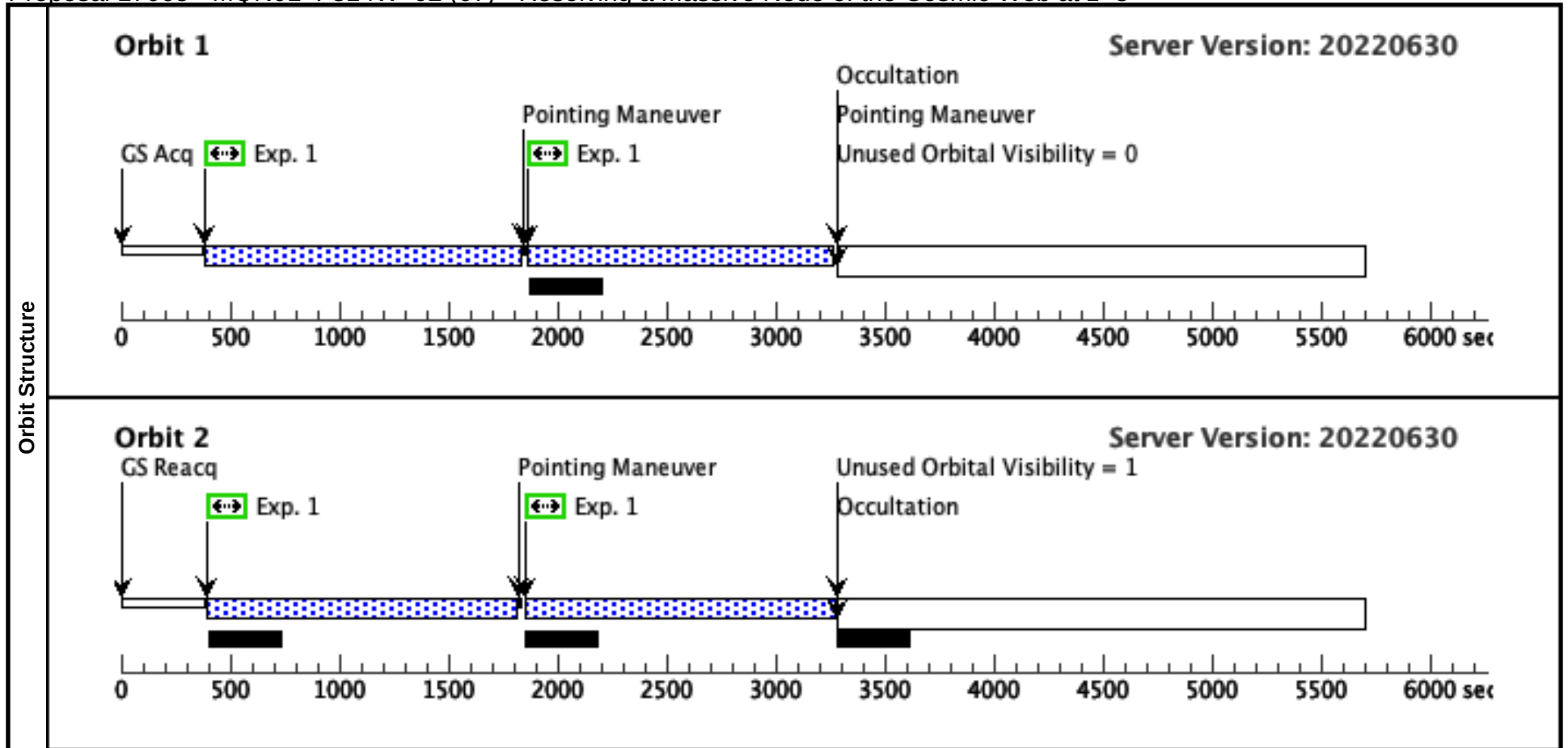
Proposal 17065 - MQN01_F814W_01 (06) - Resolving a Massive Node of the Cosmic Web at z=3

