



## 2736 - JWST Early Release Observation 10

Cycle: 0, Proposal Category: COM/ERO

### INVESTIGATORS

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**OBSERVATIONS**

<i>Folder</i>	<i>Observation</i>	<i>Label</i>	<i>Observing Template</i>	<i>Science Target</i>
Imaging				
	1	SMACS0723 NIRCam Imaging	NIRCam Imaging	(1) SMACS-J0723.3-7327
	2	SMACS0723 MIRI Imaging	MIRI Imaging	(1) SMACS-J0723.3-7327
Spectroscopy				
	3	SMACS0723 NIRISS slitless	NIRISS Wide Field Slitless Spectroscopy	(1) SMACS-J0723.3-7327
	4	SMACS 0723 Plan 1	NIRSpec MultiObject Spectroscopy	(4) MPTCAT-NIRCAM-ACS
	5	SMACS 0723 Plan 1	NIRSpec MultiObject Spectroscopy	(4) MPTCAT-NIRCAM-ACS
	6	SMACS 0723 Plan 1	NIRSpec MultiObject Spectroscopy	(5) MPTCAT-MORESTARS
	7	Plan2-0628-NRSRAPI D-TA	NIRSpec MultiObject Spectroscopy	(6) MPTCAT-0628
	8	Plan2-0628-NRSRAPI DD2-TA	NIRSpec MultiObject Spectroscopy	(6) MPTCAT-0628

**ABSTRACT**

ERO observations of galaxy lensing cluster SMACS0723. This proposal contains a deep NIRCam+MIRI image, a NIRISS slitless spectroscopy field, and a NIRSpec MSA observation.

**OBSERVING DESCRIPTION**

This is a multimode set of observations of the cluster SMACS0723 at  $z=0.390$ . It includes the main demonstration of NIRSpec MSA and NIRISS WFSS. The spectroscopic observations are supported by medium-depth NIRCam and MIRI imaging of the cluster core. The aim of the observations is to show an example of a multitude of galaxies, along with gravitationally lensed arcs, and to use multi-object spectroscopy to demonstrate redshifts and emission-line signatures of star-forming galaxies. In particular the NIRSpec MSA observations are using the catalog from the HST RELICS observation.

NIRCam imaging: This image focuses one module on the cluster, and the other on an off-field. It is likely that the ERO will just feature the centered module, but there is potential value in the use of another similarly deep field off core, but any ERO use would be serendipitous. We obtain images through 6 broad-band NIRCam filters, spanning F090W (nice overlap with Frontiers F814W at similar depth) through F444W. The exposure time is

## JWST Proposal 2736 (Created: Tuesday, June 28, 2022 at 10:00:59 PM Eastern Standard Time) - Overview

set to roughly reach the Frontier depth in F814W (which was reached in 100ks rather than 4ks), 1.5 times the F160W depth, and almost 10 times the IRAC 1+2 depth. Of course, we also have almost 3 times the spatial resolution of HST. We use the INTRAMODULEX dither with 8 dither positions, MEDIUM2 readout pattern. This observation would easily detect GN-z11.1 (the highest known current redshift galaxy) at high SNR in all filters, except F090W. Saturation is not a concern in a deep field like this, but we do soft-saturate point sources around ABmag~20, of which there are no, or almost none in the field.

MIRI imaging: In addition to the NIRCcam LW filters, the MIRI bands are really new at this depth. We prioritize depth over coverage, and use a single MIRI tile centered on the cluster. At 5.5ks, we reach 5sigma depths of 26.3 mag at F770W, 25 mag at F1000W, 23.5 mag at F1500W, and at F1800W. This is likely to reveal the mid-infrared emission from large numbers of  $z=5-10$  galaxies for the first time. We use relatively long ramps with FASTR1 of 100 groups, except for F1800W, which uses a 50-group ramp, and a 10 point medium cycling dither.

