



# 7076 - A comprehensive population study of Little Red Dots: Connecting early BH and galaxy growth

Cycle: 4, Proposal Category: GO

## INVESTIGATORS

<i>Name</i>	<i>Institution</i>
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Dr. Jeyhan Kartaltepe (CoI)	Rochester Institute of Technology
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Prof. Arianna Long (CoI)	University of Washington
Dr. Olivia Cooper (CoI)	CU Boulder
Dr. Santosh Harish (CoI)	Space Telescope Science Institute
Dr. Jorge Zavala (CoI)	University of Massachusetts - Amherst
Dr. Lilan Yang (CoI)	Rochester Institute of Technology
Prof. Xuheng Ding (CoI)	Wuhan University
Yiyang Zhang (CoI)	Wuhan University

**OBSERVATIONS**

<i>Folder</i>	<i>Observation</i>	<i>Label</i>	<i>Observing Template</i>	<i>Science Target</i>
COSMOS				
	1	cos_p1	NIRSpec MultiObject Spectroscopy	(17) ember_obs1_msa
	2	cos_p2	NIRSpec MultiObject Spectroscopy	(37) ember_obs2_msa
	3	cos_p3	NIRSpec MultiObject Spectroscopy	(15) ember_obs3_msa
	4	cos_p4	NIRSpec MultiObject Spectroscopy	(21) ember_obs4_msa
	5	cos_p5	NIRSpec MultiObject Spectroscopy	(18) ember_obs5_msa
	6	cos_p6	NIRSpec MultiObject Spectroscopy	(41) ember_obs6_msa
	7	cos_p7	NIRSpec MultiObject Spectroscopy	(36) ember_obs7_msa
	8	cos_p8	NIRSpec MultiObject Spectroscopy	(35) ember_obs8_msa
	9	cos_p9	NIRSpec MultiObject Spectroscopy	(40) ember_obs9_msa
	10	cos_p10	NIRSpec MultiObject Spectroscopy	(26) ember_obs10_msa
	11	cos_p11	NIRSpec MultiObject Spectroscopy	(39) ember_obs11_msa
	12	cos_p12	NIRSpec MultiObject Spectroscopy	(20) ember_obs12_msa
	13	cos_p13	NIRSpec MultiObject Spectroscopy	(19) ember_obs13_msa
	14	cos_p14	NIRSpec MultiObject Spectroscopy	(16) ember_obs14_msa
	15	cos_p15	NIRSpec MultiObject Spectroscopy	(38) ember_obs15_msa
UDS				
	16	uds_p1p	NIRSpec MultiObject Spectroscopy	(10) ember_obs16_uds_p1_msa
	17	uds_p2	NIRSpec MultiObject Spectroscopy	(6) msa_cat_uds_thin_v1
	18	uds_p3	NIRSpec MultiObject Spectroscopy	(22) ember_obs18_uds_p3_msa

<i>Folder</i>	<i>Observation</i>	<i>Label</i>	<i>Observing Template</i>	<i>Science Target</i>
	19	uds_p4p	NIRSpec MultiObject Spectroscopy	(11) ember_obs19_uds_p4_msa
EGS				
	20	egs_p1	NIRSpec MultiObject Spectroscopy	(23) ember_obs20_egs_p1_msa
GDS				
	23	gds_p1p	NIRSpec MultiObject Spectroscopy	(12) ember_obs23_gds_p1_msa
	24	gds_p1_repeat	NIRSpec MultiObject Spectroscopy	(12) ember_obs23_gds_p1_msa

## ABSTRACT

JWST has revealed a previously unknown population of dust-reddened active galactic nuclei (AGN) in the early universe, raising questions about the abundance of supermassive black holes in the epoch of reionization and the typical growth mechanisms and seed populations. These "little red dots" may represent a transition phase from obscured, rapidly accreting BH seeds to unobscured, blue quasars, but the properties of the AGN and their host galaxies remain unclear. LRDs generally do not exhibit common AGN signatures, and some may be dominated by host galaxy emission. We propose an efficient and comprehensive NIRSpec follow-up program targeting LRDs, obtaining uniform PRISM+G395M spectroscopy for ~100 of the brightest and highest-redshift LRDs discovered by JWST, particularly those with MIRI coverage at >10 micron. With these data we will be able to disentangle the heterogeneous LRD population and:

- 1) Search for outflows and high-ionization lines to determine the nature of LRD obscuration
- 2) Measure black hole and stellar masses and examine implications for LCDM and BH seeding scenarios
- 3) Measure number densities of LRDs with secure redshifts, and bolometric luminosities over a large volume

The proposed data will facilitate comprehensive analysis of the LRDs as a population, cross-correlating various observables to test key predictions from different interpretations, providing valuable insight into their role in early galaxy/SMBH growth.

## OBSERVING DESCRIPTION

The goal of this program is to obtain uniform spectroscopy of a large sample of LRDs at  $z \sim 4-9$ . We will do so using NIRSpec in MOS mode with the PRISM/CLEAR and G395M/F290LP gratings. The PRISM covers a wavelength range from 0.6-5.3 micron at a resolution of  $R \sim 100$ , allowing detection of faint lines and continuum features. G395M covers a wavelength range from 2.87-5.10 micron at a resolution of  $R \sim 1000$ , allowing detections of broad Ha/Hb lines across a wide redshift range. We draw our targets from a parent sample of LRDs constructed from the union of published photometric samples across COSMOS, UDS, EGS, and GOODS-S, and assign target priority based on the colors/magnitudes/redshifts, prioritizing the brightest, reddest, and highest-redshift sources. The proposed MSA configurations yield a total of 175 LRD targets on slits, including 100 highest priority targets, with an average of ~8 per mask. We will also obtain spectra for ~4000 filler targets, which will be selected from samples

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of high-redshift galaxies/AGN to maximize the legacy value of the program.

For the PRISM we will observe with 24 groups of 1 integration with 3 nod in slit exposures and a NRSIRS2 readout pattern, resulting in a total exposure time of 1.5 hr per pointing. We expect to detect continuum down to 27.4 AB mag (5sigma) and faint lines down to  $\sim 1e-18$  erg/s/cm<sup>2</sup>/Å (3sigma) with the PRISM. For G395M we use 15 groups of 1 integrations with 3 nod in slit exposures, for an exposure time of 55mins, which we expect to allow detection of broad Ha/Hb down to  $MBH \sim 3e6$  Msun.

Proposal 7076 - Targets - A comprehensive population study of Little Red Dots: Connecting early BH and galaxy growth

#	Name	Target Coordinates	Targ. Coord. Corrections	Miscellaneous
(6)	msa_cat_uds_thin_v1	RA: 02 17 29.6568 (34.3735700d) Dec: -05 11 25.64 (-5.19046d) Equinox: J2000		
<i>Comments:</i> <i>Description=[]</i>				
(8)	msa_cat_cos_thin_v1	RA: 10 00 28.7255 (150.1196896d) Dec: +02 15 0.49 (2.25014d) Equinox: J2000		
<i>Comments:</i> <i>Description=[]</i>				
(10)	ember_obs16_uds_p1_msa	RA: 02 17 18.7373 (34.3280721d) Dec: -05 11 6.12 (-5.18503d) Equinox: J2000		
<i>Comments:</i> <i>Description=[]</i>				
(11)	ember_obs19_uds_p4_msa	RA: 02 17 46.7341 (34.4447254d) Dec: -05 07 28.02 (-5.12445d) Equinox: J2000		
<i>Comments:</i> <i>Description=[]</i>				
(12)	ember_obs23_gds_p1_msa	RA: 03 32 35.8116 (53.1492150d) Dec: -27 47 19.09 (-27.78864d) Equinox: J2000		
<i>Comments:</i> <i>Description=[]</i>				
(15)	ember_obs3_msa	RA: 09 59 44.7018 (149.9362575d) Dec: +02 22 58.89 (2.38302d) Equinox: J2000		
<i>Comments:</i> <i>Description=[]</i>				
(16)	ember_obs14_msa	RA: 09 59 23.5992 (149.8483300d) Dec: +02 09 15.37 (2.15427d) Equinox: J2000		
<i>Comments:</i> <i>Description=[]</i>				
(17)	ember_obs1_msa	RA: 10 00 16.3254 (150.0680225d) Dec: +02 25 36.07 (2.42669d) Equinox: J2000		
<i>Comments:</i> <i>Description=[]</i>				
(18)	ember_obs5_msa	RA: 09 59 34.2148 (149.8925617d) Dec: +02 17 23.92 (2.28998d) Equinox: J2000		
<i>Comments:</i> <i>Description=[]</i>				

