



10518 - Dark matter and the missing images of cx2201-3201

Cycle: 14, Proposal Category: GO

(Availability Mode: SUPPORTED)

INVESTIGATORS

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VISITS

<i>Visit</i>	<i>Targets</i>	<i>Configurations</i>	<i>Orbits Used</i>	<i>Last Orbit Planner Run</i>	<i>OP Current with Visit?</i>
01	(1) CX2201-3201	ACS/WFC	2	20-Jun-2005 12:14:55.0	yes
02	(1) CX2201-3201	NIC2	1	20-Jun-2005 12:14:59.0	yes

3 Total Orbits Used

ABSTRACT

The galaxy lensing the $z=3.9$ quasar cx2201-3201 is a bulgeless edge-on spiral. Models for the disk that contain more than 20% of the mass predict four images, but only two are seen in ground-based images. We request 3 orbits to obtain high

Proposal 10518 - Overview

resolution optical and infrared images. If the missing images are indeed absent, more than 80% of the mass inside the Einstein radius must be in an unseen spherical component.

OBSERVING DESCRIPTION

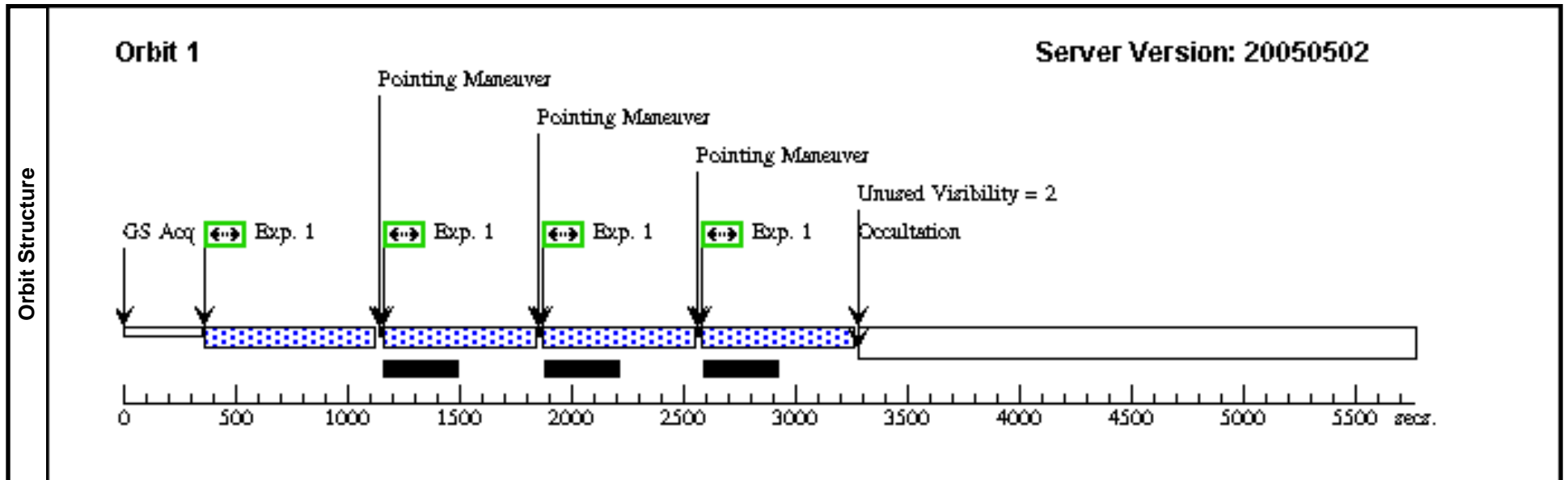
2 orbits ACS direct imaging with F814W and F475W