NIRSpec MSA: The strategy for this ERO to compare between NIRSpec and NIRISS, is to highlight how NIRISS detects many galaxies, while NIRSpec can use its higher resolving power to investigate selected sources in greater detail. We use the medium resolution grating to balance sensitivity with significantly higher resolving power than NIRISS. We use the G235 and GG395M gratings, as these would include H $\alpha$  at  $z=1.7-6.9$ . We use a 3 shutter slitlet, and 3 exposures using the NRSIRS2 readout pattern to limit the 1/F noise and produce clean-looking 2D spectra. We use the NIRCcam imaging obtained as part of this program to derive a catalog and photometric redshifts, supplementing with HST/ACS imaging in the area outside the NIRCcam footprint. We select galaxies in the field out to  $z\sim 10$  with  $abmag(1.6) < 26$  mag. For the faintest target, an exposure time of 4.4ks will yield an SNR of 10 per resel, and much more in the H $\alpha$  line for a star-forming galaxy in the appropriate redshift range. For the handful of  $z>6$  galaxy candidates we include objects with  $abmag \sim 27$ , anticipating that strong emission lines will still easily be detectable. Empty shutters were included on the configuration for subtracting the background.

The configuration is updated using an APA of 301.5, making the observations schedulable in the second half of June. We prioritize the 4 highest redshift objects at  $z\sim 6-10$ , the giant gravitationally lensed arcs, galaxies at  $z\sim 1-6$ , and cluster galaxies at  $z\sim 0.4$ . Target acquisition uses MSATA in the CLEAR band. NIRSpec CLEAR magnitudes were predicted via the method recommended in JDox, and are broadly consistent with the average flux in the 6 NIRCcam bands.

NIRISS WFSS: This is a single tile centered on the cluster, using two different filters to increase the chances that some galaxies show interesting emission features at high redshift. We use the F090W filter to reveal H $\alpha$  emission at the cluster redshift of  $z=0.348$ , and the F200W to show H $\alpha$  of any background galaxies in the  $z\sim 1.7-2.5$  range. Since this is for illustrative purposes, only one of the orthogonal gratings is needed. Using

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an 8 point medium dither and a total of 2.8ks, we would get SNR=10-30 per channel for an ABmag~23 galaxy in the cluster.

### Updates 11/14/2021

- Changed target to SMACS0723
- Updated FOV and PA to match the likely observing date
- Recreated notional MSA plan (TBR by NIRSpec team)
- Updated readout pattern to MEDIUM2, which eliminates data rates warning, but keeps 7 groups.
- Added F1800W filter to MIRI

### Updates 4/25/2022

- Increased depth of NIRCам and MIRI images
- Increased depth of NIRSpec spectroscopy

### Updates 5/13/2022

- Changed NIRISS filter F090W -> F115W, following advice from Ravindranath

### Updates 6/16/22

- The final MOS configuration is included and TA reference stars are selected.
- A confirmation image is added to verify the locations of the science targets in the slitlets.

### Updates 6/28/22

- Added obs 7 and 8 to repeat failed observed, using different reference configurations to maximize chances of success.

Proposal 2736 - Targets - JWST Early Release Observation 10

#	Name	Target Coordinates	Targ. Coord. Corrections	Miscellaneous
(1)	SMACS-J0723.3-7327	RA: 07 23 18.5783 (110.8274096d) Dec: -73 27 17.05 (-73.45474d) Equinox: J2000		
<i>Comments: This object was generated by the targetselector and retrieved from the NED database. Category=Clusters of Galaxies Description=[High-redshift clusters]</i>				
(4)	MPTCAT-NIRCAM-ACS	RA: 07 23 18.3895 (110.8266229d) Dec: -73 27 13.46 (-73.45374d) Equinox: J2000		
<i>Comments: Description=[]</i>				
(5)	MPTCAT-MORESTARS	RA: 07 23 18.3895 (110.8266229d) Dec: -73 27 13.46 (-73.45374d) Equinox: J2000		
<i>Comments: Description=[]</i>				
(6)	MPTCAT-0628	RA: 07 23 18.4174 (110.8267392d) Dec: -73 27 13.48 (-73.45374d) Equinox: J2000		
<i>Comments: Description=[]</i>				

