



10005 - Little Red Dots in a Time (Delay) Machine: Monitoring Gravitationally Lensed, Multiply Imaged LRDs over 160 years

Cycle: 5, Proposal Category: GO

INVESTIGATORS

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Mr. Hiroto Yanagisawa (CoI)	University of Tokyo, Institute of Cosmic Ray Research
Dr. Jinyi Yang (CoI)	University of Michigan

OBSERVATIONS

<i>Folder</i>	<i>Observation</i>	<i>Label</i>	<i>Observing Template</i>	<i>Science Target</i>
Epoch-1-0-day				
	101	NIRCam-Ep1	NIRCam Imaging	(1) RXCJ2211.7-0350
	102	apa209-prism-q1-Ep1	NIRSpec MultiObject Spectroscopy	(2) rxcj2211_lrd
	103	apa209-g395h-q1-Ep1	NIRSpec MultiObject Spectroscopy	(2) rxcj2211_lrd
Epoch-2-10-day				
	111	NIRCam-Ep2	NIRCam Imaging	(1) RXCJ2211.7-0350
	112	apa209-prism-q1-Ep2	NIRSpec MultiObject Spectroscopy	(2) rxcj2211_lrd
Epoch-3-30-day				
	121	NIRCam-Ep3	NIRCam Imaging	(1) RXCJ2211.7-0350
	122	apa209-prism-q1-Ep3	NIRSpec MultiObject Spectroscopy	(2) rxcj2211_lrd
Epoch-4-180-day				
	131	NIRCam-Ep4	NIRCam Imaging	(1) RXCJ2211.7-0350
	132	apa25-prism-q4-Ep4	NIRSpec MultiObject Spectroscopy	(2) rxcj2211_lrd
	133	apa25-highres-q4-Ep4	NIRSpec MultiObject Spectroscopy	(2) rxcj2211_lrd

ABSTRACT

Are little red dots (LRDs) a truly new population of active galactic nuclei? One key test is the spectrophotometric variability. Variability, if detected, will strongly constrain the physical size of LRDs and unveil the geometry among the supermassive blackhole, broad-line regions and the suspected dense gas envelope. However, so far, most of the studies suggest strikingly no evidence of photometric variability, and spectroscopic variability often

relies on one outlying broad-line strength measurement among very limited sampling of the light curve.

We propose a two-Cycle JWST monitoring campaign of the galaxy cluster RXCJ2211. Three distinct systems of strongly lensed LRDs at $z=4-7$ are identified behind the cluster, and they produce $4+5+6=15$ images with various time delays spanning ~ 2 days to ~ 160 years. RXCJ2211 contains 5x more multi-imaged LRDs than any other galaxy cluster observed by JWST so far. Because of the remarkable time delays, it is the only hope that we can measure the spectrophotometric light curves of LRDs much exceeding the 20-year JWST lifespan, and even predict the light curves for astronomers in the next century. With carefully designed NIRCam imaging + NIRSpec spectroscopy over 6 epochs (4 in Cycle-5), we will characterize the variability of the broad-line strength, absorption line profile, continuum brightness and colors covering all timescales including days, weeks, months, years, decades and centuries in the observed frame. This survey will also obtain spectra of strongly lensed galaxies at $z > \sim 9$, construct highly accurate lens models of RXCJ2211, monitor strongly lensed stars and supernovae for Hubble constant constraints through time delays.

OBSERVING DESCRIPTION

We request NIRCam imaging and NIRSpec MOS (with Prism and G395H) of the galaxy cluster field RXCJ2211-0350 ($z=0.396$). The primary targets are three distinct little red dots (LRDs) behind the cluster that are strongly lensed into $4 + 5 + 6 = 15$ multiple images. Based on photometric data and lens models as of early October 2025, we estimate the redshifts of these LRDs to be $z=4-7$ and relative time delays from ~ 2 days to ~ 160 years. JWST Cycle-5 GO-6882 NIRCam imaging observations are scheduled for the cluster in late October - November 2025, which will greatly improve the redshift and time delay estimates above.

The primary goal of this proposal is to obtain 6 epochs of spectrophotometric monitoring of these multi-imaged LRDs and characterize their variability across a variety of timescales.

Epoch Settings:

We request 6 epochs of observations at $T=0, +10, +30, +180$ (Cycle-5) and $+365, +545$ days (Cycle-6). Each epoch will include (1) four-band NIRCam imaging in the F150W, F200W, F356W and F444W bands of the RXCJ2211 cluster field, and (2) NIRSpec prism multi-object spectroscopy of ~ 12 LRDs together with other filler targets over the NIRCam footprint, through two MSA configurations. In Epoch-1, 4 and 5, we will also obtain (3) NIRSpec G395H multi-object spectroscopy of ~ 12 LRDs together with other filler targets through two MSA configurations. Finally, we will (4) obtain NIRISS imaging in the F090W, F430M and F444W bands in Epoch-1, 2, 3 (Cycle-5) and 5 (Cycle-6) as the coordinated parallel to the NIRCam imaging.

In each epoch, we set the observations to be in sequence and non-interruptible. To increase schedule flexibility, in Cycle-5, Epoch-2 is allowed to be after Epoch-1 for 7~14 days; Epoch-3 is allowed to be after Epoch-1 for 20-40 days; Epoch-4 is allowed to be after Epoch-1 for 150-210 days. Visit planner suggests that our requests are schedulable with sufficient flexibility.

