



7519 - How do dark matter halos connect with supermassive black holes and their host galaxies?

Cycle: 4, Proposal Category: GO

INVESTIGATORS

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Dr. John David Silverman (CoI)	The Johns Hopkins University
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OBSERVATIONS

<i>Folder</i>	<i>Observation</i>	<i>Label</i>	<i>Observing Template</i>	<i>Science Target</i>
Observation Folder				
	1		NIRCam Wide Field Slitless Spectroscopy	(1) J0217m0208
	2		NIRCam Wide Field Slitless Spectroscopy	(2) J0844m0132
	3		NIRCam Wide Field Slitless Spectroscopy	(3) J0844m0052
	4		NIRCam Wide Field Slitless Spectroscopy	(4) J0911p0152
	5		NIRCam Wide Field Slitless Spectroscopy	(5) J0918p0139
	6		NIRCam Wide Field Slitless Spectroscopy	(6) J1146p0124

<i>Folder</i>	<i>Observation</i>	<i>Label</i>	<i>Observing Template</i>	<i>Science Target</i>
7			NIRCam Wide Field Slitless Spectroscopy	(7) J1146m0005
8			NIRCam Wide Field Slitless Spectroscopy	(8) J1425m0015
9			NIRCam Wide Field Slitless Spectroscopy	(9) J1512p4422
10			NIRCam Wide Field Slitless Spectroscopy	(10) J1525p4303
11			NIRCam Wide Field Slitless Spectroscopy	(11) J2236p0032
12			NIRCam Wide Field Slitless Spectroscopy	(12) J2255p0251

ABSTRACT

JWST NIRCam WFSS observations have played an important role in measuring the dark matter halo (DMH) mass of high- z quasars but these measurements are limited to bright quasars. We propose NIRCam WFSS observations to identify [O III] emitters around 12 faint quasars at $z \sim 6$. Our targets have been well studied with JWST NIRCam and NIRSpec observations, and the stellar mass and black hole mass relation appears to be consistent with the local relation. In this new effort, we will measure the average DMH mass from the cross-correlation analysis of quasars and surrounding [O III] emitters, and evaluate the DMH mass probability density function for individual quasars based on cosmological simulations. This program will allow us, for the first time, to obtain a quasar sample in which the black hole mass, stellar mass, and halo mass are all measured simultaneously. This sample will reveal their lifetime and the scaling relations in the early universe, underling the SMBH growth of SMBHs over cosmic time.

OBSERVING DESCRIPTION

We propose NIRCam WFSS observations with the F360M filter to identify the galaxies surrounding 12 low-luminosity quasars at $z \sim 6$ using [O III] emission line (3.54-3.70 μm in the observed frame). The dark matter halo mass of these low-luminosity quasars is obtained by the cross-correlation analysis between them and surrounding galaxies. In addition to the clustering analysis, the probability density function of the DMH mass of individual quasars is evaluated based on the galaxy overdensity compared with cosmological simulations. We will identify [O III] emitters with $> 3.5 \times 10^{-18} \text{ erg/s/cm}^2$ with about 14,000-s exposure for each single target. Including overhead, the NIRCam WFSS observations requires about 3.9 hours for each quasar field. In total, we request 47.2 hours to achieve our science goals.

Proposal 7519 - Targets - How do dark matter halos connect with supermassive black holes and their host galaxies?