Fixed Targets

Proposal 2736 - Observation 1 - JWST Early Release Observation 10

Wed Jun 29 03:00:59 GMT 2022

<b>Observation</b>	<p><b>Proposal 2736, Observation 1: SMACS0723 NIRCam Imaging</b></p> <p><b>Diagnostic Status: Warning</b></p> <p>Observing Template: NIRCam Imaging</p>									
<b>Diagnostics</b>	(Visit 1:1) 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>		
	(1)	SMACS-J0723.3-7327	RA: 07 23 18.5783 (110.8274096d) Dec: -73 27 17.05 (-73.45474d) Equinox: J2000							
	<p><i>Comments: This object was generated by the targetselector and retrieved from the NED database.</i></p> <p><i>Category=Clusters of Galaxies</i></p> <p><i>Description=[High-redshift clusters]</i></p>									
<b>Template</b>	<b>Module</b>				<b>Subarray</b>					
	ALL				FULL					
<b>Dithers</b>	<b>#</b>	<b>Primary Dither Type</b>		<b>Primary Dithers</b>	<b>Subpixel Dither Type</b>		<b>Dither Size</b>	<b>Subpixel Positions</b>		
	1	INTRAMODULEBOX		9	STANDARD			1		
<b>Spectral Elements</b>	<b>#</b>	<b>Short Filter</b>	<b>Long Filter</b>	<b>Readout Pattern</b>	<b>Groups/Int</b>	<b>Integrations/Exp</b>	<b>Total Integrations</b>	<b>Total Dithers</b>	<b>Total Exposure Time</b>	<b>ETC Wkbk.Calc ID</b>
	1	F090W	F277W	MEDIUM8	8	1	9	9	7537.213	
	2	F150W	F356W	MEDIUM8	8	1	9	9	7537.213	
	3	F200W	F444W	MEDIUM8	8	1	9	9	7537.213	
<b>Special Requirements</b>	<p>Aperture PA Range 143.88744876 to 144.88744876 Degrees (V3 143.98475149 to 144.98475149)</p> <p>Offset 88.43111590880476 arcsec, 6.765337470302015 arcsec</p>									

Proposal 2736 - Observation 2 - JWST Early Release Observation 10

Wed Jun 29 03:00:59 GMT 2022

<b>Observation</b>	<p><b>Proposal 2736, Observation 2: SMACS0723 MIRI Imaging</b></p> <p><b>Diagnostic Status: Warning</b></p> <p>Observing Template: MIRI Imaging</p>										
<b>Diagnostics</b>	(Visit 2:1) 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>			
	(1)	SMACS-J0723.3-7327	RA: 07 23 18.5783 (110.8274096d) Dec: -73 27 17.05 (-73.45474d) Equinox: J2000								
	<p><i>Comments: This object was generated by the targetselector and retrieved from the NED database.</i></p> <p><i>Category=Clusters of Galaxies</i></p> <p><i>Description=[High-redshift clusters]</i></p>										
<b>Template</b>	<p><b>Subarray</b></p> <p>FULL</p>										
<b>Dithers</b>	<b>#</b>	<b>Dither Type</b>	<b>Starting Point</b>	<b>Number of Points</b>	<b>Points</b>	<b>Starting Set</b>	<b>Number of Sets</b>	<b>Optimized For</b>	<b>Direction</b>	<b>Pattern Size</b>	
	1	CYCLING	1	10		1	1			MEDIUM	
<b>Spectral Elements</b>	<b>#</b>	<b>Filter</b>	<b>Readout Pattern</b>	<b>Groups/Int</b>	<b>Integrations/Exp</b>	<b>Exposures/Dith</b>	<b>Dither</b>	<b>Total Dithers</b>	<b>Total Integrations</b>	<b>Total Exposure Time</b>	<b>ETC Wkbk.Calc ID</b>
	1	F770W	FASTR1	100	2	1	Dither 1	10	20	5577.83	
	2	F1000W	FASTR1	100	2	1	Dither 1	10	20	5577.83	
	3	F1500W	FASTR1	100	2	1	Dither 1	10	20	5577.83	
	4	F1800W	FASTR1	50	4	1	Dither 1	10	40	5633.331	
<b>Special Requirements</b>	Aperture PA Range 155.83425324 to 158.83425324 Degrees (V3 150.99880427 to 153.99880427)										