Fixed Targets

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(19)	ember_obs13_msa	RA: 10 00 42.5419 (150.1772579d) Dec: +02 05 14.20 (2.08728d) Equinox: J2000
<i>Comments:</i> <i>Description=[]</i>		
(20)	ember_obs12_msa	RA: 10 01 6.2110 (150.2758792d) Dec: +02 11 51.73 (2.19770d) Equinox: J2000
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(22)	ember_obs18_uds_p3_msa	RA: 02 17 34.4938 (34.3937242d) Dec: -05 16 35.28 (-5.27647d) Equinox: J2000
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(23)	ember_obs20_egs_p1_msa	RA: 14 19 43.2538 (214.9302242d) Dec: +52 52 28.56 (52.87460d) Equinox: J2000
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(26)	ember_obs10_msa	RA: 10 01 16.6437 (150.3193488d) Dec: +02 15 22.60 (2.25628d) Equinox: J2000
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(36)	ember_obs7_msa	RA: 10 01 7.1921 (150.2799671d) Dec: +02 25 48.51 (2.43014d) Equinox: J2000
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(37)	ember_obs2_msa	RA: 10 01 32.5193 (150.3854971d) Dec: +02 19 13.27 (2.32035d) Equinox: J2000
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(38)	ember_obs15_msa	RA: 10 01 29.7585 (150.3739938d) Dec: +02 06 35.87 (2.10996d) Equinox: J2000
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(39)	ember_obs11_msa	RA: 09 59 58.7721 (149.9948837d) Dec: +02 07 28.11 (2.12447d) Equinox: J2000
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Proposal 7076 - Observation 1 - A comprehensive population study of Little Red Dots: Connecting early BH and galaxy growth

Fri Mar 06 21:03:49 GMT 2026

<b>Observation</b>	<b>Proposal 7076, Observation 1: cos_p1</b> <b>Diagnostic Status: Warning</b> Observing Template: NIRSpec MultiObject Spectroscopy																																																											
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<b>Fixed Targets</b>	<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>(17)</td> <td>ember_obs1_msa</td> <td>RA: 10 00 16.3254 (150.0680225d) Dec: +02 25 36.07 (2.42669d) Equinox: J2000</td> <td></td> <td></td> </tr> </tbody> </table> Comments: Description=[]										#	Name	Target Coordinates	Targ. Coord. Corrections	Miscellaneous	(17)	ember_obs1_msa	RA: 10 00 16.3254 (150.0680225d) Dec: +02 25 36.07 (2.42669d) Equinox: J2000																																										
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<b>Acquisition</b>	<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>Filter: F140X; Readout: NRSRAPIDD6; 8 sources in 4 quads; [ Optimal TA Accuracy ]</td> <td>SAME</td> <td>F140X</td> <td>Auto Acq MSA Config</td> <td>NRSRAPIDD6</td> <td>3</td> <td>1</td> <td>4</td> <td>687.153</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	Filter: F140X; Readout: NRSRAPIDD6; 8 sources in 4 quads; [ Optimal TA Accuracy ]	SAME	F140X	Auto Acq MSA Config	NRSRAPIDD6	3	1	4	687.153																													
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<b>Template</b>	<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>obs1 priority (5720 sources)</td> <td>obs1 filler grating (16181 sources)</td> <td>rwst-nirspec-hr</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	obs1 priority (5720 sources)	obs1 filler grating (16181 sources)	rwst-nirspec-hr	1.5																																		
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<b>Reference Stars</b>	<table border="1"> <thead> <tr> <th>Visit</th> <th>ID</th> <th>RA</th> <th>Dec</th> <th>Magnitude</th> <th>Visit</th> <th>ID</th> <th>RA</th> <th>Dec</th> <th>Magnitude</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>629638</td> <td>150.087424</td> <td>2.431349</td> <td>24.80162609927374</td> <td>1</td> <td>633927</td> <td>150.064640</td> <td>2.461167</td> <td>22.412923418020934</td> </tr> <tr> <td>1</td> <td>631070</td> <td>150.069874</td> <td>2.445697</td> <td>23.89617148741847</td> <td>1</td> <td>879391</td> <td>150.041895</td> <td>2.441344</td> <td>23.382929480687174</td> </tr> <tr> <td>1</td> <td>632432</td> <td>150.063631</td> <td>2.454655</td> <td>24.18182622369756</td> <td>1</td> <td>885134</td> <td>150.081320</td> <td>2.424173</td> <td>23.761809372229997</td> </tr> <tr> <td>1</td> <td>632762</td> <td>150.071204</td> <td>2.453524</td> <td>24.93674421700769</td> <td>1</td> <td>921051</td> <td>150.055811</td> <td>2.405219</td> <td>23.12494550015614</td> </tr> </tbody> </table>										Visit	ID	RA	Dec	Magnitude	Visit	ID	RA	Dec	Magnitude	1	629638	150.087424	2.431349	24.80162609927374	1	633927	150.064640	2.461167	22.412923418020934	1	631070	150.069874	2.445697	23.89617148741847	1	879391	150.041895	2.441344	23.382929480687174	1	632432	150.063631	2.454655	24.18182622369756	1	885134	150.081320	2.424173	23.761809372229997	1	632762	150.071204	2.453524	24.93674421700769	1	921051	150.055811	2.405219	23.12494550015614
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<b>Spectral Elements</b>	<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 : cos_p1p_100425_v2</td> <td>3 Shutter Slitlet</td> <td>150.06195416666 665 Degrees 2.4295958333333 334 Degrees</td> <td>72.999762909475 44</td> <td></td> <td></td> <td>3</td> <td>6</td> <td>5339.534</td> </tr> <tr> <td>2</td> <td>2 (G395M/F290LP)</td> <td>c1 : cos_p1g_100425_v4</td> <td>3 Shutter Slitlet</td> <td>150.06195416666 665 Degrees 2.4295958333333 334 Degrees</td> <td>72.999762909475 44</td> <td></td> <td></td> <td>3</td> <td>3</td> <td>3326.267</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 : cos_p1p_100425_v2	3 Shutter Slitlet	150.06195416666 665 Degrees 2.4295958333333 334 Degrees	72.999762909475 44			3	6	5339.534	2	2 (G395M/F290LP)	c1 : cos_p1g_100425_v4	3 Shutter Slitlet	150.06195416666 665 Degrees 2.4295958333333 334 Degrees	72.999762909475 44			3	3	3326.267																	
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Proposal 7076 - Observation 1 - A comprehensive population study of Little Red Dots: Connecting early BH and galaxy growth

Special Requirements

Aperture PA Range 73 to 77 Degrees (V3 294.4254303 to 298.4254303)  
MSA Scheduled Aperture PA 73.0000 to 73.0000 Degrees (V3 294.42545 to 294.42545)

Proposal 7076 - Observation 2 - A comprehensive population study of Little Red Dots: Connecting early BH and galaxy growth