#	Name	Target Coordinates	Targ. Coord. Corrections	Miscellaneous
(1)	J0217m0208	RA: 02 17 21.5900 (34.3399583d) Dec: -02 08 52.60 (-2.14794d) Equinox: J2000	Epoch of Position: 2000	
<p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> Category=Galaxy Description=[Quasar-galaxy pairs, Quasars]</p>				
(2)	J0844m0132	RA: 08 44 8.6100 (131.0358750d) Dec: -01 32 16.50 (-1.53792d) Equinox: J2000	Epoch of Position: 2000	
<p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> Category=Galaxy Description=[Quasar-galaxy pairs, Quasars]</p>				
(3)	J0844m0052	RA: 08 44 31.6000 (131.1316667d) Dec: -00 52 54.60 (-.88183d) Equinox: J2000	Epoch of Position: 2000	
<p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> Category=Galaxy Description=[Quasar-galaxy pairs, Quasars]</p>				
(4)	J0911p0152	RA: 09 11 14.2700 (137.8094583d) Dec: +01 52 19.40 (1.87206d) Equinox: J2000	Epoch of Position: 2000	
<p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> Category=Galaxy Description=[Quasar-galaxy pairs, Quasars]</p>				
(5)	J0918p0139	RA: 09 18 33.1700 (139.6382083d) Dec: +01 39 23.40 (1.65650d) Equinox: J2000	Epoch of Position: 2000	
<p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> Category=Galaxy Description=[Quasar-galaxy pairs, Quasars]</p>				
(6)	J1146p0124	RA: 11 46 48.4200 (176.7017500d) Dec: +01 24 20.10 (1.40558d) Equinox: J2000	Epoch of Position: 2000	
<p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> Category=Galaxy Description=[Quasar-galaxy pairs, Quasars]</p>				
(7)	J1146m0005	RA: 11 46 58.8900 (176.7453750d) Dec: -00 05 37.70 (-.09381d) Equinox: J2000	Epoch of Position: 2000	
<p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> Category=Galaxy Description=[Quasar-galaxy pairs, Quasars]</p>				
(8)	J1425m0015	RA: 14 25 17.7200 (216.3238333d) Dec: -00 15 40.80 (-.26133d) Equinox: J2000	Epoch of Position: 2000	
<p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> Category=Galaxy Description=[Quasar-galaxy pairs, Quasars]</p>				

Fixed Targets

Proposal 7519 - Targets - How do dark matter halos connect with supermassive black holes and their host galaxies?

(9)	J1512p4422	RA: 15 12 48.7100 (228.2029583d) Dec: +44 22 17.50 (44.37153d) Equinox: J2000	Epoch of Position: 2000
<p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> Category=Galaxy Description=[Quasar-galaxy pairs, Quasars]</p>			
(10)	J1525p4303	RA: 15 25 55.7900 (231.4824583d) Dec: +43 03 24.00 (43.05667d) Equinox: J2000	Epoch of Position: 2000
<p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> Category=Galaxy Description=[Quasar-galaxy pairs, Quasars]</p>			
(11)	J2236p0032	RA: 22 36 44.5800 (339.1857500d) Dec: +00 32 56.90 (.54914d) Equinox: J2000	Epoch of Position: 2000
<p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> Category=Galaxy Description=[Quasar-galaxy pairs, Quasars]</p>			
(12)	J2255p0251	RA: 22 55 38.0400 (343.9085000d) Dec: +02 51 26.60 (2.85739d) Equinox: J2000	Epoch of Position: 2000
<p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> Category=Galaxy Description=[Quasar-galaxy pairs, Quasars]</p>			

Proposal 7519 - Observation 1 - How do dark matter halos connect with supermassive black holes and their host galaxies?

Tue Mar 10 19:00:10 GMT 2026

Observation	Proposal 7519, Observation 1 Diagnostic Status: Warning Observing Template: NIRCam Wide Field Slitless Spectroscopy											
	(Observation 1) Warning (Form): Use of only one of GRISMR or GRISMC may result in spectral overlap from multiple sources that can't be corrected. Users should address this issue in their proposal text. (Visit 1:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.											
Fixed Targets	#	Name	Target Coordinates			Targ. Coord. Corrections			Miscellaneous			
	(1)	J0217m0208	RA: 02 17 21.5900 (34.3399583d) Dec: -02 08 52.60 (-2.14794d) Equinox: J2000			Epoch of Position: 2000						
<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> Category=Galaxy Description=[Quasar-galaxy pairs, Quasars]												
Template	Module		Subarray			Grism (Long Wavelength)			Target Placement			
	ALL		FULL			GRISMR			Module A center (small extended source)			
Dithers	#	Primary Dither Type				Primary Dithers			Subpixel Positions			
	1	INTRAMODULEBOX				4			4-Point			
Direct Image	#	Short Filter	Long Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Exposure Time	Optional ETC ID	Grism (Long Wavelength)	Exposure Type	Total Dithers
	1	F200W	F300M	SHALLOW4	10	1	1	526.102		GRISMR	Direct Image	1
Spectral Elements	#	Short Filter	Long Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Exposure Time	Optional ETC ID	Grism (Long Wavelength)	Exposure Type	Total Dithers
	1	F200W	F360M	SHALLOW4	8	1	16	6699.744		GRISMR	Grism (Long Wavelength)	16
	2	F200W	F300M	SHALLOW4	10	1	2	1052.203			Out of Field	2