Visit	Proposal 17065, MQN01_F814W_01 (06), completed										Thu Apr 27 18:00:25 GMT 2023	
	Diagnostic Status: No Diagnostics											
	Scientific Instruments: ACS/WFC											
	Special Requirements: (none)											
Patterns	#	Primary Pattern				Secondary Pattern				Exposures		
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Fixed Targets	#	Name	Target Coordinates		Targ. Coord. Corrections		Fluxes		Miscellaneous			
	(1)	MQN01	RA: 00 41 31.4401 (10.3810004d)				V=17		Reference Frame: ICRS			
		Alt Name1: CTSG18.1	Dec: -49 36 11.69 (-49.60325d)									
		Alt Name2: CTQ0408	Equinox: J2000									
	Comments: Category=GALAXY Description=[EMISSION LINE NEBULA, LYMAN ALPHA CLOUD, QUASAR]											
Exposures	#	Label	Target	Config,Mode,Aperture		Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]		Orbit
	1		(1) MQN01	ACS/WFC, ACCUM, WFC		F814W		POS TARG 0,0	Pattern 1, Exps 1-1 in MQN01_F814W_01 (06) (1)	1200 Secs (5112 Secs)		
										[==>1242.0 Secs (Pattern 1)]		[1]
										[==>1278.0 Secs (Pattern 2)]		
										[==>1296.0 Secs (Pattern 3)]		
										[==>1296.0 Secs (Pattern 4)]		[2]



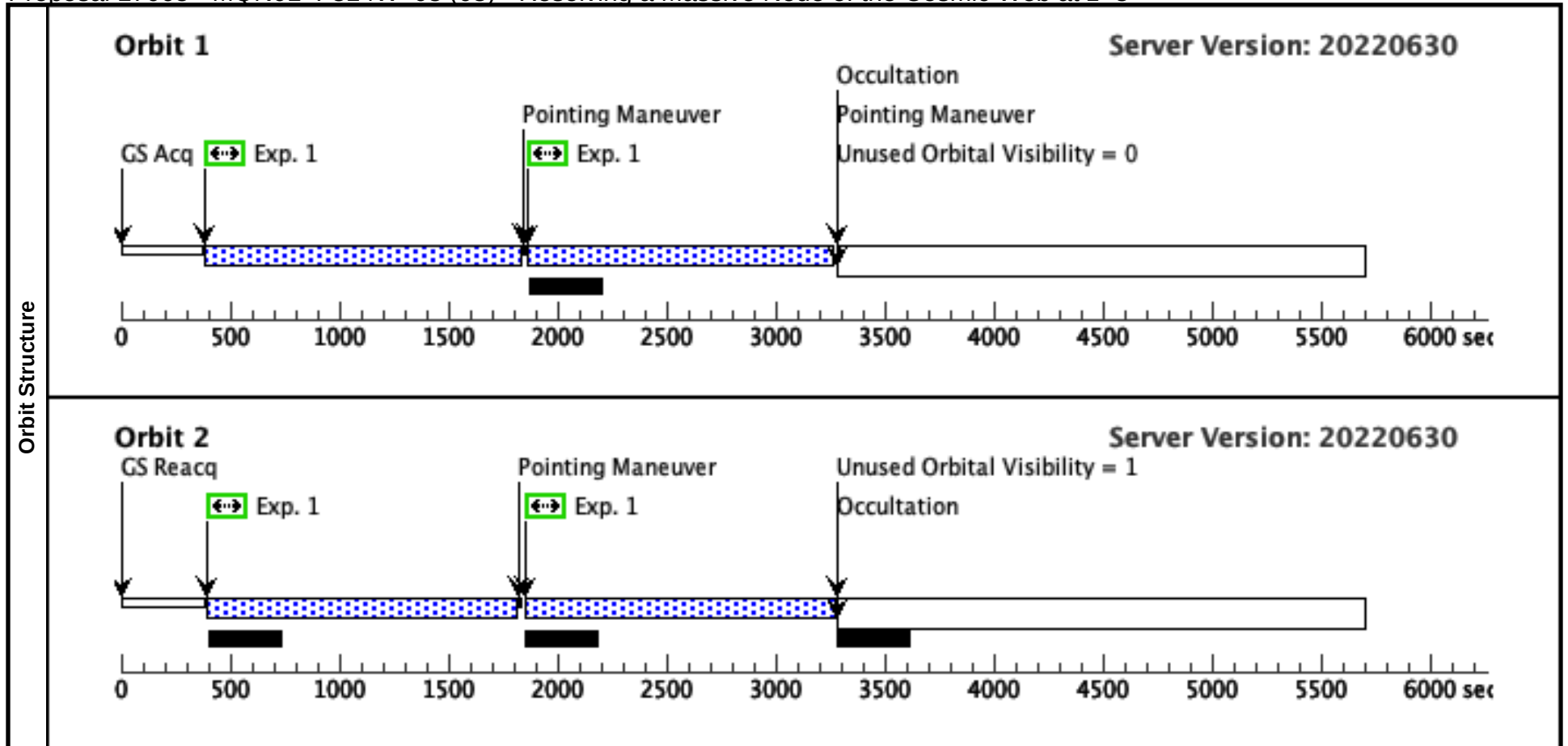
Proposal 17065 - MQN01_F814W_02 (07) - Resolving a Massive Node of the Cosmic Web at z=3