Fri Mar 06 21:03:49 GMT 2026

<b>Observation</b>	<b>Proposal 7076, Observation 2: cos_p2</b> <b>Diagnostic Status: Warning</b> Observing Template: NIRSpec MultiObject Spectroscopy																																																											
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Proposal 7076 - Observation 2 - A comprehensive population study of Little Red Dots: Connecting early BH and galaxy growth

Special Requirements

Aperture PA Range 232 to 236 Degrees (V3 93.4254303 to 97.4254303)  
MSA Scheduled Aperture PA 236.0000 to 236.0000 Degrees (V3 97.42543 to 97.42543)

Proposal 7076 - Observation 3 - A comprehensive population study of Little Red Dots: Connecting early BH and galaxy growth

Fri Mar 06 21:03:49 GMT 2026

<b>Observation</b>	<b>Proposal 7076, Observation 3: cos_p3</b> <b>Diagnostic Status: Warning</b> Observing Template: NIRSpec MultiObject Spectroscopy																																																											
	(cos_p3 (Obs 3)) Warning (Form): Config c1 : cos_p3g_092825_v6 (#2) has 1 filler slits affected by failed closed shutters. (cos_p3 (Obs 3)) Warning (Form): Config c1 : cos_p3g_092825_v6 (#2) has 2 primary slits affected by failed closed shutters. (Visit 3:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.																																																											
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Proposal 7076 - Observation 3 - A comprehensive population study of Little Red Dots: Connecting early BH and galaxy growth

Special Requirements

Aperture PA Range 78 to 82 Degrees (V3 299.4254303 to 303.4254303)  
MSA Scheduled Aperture PA 78.0000 to 78.0000 Degrees (V3 299.42545 to 299.42545)

Proposal 7076 - Observation 4 - A comprehensive population study of Little Red Dots: Connecting early BH and galaxy growth

Fri Mar 06 21:03:49 GMT 2026

<b>Observation</b>	<b>Proposal 7076, Observation 4: cos_p4</b> <b>Diagnostic Status: Warning</b> Observing Template: NIRSpec MultiObject Spectroscopy										
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<b>Fixed Targets</b>	<b>#</b>	<b>Name</b>	<b>Target Coordinates</b>			<b>Targ. Coord. Corrections</b>			<b>Miscellaneous</b>		
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<i>Comments: Description=[]</i>											
<b>Acquisition</b>	<b>#</b>	<b>Reference Star Bin</b>	<b>Target</b>	<b>Filter</b>	<b>MSA Configuration</b>	<b>Readout Pattern</b>	<b>Groups/Int</b>	<b>Integrations/Exp</b>	<b>Total Integrations</b>	<b>Total Exposure Time</b>	<b>Optional ETC ID</b>
	1	Filter: CLEAR; Readout: NRSRAPID; 8 sources in 4 quads; [ Optimal TA Accuracy ]	SAME	CLEAR	Auto Acq MSA Config	NRSRAPID	3	1	4	171.788	
<b>Template</b>	<b>TA Method</b>	<b>HFF Readout Mode</b>	<b>Obtain Confirmation Images</b>	<b>Science Aperture</b>	<b>Primary Candidate List</b>	<b>Filler Candidate List</b>	<b>Spectral Overlap Map</b>	<b>Spectral Overlap Threshold</b>			
	MSATA	false	No	MSA Center	obs4 g395m priority (4536 sources)	obs4 g395m filler (12564 sources)	mwst-nirspec-hr	1.5			
<b>Reference Stars</b>	<b>Visit</b>	<b>ID</b>	<b>RA</b>	<b>Dec</b>	<b>Magnitude</b>	<b>Visit</b>	<b>ID</b>	<b>RA</b>	<b>Dec</b>	<b>Magnitude</b>	
	1	128950	150.041664	2.206055	21.47158967526861 4	1	889836	150.049052	2.248595	22.5936657383229	
	1	159291	150.061791	2.213653	22.28139426540610 7	1	890313	150.054244	2.249099	22.01361474718318	
	1	161989	150.062603	2.211127	22.12877787459995	1	890643	150.066047	2.246152	21.95790583951284 3	
	1	878098	150.035849	2.234331	21.32248678417925	1	961358	150.069193	2.231305	22.39784989017185 5	
<b>Spectral Elements</b>	<b>#</b>	<b>Exposure Specification</b>	<b>MSA Configuration</b>	<b>Nod Pattern</b>	<b>Pointing</b>	<b>Aperture PA</b>	<b>Dispersion Offset (Shutters)</b>	<b>Cross-Dispersion Offset (Shutters)</b>	<b>Total Dithers</b>	<b>Total Integrations</b>	<b>Total Exposure Time</b>
	1	1 (PRISM/CLEAR)	c1 : cos_p4p_110325_ v5	3 Shutter Slitlet	150.04525712499 998 Degrees 2.21969 Degrees	80.999867737902 89			3	6	5339.534
	2	2 (G395M/F290LP)	c1 : cos_p4g_110325_ v5	3 Shutter Slitlet	150.04525712499 998 Degrees 2.21969 Degrees	80.999867737902 89			3	3	3326.267

Proposal 7076 - Observation 4 - A comprehensive population study of Little Red Dots: Connecting early BH and galaxy growth

Special Requirements

Aperture PA Range 81 to 85 Degrees (V3 302.4254303 to 306.4254303)  
MSA Scheduled Aperture PA 81.0000 to 81.0000 Degrees (V3 302.42545 to 302.42545)

Proposal 7076 - Observation 5 - A comprehensive population study of Little Red Dots: Connecting early BH and galaxy growth

Fri Mar 06 21:03:49 GMT 2026

<b>Observation</b>	<b>Proposal 7076, Observation 5: cos_p5</b> <b>Diagnostic Status: Warning</b> Observing Template: NIRSpec MultiObject Spectroscopy																																																											
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Proposal 7076 - Observation 5 - A comprehensive population study of Little Red Dots: Connecting early BH and galaxy growth

Special Requirements

Aperture PA Range 76 to 80 Degrees (V3 297.4254303 to 301.4254303)  
MSA Scheduled Aperture PA 76.0000 to 76.0000 Degrees (V3 297.42545 to 297.42545)

Proposal 7076 - Observation 6 - A comprehensive population study of Little Red Dots: Connecting early BH and galaxy growth

Fri Mar 06 21:03:49 GMT 2026

<b>Observation</b>	<b>Proposal 7076, Observation 6: cos_p6</b> <b>Diagnostic Status: Warning</b> Observing Template: NIRSpec MultiObject Spectroscopy																																																		
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Proposal 7076 - Observation 6 - A comprehensive population study of Little Red Dots: Connecting early BH and galaxy growth

Special Requirements

Aperture PA Range 236 to 240 Degrees (V3 97.4254303 to 101.4254303)  
MSA Scheduled Aperture PA 240.0000 to 240.0000 Degrees (V3 101.42543 to 101.42543)

Proposal 7076 - Observation 7 - A comprehensive population study of Little Red Dots: Connecting early BH and galaxy growth

Fri Mar 06 21:03:49 GMT 2026

<b>Observation</b>	<b>Proposal 7076, Observation 7: cos_p7</b> <b>Diagnostic Status: Warning</b> Observing Template: NIRSpec MultiObject Spectroscopy																																																											
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Proposal 7076 - Observation 7 - A comprehensive population study of Little Red Dots: Connecting early BH and galaxy growth

Special Requirements

Aperture PA Range 233 to 237 Degrees (V3 94.4254303 to 98.4254303)  
MSA Scheduled Aperture PA 237.0000 to 237.0000 Degrees (V3 98.42543 to 98.42543)

Proposal 7076 - Observation 8 - A comprehensive population study of Little Red Dots: Connecting early BH and galaxy growth