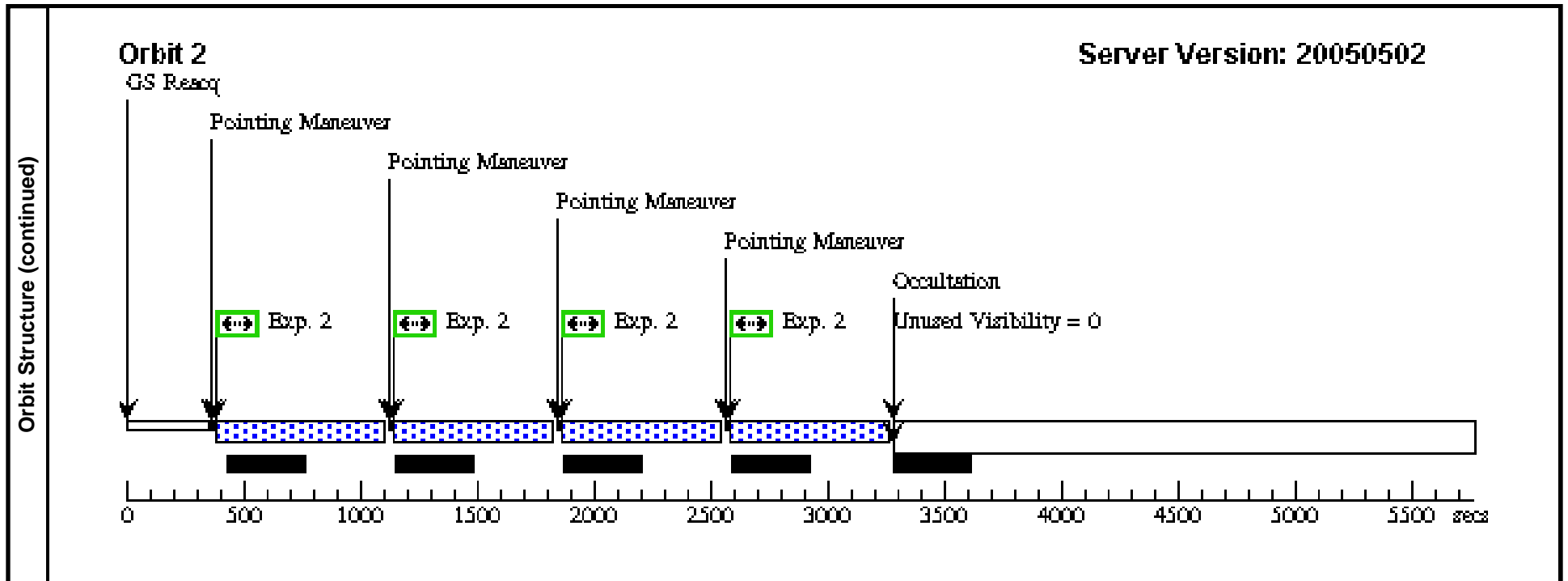
1 orbit NIC2 direct imaging with F160W

Proposal 10518 - Visit 01 - Dark matter and the missing images of cx2201-3201

Mon Jun 20 16:15:01 GMT 2005

Visit	Proposal 10518, Visit 01 Diagnostic Status: No Diagnostics Scientific Instruments: ACS/WFC Special Requirements: (none)									
	Patterns	#	Primary Pattern	Secondary Pattern	Exposures					
	(1)	Pattern Type=ACS-WFC-DITHER-BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.265 Line Spacing=0.187	Coordinate Frame=POS-TARG Pattern Orientation=20.7 Angle Between Sides=69.1 Center Pattern=false		(1), (2)					
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(1)	CX2201-3201	RA: 22 01 32.7900 (330.3866250d) Dec: -32 01 44.10 (-32.02892d) Equinox: J2000 Plate Id: (?)	Redshift: 3.9	V=21.0	Coordinate Source: Magellan via USNOB				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	cx2201/f814w	(1) CX2201-3201	ACS/WFC, ACCUM, WFC1-FIX	F814W	CR-SPLIT=NO			Pattern 1-1 (1)	557.0 Secs [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]
2	cx2201/475w	(1) CX2201-3201	ACS/WFC, ACCUM, WFC1-FIX	F475W	CR-SPLIT=NO			Pattern 2-2 (1)	563.0 Secs [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[2]





Proposal 10518 - Visit 02 - Dark matter and the missing images of cx2201-3201

Mon Jun 20 16:15:03 GMT 2005

Visit	Proposal 10518, Visit 02 Diagnostic Status: Warning Scientific Instruments: NIC2 Special Requirements: (none)									
	Diagnostics	(Visit 02) Warning: COORDINATE-SOURCE OF OTHER-SOURCE FOR SMALL APERTURE (Visit 02) Warning: COORDINATE-SOURCE OF OTHER-SOURCE FOR SMALL APERTURE (Visit 02) Warning: COORDINATE-SOURCE OF OTHER-SOURCE FOR SMALL APERTURE (Visit 02) Warning: COORDINATE-SOURCE OF OTHER-SOURCE FOR SMALL APERTURE								
Fixed Targets		#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous			
	(1)	CX2201-3201	RA: 22 01 32.7900 (330.3866250d) Dec: -32 01 44.10 (-32.02892d) Equinox: J2000 Plate Id: (?)	Redshift: 3.9	V=21.0	Coordinate Source: Magellan via USNOB				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	cx2201/f160 w-a	(1) CX2201-3201	NIC2, MULTIACCUM, NIC2-FIX	F160W	NSAMP=19; SAMP-SEQ=STEP6 4	POS TARG 3.1,3.1		[==>]	[1]
	2	cx2201/f160 w-b	(1) CX2201-3201	NIC2, MULTIACCUM, NIC2-FIX	F160W	NSAMP=19; SAMP-SEQ=STEP6 4	POS TARG -2.9,2.9		[==>]	[1]
	3	cx2201/f160 w-c	(1) CX2201-3201	NIC2, MULTIACCUM, NIC2-FIX	F160W	NSAMP=18; SAMP-SEQ=STEP6 4	POS TARG -3.1,-3.1		[==>]	[1]
	4	cx2201/f160 w-d	(1) CX2201-3201	NIC2, MULTIACCUM, NIC2-FIX	F160W	NSAMP=18; SAMP-SEQ=STEP6 4	POS TARG 2.9,-2.9		[==>]	[1]