Proposal 7519 - Observation 1 - How do dark matter halos connect with supermassive black holes and their host galaxies?

Special Requirements

Fiducial Point Override NRCAS_FULL

Proposal 7519 - Observation 2 - How do dark matter halos connect with supermassive black holes and their host galaxies?

Tue Mar 10 19:00:10 GMT 2026

Observation	Proposal 7519, Observation 2 Diagnostic Status: Warning Observing Template: NIRCam Wide Field Slitless Spectroscopy											
	(Observation 2) Warning (Form): Use of only one of GRISM or GRISM may result in spectral overlap from multiple sources that can't be corrected. Users should address this issue in their proposal text. (Visit 2:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.											
Fixed Targets	#	Name	Target Coordinates			Targ. Coord. Corrections			Miscellaneous			
	(2)	J0844m0132	RA: 08 44 8.6100 (131.0358750d) Dec: -01 32 16.50 (-1.53792d) Equinox: J2000			Epoch of Position: 2000						
<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> Category=Galaxy Description=[Quasar-galaxy pairs, Quasars]												
Template	Module		Subarray			Grism (Long Wavelength)			Target Placement			
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Dithers	#	Primary Dither Type				Primary Dithers			Subpixel Positions			
	1	INTRAMODULEBOX				4			4-Point			
Direct Image	#	Short Filter	Long Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Exposure Time	Optional ETC ID	Grism (Long Wavelength)	Exposure Type	Total Dithers
	1	F200W	F300M	SHALLOW4	10	1	1	526.102		GRISM	Direct Image	1
Spectral Elements	#	Short Filter	Long Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Exposure Time	Optional ETC ID	Grism (Long Wavelength)	Exposure Type	Total Dithers
	1	F200W	F360M	SHALLOW4	8	1	16	6699.744		GRISM	Grism (Long Wavelength)	16
	2	F200W	F300M	SHALLOW4	10	1	2	1052.203			Out of Field	2

Proposal 7519 - Observation 2 - How do dark matter halos connect with supermassive black holes and their host galaxies?

Special Requirements

Fiducial Point Override NRCAS_FULL

Proposal 7519 - Observation 3 - How do dark matter halos connect with supermassive black holes and their host galaxies?