Observation Settings:

(1) NIRCam imaging:

NIRCam imaging observations in F150W, F200W (short-wavelength channel) and F356W, F444W (long-wavelength channel) are requested to (a) monitor the photometric variability of LRDs at the epoch of spectroscopy, (b) monitor the emergence of other high-redshift transients, e.g., microlensed stars and multiply imaged supernovae, and (c) construct deep stacked images in these bands to accurately measure the color evolution of LRDs over ~160 years in the observed frame. For each observation, we request 5-group of SHALLOW4 readouts over 4-point INTRAMODULEBOX primary dithers. The PA of Epoch-1, 2, 3 and 5 NIRCam observations are set as the same.

(2) NIRSpec MOS with prism:

NIRSpec MOS observations with prism are requested to (a) monitor the spectrophotometric variability of LRDs in terms of broad-line equivalent widths, (b) confirm the redshifts of as many multi-imaged galaxies as possible to produce accurate lens model, and (c) confirm and study other high-value extragalactic targets (e.g., high-redshift galaxy, strongly lensed arc / supernovae). For each observation, we request two MSA configurations which will contain ~11 LRDs. We will use 16-group NRSIRS2 readout and 3-shutter nodding, and therefore the on-source exposure time is 3545s per config. The V3PA of NIRSpec MOS is set as the same of the NIRCam observation at the same epoch.

We request aperture PA = 209 degree for Epoch-1, 2, 3 and 25 degree for Epoch-4.

(3) NIRSpec MOS with G395H:

NIRSpec MOS observations with G395H are requested to (a) identify broad component of the emission lines in LRDs, (b) identify absorption-line component of H α , H β in LRDs (and identify potential velocity changes over 150 years of time delay), and (c) assess the variability (or not) of

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the broad-line profile over 180-day timescale in the observed frame. For each observation, we request two MSA configurations (allow spectral overlapping) which will contain ~12 LRDs. We will use 16-group x 2-integration NRSIRS2 readout and 3-shutter nodding, and therefore the on-source exposure time is 7090s per config. The V3PA of NIRSpec MOS is set as the same of the NIRCам observation at the same epoch.

(4) Coordinated NIRISS imaging parallel:

NIRISS imaging parallel observations in the F090W, F430M and F444W bands are requested to produce continuous eight-band coverage in the scheduled GO-6882 VENUS parallel footprint (with F115W, F150W, F200W, F277W and F356W observations secured) and therefore characterize the environment of primary LRD targets. These observations will only add 0.1-hour of overhead to the program. For each mechanism move, we request 5-group NIRISS readout. We use F090W + F444W in Epoch-1, F430M x 2 in Epoch-2, and F090W + F444W in Epoch-3. The repeated F090W+F444W observations in Epoch-1/2 can also be used to select young emerging transients at high redshifts.

Proposal 10005 - Targets - Little Red Dots in a Time (Delay) Machine: Monitoring Gravitationally Lensed, Multiply Imaged LRDs over ...

Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Miscellaneous
	(1)	RXCJ2211.7-0350	RA: 22 11 45.9208 (332.9413367d) Dec: -03 49 44.54 (-3.82904d) Equinox: J2000 <i>Comments:</i> Category=Clusters of Galaxies Description=[Rich clusters]		
(2)	rxcj2211_lrd	RA: 22 11 46.6368 (332.9443200d) Dec: -03 49 39.65 (-3.82768d) Equinox: J2000 <i>Comments:</i> Description=[]			

Proposal 10005 - Observation 101 - Little Red Dots in a Time (Delay) Machine: Monitoring Gravitationally Lensed, Multiply Imaged LR...

Fri Mar 13 18:03:31 GMT 2026

Observation	Proposal 10005, Observation 101: NIRCam-Ep1 Diagnostic Status: Warning Observing Template: NIRCam Imaging Coordinated Parallel Template(s): NIRISS Imaging																																							
Diagnostics	(NIRCam-Ep1 (Obs 101)) Warning (Form): By selecting Target Placement = Module Gap the target coordinates will not fall on any detector unless an appropriate Mosaic, set of Dithers or Offset Special Requirement is specified. (Visit 101:1) Warning (Form): Overheads are provisional until the Visit Planner has been run. (NIRCam-Ep1 (Obs 101)) Informational (Form): The Visit Planner and Spike may produce different schedulability results.																																							
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Template	NIRCam Imaging					NIRISS Imaging																																		
Module: ALL Subarray: FULL Target Placement: Module gap (large extended source)																																								
Dithers	<table border="1"> <thead> <tr> <th>#</th> <th>Primary Dither Type</th> <th>Primary Dithers</th> <th>Dither Size</th> <th>Subpixel Positions</th> <th>Coordinated Parallel Subpixel Selector</th> <th>Dither Direct Images Primes</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>INTRAMODULEBOX</td> <td>4</td> <td></td> <td>1</td> <td>NIRCam Only</td> <td>NO_DITHERING</td> </tr> </tbody> </table>										#	Primary Dither Type	Primary Dithers	Dither Size	Subpixel Positions	Coordinated Parallel Subpixel Selector	Dither Direct Images Primes	1	INTRAMODULEBOX	4		1	NIRCam Only	NO_DITHERING																
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Spectral Elements	<table border="1"> <thead> <tr> <th>NIRCam Imaging</th> <th>Short Filter</th> <th>Long Filter</th> <th>Readout Pattern</th> <th>Groups/Int</th> <th>Integrations/Exp</th> <th>Total Integrations</th> <th>Total Dithers</th> <th>Total Exposure Time</th> <th>Optional ETC ID</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>F200W</td> <td>F356W</td> <td>SHALLOW4</td> <td>5</td> <td>1</td> <td>4</td> <td>4</td> <td>1030.73</td> <td></td> </tr> <tr> <td>2</td> <td>F150W</td> <td>F444W</td> <td>SHALLOW4</td> <td>5</td> <td>1</td> <td>4</td> <td>4</td> <td>1030.73</td> <td></td> </tr> </tbody> </table>										NIRCam Imaging	Short Filter	Long Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Dithers	Total Exposure Time	Optional ETC ID	1	F200W	F356W	SHALLOW4	5	1	4	4	1030.73		2	F150W	F444W	SHALLOW4	5	1	4	4	1030.73	
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Proposal 10005 - Observation 101 - Little Red Dots in a Time (Delay) Machine: Monitoring Gravitationally Lensed, Multiply Imaged LR...

