



4291 - Galaxy angular momentum alignment with filaments at $z \sim 3$: The effect of large scale structure on galaxies

Cycle: 2, Proposal Category: GO

INVESTIGATORS

<i>Name</i>	<i>Institution</i>
Dr. Susan Kassin (PI)	Space Telescope Science Institute
Dr. Camilla Pacifici (CoI) (CoPI) (Contact)	Space Telescope Science Institute
Janvi Madhani (CoI)	The Johns Hopkins University
Celia R Mulcahey (CoI)	The Johns Hopkins University
Mr. Ezra Sukay (CoI)	The Johns Hopkins University
Ying Qin (CoI)	The Johns Hopkins University
Dr. Benjamin Weiner (CoI)	University of Arizona
Dr. Christopher Nicholas Andrew Willmer (CoI)	University of Arizona
Dr. Julien Devriendt (CoI) (ESA Member)	University of Oxford
Dr. Adrienne Slyz (CoI) (ESA Member)	University of Oxford
M. Christophe Pichon (CoI) (ESA Member)	CNRS, Institut d'Astrophysique de Paris
Alexander de la Vega (CoI)	University of California - Riverside
Dr. Mia Bovill (CoI)	University of Maryland
Dr. Patrick Michael Ogle (CoI)	Space Telescope Science Institute
Dr. Charlotte M.E. Welker (CoI)	City University of New York - College of Technology
Prof. Joel R. Primack (CoI)	University of California - Santa Cruz
Prof. Pablo G. Perez-Gonzalez (CoI) (ESA Member)	Centro de Astrobiologia (CSIC/INTA) Inst. Nac. de Tec. Aero.
Dr. Marc Rafelski (CoI)	Space Telescope Science Institute
Dr. Norbert Pirzkal (CoI) (ESA Member)	Space Telescope Science Institute - ESA - JWST
Dr. Nimish P. Hathi (CoI)	Space Telescope Science Institute
Dr. Benne Willem Holwerda (CoI)	University of Louisville Research Foundation, Inc.

JWST Proposal 4291 (Created: Wednesday, March 5, 2025, 11:00:59AM Eastern Standard Time) - Overview

<i>Name</i>	<i>Institution</i>
Dr. Henry C. Ferguson (CoI)	Space Telescope Science Institute
Dr. Viraj Pandya (CoI)	Columbia University in the City of New York
Ray A. Lucas (CoI)	Space Telescope Science Institute
Dr. Guillermo Barro (CoI)	University of the Pacific
Dr. Jeyhan Kartaltepe (CoI)	Rochester Institute of Technology
Dr. Marc Huertas-Company (CoI) (ESA Member)	Instituto de Astrofísica de Canarias
Dr. Avishai Dekel (CoI)	The Hebrew University
Prof. Shardha Jogee (CoI)	University of Texas at Austin
Dr. Jonathan P. Gardner (CoI)	NASA Goddard Space Flight Center
Dr. Anton M. Koekemoer (CoI)	Space Telescope Science Institute
Dr. Ricardo Amorin (CoI)	Universidad de La Serena
Prof. Dale D. Kocevski (CoI)	Colby College
Dr. Weichen Wang (CoI) (ESA Member)	University of Milano-Bicocca
Prof. Mauro Giavalisco (CoI)	University of Massachusetts - Amherst
Prof. Romeel Dave (CoI) (ESA Member)	University of Edinburgh, Institute for Astronomy
Kartheik Iyer (CoI)	Columbia University in the City of New York
Dr. Pablo Arrabal Haro (CoI)	NASA Goddard Space Flight Center
Mr. Louis Bergeron (CoI)	Space Telescope Science Institute
Dr. Letizia Stanghellini (CoI)	NOIRLab - (AZ)

OBSERVATIONS

<i>Folder</i>	<i>Observation</i>	<i>Label</i>	<i>Observing Template</i>	<i>Science Target</i>
Observation Folder				
	1	Obs1_16_2x2x0p1	NIRSpec MultiObject Spectroscopy	(17) Obs1_16
	2	Obs2_1080_1x2x0p1_mc50	NIRSpec MultiObject Spectroscopy	(18) Obs2_1080
	3	Obs3_8_2x2x0.1_mc50_again	NIRSpec MultiObject Spectroscopy	(19) Obs3_8
	7	Obs7_15_2x2x0.1_mc50_v5	NIRSpec MultiObject Spectroscopy	(24) Obs7_15_TAs_corrected
	4	obs4_358_edited_onerrorrow_0x0x0p2	NIRSpec MultiObject Spectroscopy	(16) Obs4_358_edited

<i>Folder</i>	<i>Observation</i>	<i>Label</i>	<i>Observing Template</i>	<i>Science Target</i>
	5	Obs5_33_2x2x0.1_mc50	NIRSpec MultiObject Spectroscopy	(20) Obs5_33
	6	Obs6_40_2x2x0p1_mc50	NIRSpec MultiObject Spectroscopy	(21) Obs6_4291_40

ABSTRACT

We propose NIRSpec MSA spectroscopy to measure, for the first time, the evolution of the alignment of galaxy angular momentum vectors with the surrounding large-scale filamentary structure in the Universe by measuring it at $z\sim 3$ and comparing with local measurements. This probes the influence of accretion from the cosmic web on the angular momentum of star-forming galaxies. We will test theory predictions that galaxies should be more aligned with filaments at higher z . Locally, kinematic surveys find that the angular momentum of galaxies is statistically aligned with the cosmic web for late-type star forming galaxies, while orthogonal for early types (e.g., Kraljic et al 2021). We propose a mini-MaNGA-like survey of 250 star-forming galaxies at $z\sim 3$ in the CEERS ERS field with the G235H grating. We will use the NIRSpec MSA in “slitlet stepping” mode to create high quality sub-kiloparsec 2D IFU-like velocity maps. This allows a high multiplex to obtain many kinematic maps in a modest amount of observing time. We will measure the kinematic major axes to obtain the directions of angular momenta, and correlate these directions with filamentary structure traced by spectroscopic and photometric redshifts. We will also measure the 3D kinematics of typical star-forming galaxies at $z\sim 3$, extending current observations to higher redshifts, and enabling emission line diagnostic science. We waive the proprietary period and will release data cubes and analysis software publicly.

OBSERVING DESCRIPTION

We propose to observe in 6 pointings in the EGS field using the "slitlet stepping" technique and the high resolution grating on NIRSpec (G235H/F170LP). The slitlet steps vary from 2 to 6 steps per galaxy, depending on its size. The slitlets vary also in length from 2 to 5 shutters to cover the entire galaxies. We strongly recommend the reviewers to refer to the technical justification for more details about slitlet stepping.