Proposal 2736 - Observation 3 - JWST Early Release Observation 10

Wed Jun 29 03:00:59 GMT 2022

<b>Observation</b>	Proposal 2736, Observation 3: SMACS0723 NIRISS slitless Diagnostic Status: Warning Observing Template: NIRISS Wide Field Slitless Spectroscopy											
	(Visit 3:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.											
<b>Fixed Targets</b>	#	Name	Target Coordinates		Targ. Coord. Corrections			Miscellaneous				
	(1)	SMACS-J0723.3-7327	RA: 07 23 18.5783 (110.8274096d) Dec: -73 27 17.05 (-73.45474d) Equinox: J2000									
Comments: This object was generated by the targetselector and retrieved from the NED database. Category=Clusters of Galaxies Description=[High-redshift clusters]												
<b>Dithers</b>	#	Image Dithers					Pattern Size					
	1	8					MEDIUM					
<b>Direct Image</b>	#	Exposure Type	Filter	Grism	Readout Pattern	Groups/Int	Integrations/Exp	Two Extra Dithers	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
	1	DIRECT	F115W		NISRAPID	10	1	YES	1	1	118.104	
	2	DIRECT	F115W		NISRAPID	10	1	YES	4	4	472.418	
	3	DIRECT	F115W		NISRAPID	10	1	YES	3	3	354.313	
	4	DIRECT	F200W		NISRAPID	10	1	YES	1	1	118.104	
	5	DIRECT	F200W		NISRAPID	10	1	YES	4	4	472.418	
	6	DIRECT	F200W		NISRAPID	10	1	YES	3	3	354.313	
<b>Spectral Elements</b>	#	Exposure Type	Filter	Grism	Readout Pattern	Groups/Int	Integrations/Exp	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID	
	1	GRISM	F115W	GR150R	NIS	8	1	8	8	2834.507		
	2	GRISM	F115W	GR150C	NIS	8	1	8	8	2834.507		
	3	GRISM	F200W	GR150R	NIS	8	1	8	8	2834.507		
	4	GRISM	F200W	GR150C	NIS	8	1	8	8	2834.507		
<b>Special Requirements</b>	Aperture PA Range 150.56987018 to 155.56987018 Degrees (V3 150.00860301 to 155.00860301)											



Proposal 2736 - Observation 4 - JWST Early Release Observation 10

Wed Jun 29 03:00:59 GMT 2022

<b>Observation</b>	<b>Proposal 2736, Observation 4: SMACS 0723 Plan 1</b> <b>Diagnostic Status: Warning</b> Observing Template: NIRSpec MultiObject Spectroscopy																																																											
	(SMACS 0723 Plan 1 (Obs 4)) Warning (Form): Config c1-edit (#1) has 2 primary slit traces affected by failed open shutters. (SMACS 0723 Plan 1 (Obs 4)) Warning (Form): Config c1-edit (#2) has 2 primary slit traces affected by failed open shutters. (Visit 4:1) Warning (Form): Overheads are provisional until the Visit Planner has been run. (Visit 4:1) 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>(4)</td> <td>MPTCAT-NIRCAM-ACS</td> <td>RA: 07 23 18.3895 (110.8266229d) Dec: -73 27 13.46 (-73.45374d) Equinox: J2000</td> <td></td> <td></td> </tr> </tbody> </table> Comments: Description=[]										#	Name	Target Coordinates	Targ. Coord. Corrections	Miscellaneous	(4)	MPTCAT-NIRCAM-ACS	RA: 07 23 18.3895 (110.8266229d) Dec: -73 27 13.46 (-73.45374d) 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>ETC Wkbk.Calc ID</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Filter: CLEAR; Readout: NRSRAPIDD2; 7 sources in 2 quads; [ Optimal TA Accuracy ]</td> <td>SAME</td> <td>CLEAR</td> <td>Auto Acq MSA Config</td> <td>NRSRAPIDD2</td> <td>3</td> <td>1</td> <td>4</td> <td>343.577</td> <td></td> </tr> </tbody> </table>										#	Reference Star Bin	Target	Filter	MSA Configuration	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID	1	Filter: CLEAR; Readout: NRSRAPIDD2; 7 sources in 2 quads; [ Optimal TA Accuracy ]	SAME	CLEAR	Auto Acq MSA Config	NRSRAPIDD2	3	1	4	343.577																													
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<b>Template</b>	<table border="1"> <thead> <tr> <th>TA Method</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>After Target ACQ</td> <td>MSA Center</td> <td>Primaries (927 sources)</td> <td>Fillers (2441 sources)</td> <td>jwst-nirspec-mr</td> <td>1.5</td> </tr> </tbody> </table>										TA Method	Obtain Confirmation Images	Science Aperture	Primary Candidate List	Filler Candidate List	Spectral Overlap Map	Spectral Overlap Threshold	MSATA	After Target ACQ	MSA Center	Primaries (927 sources)	Fillers (2441 sources)	jwst-nirspec-mr	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>1538</td> <td>110.814118</td> <td>-73.469238</td> <td>24.18640429410360 7</td> <td>1</td> <td>5305</td> <td>110.856540</td> <td>-73.443853</td> <td>22.47419804672954</td> </tr> <tr> <td>1</td> <td>2572</td> <td>110.766382</td> <td>-73.461125</td> <td>24.64007369091505 2</td> <td>1</td> <td>6155</td> <td>110.850335</td> <td>-73.436829</td> <td>22.35481515069570 7</td> </tr> <tr> <td>1</td> <td>2653</td> <td>110.777847</td> <td>-73.460477</td> <td>24.57839101737601 3</td> <td>1</td> <td>10587</td> <td>110.822447</td> <td>-73.435689</td> <td>23.47931209956839</td> </tr> <tr> <td>1</td> <td>5273</td> <td>110.842821</td> <td>-73.444189</td> <td>24.43571775150471</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>										Visit	ID	RA	Dec	Magnitude	Visit	ID	RA	Dec	Magnitude	1	1538	110.814118	-73.469238	24.18640429410360 7	1	5305	110.856540	-73.443853	22.47419804672954	1	2572	110.766382	-73.461125	24.64007369091505 2	1	6155	110.850335	-73.436829	22.35481515069570 7	1	2653	110.777847	-73.460477	24.57839101737601 3	1	10587	110.822447	-73.435689	23.47931209956839	1	5273	110.842821	-73.444189	24.43571775150471					
	Visit	ID	RA	Dec	Magnitude	Visit	ID	RA	Dec	Magnitude																																																		
	1	1538	110.814118	-73.469238	24.18640429410360 7	1	5305	110.856540	-73.443853	22.47419804672954																																																		
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	1	2653	110.777847	-73.460477	24.57839101737601 3	1	10587	110.822447	-73.435689	23.47931209956839																																																		
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Proposal 2736 - Observation 4 - JWST Early Release Observation 10