Tue Mar 10 19:00:10 GMT 2026

Observation	Proposal 7519, Observation 3 Diagnostic Status: Warning Observing Template: NIRCam Wide Field Slitless Spectroscopy																																														
	(Observation 3) Warning (Form): Use of only one of GRISM or GRISM may result in spectral overlap from multiple sources that can't be corrected. Users should address this issue in their proposal text. (Visit 3:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.																																														
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>(3)</td> <td>J0844m0052</td> <td>RA: 08 44 31.6000 (131.1316667d) Dec: -00 52 54.60 (-.88183d) Equinox: J2000</td> <td>Epoch of Position: 2000</td> <td></td> </tr> </tbody> </table> <p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> Category=Galaxy Description=[Quasar-galaxy pairs, Quasars]</p>											#	Name	Target Coordinates	Targ. Coord. Corrections	Miscellaneous	(3)	J0844m0052	RA: 08 44 31.6000 (131.1316667d) Dec: -00 52 54.60 (-.88183d) Equinox: J2000	Epoch of Position: 2000																											
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Spectral Elements	<table border="1"> <thead> <tr> <th>#</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 Exposure Time</th> <th>Optional ETC ID</th> <th>Grism (Long Wavelength)</th> <th>Exposure Type</th> <th>Total Dithers</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>F200W</td> <td>F360M</td> <td>SHALLOW4</td> <td>8</td> <td>1</td> <td>16</td> <td>6699.744</td> <td></td> <td>GRISM</td> <td>Grism (Long Wavelength)</td> <td>16</td> </tr> <tr> <td>2</td> <td>F200W</td> <td>F300M</td> <td>SHALLOW4</td> <td>10</td> <td>1</td> <td>2</td> <td>1052.203</td> <td></td> <td></td> <td>Out of Field</td> <td>2</td> </tr> </tbody> </table>											#	Short Filter	Long Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Exposure Time	Optional ETC ID	Grism (Long Wavelength)	Exposure Type	Total Dithers	1	F200W	F360M	SHALLOW4	8	1	16	6699.744		GRISM	Grism (Long Wavelength)	16	2	F200W	F300M	SHALLOW4	10	1	2	1052.203			Out of Field	2
	#	Short Filter	Long Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Exposure Time	Optional ETC ID	Grism (Long Wavelength)	Exposure Type	Total Dithers																																			
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2	F200W	F300M	SHALLOW4	10	1	2	1052.203			Out of Field	2																																				

Proposal 7519 - Observation 3 - How do dark matter halos connect with supermassive black holes and their host galaxies?

Special Requirements

Fiducial Point Override NRCAS_FULL

Proposal 7519 - Observation 4 - How do dark matter halos connect with supermassive black holes and their host galaxies?

Tue Mar 10 19:00:10 GMT 2026

Observation	Proposal 7519, Observation 4 Diagnostic Status: Warning Observing Template: NIRCam Wide Field Slitless Spectroscopy											
	(Observation 4) Warning (Form): Use of only one of GRISM or GRISM may result in spectral overlap from multiple sources that can't be corrected. Users should address this issue in their proposal text. (Visit 4:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.											
Fixed Targets	#	Name	Target Coordinates			Targ. Coord. Corrections			Miscellaneous			
	(4)	J0911p0152	RA: 09 11 14.2700 (137.8094583d) Dec: +01 52 19.40 (1.87206d) Equinox: J2000			Epoch of Position: 2000						
<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> Category=Galaxy Description=[Quasar-galaxy pairs, Quasars]												
Template	Module		Subarray			Grism (Long Wavelength)			Target Placement			
	ALL		FULL			GRISM			Module A center (small extended source)			
Dithers	#	Primary Dither Type				Primary Dithers			Subpixel Positions			
	1	INTRAMODULEBOX				4			4-Point			
Direct Image	#	Short Filter	Long Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Exposure Time	Optional ETC ID	Grism (Long Wavelength)	Exposure Type	Total Dithers
	1	F200W	F300M	SHALLOW4	10	1	1	526.102		GRISM	Direct Image	1
Spectral Elements	#	Short Filter	Long Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Exposure Time	Optional ETC ID	Grism (Long Wavelength)	Exposure Type	Total Dithers
	1	F200W	F360M	SHALLOW4	8	1	16	6699.744		GRISM	Grism (Long Wavelength)	16
	2	F200W	F300M	SHALLOW4	10	1	2	1052.203			Out of Field	2

Proposal 7519 - Observation 4 - How do dark matter halos connect with supermassive black holes and their host galaxies?

Special Requirements

Fiducial Point Override NRCAS_FULL

Proposal 7519 - Observation 5 - How do dark matter halos connect with supermassive black holes and their host galaxies?