Special Requirements

Offset -90.0 arcsec, 0.0 arcsec
No Parallel Attachments

Group Observations 101, 102, 103, Non-interruptible
Same V3 PA 101, 102, 103 (Aperture PAs differ)
Same Aperture PA 101, 111, 121

Proposal 10005 - Observation 102 - Little Red Dots in a Time (Delay) Machine: Monitoring Gravitationally Lensed, Multiply Imaged LR...

Fri Mar 13 18:03:31 GMT 2026

Observation	Proposal 10005, Observation 102: apa209-prism-q1-Ep1 Diagnostic Status: Warning Observing Template: NIRSpec MultiObject Spectroscopy																																										
Diagnostics	(Visit 102:1) Warning (Form): Overheads are provisional until the Visit Planner has been run. (apa209-prism-q1-Ep1 (Obs 102)) Informational (Form): The Visit Planner and Spike may produce different schedulability results.																																										
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Acquisition	<table border="1"> <thead> <tr> <th>#</th> <th>Reference Star Bin</th> <th>Target</th> <th>Filter</th> <th>MSA Configuration</th> <th>Readout Pattern</th> <th>Groups/Int</th> <th>Integrations/Exp</th> <th>Total Integrations</th> <th>Total Exposure Time</th> <th>Optional ETC ID</th> </tr> </thead> <tbody> <tr> <td>1</td> <td></td> <td>SAME</td> <td>F140X</td> <td>Auto Acq MSA Config</td> <td>NRSRAPID</td> <td>3</td> <td>1</td> <td>4</td> <td>171.788</td> <td></td> </tr> </tbody> </table>										#	Reference Star Bin	Target	Filter	MSA Configuration	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Exposure Time	Optional ETC ID	1		SAME	F140X	Auto Acq MSA Config	NRSRAPID	3	1	4	171.788												
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Template	<table border="1"> <thead> <tr> <th>TA Method</th> <th>HFF Readout Mode</th> <th>Obtain Confirmation Images</th> <th>Science Aperture</th> <th>Primary Candidate List</th> <th>Filler Candidate List</th> <th>Spectral Overlap Map</th> <th>Spectral Overlap Threshold</th> </tr> </thead> <tbody> <tr> <td>MSATA</td> <td>false</td> <td>No</td> <td>MSA Center</td> <td>rxcj2211_lrd (13 sources)</td> <td></td> <td>rwst-nirspec-prism</td> <td>1.5</td> </tr> </tbody> </table>										TA Method	HFF Readout Mode	Obtain Confirmation Images	Science Aperture	Primary Candidate List	Filler Candidate List	Spectral Overlap Map	Spectral Overlap Threshold	MSATA	false	No	MSA Center	rxcj2211_lrd (13 sources)		rwst-nirspec-prism	1.5																	
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Spectral Elements	<table border="1"> <thead> <tr> <th>#</th> <th>Exposure Specification</th> <th>MSA Configuration</th> <th>Nod Pattern</th> <th>Pointing</th> <th>Aperture PA</th> <th>Dispersion Offset (Shutters)</th> <th>Cross-Dispersion Offset (Shutters)</th> <th>Total Dithers</th> <th>Total Integrations</th> <th>Total Exposure Time</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>1 (PRISM/CLEAR)</td> <td>c1</td> <td>3 Shutter Slitlet</td> <td>332.93670258333 333 Degrees - 3.8059949999999 96 Degrees</td> <td>209.00045932397 518</td> <td></td> <td></td> <td>3</td> <td>3</td> <td>3545.1</td> </tr> <tr> <td>2</td> <td>1 (PRISM/CLEAR)</td> <td>c2</td> <td>3 Shutter Slitlet</td> <td>332.94277195833 337 Degrees - 3.8060363888889 13 Degrees</td> <td>209.00005856189 307</td> <td></td> <td></td> <td>3</td> <td>3</td> <td>3545.1</td> </tr> </tbody> </table>										#	Exposure Specification	MSA Configuration	Nod Pattern	Pointing	Aperture PA	Dispersion Offset (Shutters)	Cross-Dispersion Offset (Shutters)	Total Dithers	Total Integrations	Total Exposure Time	1	1 (PRISM/CLEAR)	c1	3 Shutter Slitlet	332.93670258333 333 Degrees - 3.8059949999999 96 Degrees	209.00045932397 518			3	3	3545.1	2	1 (PRISM/CLEAR)	c2	3 Shutter Slitlet	332.94277195833 337 Degrees - 3.8060363888889 13 Degrees	209.00005856189 307			3	3	3545.1
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Proposal 10005 - Observation 102 - Little Red Dots in a Time (Delay) Machine: Monitoring Gravitationally Lensed, Multiply Imaged LR...