The 6 pointings cover an area of 100 arcmin^2 . We target star forming galaxies at stellar masses larger than 10^9 solar masses in the redshift range $3.0 < z < 3.4$ where we want to observe the H α emission line to a signal-to-noise of 10 in each slitlet step.

We select the targets from the CEERS catalogs (private communication) and from the CANDELS catalog (Stefanon et al. 2017) to cover the gaps between the CEERS NIRCам pointings. We have developed custom software to optimize the position and number of sources observed in each pointing making sure that the features of interest (e.g., the H α emission line) always falls on the detector. Features falling off the detector or in the

gaps can be a problem with the very long spectra of the G235H grating. This is why we have developed a custom version of the MSA Planning Tool (MPT). However, we run our final pointings through the MPT, forcing it to find them to first order, in order to take into instrumental effects such as stuck open/closed shutters and corrections such as the differential velocity aberration.

With the selected catalogs and our custom software, we design MSA masks in each of the pointings and for each of the 6 slitlet steps, such that each pointing is observed 6 times offsetting the MSA mask by +1, -1, +2, -2, and +3 shutters and reconfiguring to get a longer exposure time on the faintest parts of the galaxies. This results in 36 MSA masks. The exposure times are calculated using ETC Workbook 144536 using various galaxy templates and normalizations to find the appropriate exposures to get the required signal-to-noise ratio in the integrated H α emission line. The exposure time per step is 73 minutes using subarray FULL, readout pattern NRSIRS2, 15 groups, 1 integration per exposure, and 4 exposures in a 4-point dither pattern. We enter the dither pattern manually by moving the source within the shutter with offsets of 0.185 and 0.094. We demonstrate the pattern in the first pointing.

Because we are doing slitlet stepping, some galaxies may not show as being inside the opened shutters when viewed in the MSA Planning Tool. This is because the input RAs and DEC's represent the coordinates of galaxy centers, and some of the slitlet steps observe their outer parts. We have verified that the opened shutters do indeed land on the parts of these galaxies that we want to observe using the CEERS NIRC'cam images. A total of 150 objects will be observed.

We have input the pointings at a PA of 310, which is the most efficient to cover the field.

Proposal 4291 - Targets - Galaxy angular momentum alignment with filaments at $z \sim 3$: The effect of large scale structure on galaxies

#	Name	Target Coordinates	Targ. Coord. Corrections	Miscellaneous
(1)	CEERSREGION1POINTIDS1 20230126	RA: 14 19 54.4119 (214.9767162d) Dec: +52 52 34.71 (52.87631d) Equinox: J2000		
<i>Comments:</i> <i>Description=[]</i>				
(2)	CEERSREGION2POINTIDS8 020230126	RA: 14 19 36.7277 (214.9030321d) Dec: +52 54 17.26 (52.90479d) Equinox: J2000		
<i>Comments:</i> <i>Description=[]</i>				
(3)	CEERSREGION3POINTIDS4 1620230126	RA: 14 19 40.7155 (214.9196479d) Dec: +52 50 33.12 (52.84253d) Equinox: J2000		
<i>Comments:</i> <i>Description=[]</i>				
(4)	CEERSREGION4POINTIDS5 2520230126	RA: 14 19 29.0469 (214.8710287d) Dec: +52 51 24.70 (52.85686d) Equinox: J2000		
<i>Comments:</i> <i>Description=[]</i>				
(5)	CEERSREGION5POINTIDS5 9820230126	RA: 14 19 28.2063 (214.8675262d) Dec: +52 48 35.41 (52.80984d) Equinox: J2000		
<i>Comments:</i> <i>Description=[]</i>				
(6)	CEERSREGION6POINTIDS4 4020230126	RA: 14 19 13.5066 (214.8062775d) Dec: +52 49 37.47 (52.82708d) Equinox: J2000		
<i>Comments:</i> <i>Description=[]</i>				
(7)	Obs1_2422	RA: 14 19 50.3624 (214.9598433d) Dec: +52 52 3.88 (52.86774d) Equinox: J2000		
<i>Comments:</i> <i>Description=[]</i>				
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<i>Comments:</i> <i>Description=[]</i>				
(10)	Obs5_137	RA: 14 19 21.6888 (214.8403700d) Dec: +52 51 9.13 (52.85254d) Equinox: J2000		
<i>Comments:</i> <i>Description=[]</i>				

Fixed Targets

Proposal 4291 - Targets - Galaxy angular momentum alignment with filaments at $z \sim 3$: The effect of large scale structure on galaxies

(11)	Obs2_902	RA: 14 19 26.5304 (214.8605433d) Dec: +52 50 37.87 (52.84385d) Equinox: J2000
<i>Comments:</i> <i>Description=[]</i>		
(13)	Obs6_391	RA: 14 19 45.9729 (214.9415537d) Dec: +52 54 3.30 (52.90092d) Equinox: J2000
<i>Comments:</i> <i>Description=[]</i>		
(14)	Obs4_90	RA: 14 19 27.9412 (214.8664217d) Dec: +52 52 22.17 (52.87282d) Equinox: J2000
<i>Comments:</i> <i>Description=[]</i>		
(15)	Obs4_358	RA: 14 19 27.9412 (214.8664217d) Dec: +52 52 37.04 (52.87696d) Equinox: J2000
<i>Comments:</i> <i>Description=[]</i>		
(16)	Obs4_358_edited	RA: 14 19 28.0904 (214.8670433d) Dec: +52 52 37.04 (52.87696d) Equinox: J2000
<i>Comments:</i> <i>Description=[]</i>		
(17)	Obs1_16	RA: 14 19 51.8619 (214.9660913d) Dec: +52 52 25.96 (52.87388d) Equinox: J2000
<i>Comments:</i> <i>Description=[]</i>		
(18)	Obs2_1080	RA: 14 19 28.2760 (214.8678167d) Dec: +52 49 55.32 (52.83203d) Equinox: J2000
<i>Comments:</i> <i>Description=[]</i>		
(19)	Obs3_8	RA: 14 19 17.4953 (214.8228971d) Dec: +52 47 39.47 (52.79430d) Equinox: J2000
<i>Comments:</i> <i>Description=[]</i>		
(20)	Obs5_33	RA: 14 19 19.3450 (214.8306042d) Dec: +52 51 0.93 (52.85026d) Equinox: J2000
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Proposal 4291 - Targets - Galaxy angular momentum alignment with filaments at $z \sim 3$: The effect of large scale structure on galaxies

(21)	Obs6_4291_40	RA: 14 19 41.1703 (214.9215429d) Dec: +52 54 47.10 (52.91308d) Equinox: J2000
<i>Comments:</i> <i>Description=[]</i>		
(22)	Obs7_15	RA: 14 19 17.7635 (214.8240146d) Dec: +52 47 19.22 (52.78867d) Equinox: J2000
<i>Comments:</i> <i>Description=[]</i>		
(23)	Obs7_15_more_MSATA	RA: 14 19 17.4953 (214.8228971d) Dec: +52 47 22.36 (52.78954d) Equinox: J2000
<i>Comments:</i> <i>Description=[]</i>		
(24)	Obs7_15_TAs_corrected	RA: 14 19 17.4953 (214.8228971d) Dec: +52 47 22.36 (52.78954d) Equinox: J2000
<i>Comments:</i> <i>Description=[]</i>		

Proposal 4291 - Observation 1 - Galaxy angular momentum alignment with filaments at z ~ 3: The effect of large scale structure on gal...