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 (G235M/F170LP)	c1-edit	3 Shutter Slitlet	110.879605625 Degrees - 73.456779444444 46 Degrees	301.44918184083 457			3	6
	2	2 (G395M/F290LP)	c1-edit	3 Shutter Slitlet	110.879605625 Degrees - 73.456779444444 46 Degrees	301.44918184083 457			3	6	8840.867
Special Requirements	Aperture PA Range 301.5 to 301.5 Degrees (V3 162.93365479 to 162.93365479) MSA Scheduled Aperture PA 301.49999521 to 301.49999521 Degrees (V3 162.93365 to 162.93365)										

Proposal 2736 - Observation 5 - JWST Early Release Observation 10

Wed Jun 29 03:00:59 GMT 2022

<b>Observation</b>	<b>Proposal 2736, Observation 5: SMACS 0723 Plan 1</b> <b>Diagnostic Status: Warning</b> Observing Template: NIRSspec MultiObject Spectroscopy																																																											
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1	After Target Acq	NRSIRS2RAPID	20	1	1	306.367																																																						

Proposal 2736 - Observation 5 - JWST Early Release Observation 10

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 (G235M/F170LP)	c1-edit	3 Shutter Slitlet	110.879605625 Degrees - 73.456779444444 46 Degrees	301.44918184083 457	3	6	8840.867		
2	2 (G395M/F290LP)	c1-edit	3 Shutter Slitlet	110.879605625 Degrees - 73.456779444444 46 Degrees	301.44918184083 457	3	6	8840.867			
Special Requirements	Aperture PA Range 301.5 to 301.5 Degrees (V3 162.93365479 to 162.93365479)										
	MSA Scheduled Aperture PA 301.49999521 to 301.49999521 Degrees (V3 162.93365 to 162.93365)										