Fri Mar 06 21:03:49 GMT 2026

<b>Observation</b>	<b>Proposal 7076, Observation 8: cos_p8</b> <b>Diagnostic Status: Warning</b> Observing Template: NIRSpec MultiObject Spectroscopy										
	(cos_p8 (Obs 8)) Warning (Form): Config c1 : cos_p8g_022326_v1 (#2) has 3 primary slits affected by failed closed shutters. (cos_p8 (Obs 8)) Warning (Form): Config c1 : cos_p8p_022326_v1 (#1) has 2 primary slits affected by failed closed shutters. (Visit 8:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.										
<b>Fixed Targets</b>	<b>#</b>	<b>Name</b>	<b>Target Coordinates</b>			<b>Targ. Coord. Corrections</b>			<b>Miscellaneous</b>		
	(35)	ember_obs8_msa	RA: 10 01 13.4268 (150.3059450d) Dec: +02 02 59.16 (2.04977d) Equinox: J2000								
<i>Comments: Description=[]</i>											
<b>Acquisition</b>	<b>#</b>	<b>Reference Star Bin</b>	<b>Target</b>	<b>Filter</b>	<b>MSA Configuration</b>	<b>Readout Pattern</b>	<b>Groups/Int</b>	<b>Integrations/Exp</b>	<b>Total Integrations</b>	<b>Total Exposure Time</b>	<b>Optional ETC ID</b>
	1	Filter: CLEAR; Readout: NRSRAPIDD6; 8 sources in 4 quads; [ Optimal TA Accuracy ]	SAME	CLEAR	Auto Acq MSA Config	NRSRAPIDD6	3	1	4	687.153	
<b>Template</b>	<b>TA Method</b>	<b>HFF Readout Mode</b>	<b>Obtain Confirmation Images</b>	<b>Science Aperture</b>	<b>Primary Candidate List</b>	<b>Filler Candidate List</b>	<b>Spectral Overlap Map</b>	<b>Spectral Overlap Threshold</b>			
	MSATA	false	No	MSA Center	obs8_g395m (13843 sources)		rwst-nirspec-hr	1.5			
<b>Reference Stars</b>	<b>Visit</b>	<b>ID</b>	<b>RA</b>	<b>Dec</b>	<b>Magnitude</b>	<b>Visit</b>	<b>ID</b>	<b>RA</b>	<b>Dec</b>	<b>Magnitude</b>	
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	1	252715	150.285198	2.066114	24.50526162586460 2	1	300001	150.314422	2.017908	23.94441272655191 7	
	1	254144	150.303157	2.067996	24.45703072515505 8	1	301934	150.326683	2.036081	24.3722408179122	
	1	291018	150.299317	2.015337	23.31016772027484 8	1	303252	150.333704	2.048272	23.48045901892503 2	
<b>Spectral Elements</b>	<b>#</b>	<b>Exposure Specification</b>	<b>MSA Configuration</b>	<b>Nod Pattern</b>	<b>Pointing</b>	<b>Aperture PA</b>	<b>Dispersion Offset (Shutters)</b>	<b>Cross-Dispersion Offset (Shutters)</b>	<b>Total Dithers</b>	<b>Total Integrations</b>	<b>Total Exposure Time</b>
	1	1 (PRISM/CLEAR)	c1 : cos_p8p_022326_ v1	3 Shutter Slitlet	150.3107435 Degrees 2.0482347222222 22 Degrees	235.00017335776 8			3	6	5339.534
	2	2 (G395M/F290LP)	c1 : cos_p8g_022326_ v1	3 Shutter Slitlet	150.3107435 Degrees 2.0482347222222 22 Degrees	235.00017335776 8			3	3	3326.267

Proposal 7076 - Observation 8 - A comprehensive population study of Little Red Dots: Connecting early BH and galaxy growth

Special Requirements

Aperture PA Range 231 to 235 Degrees (V3 92.4254303 to 96.4254303)  
MSA Scheduled Aperture PA 235.0000 to 235.0000 Degrees (V3 96.42543 to 96.42543)

Proposal 7076 - Observation 9 - A comprehensive population study of Little Red Dots: Connecting early BH and galaxy growth

Fri Mar 06 21:03:49 GMT 2026

<b>Observation</b>	<b>Proposal 7076, Observation 9: cos_p9</b> <b>Diagnostic Status: Warning</b> Observing Template: NIRSpec MultiObject Spectroscopy																																																											
	(cos_p9 (Obs 9)) Warning (Form): Config c1 : cos_p9g_022426_v1 (#2) has 3 primary slits affected by failed closed shutters. (cos_p9 (Obs 9)) Warning (Form): Config c1 : cos_p9p_022426_v1 (#1) has 2 primary slits affected by failed closed shutters. (Visit 9:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.																																																											
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Proposal 7076 - Observation 9 - A comprehensive population study of Little Red Dots: Connecting early BH and galaxy growth

Special Requirements

Aperture PA Range 231 to 235 Degrees (V3 92.4254303 to 96.4254303)  
MSA Scheduled Aperture PA 235.0000 to 235.0000 Degrees (V3 96.42543 to 96.42543)

Proposal 7076 - Observation 10 - A comprehensive population study of Little Red Dots: Connecting early BH and galaxy growth

Fri Mar 06 21:03:49 GMT 2026

<b>Observation</b>	<b>Proposal 7076, Observation 10: cos_p10</b> <b>Diagnostic Status: Warning</b> Observing Template: NIRSpec MultiObject Spectroscopy										
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<b>Fixed Targets</b>	<b>#</b>	<b>Name</b>	<b>Target Coordinates</b>			<b>Targ. Coord. Corrections</b>			<b>Miscellaneous</b>		
	(26)	ember_obs10_msa	RA: 10 01 16.6437 (150.3193488d) Dec: +02 15 22.60 (2.25628d) Equinox: J2000			<i>Comments:</i> Description=[]					
<b>Acquisition</b>	<b>#</b>	<b>Reference Star Bin</b>	<b>Target</b>	<b>Filter</b>	<b>MSA Configuration</b>	<b>Readout Pattern</b>	<b>Groups/Int</b>	<b>Integrations/Exp</b>	<b>Total Integrations</b>	<b>Total Exposure Time</b>	<b>Optional ETC ID</b>
	1	Filter: CLEAR; Readout: NRSRAPIDD6; 8 sources in 4 quads; [ Optimal TA Accuracy ]	SAME	CLEAR	Auto Acq MSA Config	NRSRAPIDD6	3	1	4	687.153	
<b>Template</b>	<b>TA Method</b>	<b>HFF Readout Mode</b>	<b>Obtain Confirmation Images</b>	<b>Science Aperture</b>	<b>Primary Candidate List</b>	<b>Filler Candidate List</b>	<b>Spectral Overlap Map</b>	<b>Spectral Overlap Threshold</b>			
	MSATA	false	No	MSA Center	obs10 g395m priority (3917 sources)		jwst-nirspec-hr	1.5			
<b>Reference Stars</b>	<b>Visit</b>	<b>ID</b>	<b>RA</b>	<b>Dec</b>	<b>Magnitude</b>	<b>Visit</b>	<b>ID</b>	<b>RA</b>	<b>Dec</b>	<b>Magnitude</b>	
	1	1065173	150.305919	2.235351	24.06019837997545 7	1	1067242	150.290482	2.253738	24.59245777708794 7	
	1	1066068	150.321018	2.235606	24.50768698376441 2	1	1069734	150.334602	2.253454	24.25135112562360 7	
	1	1066515	150.294670	2.248039	24.96585983468010 6	1	1070947	150.294048	2.275867	25.33381228478516	
	1	1066919	150.315901	2.242703	25.35618787693405 8	1	1073724	150.313388	2.286223	23.97929928052377	
<b>Spectral Elements</b>	<b>#</b>	<b>Exposure Specification</b>	<b>MSA Configuration</b>	<b>Nod Pattern</b>	<b>Pointing</b>	<b>Aperture PA</b>	<b>Dispersion Offset (Shutters)</b>	<b>Cross-Dispersion Offset (Shutters)</b>	<b>Total Dithers</b>	<b>Total Integrations</b>	<b>Total Exposure Time</b>
	1	1 (PRISM/CLEAR)	c1 : cos_p10p_020926_v4	3 Shutter Slitlet	150.31922016666 667 Degrees 2.2565097222222 223 Degrees	239.99999421889 999			3	6	5339.534
	2	2 (G395M/F290LP)	c1 : cos_p10g_020926_v4	3 Shutter Slitlet	150.31922016666 667 Degrees 2.2565097222222 223 Degrees	239.99999421889 999			3	3	3326.267