Visit	Proposal 17065, MQN01_F814W_02 (07), completed										Thu Apr 27 18:00:25 GMT 2023		
	Diagnostic Status: No Diagnostics												
	Scientific Instruments: ACS/WFC												
	Special Requirements: (none)												
Patterns	#	Primary Pattern					Secondary Pattern					Exposures	
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Fixed Targets	#	Name		Target Coordinates		Targ. Coord. Corrections		Fluxes		Miscellaneous			
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		Alt Name1: CTSG18.1		Dec: -49 36 11.69 (-49.60325d)									
		Alt Name2: CTQ0408		Equinox: J2000									
	Comments: Category=GALAXY Description=[EMISSION LINE NEBULA, LYMAN ALPHA CLOUD, QUASAR]												
Exposures	#	Label	Target	Config,Mode,Aperture		Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]		Orbit	
	1		(1) MQN01	ACS/WFC, ACCUM, WFC		F814W		POS TARG -0.25,0.25	Pattern 1, Exps 1-1 in MQN01_F814W_02 (07) (1)	1200 Secs (5112 Secs)			
										[==>1242.0 Secs (Pattern 1)]		[1]	
										[==>1278.0 Secs (Pattern 2)]			
											[==>1296.0 Secs (Pattern 3)]		[2]
										[==>1296.0 Secs (Pattern 4)]			



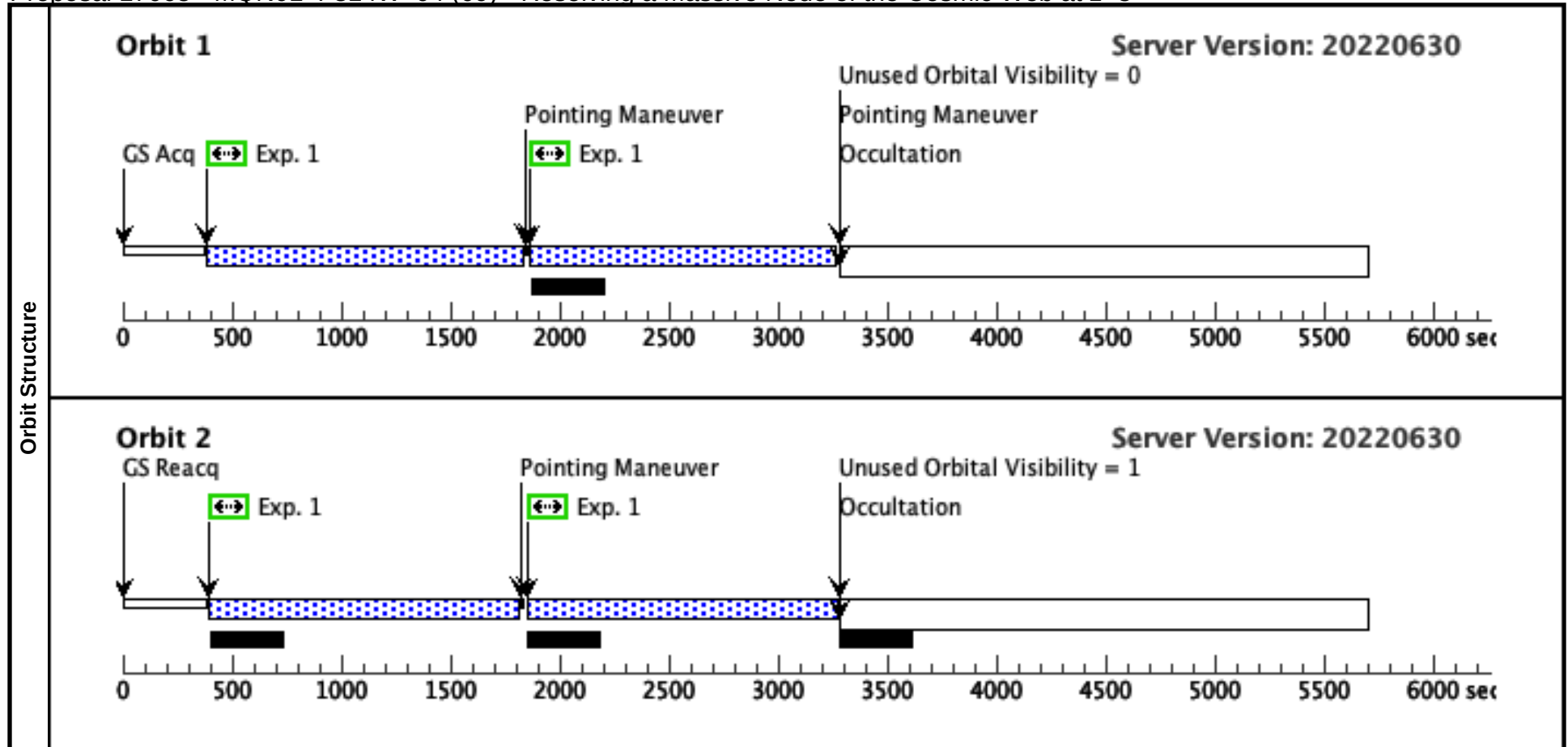
Proposal 17065 - MQN01_F814W_03 (08) - Resolving a Massive Node of the Cosmic Web at z=3