Proposal 2736 - Observation 6 - JWST Early Release Observation 10

Wed Jun 29 03:00:59 GMT 2022

<b>Observation</b>	<b>Proposal 2736, Observation 6: SMACS 0723 Plan 1</b> <b>Diagnostic Status: Warning</b> Observing Template: NIRSspec MultiObject Spectroscopy																																																	
<b>Diagnostics</b>	(SMACS 0723 Plan 1 (Obs 6)) Warning (Form): Config 2736.p1c1-edite1n1 (#1) has 2 primary slit traces affected by failed open shutters. (SMACS 0723 Plan 1 (Obs 6)) Warning (Form): Config 2736.p1c1-edite1n1 (#2) has 2 primary slit traces affected by failed open shutters. (Visit 6:1) Warning (Form): Overheads are provisional until the Visit Planner has been run. (Visit 6:1) 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>(5)</td> <td>MPTCAT-MORESTARS</td> <td>RA: 07 23 18.3895 (110.8266229d) Dec: -73 27 13.46 (-73.45374d) Equinox: J2000</td> <td></td> <td></td> </tr> </tbody> </table> <p>Comments: Description=[]</p>										#	Name	Target Coordinates	Targ. Coord. Corrections	Miscellaneous	(5)	MPTCAT-MORESTARS	RA: 07 23 18.3895 (110.8266229d) Dec: -73 27 13.46 (-73.45374d) Equinox: J2000																																
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1	After Target Acq	NRSIRS2RAPID	20	1	1	306.367																																												

Proposal 2736 - Observation 6 - JWST Early Release Observation 10

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 (G235M/F170LP)	2736.p1c1- edite1n1	3 Shutter Slitlet	110.879605625 Degrees - 73.456779444444 46 Degrees	301.44918184083 457	3	6	8840.867		
2	2 (G395M/F290LP)	2736.p1c1- edite1n1	3 Shutter Slitlet	110.879605625 Degrees - 73.456779444444 46 Degrees	301.44918184083 457	3	6	8840.867			
Special Requirements	Aperture PA Range 301.5 to 301.5 Degrees (V3 162.93365479 to 162.93365479)										
	MSA Scheduled Aperture PA 301.49999521 to 301.49999521 Degrees (V3 162.93365 to 162.93365)										

Proposal 2736 - Observation 7 - JWST Early Release Observation 10

Wed Jun 29 03:00:59 GMT 2022

<b>Observation</b>	<b>Proposal 2736, Observation 7: Plan2-0628-NRSRAPID-TA</b> <b>Diagnostic Status: Warning</b> Observing Template: NIRSpec MultiObject Spectroscopy										
	(Plan2-0628-NRSRAPID-TA (Obs 7)) Warning (Form): Config c1-2 (#1) has 2 master background shutters affected by failed open or closed shutters. (Plan2-0628-NRSRAPID-TA (Obs 7)) Warning (Form): Config c1-2 (#1) has 2 primary slit traces affected by failed open shutters. (Plan2-0628-NRSRAPID-TA (Obs 7)) Warning (Form): Config c1-2 (#2) has 2 master background shutters affected by failed open or closed shutters. (Plan2-0628-NRSRAPID-TA (Obs 7)) Warning (Form): Config c1-2 (#2) has 2 primary slit traces affected by failed open shutters. (Visit 7:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.										
<b>Diagnostics</b>											
<b>Fixed Targets</b>	<b>#</b>	<b>Name</b>	<b>Target Coordinates</b>			<b>Targ. Coord. Corrections</b>			<b>Miscellaneous</b>		
	(6)	MPTCAT-0628	RA: 07 23 18.4174 (110.8267392d) Dec: -73 27 13.48 (-73.45374d) 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>ETC Wkbk.Calc ID</b>
	1	Filter: F110W; Readout: NRSRAPID; 8 sources in 2 quads; [ Optimal TA Accuracy ]	SAME	F110W	Auto Acq MSA Config	NRSRAPID	3	1	4	171.788	
<b>Template</b>	<b>TA Method</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	After Target ACQ	MSA Center	Primaries-0628 (928 sources)	Fillers-0628 (2308 sources)	jwst-nirspec-mr	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	8052	110.818197	-73.462673	19.78710747705521	1	9050	110.811845	-73.453291	19.78720761164445	5
	1	8303	110.774348	-73.460089	20.12689659988748	1	9760	110.786487	-73.446465	20.89264094252843	8
	1	8469	110.804199	-73.458251	21.30941605688512	1	10074	110.833509	-73.442225	21.07387100764344	7
	1	8782	110.835580	-73.455802	19.68995325379536	1	10547	110.840599	-73.436021	19.74339254486963	6
<b>Confirmation</b>	<b>#</b>	<b>Confirmation Type</b>	<b>Conf. Readout Pattern</b>	<b>Conf. Groups/Int</b>	<b>Conf. Integrations/Exp</b>	<b>Conf. Total Integrations</b>	<b>Conf. Total Exposure Time</b>				
	1	After Target Acq	NRSIRS2RAPID	20	1	1	306.367				