Proposal 7076 - Observation 10 - A comprehensive population study of Little Red Dots: Connecting early BH and galaxy growth

Special Requirements

Aperture PA Range 236 to 240 Degrees (V3 97.4254303 to 101.4254303)  
MSA Scheduled Aperture PA 240.0000 to 240.0000 Degrees (V3 101.42543 to 101.42543)

Proposal 7076 - Observation 11 - A comprehensive population study of Little Red Dots: Connecting early BH and galaxy growth

Fri Mar 06 21:03:49 GMT 2026

<b>Observation</b>	<b>Proposal 7076, Observation 11: cos_p11</b> <b>Diagnostic Status: Warning</b> Observing Template: NIRSpec MultiObject Spectroscopy																																																												
	(cos_p11 (Obs 11)) Warning (Form): Config c1 : cos_p11g_022426_v2 (#2) has 2 primary slits affected by failed closed shutters. (cos_p11 (Obs 11)) Warning (Form): Config c1 : cos_p11p_022426_v2 (#1) has 2 primary slits affected by failed closed shutters. (Visit 11:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.																																																												
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Proposal 7076 - Observation 11 - A comprehensive population study of Little Red Dots: Connecting early BH and galaxy growth

Special Requirements

Aperture PA Range 233 to 237 Degrees (V3 94.4254303 to 98.4254303)  
MSA Scheduled Aperture PA 237.0000 to 237.0000 Degrees (V3 98.42543 to 98.42543)

Proposal 7076 - Observation 12 - A comprehensive population study of Little Red Dots: Connecting early BH and galaxy growth

Fri Mar 06 21:03:49 GMT 2026

<b>Observation</b>	<b>Proposal 7076, Observation 12: cos_p12</b> <b>Diagnostic Status: Warning</b> Observing Template: NIRSpec MultiObject Spectroscopy										
	(cos_p12 (Obs 12)) Warning (Form): Config c1 : cos_p12g_110325_v3 (#2) has 1 filler slits affected by failed closed shutters. (cos_p12 (Obs 12)) Warning (Form): Config c1 : cos_p12p_110325_v3 (#1) has 1 master background shutters affected by failed open or closed shutters. (cos_p12 (Obs 12)) Warning (Form): Config c1 : cos_p12p_110325_v3 (#1) has 2 filler slits affected by failed closed shutters. (Visit 12:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.										
<b>Fixed Targets</b>	<b>#</b>	<b>Name</b>	<b>Target Coordinates</b>			<b>Targ. Coord. Corrections</b>			<b>Miscellaneous</b>		
	(20)	ember_obs12_msa	RA: 10 01 6.2110 (150.2758792d) Dec: +02 11 51.73 (2.19770d) Equinox: J2000								
<i>Comments: Description=[]</i>											
<b>Acquisition</b>	<b>#</b>	<b>Reference Star Bin</b>	<b>Target</b>	<b>Filter</b>	<b>MSA Configuration</b>	<b>Readout Pattern</b>	<b>Groups/Int</b>	<b>Integrations/Exp</b>	<b>Total Integrations</b>	<b>Total Exposure Time</b>	<b>Optional ETC ID</b>
	1	Filter: CLEAR; Readout: NRSRAPIDD6; 8 sources in 4 quads; [ Optimal TA Accuracy ]	SAME	CLEAR	Auto Acq MSA Config	NRSRAPIDD6	3	1	4	687.153	
<b>Template</b>	<b>TA Method</b>	<b>HFF Readout Mode</b>	<b>Obtain Confirmation Images</b>	<b>Science Aperture</b>	<b>Primary Candidate List</b>	<b>Filler Candidate List</b>	<b>Spectral Overlap Map</b>	<b>Spectral Overlap Threshold</b>			
	MSATA	false	No	MSA Center	obs12_g395m priority (3760 sources)	obs12_g395m filler (10770 sources)	jwst-nirspec-hr	1.5			
<b>Reference Stars</b>	<b>Visit</b>	<b>ID</b>	<b>RA</b>	<b>Dec</b>	<b>Magnitude</b>	<b>Visit</b>	<b>ID</b>	<b>RA</b>	<b>Dec</b>	<b>Magnitude</b>	
	1	1052952	150.263847	2.169563	24.23239299118587 6	1	1057031	150.292439	2.186404	23.84027297827886	
	1	1053161	150.266298	2.170020	24.35456955133066 3	1	1058059	150.258935	2.205582	25.68828716703974 6	
	1	1054295	150.252924	2.182139	25.6232992456247	1	1059893	150.290594	2.206217	24.76604333854043	
	1	1056936	150.301405	2.182387	23.92998455671832 8	1	1060310	150.287891	2.210662	25.27197733891199	
<b>Spectral Elements</b>	<b>#</b>	<b>Exposure Specification</b>	<b>MSA Configuration</b>	<b>Nod Pattern</b>	<b>Pointing</b>	<b>Aperture PA</b>	<b>Dispersion Offset (Shutters)</b>	<b>Cross-Dispersion Offset (Shutters)</b>	<b>Total Dithers</b>	<b>Total Integrations</b>	<b>Total Exposure Time</b>
	1	1 (PRISM/CLEAR)	c1 : cos_p12p_110325_v3	3 Shutter Slitlet	150.27574800000 002 Degrees 2.1976144444444 44 Degrees	82.000014361525 61			3	6	5339.534
	2	2 (G395M/F290LP)	c1 : cos_p12g_110325_v3	3 Shutter Slitlet	150.27574800000 002 Degrees 2.1976144444444 44 Degrees	82.000014361525 61			3	3	3326.267

Proposal 7076 - Observation 12 - A comprehensive population study of Little Red Dots: Connecting early BH and galaxy growth

Special Requirements

Aperture PA Range 82 to 84 Degrees (V3 303.4254303 to 305.4254303)  
MSA Scheduled Aperture PA 82.0000 to 82.0000 Degrees (V3 303.42545 to 303.42545)

Proposal 7076 - Observation 13 - A comprehensive population study of Little Red Dots: Connecting early BH and galaxy growth

Fri Mar 06 21:03:49 GMT 2026

<b>Observation</b>	<b>Proposal 7076, Observation 13: cos_p13</b> <b>Diagnostic Status: Warning</b> Observing Template: NIRSpec MultiObject Spectroscopy																																																											
<b>Diagnostics</b>	(cos_p13 (Obs 13)) Warning (Form): Config c1 : cos_p13g_110325_v1 (#2) has 1 filler slits affected by failed closed shutters. (cos_p13 (Obs 13)) Warning (Form): Config c1 : cos_p13g_110325_v1 (#2) has 4 primary slits affected by failed closed shutters. (cos_p13 (Obs 13)) Warning (Form): Config c1 : cos_p13p_110325_v3 (#1) has 1 filler slits affected by failed closed shutters. (cos_p13 (Obs 13)) Warning (Form): Config c1 : cos_p13p_110325_v3 (#1) has 2 primary slits affected by failed closed shutters. (Visit 13:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.																																																											
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Visit	ID	RA	Dec	Magnitude	Visit	ID	RA	Dec	Magnitude																																																			
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1	180469	150.158514	2.100802	23.37859502019865	1	249089	150.204818	2.073409	25.044004857284516																																																			
1	182562	150.157863	2.109726	25.29341971265708	1	252405	150.199002	2.095568	25.351872872269847																																																			
1	232676	150.181837	2.115368	23.98879948358684	1	253471	150.189358	2.105416	24.81580428484351																																																			
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Proposal 7076 - Observation 13 - A comprehensive population study of Little Red Dots: Connecting early BH and galaxy growth