Visit	Proposal 17065, MQN01_F814W_03 (08), completed										Thu Apr 27 18:00:25 GMT 2023	
	Diagnostic Status: No Diagnostics											
	Scientific Instruments: ACS/WFC											
	Special Requirements: (none)											
Patterns	#	Primary Pattern				Secondary Pattern				Exposures		
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Fixed Targets	#	Name	Target Coordinates		Targ. Coord. Corrections		Fluxes		Miscellaneous			
	(1)	MQN01	RA: 00 41 31.4401 (10.3810004d)				V=17		Reference Frame: ICRS			
		Alt Name1: CTSG18.1	Dec: -49 36 11.69 (-49.60325d)									
		Alt Name2: CTQ0408	Equinox: J2000									
	Comments: Category=GALAXY Description=[EMISSION LINE NEBULA, LYMAN ALPHA CLOUD, QUASAR]											
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]		Orbit	
	1		(1) MQN01	ACS/WFC, ACCUM, WFC	F814W		POS TARG 0.25,0.5	Pattern 1, Exps 1-1 in MQN01_F814W_03 (08) (1)	1200 Secs (5112 Secs)			
									[==>1242.0 Secs (Pattern 1)]		[1]	
									[==>1278.0 Secs (Pattern 2)]			
									[==>1296.0 Secs (Pattern 3)]		[2]	
									[==>1296.0 Secs (Pattern 4)]			