Tue Mar 10 19:00:10 GMT 2026

Observation	Proposal 7519, Observation 5 Diagnostic Status: Warning Observing Template: NIRCam Wide Field Slitless Spectroscopy											
	(Observation 5) Warning (Form): Use of only one of GRISMR or GRISMC may result in spectral overlap from multiple sources that can't be corrected. Users should address this issue in their proposal text. (Visit 5:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.											
Fixed Targets	#	Name	Target Coordinates			Targ. Coord. Corrections			Miscellaneous			
	(5)	J0918p0139	RA: 09 18 33.1700 (139.6382083d) Dec: +01 39 23.40 (1.65650d) Equinox: J2000			Epoch of Position: 2000						
<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> Category=Galaxy Description=[Quasar-galaxy pairs, Quasars]												
Template	Module		Subarray			Grism (Long Wavelength)			Target Placement			
	ALL		FULL			GRISMR			Module A center (small extended source)			
Dithers	#	Primary Dither Type				Primary Dithers			Subpixel Positions			
	1	INTRAMODULEBOX				4			4-Point			
Direct Image	#	Short Filter	Long Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Exposure Time	Optional ETC ID	Grism (Long Wavelength)	Exposure Type	Total Dithers
	1	F200W	F300M	SHALLOW4	10	1	1	526.102		GRISMR	Direct Image	1
Spectral Elements	#	Short Filter	Long Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Exposure Time	Optional ETC ID	Grism (Long Wavelength)	Exposure Type	Total Dithers
	1	F200W	F360M	SHALLOW4	8	1	16	6699.744		GRISMR	Grism (Long Wavelength)	16
	2	F200W	F300M	SHALLOW4	10	1	2	1052.203			Out of Field	2

Proposal 7519 - Observation 5 - How do dark matter halos connect with supermassive black holes and their host galaxies?

Special Requirements

Fiducial Point Override NRCAS_FULL

Proposal 7519 - Observation 6 - How do dark matter halos connect with supermassive black holes and their host galaxies?

Tue Mar 10 19:00:10 GMT 2026

Observation	Proposal 7519, Observation 6 Diagnostic Status: Warning Observing Template: NIRCam Wide Field Slitless Spectroscopy																				
	(Observation 6) Warning (Form): Use of only one of GRISMR or GRISMC may result in spectral overlap from multiple sources that can't be corrected. Users should address this issue in their proposal text. (Visit 6:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.																				
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>(6)</td> <td>J1146p0124</td> <td>RA: 11 46 48.4200 (176.7017500d) Dec: +01 24 20.10 (1.40558d) Equinox: J2000</td> <td>Epoch of Position: 2000</td> <td></td> </tr> </tbody> </table>	#	Name	Target Coordinates	Targ. Coord. Corrections	Miscellaneous	(6)	J1146p0124	RA: 11 46 48.4200 (176.7017500d) Dec: +01 24 20.10 (1.40558d) Equinox: J2000	Epoch of Position: 2000		<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> Category=Galaxy Description=[Quasar-galaxy pairs, Quasars]									
	#	Name	Target Coordinates	Targ. Coord. Corrections	Miscellaneous																
(6)	J1146p0124	RA: 11 46 48.4200 (176.7017500d) Dec: +01 24 20.10 (1.40558d) Equinox: J2000	Epoch of Position: 2000																		
Template	Module		Subarray				Grism (Long Wavelength)														
	A		FULL				GRISMR														
Dithers	#	Primary Dither Type				Primary Dithers			Subpixel Positions												
	1	INTRAMODULEBOX				4			4-Point												
Direct Image	#	Short Filter	Long Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Exposure Time	Optional ETC ID	Grism (Long Wavelength)	Exposure Type	Total Dithers									
	1	F200W	F300M	SHALLOW4	10	1	1	526.102		GRISMR	Direct Image	1									
Spectral Elements	#	Short Filter	Long Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Exposure Time	Optional ETC ID	Grism (Long Wavelength)	Exposure Type	Total Dithers									
	1	F200W	F360M	SHALLOW4	8	1	16	6699.744		GRISMR	Grism (Long Wavelength)	16									
	2	F200W	F300M	SHALLOW4	10	1	2	1052.203			Out of Field	2									

Proposal 7519 - Observation 7 - How do dark matter halos connect with supermassive black holes and their host galaxies?