Proposal 2736 - Observation 7 - JWST Early Release Observation 10

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 (G235M/F170LP)	c1-2	3 Shutter Slitlet	110.86405991666 668 Degrees - 73.456896388888 88 Degrees	308.96420338474 64			3	6
	2	2 (G395M/F290LP)	c1-2	3 Shutter Slitlet	110.86405991666 668 Degrees - 73.456896388888 88 Degrees	308.96420338474 64			3	6	8840.867
Special Requirements	Aperture PA Range 309 to 309 Degrees (V3 170.43365479 to 170.43365479) MSA Scheduled Aperture PA 308.99999521 to 308.99999521 Degrees (V3 170.43365 to 170.43365)										



Proposal 2736 - Observation 8 - JWST Early Release Observation 10

Wed Jun 29 03:00:59 GMT 2022

<b>Observation</b>	<b>Proposal 2736, Observation 8: Plan2-0628-NRSRAPIDD2-TA</b> <b>Diagnostic Status: Warning</b> Observing Template: NIRSspec MultiObject Spectroscopy										
	(Plan2-0628-NRSRAPIDD2-TA (Obs 8)) Warning (Form): Config c1-2 (#1) has 2 master background shutters affected by failed open or closed shutters. (Plan2-0628-NRSRAPIDD2-TA (Obs 8)) Warning (Form): Config c1-2 (#1) has 2 primary slit traces affected by failed open shutters. (Plan2-0628-NRSRAPIDD2-TA (Obs 8)) Warning (Form): Config c1-2 (#2) has 2 master background shutters affected by failed open or closed shutters. (Plan2-0628-NRSRAPIDD2-TA (Obs 8)) Warning (Form): Config c1-2 (#2) has 2 primary slit traces affected by failed open shutters. (Visit 8:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.										
<b>Diagnostics</b>											
<b>Fixed Targets</b>	<b>#</b>	<b>Name</b>	<b>Target Coordinates</b>			<b>Targ. Coord. Corrections</b>			<b>Miscellaneous</b>		
	(6)	MPTCAT-0628	RA: 07 23 18.4174 (110.8267392d) Dec: -73 27 13.48 (-73.45374d) 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>ETC Wkbk.Calc ID</b>
	1	Filter: CLEAR; Readout: NRSRAPIDD2; 8 sources in 2 quads; [ Optimal TA Accuracy ]	SAME	CLEAR	Auto Acq MSA Config	NRSRAPIDD2	3	1	4	343.577	
<b>Template</b>	<b>TA Method</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	After Target ACQ	MSA Center	Primaries-0628 (928 sources)	Fillers-0628 (2308 sources)	jwst-nirspec-mr	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	4218	110.787708	-73.451078	23.64131289883894	1	9897	110.783998	-73.444352	22.37799845729354	
	1	5305	110.856678	-73.443882	22.51349376480338	1	10587	110.822663	-73.435689	23.47349762176706	
	1	6155	110.850544	-73.436852	22.38977776010599	1	10601	110.845404	-73.435356	23.40741597141723	
	1	9869	110.853296	-73.444946	22.62779509896111	1	10690	110.849415	-73.432701	23.28616440729756	
<b>Confirmation</b>	<b>#</b>	<b>Confirmation Type</b>	<b>Conf. Readout Pattern</b>	<b>Conf. Groups/Int</b>	<b>Conf. Integrations/Exp</b>	<b>Conf. Total Integrations</b>	<b>Conf. Total Exposure Time</b>				
	1	After Target Acq	NRSIRS2RAPID	20	1	1	306.367				

Proposal 2736 - Observation 8 - JWST Early Release Observation 10

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 (G235M/F170LP)	c1-2	3 Shutter Slitlet	110.86405991666 668 Degrees - 73.456896388888 88 Degrees	308.96420338474 64			3	6
	2	2 (G395M/F290LP)	c1-2	3 Shutter Slitlet	110.86405991666 668 Degrees - 73.456896388888 88 Degrees	308.96420338474 64			3	6	8840.867
Special Requirements	Aperture PA Range 309 to 309 Degrees (V3 170.43365479 to 170.43365479) MSA Scheduled Aperture PA 308.99999521 to 308.99999521 Degrees (V3 170.43365 to 170.43365)										