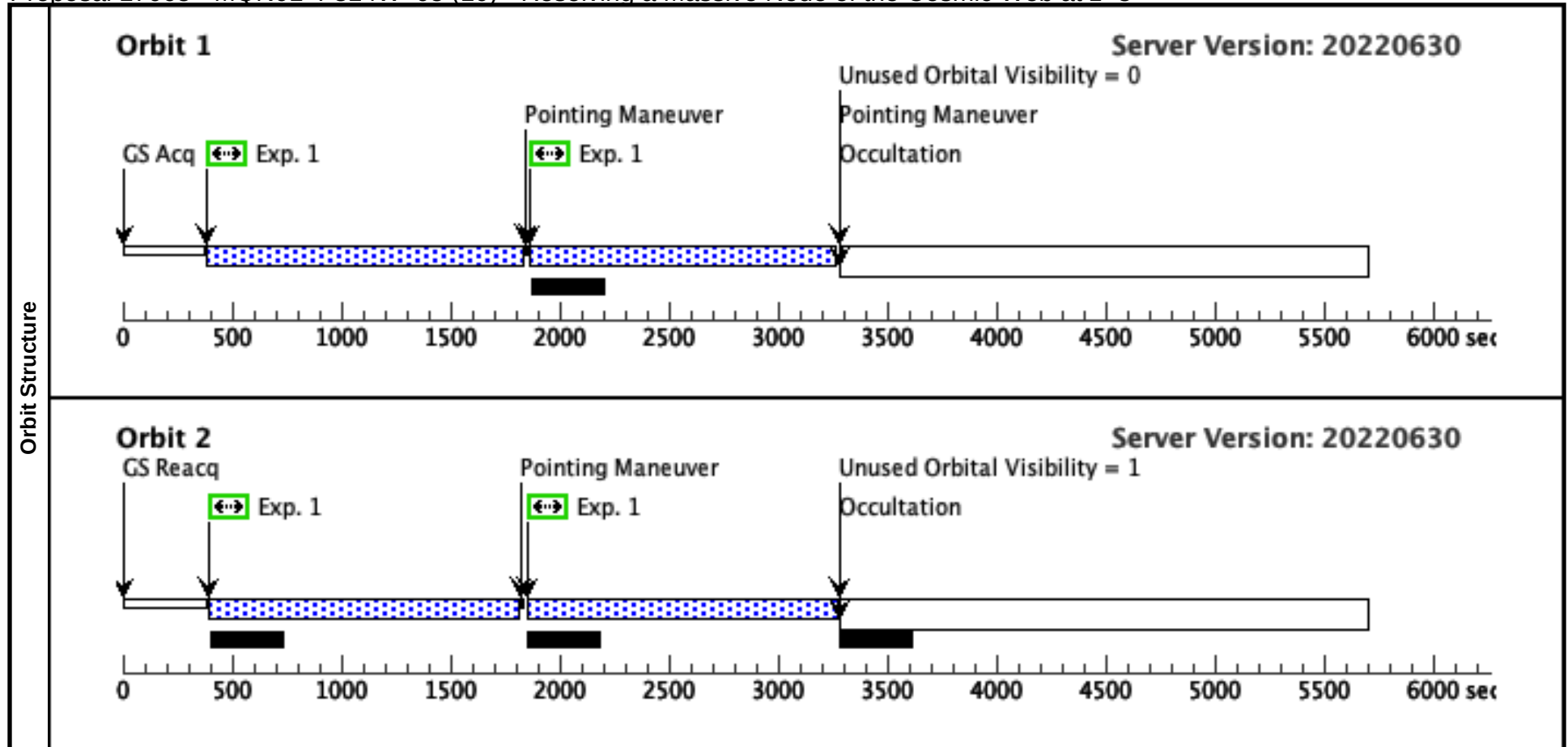
Proposal 17065 - MQN01_F814W_04 (09) - Resolving a Massive Node of the Cosmic Web at z=3

Visit	Proposal 17065, MQN01_F814W_04 (09), scheduled										Thu Apr 27 18:00:25 GMT 2023	
	Diagnostic Status: No Diagnostics											
	Scientific Instruments: ACS/WFC											
	Special Requirements: (none)											
Patterns	#	Primary Pattern				Secondary Pattern				Exposures		
	(1)	Pattern Type=ACS-WFC-DITHER-LINE Purpose=DITHER Number Of Points=4 Point Spacing=3.034 Line Spacing=		Coordinate Frame=POS-TARG Pattern Orientation=85.29 Angle Between Sides= Center Pattern=false						(1)		
Fixed Targets	#	Name	Target Coordinates		Targ. Coord. Corrections		Fluxes		Miscellaneous			
	(1)	MQN01	RA: 00 41 31.4401 (10.3810004d)				V=17		Reference Frame: ICRS			
		Alt Name1: CTSG18.1	Dec: -49 36 11.69 (-49.60325d)									
		Alt Name2: CTQ0408	Equinox: J2000									
	Comments: Category=GALAXY Description=[EMISSION LINE NEBULA, LYMAN ALPHA CLOUD, QUASAR]											
Exposures	#	Label	Target	Config,Mode,Aperture		Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]		Orbit
	1		(1) MQN01	ACS/WFC, ACCUM, WFC		F814W		POS TARG -0.125,0.75	Pattern 1, Exps 1-1 in MQN01_F814W_04 (09) (1)	1200 Secs (5112 Secs)		
										[==>1242.0 Secs (Pattern 1)]		[1]
										[==>1278.0 Secs (Pattern 2)]		
										[==>1296.0 Secs (Pattern 3)]		[2]
										[==>1296.0 Secs (Pattern 4)]		