Special Requirements

Aperture PA Range 81 to 85 Degrees (V3 302.4254303 to 306.4254303)  
MSA Scheduled Aperture PA 81.0000 to 81.0000 Degrees (V3 302.42545 to 302.42545)

Proposal 7076 - Observation 14 - A comprehensive population study of Little Red Dots: Connecting early BH and galaxy growth

Fri Mar 06 21:03:49 GMT 2026

<b>Observation</b>	<b>Proposal 7076, Observation 14: cos_p14</b> <b>Diagnostic Status: Warning</b> Observing Template: NIRSpec MultiObject Spectroscopy																																																											
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Proposal 7076 - Observation 14 - A comprehensive population study of Little Red Dots: Connecting early BH and galaxy growth

Special Requirements

Aperture PA Range 79 to 83 Degrees (V3 300.4254303 to 304.4254303)  
MSA Scheduled Aperture PA 79.0000 to 79.0000 Degrees (V3 300.42545 to 300.42545)

Proposal 7076 - Observation 15 - A comprehensive population study of Little Red Dots: Connecting early BH and galaxy growth

Fri Mar 06 21:03:49 GMT 2026

<b>Observation</b>	<b>Proposal 7076, Observation 15: cos_p15</b> <b>Diagnostic Status: Warning</b> Observing Template: NIRSpec MultiObject Spectroscopy																																																											
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Proposal 7076 - Observation 15 - A comprehensive population study of Little Red Dots: Connecting early BH and galaxy growth

Special Requirements

Aperture PA Range 231 to 235 Degrees (V3 92.4254303 to 96.4254303)  
MSA Scheduled Aperture PA 235.0000 to 235.0000 Degrees (V3 96.42543 to 96.42543)

Proposal 7076 - Observation 16 - A comprehensive population study of Little Red Dots: Connecting early BH and galaxy growth

Fri Mar 06 21:03:49 GMT 2026

<b>Observation</b>	Proposal 7076, Observation 16: uds_p1p Diagnostic Status: Warning Observing Template: NIRSpec MultiObject Spectroscopy										
	(Visit 16:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.										
<b>Fixed Targets</b>	#	Name	Target Coordinates			Targ. Coord. Corrections			Miscellaneous		
	(10)	ember_obs16_uds_p1_msa	RA: 02 17 18.7373 (34.3280721d) Dec: -05 11 6.12 (-5.18503d) Equinox: J2000								
<i>Comments: Description=[]</i>											
<b>Acquisition</b>	#	Reference Star Bin	Target	Filter	MSA Configuration	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Exposure Time	Optional ETC ID
	1	Filter: CLEAR; Readout: NRSRAPIDD6; 8 sources in 4 quads; [ Optimal TA Accuracy ]	SAME	CLEAR	Auto Acq MSA Config	NRSRAPIDD6	3	1	4	687.153	
<b>Template</b>	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	obs16_all_priority (9263 sources)	obs16_filler (11179 sources)	jwst-nirspec-hr	1.5			
<b>Reference Stars</b>	Visit	ID	RA	Dec	Magnitude	Visit	ID	RA	Dec	Magnitude	
	1	18950	34.321896	-5.170228	24.298727846507035	1	23190	34.340091	-5.189229	25.398895697556213	
	1	20174	34.356726	-5.175229	25.541132156350145	1	26657	34.324396	-5.206777	25.606580395571	
	1	21820	34.294154	-5.182106	25.013678996431388	1	28296	34.327198	-5.216173	25.464765540130095	
	1	23083	34.288168	-5.188639	24.144731746138827	1	28685	34.321805	-5.218183	24.955407566858923	
<b>Spectral Elements</b>	#	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 : uds_p1p_060625_v3	3 Shutter Slitlet	34.324261666666665 Degrees - 5.185466666666666 Degrees	39.00036451342405			3	6	5339.534
	2	2 (G395M/F290LP)	c1 : uds_p1g_060625_v5	3 Shutter Slitlet	34.324261666666665 Degrees - 5.185466666666666 Degrees	39.00036451342405			3	3	3326.267

Proposal 7076 - Observation 16 - A comprehensive population study of Little Red Dots: Connecting early BH and galaxy growth

Special Requirements

Aperture PA Range 38 to 42 Degrees (V3 259.4254303 to 263.4254303)  
MSA Scheduled Aperture PA 39.0000 to 39.0000 Degrees (V3 260.42545 to 260.42545)

Proposal 7076 - Observation 17 - A comprehensive population study of Little Red Dots: Connecting early BH and galaxy growth

Fri Mar 06 21:03:49 GMT 2026

<b>Observation</b>	<p><b>Proposal 7076, Observation 17: uds_p2</b></p> <p><b>Diagnostic Status: Error</b></p> <p>Observing Template: NIRSpec MultiObject Spectroscopy</p>																																											
<b>Diagnostics</b>	<p>(uds_p2 (Obs 17)) Error (Form): This observation was created with an Aperture PA of 25.0000 but it has been assigned an Aperture PA of 27.0000</p> <p>(Aperture PA) Error (Form): This observation was created with an Aperture PA of 25.0000 but it has been assigned an Aperture PA of 27.0000</p> <p>(Visit 17:1) Error (Form): Reference stars are required but none were found for this visit</p> <p>(Visit 17:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.</p>																																											
<b>Fixed Targets</b>	<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>msa_cat_uds_thin_v1</td> <td>RA: 02 17 29.6568 (34.3735700d) Dec: -05 11 25.64 (-5.19046d) Equinox: J2000</td> <td></td> <td></td> </tr> </tbody> </table> <p><i>Comments:</i> <i>Description=[]</i></p>											#	Name	Target Coordinates	Targ. Coord. Corrections	Miscellaneous	(6)	msa_cat_uds_thin_v1	RA: 02 17 29.6568 (34.3735700d) Dec: -05 11 25.64 (-5.19046d) Equinox: J2000																									
#	Name	Target Coordinates	Targ. Coord. Corrections	Miscellaneous																																								
(6)	msa_cat_uds_thin_v1	RA: 02 17 29.6568 (34.3735700d) Dec: -05 11 25.64 (-5.19046d) Equinox: J2000																																										
<b>Acquisition</b>	<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												
#	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																																			
<b>Template</b>	<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>msa_cat_uds_thin_v1 (166 sources)</td> <td></td> <td>jwst-nirspec-hr</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	msa_cat_uds_thin_v1 (166 sources)		jwst-nirspec-hr	1.5																	
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	msa_cat_uds_thin_v1 (166 sources)		jwst-nirspec-hr	1.5																																					
<b>Reference Stars</b>																																												
<b>Spectral Elements</b>	<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 : uds_p2p_v5</td> <td>3 Shutter Slitlet</td> <td>34.401914749999 996 Degrees - 5.27235111111111 065 Degrees</td> <td>26.997232607057 3</td> <td></td> <td></td> <td>3</td> <td>6</td> <td>5339.534</td> </tr> <tr> <td>2</td> <td>2 (G395M/F290LP)</td> <td>c1 : uds_p2g_v5</td> <td>3 Shutter Slitlet</td> <td>34.403284291666 665 Degrees - 5.2704125000000 2 Degrees</td> <td>26.997112455155 833</td> <td></td> <td></td> <td>3</td> <td>3</td> <td>3326.267</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 : uds_p2p_v5	3 Shutter Slitlet	34.401914749999 996 Degrees - 5.27235111111111 065 Degrees	26.997232607057 3			3	6	5339.534	2	2 (G395M/F290LP)	c1 : uds_p2g_v5	3 Shutter Slitlet	34.403284291666 665 Degrees - 5.2704125000000 2 Degrees	26.997112455155 833			3	3	3326.267
#	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 : uds_p2p_v5	3 Shutter Slitlet	34.401914749999 996 Degrees - 5.27235111111111 065 Degrees	26.997232607057 3			3	6	5339.534																																		
2	2 (G395M/F290LP)	c1 : uds_p2g_v5	3 Shutter Slitlet	34.403284291666 665 Degrees - 5.2704125000000 2 Degrees	26.997112455155 833			3	3	3326.267																																		