Wed Mar 05 16:00:59 GMT 2025

Observation	Proposal 4291, Observation 1: Obs1_16_2x2x0p1 Diagnostic Status: Warning Observing Template: NIRSpec MultiObject Spectroscopy																																																	
	(Obs1_16_2x2x0p1 (Obs 1)) Warning (Form): Config c1 (#10) has 1 master background shutters affected by failed open or closed shutters. (Obs1_16_2x2x0p1 (Obs 1)) Warning (Form): Config c1 (#6) has 1 master background shutters affected by failed open or closed shutters. (Obs1_16_2x2x0p1 (Obs 1)) Warning (Form): Config c1 (#7) has 1 master background shutters affected by failed open or closed shutters. (Obs1_16_2x2x0p1 (Obs 1)) Warning (Form): Config obs1_step_p1 (#1) has 1 filler slits affected by failed closed shutters. (Obs1_16_2x2x0p1 (Obs 1)) Warning (Form): Config obs1_step_p1 (#1) has 1 primary slits affected by failed closed shutters. (Obs1_16_2x2x0p1 (Obs 1)) Warning (Form): Config obs1_step_p1 (#2) has 1 master background shutters affected by failed open or closed shutters. (Obs1_16_2x2x0p1 (Obs 1)) Warning (Form): Config obs1_step_p1 (#3) has 1 filler slits affected by failed closed shutters. (Obs1_16_2x2x0p1 (Obs 1)) Warning (Form): Config obs1_step_p1 (#3) has 1 primary slits affected by failed closed shutters. (Obs1_16_2x2x0p1 (Obs 1)) Warning (Form): Config obs1_step_p1 (#4) has 1 filler slits affected by failed closed shutters. (Obs1_16_2x2x0p1 (Obs 1)) Warning (Form): Config obs1_step_p1 (#4) has 1 primary slits affected by failed closed shutters. (Obs1_16_2x2x0p1 (Obs 1)) Warning (Form): Config obs1_step_p1 (#5) has 1 master background shutters affected by failed open or closed shutters. (Visit 1:1) Warning (Form): Overheads are provisional until the Visit Planner has been run. (Visit 1:1) Warning (Form): The recommended value is 8 Reference Stars for this template.																																																	
Diagnostics	<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>Obs1_16</td> <td>RA: 14 19 51.8619 (214.9660913d) Dec: +52 52 25.96 (52.87388d) Equinox: J2000</td> <td></td> <td></td> </tr> </tbody> </table> Comments: Description=[]										#	Name	Target Coordinates	Targ. Coord. Corrections	Miscellaneous	(17)	Obs1_16	RA: 14 19 51.8619 (214.9660913d) Dec: +52 52 25.96 (52.87388d) Equinox: J2000																																
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Fixed Targets	<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: NRSRAPIDD6; 5 sources in 3 quads; [Optimal TA Accuracy]</td> <td>SAME</td> <td>CLEAR</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	ETC Wkbk.Calc ID	1	Filter: CLEAR; Readout: NRSRAPIDD6; 5 sources in 3 quads; [Optimal TA Accuracy]	SAME	CLEAR	Auto Acq MSA Config	NRSRAPIDD6	3	1	4	687.153																			
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Acquisition	<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>p16 Galaxies (144 sources)</td> <td>p16 Galaxies (144 sources)</td> <td>jwst-nirspec-g235h</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	p16 Galaxies (144 sources)	p16 Galaxies (144 sources)	jwst-nirspec-g235h	1.5																								
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Template	<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>45362</td> <td>214.920326</td> <td>52.889680</td> <td>24.696</td> <td>1</td> <td>75469</td> <td>214.959844</td> <td>52.867806</td> <td>24.145</td> </tr> <tr> <td>1</td> <td>49146</td> <td>214.980480</td> <td>52.907898</td> <td>25.03</td> <td>1</td> <td>84771</td> <td>214.935865</td> <td>52.858941</td> <td>25.365</td> </tr> <tr> <td>1</td> <td>74019</td> <td>214.981322</td> <td>52.892344</td> <td>23.717</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	45362	214.920326	52.889680	24.696	1	75469	214.959844	52.867806	24.145	1	49146	214.980480	52.907898	25.03	1	84771	214.935865	52.858941	25.365	1	74019	214.981322	52.892344	23.717					
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1	45362	214.920326	52.889680	24.696	1	75469	214.959844	52.867806	24.145																																									
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Reference Stars																																																		

Proposal 4291 - Observation 1 - Galaxy angular momentum alignment with filaments at $z \sim 3$: The effect of large scale structure on gal...