Special Requirements

Aperture PA Range 209 to 209 Degrees (V3 70.4254303 to 70.4254303)
MSA Planned Aperture PA 209.0000 to 209.0000 Degrees (V3 70.4254303 to 70.4254303)
112 After 102 by 7 Days to 14 Days
122 After 102 by 20 Days to 40 Days
132 After 102 by 150 Days to 210 Days
Group Observations 101, 102, 103, Non-interruptible
Same V3 PA 101, 102, 103 (Aperture PAs differ)

Proposal 10005 - Observation 103 - Little Red Dots in a Time (Delay) Machine: Monitoring Gravitationally Lensed, Multiply Imaged LR...

Fri Mar 13 18:03:31 GMT 2026

Observation	Proposal 10005, Observation 103: apa209-g395h-q1-Ep1 Diagnostic Status: Warning Observing Template: NIRSpec MultiObject Spectroscopy										
Diagnostics	(Visit 103:1) Warning (Form): Overheads are provisional until the Visit Planner has been run. (apa209-g395h-q1-Ep1 (Obs 103)) Informational (Form): The Visit Planner and Spike may produce different schedulability results.										
Fixed Targets	#	Name	Target Coordinates		Targ. Coord. Corrections			Miscellaneous			
	(2)	rxcj2211_lrd	RA: 22 11 46.6368 (332.9443200d) Dec: -03 49 39.65 (-3.82768d) Equinox: J2000								
	<i>Comments: Description=[]</i>										
Acquisition	#	Reference Star Bin	Target	Filter	MSA Configuration	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Exposure Time	Optional ETC ID
	1		SAME	F140X	Auto Acq MSA Config	NRSRAPID	3	1	4	171.788	
Template	TA Method	HFF Readout Mode	Obtain Confirmation Images	Science Aperture	Primary Candidate List	Filler Candidate List	Spectral Overlap Map	Spectral Overlap Threshold			
	MSATA	false	No	MSA Center	rxcj2211_lrd (13 sources)		rwst-nirspec-g395h	1.5			
Reference Stars											
Spectral Elements	#	Exposure Specification	MSA Configuration	Nod Pattern	Pointing	Aperture PA	Dispersion Offset (Shutters)	Cross-Dispersion Offset (Shutters)	Total Dithers	Total Integrations	Total Exposure Time
	1	1 (G395H/F290LP)	c1	3 Shutter Slitlet	332.941044875 Degrees - 3.805684444444 664 Degrees	209.00017187232 237			3	6	7090.201
	2	1 (G395H/F290LP)	c2	3 Shutter Slitlet	332.939083375 Degrees - 3.807324444444 185 Degrees	209.00030483115 41			3	6	7090.201

Proposal 10005 - Observation 103 - Little Red Dots in a Time (Delay) Machine: Monitoring Gravitationally Lensed, Multiply Imaged LR...

Special Requirements

Aperture PA Range 209 to 209 Degrees (V3 70.4254303 to 70.4254303)
MSA Planned Aperture PA 209.0000 to 209.0000 Degrees (V3 70.4254303 to 70.4254303)
Group Observations 101, 102, 103, Non-interruptible
Same V3 PA 101, 102, 103 (Aperture PAs differ)

Proposal 10005 - Observation 111 - Little Red Dots in a Time (Delay) Machine: Monitoring Gravitationally Lensed, Multiply Imaged LR...

Fri Mar 13 18:03:31 GMT 2026

Observation	Proposal 10005, Observation 111: NIRCam-Ep2 Diagnostic Status: Warning Observing Template: NIRCam Imaging Coordinated Parallel Template(s): NIRISS Imaging									
	(NIRCam-Ep2 (Obs 111)) Warning (Form): By selecting Target Placement = Module Gap the target coordinates will not fall on any detector unless an appropriate Mosaic, set of Dithers or Offset Special Requirement is specified. (Visit 111:1) Warning (Form): Overheads are provisional until the Visit Planner has been run. (NIRCam-Ep2 (Obs 111)) Informational (Form): The Visit Planner and Spike may produce different schedulability results.									
Fixed Targets	#	Name	Target Coordinates			Targ. Coord. Corrections		Miscellaneous		
	(1)	RXCJ2211.7-0350	RA: 22 11 45.9208 (332.9413367d) Dec: -03 49 44.54 (-3.82904d) Equinox: J2000							
<i>Comments:</i> Category=Clusters of Galaxies Description=[Rich clusters]										
Template	NIRCam Imaging					NIRISS Imaging				
	Module: ALL Subarray: FULL Target Placement: Module gap (large extended source)									
Dithers	#	Primary Dither Type		Primary Dithers	Dither Size	Subpixel Positions		Coordinated Parallel Subpixel Selector		Dither Direct Images Primes
	1	INTRAMODULEBOX		4		1		NIRCam Only		NO_DITHERING
Spectral Elements	NIRCam Imaging	Short Filter	Long Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Dithers	Total Exposure Time	Optional ETC ID
	1	F200W	F356W	SHALLOW4	5	1	4	4	1030.73	
	2	F150W	F444W	SHALLOW4	5	1	4	4	1030.73	
Spectral Elements	NIRISS Imaging	Filter	Grism	Readout Pattern	Groups/Int	Integrations/Exp	Total Dithers	Total Integrations	Total Exposure Time	Optional ETC ID
	1	F430M		NIS	5	1	4	4	901.889	
	2	F430M		NIS	5	1	4	4	901.889	

Proposal 10005 - Observation 111 - Little Red Dots in a Time (Delay) Machine: Monitoring Gravitationally Lensed, Multiply Imaged LR...