Proposal 7076 - Observation 17 - A comprehensive population study of Little Red Dots: Connecting early BH and galaxy growth

Special Requirements

Aperture PA Range 23 to 27 Degrees (V3 244.42543030000002 to 248.42543030000002)  
MSA Scheduled Aperture PA 27.0000 to 27.0000 Degrees (V3 248.42543 to 248.42543)

Proposal 7076 - Observation 18 - A comprehensive population study of Little Red Dots: Connecting early BH and galaxy growth

Fri Mar 06 21:03:49 GMT 2026

<b>Observation</b>	<b>Proposal 7076, Observation 18: uds_p3</b> <b>Diagnostic Status: Warning</b> Observing Template: NIRSpec MultiObject Spectroscopy										
	(uds_p3 (Obs 18)) Warning (Form): Config c1 : uds_p3g_112025_v3 (#2) has 2 primary slits affected by failed closed shutters. (uds_p3 (Obs 18)) Warning (Form): Config c1 : uds_p3p_112025_v3 (#1) has 1 filler slits affected by failed closed shutters. (uds_p3 (Obs 18)) Warning (Form): Config c1 : uds_p3p_112025_v3 (#1) has 1 primary slits affected by failed closed shutters. (Visit 18:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.										
<b>Fixed Targets</b>	<b>#</b>	<b>Name</b>	<b>Target Coordinates</b>			<b>Targ. Coord. Corrections</b>			<b>Miscellaneous</b>		
	(22)	ember_obs18_uds_p3_msa	RA: 02 17 34.4938 (34.3937242d) Dec: -05 16 35.28 (-5.27647d) Equinox: J2000								
<i>Comments: Description=[]</i>											
<b>Acquisition</b>	<b>#</b>	<b>Reference Star Bin</b>	<b>Target</b>	<b>Filter</b>	<b>MSA Configuration</b>	<b>Readout Pattern</b>	<b>Groups/Int</b>	<b>Integrations/Exp</b>	<b>Total Integrations</b>	<b>Total Exposure Time</b>	<b>Optional ETC ID</b>
	1	Filter: CLEAR; Readout: NRSRAPIDD6; 8 sources in 4 quads; [ Optimal TA Accuracy ]	SAME	CLEAR	Auto Acq MSA Config	NRSRAPIDD6	3	1	4	687.153	
<b>Template</b>	<b>TA Method</b>	<b>HFF Readout Mode</b>	<b>Obtain Confirmation Images</b>	<b>Science Aperture</b>	<b>Primary Candidate List</b>	<b>Filler Candidate List</b>	<b>Spectral Overlap Map</b>	<b>Spectral Overlap Threshold</b>			
	MSATA	false	No	MSA Center	obs18 all priority (7881 sources)	obs18 filler (12744 sources)	jwst-nirspec-hr	1.5			
<b>Reference Stars</b>	<b>Visit</b>	<b>ID</b>	<b>RA</b>	<b>Dec</b>	<b>Magnitude</b>	<b>Visit</b>	<b>ID</b>	<b>RA</b>	<b>Dec</b>	<b>Magnitude</b>	
	1	1048	34.411368	-5.319918	24.33784828039314	1	55595	34.388902	-5.266300	24.200853798596135	
	1	2289	34.413581	-5.314341	24.2526955367641	1	56916	34.394464	-5.270587	24.497563670607075	
	1	2811	34.398349	-5.311879	24.24898509441836	1	60222	34.413936	-5.281512	23.77353026744145	
	1	4193	34.368807	-5.305878	24.51607666894741	1	61959	34.414498	-5.287851	24.540220641483856	
<b>Spectral Elements</b>	<b>#</b>	<b>Exposure Specification</b>	<b>MSA Configuration</b>	<b>Nod Pattern</b>	<b>Pointing</b>	<b>Aperture PA</b>	<b>Dispersion Offset (Shutters)</b>	<b>Cross-Dispersion Offset (Shutters)</b>	<b>Total Dithers</b>	<b>Total Integrations</b>	<b>Total Exposure Time</b>
	1	1 (PRISM/CLEAR)	c1 : uds_p3p_112025_v3	3 Shutter Slitlet	34.396815833333 335 Degrees - 5.289308333333 38 Degrees	209.99974222060 766			3	6	5339.534
	2	2 (G395M/F290LP)	c1 : uds_p3g_112025_v3	3 Shutter Slitlet	34.396815833333 335 Degrees - 5.289308333333 38 Degrees	209.99974222060 766			3	3	3326.267

Proposal 7076 - Observation 18 - A comprehensive population study of Little Red Dots: Connecting early BH and galaxy growth

Special Requirements

Aperture PA Range 209 to 214 Degrees (V3 70.4254303 to 75.4254303)  
MSA Scheduled Aperture PA 210.0000 to 210.0000 Degrees (V3 71.42543 to 71.42543)

Proposal 7076 - Observation 19 - A comprehensive population study of Little Red Dots: Connecting early BH and galaxy growth

Fri Mar 06 21:03:49 GMT 2026

<b>Observation</b>	Proposal 7076, Observation 19: uds_p4p Diagnostic Status: Warning Observing Template: NIRSpec MultiObject Spectroscopy										
	(Visit 19:1) Warning (Form): Overheads are provisional until the Visit Planner has been run. (Visit 19:1) Warning (Form): The recommended value is 8 Reference Stars for this template.										
<b>Fixed Targets</b>	#	Name	Target Coordinates		Targ. Coord. Corrections			Miscellaneous			
	(11)	ember_obs19_uds_p4_msa	RA: 02 17 46.7341 (34.4447254d) Dec: -05 07 28.02 (-5.12445d) Equinox: J2000								
<i>Comments: Description=[]</i>											
<b>Acquisition</b>	#	Reference Star Bin	Target	Filter	MSA Configuration	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Exposure Time	Optional ETC ID
	1	Filter: CLEAR; Readout: NRSRAPIDD6; 7 sources in 4 quads; [ Optimal TA Accuracy ]	SAME	CLEAR	Auto Acq MSA Config	NRSRAPIDD6	3	1	4	687.153	
<b>Template</b>	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	obs19_all_priority (9029 sources)	obs19_filler (8329 sources)	jwst-nirspec-hr	1.5			
<b>Reference Stars</b>	Visit	ID	RA	Dec	Magnitude	Visit	ID	RA	Dec	Magnitude	
	1	947	34.442783	-5.087415	25.21137550244046	1	5772	34.436070	-5.112887	25.53635983028453 2	
	1	2883	34.446581	-5.099230	23.88208759028185	1	5863	34.437183	-5.113324	24.91999835970070 6	
	1	3608	34.428761	-5.103152	23.23346425919162	1	7858	34.461416	-5.123507	25.60413039643236 7	
	1	3644	34.462853	-5.103209	25.67094678606080						
<b>Spectral Elements</b>	#	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 : uds_p4p_061725_ v1	3 Shutter Slitlet	34.452518333333 33 Degrees - 5.109947222222 175 Degrees	31.999327715757 207			3	6	5339.534
	2	2 (G395M/F290LP)	c1 : uds_p4g_061725_ v1	3 Shutter Slitlet	34.452518333333 33 Degrees - 5.109947222222 175 Degrees	31.999327715757 207			3	3	3326.267