#	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 (G235H/F170LP)	obs1_step_p1		214.96593083333 335 Degrees 52.877805555555 554 Degrees	346.20037304854 06	1.0	-2.0	1	1	1911.145
2	1 (G235H/F170LP)	obs1_step_p1		214.96593083333 335 Degrees 52.877805555555 554 Degrees	346.20035286408 94	1.333	-2.25	1	1	1911.145
3	1 (G235H/F170LP)	obs1_step_p1		214.96593083333 335 Degrees 52.877805555555 554 Degrees	346.20041629298 476	0.667	-2.25	1	1	1911.145
4	1 (G235H/F170LP)	obs1_step_p1		214.96593083333 335 Degrees 52.877805555555 554 Degrees	346.20039323267 696	0.667	-1.75	1	1	1911.145
5	1 (G235H/F170LP)	obs1_step_p1		214.96593083333 335 Degrees 52.877805555555 554 Degrees	346.20032980499 565	1.333	-1.75	1	1	1911.145
6	1 (G235H/F170LP)	c1		214.96593091666 665 Degrees 52.877806111111 11 Degrees	346.20048853659 057	-0.333	-1.75	1	1	1911.145
7	1 (G235H/F170LP)	c1		214.96593091666 665 Degrees 52.877806111111 11 Degrees	346.20051159872 156	-0.333	-2.25	1	1	1911.145
8	1 (G235H/F170LP)	c1		214.96593091666 665 Degrees 52.877806111111 11 Degrees	346.20044816959 93	0.333	-2.25	1	1	1911.145
9	1 (G235H/F170LP)	c1		214.96593091666 665 Degrees 52.877806111111 11 Degrees	346.20042510868 245	0.333	-1.75	1	1	1911.145
10	1 (G235H/F170LP)	c1		214.96593091666 665 Degrees 52.877806111111 11 Degrees	346.20046835325 21	0.0	-2.0	1	1	1911.145
11	1 (G235H/F170LP)	obs1_step_m1		214.96593091666 665 Degrees 52.877806111111 11 Degrees	346.20056359143 37	-1.0	-2.0	1	1	1911.145
12	1 (G235H/F170LP)	obs1_step_m1		214.96593091666 665 Degrees 52.877806111111 11 Degrees	346.20060683792 91	-1.333	-2.25	1	1	1911.145
13	1 (G235H/F170LP)	obs1_step_m1		214.96593091666 665 Degrees 52.877806111111 11 Degrees	346.20054340857 865	-0.667	-2.25	1	1	1911.145
14	1 (G235H/F170LP)	obs1_step_m1		214.96593091666 665 Degrees 52.877806111111 11 Degrees	346.20052034583 88	-0.667	-1.75	1	1	1911.145

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#	Exposure Specification	MSA Configuration	Nod Pattern	Pointing	Aperture PA	Dispersion Offset (Shutters)	Cross-Dispersion Offset (Shutters)	Total Dithers	Total Integrations	Total Exposure Time
15	1 (G235H/F170LP)	obs1_step_m1		214.96593091666 665 Degrees 52.877806111111 11 Degrees	346.20058377397 51	-1.333	-1.75	1	1	1911.145
Special Requirements	MSA Scheduled Aperture PA 346.2005 to 346.2005 Degrees (V3 207.62593 to 207.62593)									

Proposal 4291 - Observation 2 - Galaxy angular momentum alignment with filaments at z ~ 3: The effect of large scale structure on gal...

Wed Mar 05 16:00:59 GMT 2025

Observation	Proposal 4291, Observation 2: Obs2_1080_1x2x0p1_mc50 Diagnostic Status: Warning Observing Template: NIRSpec MultiObject Spectroscopy										
	(Obs2_1080_1x2x0p1_mc50 (Obs 2)) Warning (Form): Config c1_org (#10) has 1 filler slits affected by failed closed shutters. (Obs2_1080_1x2x0p1_mc50 (Obs 2)) Warning (Form): Config c1_org (#10) has 1 primary slits affected by failed closed shutters. (Obs2_1080_1x2x0p1_mc50 (Obs 2)) Warning (Form): Config c1_org (#6) has 1 master background shutters affected by failed open or closed shutters. (Obs2_1080_1x2x0p1_mc50 (Obs 2)) Warning (Form): Config c1_org (#7) has 1 master background shutters affected by failed open or closed shutters. (Obs2_1080_1x2x0p1_mc50 (Obs 2)) Warning (Form): Config c1_org (#8) has 1 filler slits affected by failed closed shutters. (Obs2_1080_1x2x0p1_mc50 (Obs 2)) Warning (Form): Config c1_org (#8) has 1 primary slits affected by failed closed shutters. (Obs2_1080_1x2x0p1_mc50 (Obs 2)) Warning (Form): Config c1_org (#9) has 1 filler slits affected by failed closed shutters. (Obs2_1080_1x2x0p1_mc50 (Obs 2)) Warning (Form): Config c1_org (#9) has 1 primary slits affected by failed closed shutters. (Obs2_1080_1x2x0p1_mc50 (Obs 2)) Warning (Form): Config obs2_step_m1 (#1) has 1 filler slits affected by failed closed shutters. (Obs2_1080_1x2x0p1_mc50 (Obs 2)) Warning (Form): Config obs2_step_m1 (#1) has 1 master background shutters affected by failed open or closed shutters. (Obs2_1080_1x2x0p1_mc50 (Obs 2)) Warning (Form): Config obs2_step_m1 (#1) has 1 primary slits affected by failed closed shutters. (Obs2_1080_1x2x0p1_mc50 (Obs 2)) Warning (Form): Config obs2_step_m1 (#2) has 2 master background shutters affected by failed open or closed shutters. (Obs2_1080_1x2x0p1_mc50 (Obs 2)) Warning (Form): Config obs2_step_m1 (#3) has 2 master background shutters affected by failed open or closed shutters. (Obs2_1080_1x2x0p1_mc50 (Obs 2)) Warning (Form): Config obs2_step_m1 (#4) has 2 master background shutters affected by failed open or closed shutters. (Obs2_1080_1x2x0p1_mc50 (Obs 2)) Warning (Form): Config obs2_step_m1 (#5) has 1 filler slits affected by failed closed shutters. (Obs2_1080_1x2x0p1_mc50 (Obs 2)) Warning (Form): Config obs2_step_m1 (#5) has 1 master background shutters affected by failed open or closed shutters. (Obs2_1080_1x2x0p1_mc50 (Obs 2)) Warning (Form): Config obs2_step_m1 (#5) has 1 primary slits affected by failed closed shutters. (Obs2_1080_1x2x0p1_mc50 (Obs 2)) Warning (Form): Config obs2_step_p1 (#11) has 1 master background shutters affected by failed open or closed shutters. (Obs2_1080_1x2x0p1_mc50 (Obs 2)) Warning (Form): Config obs2_step_p1 (#12) has 1 master background shutters affected by failed open or closed shutters. (Obs2_1080_1x2x0p1_mc50 (Obs 2)) Warning (Form): Config obs2_step_p1 (#15) has 1 master background shutters affected by failed open or closed shutters. (Visit 2:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.										
Diagnosics											
Fixed Targets	#	Name	Target Coordinates			Targ. Coord. Corrections			Miscellaneous		
	(18)	Obs2_1080	RA: 14 19 28.2760 (214.8678167d) Dec: +52 49 55.32 (52.83203d) Equinox: J2000								
Comments: Description=[]											
Acquisition	#	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: NRSRAPIDD6; 8 sources in 4 quads; [Optimal TA Accuracy]	SAME	CLEAR	Auto Acq MSA Config	NRSRAPIDD6	3	1	4	687.153	
Template	TA Method	HFF Readout Mode	Obtain Confirmation Images	Science Aperture	Primary Candidate List	Filler Candidate List	Spectral Overlap Map	Spectral Overlap Threshold			
	MSATA	false	No	MSA Center	1080 Galaxies (181 sources)	1080 Galaxies (181 sources)	jwst-nirspec-g235h	1.5			

Proposal 4291 - Observation 2 - Galaxy angular momentum alignment with filaments at $z \sim 3$: The effect of large scale structure on gal...