Special Requirements

Offset -90.0 arcsec, 0.0 arcsec
No Parallel Attachments

Sequence Observations 111, 112, Non-interruptible
Same V3 PA 111, 112 (Aperture PAs differ)
Same Aperture PA 101, 111, 121

Proposal 10005 - Observation 112 - Little Red Dots in a Time (Delay) Machine: Monitoring Gravitationally Lensed, Multiply Imaged LR...

Fri Mar 13 18:03:31 GMT 2026

Observation	Proposal 10005, Observation 112: apa209-prism-q1-Ep2 Diagnostic Status: Warning Observing Template: NIRSpec MultiObject Spectroscopy																																										
Diagnostics	(Visit 112:1) Warning (Form): Overheads are provisional until the Visit Planner has been run. (apa209-prism-q1-Ep2 (Obs 112)) Informational (Form): The Visit Planner and Spike may produce different schedulability results.																																										
Fixed Targets	<table border="1"> <thead> <tr> <th>#</th> <th>Name</th> <th>Target Coordinates</th> <th>Targ. Coord. Corrections</th> <th>Miscellaneous</th> </tr> </thead> <tbody> <tr> <td>(2)</td> <td>rxcj2211_lrd</td> <td>RA: 22 11 46.6368 (332.9443200d) Dec: -03 49 39.65 (-3.82768d) Equinox: J2000</td> <td></td> <td></td> </tr> </tbody> </table> Comments: Description=[]										#	Name	Target Coordinates	Targ. Coord. Corrections	Miscellaneous	(2)	rxcj2211_lrd	RA: 22 11 46.6368 (332.9443200d) Dec: -03 49 39.65 (-3.82768d) Equinox: J2000																									
#	Name	Target Coordinates	Targ. Coord. Corrections	Miscellaneous																																							
(2)	rxcj2211_lrd	RA: 22 11 46.6368 (332.9443200d) Dec: -03 49 39.65 (-3.82768d) Equinox: J2000																																									
Acquisition	<table border="1"> <thead> <tr> <th>#</th> <th>Reference Star Bin</th> <th>Target</th> <th>Filter</th> <th>MSA Configuration</th> <th>Readout Pattern</th> <th>Groups/Int</th> <th>Integrations/Exp</th> <th>Total Integrations</th> <th>Total Exposure Time</th> <th>Optional ETC ID</th> </tr> </thead> <tbody> <tr> <td>1</td> <td></td> <td>SAME</td> <td>F140X</td> <td>Auto Acq MSA Config</td> <td>NRSRAPID</td> <td>3</td> <td>1</td> <td>4</td> <td>171.788</td> <td></td> </tr> </tbody> </table>										#	Reference Star Bin	Target	Filter	MSA Configuration	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Exposure Time	Optional ETC ID	1		SAME	F140X	Auto Acq MSA Config	NRSRAPID	3	1	4	171.788												
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Spectral Elements	<table border="1"> <thead> <tr> <th>#</th> <th>Exposure Specification</th> <th>MSA Configuration</th> <th>Nod Pattern</th> <th>Pointing</th> <th>Aperture PA</th> <th>Dispersion Offset (Shutters)</th> <th>Cross-Dispersion Offset (Shutters)</th> <th>Total Dithers</th> <th>Total Integrations</th> <th>Total Exposure Time</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>1 (PRISM/CLEAR)</td> <td>c1</td> <td>3 Shutter Slitlet</td> <td>332.93670258333 333 Degrees - 3.80599499999999 96 Degrees</td> <td>209.00045932397 518</td> <td></td> <td></td> <td>3</td> <td>3</td> <td>3545.1</td> </tr> <tr> <td>2</td> <td>1 (PRISM/CLEAR)</td> <td>c2</td> <td>3 Shutter Slitlet</td> <td>332.94277195833 337 Degrees - 3.8060363888889 13 Degrees</td> <td>209.00005856189 307</td> <td></td> <td></td> <td>3</td> <td>3</td> <td>3545.1</td> </tr> </tbody> </table>										#	Exposure Specification	MSA Configuration	Nod Pattern	Pointing	Aperture PA	Dispersion Offset (Shutters)	Cross-Dispersion Offset (Shutters)	Total Dithers	Total Integrations	Total Exposure Time	1	1 (PRISM/CLEAR)	c1	3 Shutter Slitlet	332.93670258333 333 Degrees - 3.80599499999999 96 Degrees	209.00045932397 518			3	3	3545.1	2	1 (PRISM/CLEAR)	c2	3 Shutter Slitlet	332.94277195833 337 Degrees - 3.8060363888889 13 Degrees	209.00005856189 307			3	3	3545.1
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2	1 (PRISM/CLEAR)	c2	3 Shutter Slitlet	332.94277195833 337 Degrees - 3.8060363888889 13 Degrees	209.00005856189 307			3	3	3545.1																																	

Proposal 10005 - Observation 112 - Little Red Dots in a Time (Delay) Machine: Monitoring Gravitationally Lensed, Multiply Imaged LR...