Tue Mar 10 19:00:10 GMT 2026

Observation	Proposal 7519, Observation 7 Diagnostic Status: Warning Observing Template: NIRCam Wide Field Slitless Spectroscopy											
	(Observation 7) Warning (Form): Use of only one of GRISMR or GRISMC may result in spectral overlap from multiple sources that can't be corrected. Users should address this issue in their proposal text. (Visit 7:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.											
Fixed Targets	#	Name	Target Coordinates			Targ. Coord. Corrections			Miscellaneous			
	(7)	J1146m0005	RA: 11 46 58.8900 (176.7453750d) Dec: -00 05 37.70 (-.09381d) Equinox: J2000			Epoch of Position: 2000						
<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> <i>Category=Galaxy</i> <i>Description=[Quasar-galaxy pairs, Quasars]</i>												
Template	Module		Subarray			Grism (Long Wavelength)			Target Placement			
	ALL		FULL			GRISMR			Module A center (small extended source)			
Dithers	#	Primary Dither Type				Primary Dithers			Subpixel Positions			
	1	INTRAMODULEBOX				4			4-Point			
Direct Image	#	Short Filter	Long Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Exposure Time	Optional ETC ID	Grism (Long Wavelength)	Exposure Type	Total Dithers
	1	F200W	F300M	SHALLOW4	10	1	1	526.102		GRISMR	Direct Image	1
Spectral Elements	#	Short Filter	Long Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Exposure Time	Optional ETC ID	Grism (Long Wavelength)	Exposure Type	Total Dithers
	1	F200W	F360M	SHALLOW4	8	1	16	6699.744		GRISMR	Grism (Long Wavelength)	16
	2	F200W	F300M	SHALLOW4	10	1	2	1052.203			Out of Field	2

Proposal 7519 - Observation 7 - How do dark matter halos connect with supermassive black holes and their host galaxies?

Special Requirements

Fiducial Point Override NRCAS_FULL

Proposal 7519 - Observation 8 - How do dark matter halos connect with supermassive black holes and their host galaxies?

Tue Mar 10 19:00:10 GMT 2026

Observation	Proposal 7519, Observation 8 Diagnostic Status: Warning Observing Template: NIRCam Wide Field Slitless Spectroscopy																																															
	(Observation 8) Warning (Form): Use of only one of GRISMR or GRISMC may result in spectral overlap from multiple sources that can't be corrected. Users should address this issue in their proposal text. (Visit 8:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.																																															
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Proposal 7519 - Observation 8 - How do dark matter halos connect with supermassive black holes and their host galaxies?

Special Requirements

Fiducial Point Override NRCAS_FULL

Proposal 7519 - Observation 9 - How do dark matter halos connect with supermassive black holes and their host galaxies?

Tue Mar 10 19:00:10 GMT 2026

Observation	Proposal 7519, Observation 9 Diagnostic Status: Warning Observing Template: NIRCam Wide Field Slitless Spectroscopy											
	(Observation 9) Warning (Form): Use of only one of GRISMR or GRISMC may result in spectral overlap from multiple sources that can't be corrected. Users should address this issue in their proposal text. (Visit 9:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.											
Fixed Targets	#	Name	Target Coordinates			Targ. Coord. Corrections			Miscellaneous			
	(9)	J1512p4422	RA: 15 12 48.7100 (228.2029583d) Dec: +44 22 17.50 (44.37153d) Equinox: J2000			Epoch of Position: 2000						
<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> Category=Galaxy Description=[Quasar-galaxy pairs, Quasars]												
Template	Module		Subarray			Grism (Long Wavelength)			Target Placement			
	ALL		FULL			GRISMR			Module A center (small extended source)			
Dithers	#	Primary Dither Type				Primary Dithers			Subpixel Positions			
	1	INTRAMODULEBOX				4			4-Point			
Direct Image	#	Short Filter	Long Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Exposure Time	Optional ETC ID	Grism (Long Wavelength)	Exposure Type	Total Dithers
	1	F200W	F300M	SHALLOW4	10	1	1	526.102		GRISMR	Direct Image	1
Spectral Elements	#	Short Filter	Long Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Exposure Time	Optional ETC ID	Grism (Long Wavelength)	Exposure Type	Total Dithers
	1	F200W	F360M	SHALLOW4	8	1	16	6699.744		GRISMR	Grism (Long Wavelength)	16
	2	F200W	F300M	SHALLOW4	10	1	2	1052.203			Out of Field	2

Proposal 7519 - Observation 9 - How do dark matter halos connect with supermassive black holes and their host galaxies?