Reference Stars	Visit	ID	RA	Dec	Magnitude	Visit	ID	RA	Dec	Magnitude
	1	55828	214.860619	52.844000	24.996	1	62526	214.891278	52.834236	24.652
	1	58294	214.887694	52.850922	23.89	1	62864	214.896305	52.836311	25.304
	1	58300	214.895617	52.856493	23.671	1	85539	214.872318	52.809031	23.926
	1	60867	214.847274	52.812770	24.326	1	91588	214.923780	52.809829	25.025

Proposal 4291 - Observation 2 - Galaxy angular momentum alignment with filaments at $z \sim 3$: The effect of large scale structure on gal...

#	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 (G235H/F170LP)	obs2_step_m1		214.87642291666 668 Degrees 52.824661111111 11 Degrees	346.22802779504 036	-1.0	-2.0	1	1	1838.2
2	1 (G235H/F170LP)	obs2_step_m1		214.87642291666 668 Degrees 52.824661111111 11 Degrees	346.22800762474 18	-0.667	-2.25	1	1	1838.2
3	1 (G235H/F170LP)	obs2_step_m1		214.87642291666 668 Degrees 52.824661111111 11 Degrees	346.22807093926 934	-1.333	-2.25	1	1	1838.2
4	1 (G235H/F170LP)	obs2_step_m1		214.87642291666 668 Degrees 52.824661111111 11 Degrees	346.22804796502 54	-1.333	-1.75	1	1	1838.2
5	1 (G235H/F170LP)	obs2_step_m1		214.87642291666 668 Degrees 52.824661111111 11 Degrees	346.22798465170 95	-0.667	-1.75	1	1	1838.2
6	1 (G235H/F170LP)	c1_org		214.87642295833 334 Degrees 52.824660833333 34 Degrees	346.22795293289 52	-0.333	-1.75	1	1	1838.2
7	1 (G235H/F170LP)	c1_org		214.87642295833 334 Degrees 52.824660833333 34 Degrees	346.22797590531 95	-0.333	-2.25	1	1	1838.2
8	1 (G235H/F170LP)	c1_org		214.87642295833 334 Degrees 52.824660833333 34 Degrees	346.22791259102 03	0.333	-2.25	1	1	1838.2
9	1 (G235H/F170LP)	c1_org		214.87642295833 334 Degrees 52.824660833333 34 Degrees	346.22788961980 76	0.333	-1.75	1	1	1838.2
10	1 (G235H/F170LP)	c1_org		214.87642295833 334 Degrees 52.824660833333 34 Degrees	346.22793276211 485	0.0	-2.0	1	1	1838.2
11	1 (G235H/F170LP)	obs2_step_p1		214.87642295833 334 Degrees 52.824660833333 34 Degrees	346.22783769667 853	1.0	-2.0	1	1	1838.2
12	1 (G235H/F170LP)	obs2_step_p1		214.87642295833 334 Degrees 52.824660833333 34 Degrees	346.22781752478 65	1.333	-2.25	1	1	1838.2
13	1 (G235H/F170LP)	obs2_step_p1		214.87642295833 334 Degrees 52.824660833333 34 Degrees	346.22788083886 076	0.667	-2.25	1	1	1838.2
14	1 (G235H/F170LP)	obs2_step_p1		214.87642295833 334 Degrees 52.824660833333 34 Degrees	346.22785786825 57	0.667	-1.75	1	1	1838.2

Proposal 4291 - Observation 2 - Galaxy angular momentum alignment with filaments at z ~ 3: The effect of large scale structure on gal...

#	Exposure Specification	MSA Configuration	Nod Pattern	Pointing	Aperture PA	Dispersion Offset (Shutters)	Cross-Dispersion Offset (Shutters)	Total Dithers	Total Integrations	Total Exposure Time
15	1 (G235H/F170LP)	obs2_step_p1		214.87642295833 334 Degrees 52.824660833333 34 Degrees	346.22779455539 296	1.333	-1.75	1	1	1838.2
Special Requirements	MSA Scheduled Aperture PA 346.2210 to 346.2210 Degrees (V3 207.64645 to 207.64645)									

Proposal 4291 - Observation 3 - Galaxy angular momentum alignment with filaments at z ~ 3: The effect of large scale structure on gal...