Special Requirements

Aperture PA Range 209 to 209 Degrees (V3 70.4254303 to 70.4254303)
MSA Planned Aperture PA 209.0000 to 209.0000 Degrees (V3 70.4254303 to 70.4254303)

112 After 102 by 7 Days to 14 Days
Sequence Observations 111, 112, Non-interruptible
Same V3 PA 111, 112 (Aperture PAs differ)

Proposal 10005 - Observation 121 - Little Red Dots in a Time (Delay) Machine: Monitoring Gravitationally Lensed, Multiply Imaged LR...

Fri Mar 13 18:03:31 GMT 2026

Observation	<p>Proposal 10005, Observation 121: NIRCam-Ep3</p> <p>Diagnostic Status: Warning</p> <p>Observing Template: NIRCam Imaging</p> <p>Coordinated Parallel Template(s): NIRISS Imaging</p>																																							
Diagnostics	<p>(NIRCam-Ep3 (Obs 121)) Warning (Form): By selecting Target Placement = Module Gap the target coordinates will not fall on any detector unless an appropriate Mosaic, set of Dithers or Offset Special Requirement is specified.</p> <p>(Visit 121:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.</p> <p>(NIRCam-Ep3 (Obs 121)) Informational (Form): The Visit Planner and Spike may produce different schedulability results.</p>																																							
Fixed Targets	<table border="1"> <thead> <tr> <th>#</th> <th>Name</th> <th>Target Coordinates</th> <th>Targ. Coord. Corrections</th> <th>Miscellaneous</th> </tr> </thead> <tbody> <tr> <td>(1)</td> <td>RXCJ2211.7-0350</td> <td>RA: 22 11 45.9208 (332.9413367d) Dec: -03 49 44.54 (-3.82904d) Equinox: J2000</td> <td></td> <td></td> </tr> <tr> <td colspan="5"> <i>Comments:</i> <i>Category=Clusters of Galaxies</i> <i>Description=[Rich clusters]</i> </td> </tr> </tbody> </table>										#	Name	Target Coordinates	Targ. Coord. Corrections	Miscellaneous	(1)	RXCJ2211.7-0350	RA: 22 11 45.9208 (332.9413367d) Dec: -03 49 44.54 (-3.82904d) Equinox: J2000			<i>Comments:</i> <i>Category=Clusters of Galaxies</i> <i>Description=[Rich clusters]</i>																			
#	Name	Target Coordinates	Targ. Coord. Corrections	Miscellaneous																																				
(1)	RXCJ2211.7-0350	RA: 22 11 45.9208 (332.9413367d) Dec: -03 49 44.54 (-3.82904d) Equinox: J2000																																						
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Template	NIRCam Imaging					NIRISS Imaging																																		
<p>Module: ALL</p> <p>Subarray: FULL</p> <p>Target Placement: Module gap (large extended source)</p>																																								
Dithers	<table border="1"> <thead> <tr> <th>#</th> <th>Primary Dither Type</th> <th>Primary Dithers</th> <th>Dither Size</th> <th>Subpixel Positions</th> <th>Coordinated Parallel Subpixel Selector</th> <th>Dither Direct Images Primes</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>INTRAMODULEBOX</td> <td>4</td> <td></td> <td>1</td> <td>NIRCam Only</td> <td>NO_DITHERING</td> </tr> </tbody> </table>										#	Primary Dither Type	Primary Dithers	Dither Size	Subpixel Positions	Coordinated Parallel Subpixel Selector	Dither Direct Images Primes	1	INTRAMODULEBOX	4		1	NIRCam Only	NO_DITHERING																
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Spectral Elements	<table border="1"> <thead> <tr> <th>NIRCam Imaging</th> <th>Short Filter</th> <th>Long Filter</th> <th>Readout Pattern</th> <th>Groups/Int</th> <th>Integrations/Exp</th> <th>Total Integrations</th> <th>Total Dithers</th> <th>Total Exposure Time</th> <th>Optional ETC ID</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>F200W</td> <td>F356W</td> <td>SHALLOW4</td> <td>5</td> <td>1</td> <td>4</td> <td>4</td> <td>1030.73</td> <td></td> </tr> <tr> <td>2</td> <td>F150W</td> <td>F444W</td> <td>SHALLOW4</td> <td>5</td> <td>1</td> <td>4</td> <td>4</td> <td>1030.73</td> <td></td> </tr> </tbody> </table>										NIRCam Imaging	Short Filter	Long Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Dithers	Total Exposure Time	Optional ETC ID	1	F200W	F356W	SHALLOW4	5	1	4	4	1030.73		2	F150W	F444W	SHALLOW4	5	1	4	4	1030.73	
NIRCam Imaging	Short Filter	Long Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Dithers	Total Exposure Time	Optional ETC ID																															
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NIRISS Imaging	Filter	Grism	Readout Pattern	Groups/Int	Integrations/Exp	Total Dithers	Total Integrations	Total Exposure Time	Optional ETC ID																															
1	F090W		NIS	5	1	4	4	901.889																																
2	F444W		NIS	5	1	4	4	901.889																																

Proposal 10005 - Observation 121 - Little Red Dots in a Time (Delay) Machine: Monitoring Gravitationally Lensed, Multiply Imaged LR...

Special Requirements

Offset -90.0 arcsec, 0.0 arcsec
No Parallel Attachments

Sequence Observations 121, 122, Non-interruptible
Same V3 PA 121, 122 (Aperture PAs differ)
Same Aperture PA 101, 111, 121

Proposal 10005 - Observation 122 - Little Red Dots in a Time (Delay) Machine: Monitoring Gravitationally Lensed, Multiply Imaged LR...