Proposal 7076 - Observation 19 - A comprehensive population study of Little Red Dots: Connecting early BH and galaxy growth

Special Requirements

Aperture PA Range 28 to 32 Degrees (V3 249.42543030000002 to 253.42543030000002)  
MSA Scheduled Aperture PA 32.0000 to 32.0000 Degrees (V3 253.42543 to 253.42543)

Proposal 7076 - Observation 20 - A comprehensive population study of Little Red Dots: Connecting early BH and galaxy growth

Fri Mar 06 21:03:49 GMT 2026

<b>Observation</b>	<b>Proposal 7076, Observation 20: egs_p1</b> <b>Diagnostic Status: Warning</b> Observing Template: NIRSpec MultiObject Spectroscopy										
	(egs_p1 (Obs 20)) Warning (Form): Config c1 (#1) has 1 primary slits affected by failed closed shutters. (Visit 20:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.										
<b>Fixed Targets</b>	<b>#</b>	<b>Name</b>	<b>Target Coordinates</b>			<b>Targ. Coord. Corrections</b>			<b>Miscellaneous</b>		
	(23)	ember_obs20_egs_p1_msa	RA: 14 19 43.2538 (214.9302242d) Dec: +52 52 28.56 (52.87460d) Equinox: J2000			Comments: Description=[]					
<b>Acquisition</b>	<b>#</b>	<b>Reference Star Bin</b>	<b>Target</b>	<b>Filter</b>	<b>MSA Configuration</b>	<b>Readout Pattern</b>	<b>Groups/Int</b>	<b>Integrations/Exp</b>	<b>Total Integrations</b>	<b>Total Exposure Time</b>	<b>Optional ETC ID</b>
	1	Filter: F140X; Readout: NRSRAPID; 8 sources in 4 quads; [ Optimal TA Accuracy ]	SAME	F140X	Auto Acq MSA Config	NRSRAPID	3	1	4	171.788	
<b>Template</b>	<b>TA Method</b>	<b>HFF Readout Mode</b>	<b>Obtain Confirmation Images</b>	<b>Science Aperture</b>	<b>Primary Candidate List</b>	<b>Filler Candidate List</b>	<b>Spectral Overlap Map</b>	<b>Spectral Overlap Threshold</b>			
	MSATA	false	No	MSA Center	obs20_primary (10201 sources)	obs20_filler (17749 sources)	jwst-nirspec-prism	1.5			
<b>Reference Stars</b>	<b>Visit</b>	<b>ID</b>	<b>RA</b>	<b>Dec</b>	<b>Magnitude</b>	<b>Visit</b>	<b>ID</b>	<b>RA</b>	<b>Dec</b>	<b>Magnitude</b>	
	1	14605	214.921215	52.887812	20.80406813640159	1	18807	214.912481	52.857014	21.53585510221741	
	1	16148	214.899696	52.863394	21.72380483721992	1	20664	214.970148	52.887768	21.5403843976468	
	1	17053	214.894708	52.854822	20.92307172943958	1	27311	214.957009	52.850118	21.70130685053199	
	1	18052	214.915867	52.863645	21.90924483997124	1	28073	214.966808	52.854193	21.54245790795064	
<b>Spectral Elements</b>	<b>#</b>	<b>Exposure Specification</b>	<b>MSA Configuration</b>	<b>Nod Pattern</b>	<b>Pointing</b>	<b>Aperture PA</b>	<b>Dispersion Offset (Shutters)</b>	<b>Cross-Dispersion Offset (Shutters)</b>	<b>Total Dithers</b>	<b>Total Integrations</b>	<b>Total Exposure Time</b>
	1	1 (PRISM/CLEAR)	c1	3 Shutter Slitlet	214.93710383333 334 Degrees 52.872273611111 11 Degrees	12.005476053579 875			3	6	5339.534

Proposal 7076 - Observation 20 - A comprehensive population study of Little Red Dots: Connecting early BH and galaxy growth

Special Requirements

Aperture PA Range 8 to 12 Degrees (V3 229.4254303 to 233.42543030000002)  
MSA Scheduled Aperture PA 12.0000 to 12.0000 Degrees (V3 233.42543 to 233.42543)

Proposal 7076 - Observation 23 - A comprehensive population study of Little Red Dots: Connecting early BH and galaxy growth

Fri Mar 06 21:03:49 GMT 2026

<b>Observation</b>	Proposal 7076, Observation 23: gds_p1p Diagnostic Status: Warning Observing Template: NIRSpec MultiObject Spectroscopy																																																											
	(Visit 23:1) Warning (Form): Overheads are provisional until the Visit Planner has been run. (Visit 23:1) Warning (Form): The recommended value is 8 Reference Stars for this template.																																																											
<b>Fixed Targets</b>	<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>(12)</td> <td>ember_obs23_gds_p1_msa</td> <td>RA: 03 32 35.8116 (53.1492150d) Dec: -27 47 19.09 (-27.78864d) Equinox: J2000</td> <td></td> <td></td> </tr> </tbody> </table> Comments: Description=[]										#	Name	Target Coordinates	Targ. Coord. Corrections	Miscellaneous	(12)	ember_obs23_gds_p1_msa	RA: 03 32 35.8116 (53.1492150d) Dec: -27 47 19.09 (-27.78864d) Equinox: J2000																																										
	#	Name	Target Coordinates	Targ. Coord. Corrections	Miscellaneous																																																							
(12)	ember_obs23_gds_p1_msa	RA: 03 32 35.8116 (53.1492150d) Dec: -27 47 19.09 (-27.78864d) Equinox: J2000																																																										
<b>Acquisition</b>	<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>Filter: CLEAR; Readout: NRSRAPIDD1; 7 sources in 4 quads; [ Optimal TA Accuracy ]</td> <td>SAME</td> <td>CLEAR</td> <td>Auto Acq MSA Config</td> <td>NRSRAPIDD1</td> <td>3</td> <td>1</td> <td>4</td> <td>257.682</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	Filter: CLEAR; Readout: NRSRAPIDD1; 7 sources in 4 quads; [ Optimal TA Accuracy ]	SAME	CLEAR	Auto Acq MSA Config	NRSRAPIDD1	3	1	4	257.682																													
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Proposal 7076 - Observation 23 - A comprehensive population study of Little Red Dots: Connecting early BH and galaxy growth

Special Requirements

Aperture PA Range 122 to 126.1 Degrees (V3 343.4254303 to 347.5254303)  
MSA Scheduled Aperture PA 126.0000 to 126.0000 Degrees (V3 347.42545 to 347.42545)

Proposal 7076 - Observation 24 - A comprehensive population study of Little Red Dots: Connecting early BH and galaxy growth

Fri Mar 06 21:03:49 GMT 2026

<b>Observation</b>	<p><b>Proposal 7076, Observation 24: gds_p1_repeat</b></p> <p><b>Diagnostic Status: Error</b></p> <p>Observing Template: NIRSpec MultiObject Spectroscopy</p>																																
<b>Diagnostics</b>	<p>(gds_p1_repeat (Obs 24)) Error (Form): This observation was created with an Aperture PA of 126.0000 but it has been assigned an Aperture PA of 126.1000</p> <p>(Aperture PA) Error (Form): This observation was created with an Aperture PA of 126.0000 but it has been assigned an Aperture PA of 126.1000</p> <p>(Visit 24:1) Error (Form): Reference Star Bin is a required field.</p> <p>(Visit 24:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.</p>																																
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Proposal 7076 - Observation 24 - A comprehensive population study of Little Red Dots: Connecting early BH and galaxy growth

Special Requirements

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MSA Scheduled Aperture PA 126.1000 to 126.1000 Degrees (V3 347.52542 to 347.52542)