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Observation	<p>Proposal 4291, Observation 3: Obs3_8_2x2x0.1_mc50_again</p> <p>Diagnostic Status: Warning</p> <p>Observing Template: NIRSpec MultiObject Spectroscopy</p>																																																	
Diagnostics	<p>(Obs3_8_2x2x0.1_mc50_again (Obs 3)) Warning (Form): Config obs3_step_m1 (#10) has 1 filler slits affected by failed closed shutters.</p> <p>(Obs3_8_2x2x0.1_mc50_again (Obs 3)) Warning (Form): Config obs3_step_m1 (#10) has 1 primary slits affected by failed closed shutters.</p> <p>(Obs3_8_2x2x0.1_mc50_again (Obs 3)) Warning (Form): Config obs3_step_m1 (#6) has 1 filler slits affected by failed closed shutters.</p> <p>(Obs3_8_2x2x0.1_mc50_again (Obs 3)) Warning (Form): Config obs3_step_m1 (#6) has 1 primary slits affected by failed closed shutters.</p> <p>(Obs3_8_2x2x0.1_mc50_again (Obs 3)) Warning (Form): Config obs3_step_m1 (#7) has 1 master background shutters affected by failed open or closed shutters.</p> <p>(Obs3_8_2x2x0.1_mc50_again (Obs 3)) Warning (Form): Config obs3_step_m1 (#8) has 1 master background shutters affected by failed open or closed shutters.</p> <p>(Obs3_8_2x2x0.1_mc50_again (Obs 3)) Warning (Form): Config obs3_step_m1 (#9) has 1 filler slits affected by failed closed shutters.</p> <p>(Obs3_8_2x2x0.1_mc50_again (Obs 3)) Warning (Form): Config obs3_step_m1 (#9) has 1 primary slits affected by failed closed shutters.</p> <p>(Visit 3:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.</p> <p>(Visit 3:1) Warning (Form): The recommended value is 8 Reference Stars for this template.</p>																																																	
Fixed Targets	<table border="1"> <thead> <tr> <th>#</th> <th>Name</th> <th>Target Coordinates</th> <th>Targ. Coord. Corrections</th> <th>Miscellaneous</th> </tr> </thead> <tbody> <tr> <td>(19)</td> <td>Obs3_8</td> <td>RA: 14 19 17.4953 (214.8228971d) Dec: +52 47 39.47 (52.79430d) 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	(19)	Obs3_8	RA: 14 19 17.4953 (214.8228971d) Dec: +52 47 39.47 (52.79430d) Equinox: J2000																																
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Acquisition	<table border="1"> <thead> <tr> <th>#</th> <th>Reference Star Bin</th> <th>Target</th> <th>Filter</th> <th>MSA Configuration</th> <th>Readout Pattern</th> <th>Groups/Int</th> <th>Integrations/Exp</th> <th>Total Integrations</th> <th>Total Exposure Time</th> <th>ETC Wkbk.Calc ID</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Filter: CLEAR; Readout: NRSRAPIDD6; 6 sources in 2 quads; [Optimal TA Accuracy]</td> <td>SAME</td> <td>CLEAR</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	ETC Wkbk.Calc ID	1	Filter: CLEAR; Readout: NRSRAPIDD6; 6 sources in 2 quads; [Optimal TA Accuracy]	SAME	CLEAR	Auto Acq MSA Config	NRSRAPIDD6	3	1	4	687.153																			
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Template	<table border="1"> <thead> <tr> <th>TA Method</th> <th>HFF Readout Mode</th> <th>Obtain Confirmation Images</th> <th>Science Aperture</th> <th>Primary Candidate List</th> <th>Filler Candidate List</th> <th>Spectral Overlap Map</th> <th>Spectral Overlap Threshold</th> </tr> </thead> <tbody> <tr> <td>MSATA</td> <td>false</td> <td>No</td> <td>MSA Center</td> <td>Obs 3 Galaxies (pointing id 8) (151 sources)</td> <td>Obs 3 Galaxies (pointing id 8) (151 sources)</td> <td>rwst-nirspec-g235h</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	Obs 3 Galaxies (pointing id 8) (151 sources)	Obs 3 Galaxies (pointing id 8) (151 sources)	rwst-nirspec-g235h	1.5																								
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Reference Stars	<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>41852</td> <td>214.822816</td> <td>52.789458</td> <td>24.279</td> <td>1</td> <td>93466</td> <td>214.828833</td> <td>52.789110</td> <td>24.214</td> </tr> <tr> <td>1</td> <td>41928</td> <td>214.796084</td> <td>52.770193</td> <td>24.656</td> <td>1</td> <td>97871</td> <td>214.869681</td> <td>52.789248</td> <td>24.263</td> </tr> <tr> <td>1</td> <td>88919</td> <td>214.881257</td> <td>52.795377</td> <td>24.845</td> <td>1</td> <td>98668</td> <td>214.857507</td> <td>52.776284</td> <td>24.732</td> </tr> </tbody> </table>										Visit	ID	RA	Dec	Magnitude	Visit	ID	RA	Dec	Magnitude	1	41852	214.822816	52.789458	24.279	1	93466	214.828833	52.789110	24.214	1	41928	214.796084	52.770193	24.656	1	97871	214.869681	52.789248	24.263	1	88919	214.881257	52.795377	24.845	1	98668	214.857507	52.776284	24.732
Visit	ID	RA	Dec	Magnitude	Visit	ID	RA	Dec	Magnitude																																									
1	41852	214.822816	52.789458	24.279	1	93466	214.828833	52.789110	24.214																																									
1	41928	214.796084	52.770193	24.656	1	97871	214.869681	52.789248	24.263																																									
1	88919	214.881257	52.795377	24.845	1	98668	214.857507	52.776284	24.732																																									

Proposal 4291 - Observation 3 - Galaxy angular momentum alignment with filaments at $z \sim 3$: The effect of large scale structure on gal...

#	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 (G235H/F170LP)	c1		214.82946558333 333 Degrees 52.800599166666 665 Degrees	346.14046462729 203	-4.0	-5.5	1	1	1838.2
2	1 (G235H/F170LP)	c1		214.82946558333 333 Degrees 52.800599166666 665 Degrees	346.14042145046 78	-3.667	-5.25	1	1	1838.2
3	1 (G235H/F170LP)	c1		214.82946558333 333 Degrees 52.800599166666 665 Degrees	346.14044456043 19	-3.667	-5.75	1	1	1838.2
4	1 (G235H/F170LP)	c1		214.82946558333 333 Degrees 52.800599166666 665 Degrees	346.14050780502 02	-4.333	-5.75	1	1	1838.2
5	1 (G235H/F170LP)	c1		214.82946558333 333 Degrees 52.800599166666 665 Degrees	346.14048469384 113	-4.333	-5.25	1	1	1838.2
6	1 (G235H/F170LP)	obs3_step_m1		214.82946558333 333 Degrees 52.800599166666 665 Degrees	346.14051641054 77	-4.667	-5.25	1	1	1838.2
7	1 (G235H/F170LP)	obs3_step_m1		214.82946558333 333 Degrees 52.800599166666 665 Degrees	346.14057965416 066	-5.333	-5.25	1	1	1838.2
8	1 (G235H/F170LP)	obs3_step_m1		214.82946558333 333 Degrees 52.800599166666 665 Degrees	346.14060276716 41	-5.333	-5.75	1	1	1838.2
9	1 (G235H/F170LP)	obs3_step_m1		214.82946558333 333 Degrees 52.800599166666 665 Degrees	346.14053952233 616	-4.667	-5.75	1	1	1838.2
10	1 (G235H/F170LP)	obs3_step_m1		214.82946558333 333 Degrees 52.800599166666 665 Degrees	346.14055958840 356	-5.0	-5.5	1	1	1838.2
11	1 (G235H/F170LP)	obs3_step_p1		214.82946558333 333 Degrees 52.800599166666 665 Degrees	346.14036966653 84	-3.0	-5.5	1	1	1838.2
12	1 (G235H/F170LP)	obs3_step_p1		214.82946558333 333 Degrees 52.800599166666 665 Degrees	346.14034959888 43	-2.667	-5.75	1	1	1838.2
13	1 (G235H/F170LP)	obs3_step_p1		214.82946558333 333 Degrees 52.800599166666 665 Degrees	346.14041284323 554	-3.333	-5.75	1	1	1838.2
14	1 (G235H/F170LP)	obs3_step_p1		214.82946558333 333 Degrees 52.800599166666 665 Degrees	346.14038973388 074	-3.333	-5.25	1	1	1838.2

Proposal 4291 - Observation 3 - Galaxy angular momentum alignment with filaments at $z \sim 3$: The effect of large scale structure on gal...