Fri Mar 13 18:03:31 GMT 2026

Observation	Proposal 10005, Observation 122: apa209-prism-q1-Ep3 Diagnostic Status: Warning Observing Template: NIRSpec MultiObject Spectroscopy										
Diagnostics	(Visit 122:1) Warning (Form): Overheads are provisional until the Visit Planner has been run. (apa209-prism-q1-Ep3 (Obs 122)) Informational (Form): The Visit Planner and Spike may produce different schedulability results.										
Fixed Targets	#	Name	Target Coordinates		Targ. Coord. Corrections			Miscellaneous			
	(2)	rxcj2211_lrd	RA: 22 11 46.6368 (332.9443200d) Dec: -03 49 39.65 (-3.82768d) Equinox: J2000								
	<i>Comments:</i> Description=[]										
Acquisition	#	Reference Star Bin	Target	Filter	MSA Configuration	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Exposure Time	Optional ETC ID
	1		SAME	F140X	Auto Acq MSA Config	NRSRAPID	3	1	4	171.788	
Template	TA Method	HFF Readout Mode	Obtain Confirmation Images	Science Aperture	Primary Candidate List	Filler Candidate List	Spectral Overlap Map	Spectral Overlap Threshold			
	MSATA	false	No	MSA Center	rxcj2211_lrd (13 sources)		rwst-nirspec-prism	1.5			
Reference Stars											
Spectral Elements	#	Exposure Specification	MSA Configuration	Nod Pattern	Pointing	Aperture PA	Dispersion Offset (Shutters)	Cross-Dispersion Offset (Shutters)	Total Dithers	Total Integrations	Total Exposure Time
	1	1 (PRISM/CLEAR)	c1	3 Shutter Slitlet	332.93670258333 333 Degrees - 3.8059949999999 96 Degrees	209.00045932397 518			3	3	3545.1
	2	1 (PRISM/CLEAR)	c2	3 Shutter Slitlet	332.94277195833 337 Degrees - 3.8060363888889 13 Degrees	209.00005856189 307			3	3	3545.1

Proposal 10005 - Observation 122 - Little Red Dots in a Time (Delay) Machine: Monitoring Gravitationally Lensed, Multiply Imaged LR...

Special Requirements

Aperture PA Range 209 to 209 Degrees (V3 70.4254303 to 70.4254303)
MSA Planned Aperture PA 209.0000 to 209.0000 Degrees (V3 70.4254303 to 70.4254303)
122 After 102 by 20 Days to 40 Days
Sequence Observations 121, 122, Non-interruptible
Same V3 PA 121, 122 (Aperture PAs differ)

Proposal 10005 - Observation 131 - Little Red Dots in a Time (Delay) Machine: Monitoring Gravitationally Lensed, Multiply Imaged LR...

Fri Mar 13 18:03:31 GMT 2026

Observation	<p>Proposal 10005, Observation 131: NIRCam-Ep4</p> <p>Diagnostic Status: Warning</p> <p>Observing Template: NIRCam Imaging</p>									
Diagnostics	<p>(NIRCam-Ep4 (Obs 131)) Warning (Form): By selecting Target Placement = Module Gap the target coordinates will not fall on any detector unless an appropriate Mosaic, set of Dithers or Offset Special Requirement is specified.</p> <p>(Visit 131:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.</p> <p>(NIRCam-Ep4 (Obs 131)) Informational (Form): The Visit Planner and Spike may produce different schedulability results.</p>									
Fixed Targets	#	Name	Target Coordinates		Targ. Coord. Corrections			Miscellaneous		
	(1)	RXCJ2211.7-0350	RA: 22 11 45.9208 (332.9413367d) Dec: -03 49 44.54 (-3.82904d) Equinox: J2000							
	<p><i>Comments:</i> <i>Category=Clusters of Galaxies</i> <i>Description=[Rich clusters]</i></p>									
Template	Module		Subarray			Target Placement				
	ALL		FULL			Module gap (large extended source)				
Dithers	#	Primary Dither Type		Primary Dithers	Subpixel Dither Type		Dither Size	Subpixel Positions		
	1	INTRAMODULEBOX		4	STANDARD			1		
Spectral Elements	#	Short Filter	Long Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Dithers	Total Exposure Time	Optional ETC ID
	1	F200W	F356W	SHALLOW4	5	1	4	4	1030.73	
	2	F150W	F444W	SHALLOW4	5	1	4	4	1030.73	
Special Requirements	<p>Offset 90.0 arcsec, 0.0 arcsec</p> <p>Sequence Observations 131, 132, 133, Non-interruptible</p> <p>Same V3 PA 131, 132, 133 (Aperture PAs differ)</p>									

Proposal 10005 - Observation 132 - Little Red Dots in a Time (Delay) Machine: Monitoring Gravitationally Lensed, Multiply Imaged LR...