Special Requirements

Fiducial Point Override NRCAS_FULL

Proposal 7519 - Observation 10 - How do dark matter halos connect with supermassive black holes and their host galaxies?

Tue Mar 10 19:00:10 GMT 2026

Observation	Proposal 7519, Observation 10 Diagnostic Status: Warning Observing Template: NIRCam Wide Field Slitless Spectroscopy																																														
	(Observation 10) Warning (Form): Use of only one of GRISMR or GRISMC may result in spectral overlap from multiple sources that can't be corrected. Users should address this issue in their proposal text. (Visit 10:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.																																														
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Proposal 7519 - Observation 10 - How do dark matter halos connect with supermassive black holes and their host galaxies?

Special Requirements

Fiducial Point Override NRCAS_FULL

Proposal 7519 - Observation 11 - How do dark matter halos connect with supermassive black holes and their host galaxies?

Tue Mar 10 19:00:10 GMT 2026

Observation	Proposal 7519, Observation 11 Diagnostic Status: Warning Observing Template: NIRCam Wide Field Slitless Spectroscopy																																															
	(Observation 11) Warning (Form): Use of only one of GRISMR or GRISMC may result in spectral overlap from multiple sources that can't be corrected. Users should address this issue in their proposal text. (Visit 11:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.																																															
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Proposal 7519 - Observation 11 - How do dark matter halos connect with supermassive black holes and their host galaxies?

Special Requirements

Fiducial Point Override NRCAS_FULL

Proposal 7519 - Observation 12 - How do dark matter halos connect with supermassive black holes and their host galaxies?

Tue Mar 10 19:00:10 GMT 2026

Observation	Proposal 7519, Observation 12 Diagnostic Status: Warning Observing Template: NIRCam Wide Field Slitless Spectroscopy											
	(Observation 12) Warning (Form): Use of only one of GRISMR or GRISMC may result in spectral overlap from multiple sources that can't be corrected. Users should address this issue in their proposal text. (Visit 12:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.											
Fixed Targets	#	Name	Target Coordinates			Targ. Coord. Corrections			Miscellaneous			
	(12)	J2255p0251	RA: 22 55 38.0400 (343.9085000d) Dec: +02 51 26.60 (2.85739d) Equinox: J2000			Epoch of Position: 2000						
<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> Category=Galaxy Description=[Quasar-galaxy pairs, Quasars]												
Template	Module		Subarray			Grism (Long Wavelength)			Target Placement			
	ALL		FULL			GRISMR			Module A center (small extended source)			
Dithers	#	Primary Dither Type				Primary Dithers			Subpixel Positions			
	1	INTRAMODULEBOX				4			4-Point			
Direct Image	#	Short Filter	Long Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Exposure Time	Optional ETC ID	Grism (Long Wavelength)	Exposure Type	Total Dithers
	1	F200W	F300M	SHALLOW4	10	1	1	526.102		GRISMR	Direct Image	1
Spectral Elements	#	Short Filter	Long Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Exposure Time	Optional ETC ID	Grism (Long Wavelength)	Exposure Type	Total Dithers
	1	F200W	F360M	SHALLOW4	8	1	16	6699.744		GRISMR	Grism (Long Wavelength)	16
	2	F200W	F300M	SHALLOW4	10	1	2	1052.203			Out of Field	2

Proposal 7519 - Observation 12 - How do dark matter halos connect with supermassive black holes and their host galaxies?

Special Requirements

Fiducial Point Override NRCAS_FULL