#	Exposure Specification	MSA Configuration	Nod Pattern	Pointing	Aperture PA	Dispersion Offset (Shutters)	Cross-Dispersion Offset (Shutters)	Total Dithers	Total Integrations	Total Exposure Time
15	1 (G235H/F170LP)	obs3_step_p1		214.82946558333 333 Degrees 52.800599166666 665 Degrees	346.14032649074 44	-2.667	-5.25	1	1	1838.2
Special Requirements	MSA Scheduled Aperture PA 346.1346 to 346.1346 Degrees (V3 207.56003 to 207.56003)									

Observation

Proposal 4291, Observation 7: Obs7_15_2x2x0.1_mc50_v5

Wed Mar 05 16:00:59 GMT 2025

Diagnostic Status: Warning

Observing Template: NIRSpec MultiObject Spectroscopy

Proposal 4291 - Observation 7 - Galaxy angular momentum alignment with filaments at z ~ 3: The effect of large scale structure on gal...

<p>(Obs7_15_2x2x0.1_mc50_v5 (Obs 7)) Warning (Form): Config step_one (#15) has 18 master background shutters affected by failed open or closed shutters. (Obs7_15_2x2x0.1_mc50_v5 (Obs 7)) Warning (Form): Config step_one (#15) has 4 filler slit traces affected by failed open shutters. (Obs7_15_2x2x0.1_mc50_v5 (Obs 7)) Warning (Form): Config step_one (#15) has 4 primary slit traces affected by failed open shutters. (Obs7_15_2x2x0.1_mc50_v5 (Obs 7)) Warning (Form): Config step_one (#16) has 20 master background shutters affected by failed open or closed shutters. (Obs7_15_2x2x0.1_mc50_v5 (Obs 7)) Warning (Form): Config step_one (#16) has 3 filler slit traces affected by failed open shutters. (Obs7_15_2x2x0.1_mc50_v5 (Obs 7)) Warning (Form): Config step_one (#16) has 3 primary slit traces affected by failed open shutters. (Obs7_15_2x2x0.1_mc50_v5 (Obs 7)) Warning (Form): Config step_one (#17) has 19 master background shutters affected by failed open or closed shutters. (Obs7_15_2x2x0.1_mc50_v5 (Obs 7)) Warning (Form): Config step_one (#17) has 4 filler slit traces affected by failed open shutters. (Obs7_15_2x2x0.1_mc50_v5 (Obs 7)) Warning (Form): Config step_one (#17) has 4 primary slit traces affected by failed open shutters. (Obs7_15_2x2x0.1_mc50_v5 (Obs 7)) Warning (Form): Config step_one (#18) has 18 master background shutters affected by failed open or closed shutters. (Obs7_15_2x2x0.1_mc50_v5 (Obs 7)) Warning (Form): Config step_one (#18) has 4 filler slit traces affected by failed open shutters. (Obs7_15_2x2x0.1_mc50_v5 (Obs 7)) Warning (Form): Config step_one (#18) has 4 primary slit traces affected by failed open shutters. (Obs7_15_2x2x0.1_mc50_v5 (Obs 7)) Warning (Form): NGROUPS=1 may suffer from low calibration accuracy. (Obs7_15_2x2x0.1_mc50_v5 (Obs 7)) Warning (Form): NIRSpec MOS science exposures should not normally use the ALLOPEN or ALLCLOSED MSA configurations. (Visit 7:1) Warning (Form): Overheads are provisional until the Visit Planner has been run. (Visit 7:1) Warning (Form): The recommended value is 8 Reference Stars for this template.</p>											
Fixed Targets	#	Name	Target Coordinates			Targ. Coord. Corrections			Miscellaneous		
	(24)	Obs7_15_TAs_corrected	RA: 14 19 17.4953 (214.8228971d) Dec: +52 47 22.36 (52.78954d) Equinox: J2000								
	<i>Comments:</i> Description=[]										
Acquisition	#	Reference Star Bin	Target	Filter	MSA Configuration	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
	1	Filter: F140X; Readout: NRSRAPIDD6; 7 sources in 4 quads; [Optimal TA Accuracy]	SAME	F140X	Auto Acq MSA Config	NRSRAPIDD6	3	1	4	687.153	
Template	TA Method	HFF Readout Mode	Obtain Confirmation Images	Science Aperture	Primary Candidate List	Filler Candidate List	Spectral Overlap Map	Spectral Overlap Threshold			
	MSATA	false	No	MSA Center	Obs7 Galaxies (corrected TAs) (165 sources)	Obs7 Galaxies (corrected TAs) (165 sources)	rwst-nirspec-hr	1.5			
Reference Stars	Visit	ID	RA	Dec	Magnitude	Visit	ID	RA	Dec	Magnitude	
	1	40538	214.812487	52.788471	24.9	1	88045	214.886616	52.805732	24.82	
	1	41852	214.822816	52.789458	24.58	1	93466	214.828833	52.789110	24.367	
	1	56023	214.827320	52.819472	23.749	1	100905	214.867903	52.768957	24.806	
	1	85539	214.872318	52.809031	23.689						

Proposal 4291 - Observation 7 - Galaxy angular momentum alignment with filaments at $z \sim 3$: The effect of large scale structure on gal...