Fri Mar 13 18:03:31 GMT 2026

Observation	<p>Proposal 10005, Observation 132: apa25-prism-q4-Ep4</p> <p>Diagnostic Status: Warning</p> <p>Observing Template: NIRSpec MultiObject Spectroscopy</p>																																										
Diagnostics	<p>(Visit 132:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.</p> <p>(apa25-prism-q4-Ep4 (Obs 132)) Informational (Form): The Visit Planner and Spike may produce different schedulability results.</p> <p>(Visit 132:1) Informational (Form): Visit schedulable, but most scheduling windows are when JWST is pointed in direction of greatest micrometeoroid impact risk. This is likely due to scheduling special requirements.</p>																																										
Fixed Targets	<table border="1"> <thead> <tr> <th>#</th> <th>Name</th> <th>Target Coordinates</th> <th>Targ. Coord. Corrections</th> <th>Miscellaneous</th> </tr> </thead> <tbody> <tr> <td>(2)</td> <td>rxcj2211_lrd</td> <td>RA: 22 11 46.6368 (332.9443200d) Dec: -03 49 39.65 (-3.82768d) Equinox: J2000</td> <td></td> <td></td> </tr> </tbody> </table> <p>Comments: Description=[]</p>										#	Name	Target Coordinates	Targ. Coord. Corrections	Miscellaneous	(2)	rxcj2211_lrd	RA: 22 11 46.6368 (332.9443200d) Dec: -03 49 39.65 (-3.82768d) Equinox: J2000																									
#	Name	Target Coordinates	Targ. Coord. Corrections	Miscellaneous																																							
(2)	rxcj2211_lrd	RA: 22 11 46.6368 (332.9443200d) Dec: -03 49 39.65 (-3.82768d) Equinox: J2000																																									
Acquisition	<table border="1"> <thead> <tr> <th>#</th> <th>Reference Star Bin</th> <th>Target</th> <th>Filter</th> <th>MSA Configuration</th> <th>Readout Pattern</th> <th>Groups/Int</th> <th>Integrations/Exp</th> <th>Total Integrations</th> <th>Total Exposure Time</th> <th>Optional ETC ID</th> </tr> </thead> <tbody> <tr> <td>1</td> <td></td> <td>SAME</td> <td>F140X</td> <td>Auto Acq MSA Config</td> <td>NRSRAPID</td> <td>3</td> <td>1</td> <td>4</td> <td>171.788</td> <td></td> </tr> </tbody> </table>										#	Reference Star Bin	Target	Filter	MSA Configuration	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Exposure Time	Optional ETC ID	1		SAME	F140X	Auto Acq MSA Config	NRSRAPID	3	1	4	171.788												
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Proposal 10005 - Observation 132 - Little Red Dots in a Time (Delay) Machine: Monitoring Gravitationally Lensed, Multiply Imaged LR...

Special Requirements

Aperture PA Range 25 to 25 Degrees (V3 246.42543030000002 to 246.42543030000002)
MSA Planned Aperture PA 25.0000 to 25.0000 Degrees (V3 246.42543030000002 to 246.42543030000002)
132 After 102 by 150 Days to 210 Days
Sequence Observations 131, 132, 133, Non-interruptible
Same V3 PA 131, 132, 133 (Aperture PAs differ)

Proposal 10005 - Observation 133 - Little Red Dots in a Time (Delay) Machine: Monitoring Gravitationally Lensed, Multiply Imaged LR...

Fri Mar 13 18:03:31 GMT 2026

Observation	<p>Proposal 10005, Observation 133: apa25-highres-q4-Ep4</p> <p>Diagnostic Status: Warning</p> <p>Observing Template: NIRSpec MultiObject Spectroscopy</p>										
Diagnostics	<p>(apa25-highres-q4-Ep4 (Obs 133)) Warning (Form): Config c2 (#2) has 1 primary slits affected by failed closed shutters.</p> <p>(Visit 133:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.</p> <p>(apa25-highres-q4-Ep4 (Obs 133)) Informational (Form): The Visit Planner and Spike may produce different schedulability results.</p>										
Fixed Targets	#	Name	Target Coordinates			Targ. Coord. Corrections			Miscellaneous		
	(2)	rxcj2211_lrd	RA: 22 11 46.6368 (332.9443200d) Dec: -03 49 39.65 (-3.82768d) Equinox: J2000								
	<i>Comments: Description=[]</i>										
Acquisition	#	Reference Star Bin	Target	Filter	MSA Configuration	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Exposure Time	Optional ETC ID
	1		SAME	F140X	Auto Acq MSA Config	NRSRAPID	3	1	4	171.788	
Template	TA Method	HFF Readout Mode	Obtain Confirmation Images	Science Aperture	Primary Candidate List	Filler Candidate List	Spectral Overlap Map	Spectral Overlap Threshold			
	MSATA	false	No	MSA Center	rxcj2211_lrd (13 sources)		rwst-nirspec-g395h	1.5			
Reference Stars											
Spectral Elements	#	Exposure Specification	MSA Configuration	Nod Pattern	Pointing	Aperture PA	Dispersion Offset (Shutters)	Cross-Dispersion Offset (Shutters)	Total Dithers	Total Integrations	Total Exposure Time
	1	1 (G395H/F290LP)	c1	3 Shutter Slitlet	332.941177875 Degrees - 3.808897222222 424 Degrees	25.000246853495 664			3	6	7090.201
	2	1 (G395H/F290LP)	c2	3 Shutter Slitlet	332.93948166666 667 Degrees - 3.802398055555 568 Degrees	25.000372813963 76			3	6	7090.201

Proposal 10005 - Observation 133 - Little Red Dots in a Time (Delay) Machine: Monitoring Gravitationally Lensed, Multiply Imaged LR...

Special Requirements

MSA Planned Aperture PA 25.0000 to 25.0000 Degrees (V3 246.42543030000002 to 246.42543030000002)

Sequence Observations 131, 132, 133, Non-interruptible
Same V3 PA 131, 132, 133 (Aperture PAs differ)