Proposal 17065 - MQN01_F814W_05 (10) - Resolving a Massive Node of the Cosmic Web at z=3

Visit	Proposal 17065, MQN01_F814W_05 (10), completed										Thu Apr 27 18:00:25 GMT 2023
	Diagnostic Status: No Diagnostics										
	Scientific Instruments: ACS/WFC										
	Special Requirements: (none)										
Patterns	#	Primary Pattern				Secondary Pattern				Exposures	
	(1)	Pattern Type=ACS-WFC-DITHER-LINE Purpose=DITHER Number Of Points=4 Point Spacing=3.034 Line Spacing=		Coordinate Frame=POS-TARG Pattern Orientation=85.29 Angle Between Sides= Center Pattern=false						(1)	
Fixed Targets	#	Name	Target Coordinates		Targ. Coord. Corrections		Fluxes		Miscellaneous		
	(1)	MQN01	RA: 00 41 31.4401 (10.3810004d)				V=17		Reference Frame: ICRS		
		Alt Name1: CTSG18.1	Dec: -49 36 11.69 (-49.60325d)								
		Alt Name2: CTQ0408	Equinox: J2000								
	Comments: Category=GALAXY Description=[EMISSION LINE NEBULA, LYMAN ALPHA CLOUD, QUASAR]										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]		Orbit
	1		(1) MQN01	ACS/WFC, ACCUM, WFC	F814W		POS TARG 0.125,1.0	Pattern 1, Exps 1-1 in MQN01_F814W_05 (10) (1)	1200 Secs (5112 Secs)		
									[==>1242.0 Secs (Pattern 1)]		[1]
									[==>1278.0 Secs (Pattern 2)]		
										[==>1296.0 Secs (Pattern 3)]	
									[==>1296.0 Secs (Pattern 4)]		



Proposal 17065 - MQN01_F814W_06 (11) - Resolving a Massive Node of the Cosmic Web at z=3

Visit	Proposal 17065, MQN01_F814W_06 (11), completed										Thu Apr 27 18:00:26 GMT 2023	
	Diagnostic Status: No Diagnostics											
	Scientific Instruments: ACS/WFC											
	Special Requirements: (none)											
Patterns	#	Primary Pattern				Secondary Pattern				Exposures		
	(1)	Pattern Type=ACS-WFC-DITHER-LINE Purpose=DITHER Number Of Points=4 Point Spacing=3.034 Line Spacing=		Coordinate Frame=POS-TARG Pattern Orientation=85.29 Angle Between Sides= Center Pattern=false						(1)		
Fixed Targets	#	Name	Target Coordinates		Targ. Coord. Corrections		Fluxes		Miscellaneous			
	(1)	MQN01	RA: 00 41 31.4401 (10.3810004d)				V=17		Reference Frame: ICRS			
		Alt Name1: CTSG18.1	Dec: -49 36 11.69 (-49.60325d)									
		Alt Name2: CTQ0408	Equinox: J2000									
	Comments: Category=GALAXY Description=[EMISSION LINE NEBULA, LYMAN ALPHA CLOUD, QUASAR]											
Exposures	#	Label	Target	Config,Mode,Aperture		Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]		Orbit
	1		(1) MQN01	ACS/WFC, ACCUM, WFC		F814W		POS TARG 0,1.25	Pattern 1, Exps 1-1 in MQN01_F814W_06 (11) (1)	1200 Secs (5112 Secs)		
										[==>1242.0 Secs (Pattern 1)]		[1]
										[==>1278.0 Secs (Pattern 2)]		
										[==>1296.0 Secs (Pattern 3)]		
										[==>1296.0 Secs (Pattern 4)]		[2]