#	Exposure Specification	MSA Configuration	Nod Pattern	Pointing	Aperture PA	Dispersion Offset (Shutters)	Cross-Dispersion Offset (Shutters)	Total Dithers	Total Integrations	Total Exposure Time
1	2 (G235H/F170LP)	ALLCLOSED		214.83431233333 332 Degrees 52.793188888888 885 Degrees	267.14572969219 34	-26.0	-33.0	1	1	53.684
2	1 (G235H/F170LP)	step_minus_one		214.83431233333 332 Degrees 52.793188888888 885 Degrees	267.13947164475 03	-1.0	0.0	1	1	1838.2
3	1 (G235H/F170LP)	step_minus_one		214.83431233333 332 Degrees 52.793188888888 885 Degrees	267.13947164475 03	-1.0	0.0	1	1	1838.2
4	1 (G235H/F170LP)	step_minus_one		214.83431233333 332 Degrees 52.793188888888 885 Degrees	267.13947164475 03	-1.0	0.0	1	1	1838.2
5	1 (G235H/F170LP)	step_minus_one		214.83431233333 332 Degrees 52.793188888888 885 Degrees	267.13952157009 174	-0.667	-0.25	1	1	1838.2
6	1 (G235H/F170LP)	step_minus_one		214.83431233333 332 Degrees 52.793188888888 885 Degrees	267.13951827378 156	-1.333	-0.25	1	1	1838.2
7	1 (G235H/F170LP)	step_minus_one		214.83431233333 332 Degrees 52.793188888888 885 Degrees	267.13942172067 755	-1.333	0.25	1	1	1838.2
8	1 (G235H/F170LP)	step_minus_one		214.83431233333 332 Degrees 52.793188888888 885 Degrees	267.13942501685 983	-0.667	0.25	1	1	1838.2
9	1 (G235H/F170LP)	center		214.83431233333 332 Degrees 52.793188888888 885 Degrees	267.13942667014 857	-0.333	0.25	1	1	1838.2
10	1 (G235H/F170LP)	center		214.83431233333 332 Degrees 52.793188888888 885 Degrees	267.13952322344 477	-0.333	-0.25	1	1	1838.2
11	1 (G235H/F170LP)	center		214.83431233333 332 Degrees 52.793188888888 885 Degrees	267.13952652074 6	0.333	-0.25	1	1	1838.2
12	1 (G235H/F170LP)	center		214.83431233333 332 Degrees 52.793188888888 885 Degrees	267.13942996732 123	0.333	0.25	1	1	1838.2
13	1 (G235H/F170LP)	center		214.83431233333 332 Degrees 52.793188888888 885 Degrees	267.13947659481 27	0.0	0.0	1	1	1838.2
14	1 (G235H/F170LP)	step_one		214.83431233333 332 Degrees 52.793188888888 885 Degrees	267.13948154636 313	1.0	0.0	1	1	1838.2

Proposal 4291 - Observation 7 - Galaxy angular momentum alignment with filaments at $z \sim 3$: The effect of large scale structure on gal...

#	Exposure Specification	MSA Configuration	Nod Pattern	Pointing	Aperture PA	Dispersion Offset (Shutters)	Cross-Dispersion Offset (Shutters)	Total Dithers	Total Integrations	Total Exposure Time
15	1 (G235H/F170LP)	step_one		214.83431233333 332 Degrees 52.793188888888 885 Degrees	267.13953147288 913	1.333	-0.25	1	1	1838.2
16	1 (G235H/F170LP)	step_one		214.83431233333 332 Degrees 52.793188888888 885 Degrees	267.13952817459 62	0.667	-0.25	1	1	1838.2
17	1 (G235H/F170LP)	step_one		214.83431233333 332 Degrees 52.793188888888 885 Degrees	267.13943162110 67	0.667	0.25	1	1	1838.2
18	1 (G235H/F170LP)	step_one		214.83431233333 332 Degrees 52.793188888888 885 Degrees	267.13943491927 02	1.333	0.25	1	1	1838.2
Special Requirements	MSA Scheduled Aperture PA 267.1304 to 267.1304 Degrees (V3 128.55585 to 128.55585)									

Observation	<p>Proposal 4291, Observation 4: obs4_358_edited_oneperrow_0x0x0p2</p> <p>Diagnostic Status: Warning</p> <p>Observing Template: NIRSpec MultiObject Spectroscopy</p>													
	Diagnostics	<p>(obs4_358_edited_oneperrow_0x0x0p2 (Obs 4)) Warning (Form): Config Obs4 Step -1 (#10) has 2 master background shutters affected by failed open or closed shutters.</p> <p>(obs4_358_edited_oneperrow_0x0x0p2 (Obs 4)) Warning (Form): Config Obs4 Step -1 (#6) has 2 master background shutters affected by failed open or closed shutters.</p> <p>(obs4_358_edited_oneperrow_0x0x0p2 (Obs 4)) Warning (Form): Config Obs4 Step -1 (#7) has 2 master background shutters affected by failed open or closed shutters.</p> <p>(obs4_358_edited_oneperrow_0x0x0p2 (Obs 4)) Warning (Form): Config Obs4 Step -1 (#8) has 2 master background shutters affected by failed open or closed shutters.</p> <p>(obs4_358_edited_oneperrow_0x0x0p2 (Obs 4)) Warning (Form): Config Obs4 Step -1 (#9) has 2 master background shutters affected by failed open or closed shutters.</p> <p>(obs4_358_edited_oneperrow_0x0x0p2 (Obs 4)) Warning (Form): Config Obs4 Step 0 (#2) has 1 filler slits affected by failed closed shutters.</p> <p>(obs4_358_edited_oneperrow_0x0x0p2 (Obs 4)) Warning (Form): Config Obs4 Step 0 (#2) has 1 master background shutters affected by failed open or closed shutters.</p> <p>(obs4_358_edited_oneperrow_0x0x0p2 (Obs 4)) Warning (Form): Config Obs4 Step 0 (#2) has 1 primary slits affected by failed closed shutters.</p> <p>(obs4_358_edited_oneperrow_0x0x0p2 (Obs 4)) Warning (Form): Config Obs4 Step 0 (#3) has 1 filler slits affected by failed closed shutters.</p> <p>(obs4_358_edited_oneperrow_0x0x0p2 (Obs 4)) Warning (Form): Config Obs4 Step 0 (#3) has 1 master background shutters affected by failed open or closed shutters.</p> <p>(obs4_358_edited_oneperrow_0x0x0p2 (Obs 4)) Warning (Form): Config Obs4 Step 0 (#3) has 1 primary slits affected by failed closed shutters.</p> <p>(obs4_358_edited_oneperrow_0x0x0p2 (Obs 4)) Warning (Form): Config Obs4 Step 0 (#4) has 1 filler slits affected by failed closed shutters.</p> <p>(obs4_358_edited_oneperrow_0x0x0p2 (Obs 4)) Warning (Form): Config Obs4 Step 0 (#4) has 1 primary slits affected by failed closed shutters.</p> <p>(obs4_358_edited_oneperrow_0x0x0p2 (Obs 4)) Warning (Form): Config Obs4 Step 0 (#5) has 1 filler slits affected by failed closed shutters.</p> <p>(obs4_358_edited_oneperrow_0x0x0p2 (Obs 4)) Warning (Form): Config Obs4 Step 0 (#5) has 1 primary slits affected by failed closed shutters.</p> <p>(obs4_358_edited_oneperrow_0x0x0p2 (Obs 4)) Warning (Form): Config Obs4 Step 0_TA (#1) has 1 filler slits affected by failed closed shutters.</p> <p>(obs4_358_edited_oneperrow_0x0x0p2 (Obs 4)) Warning (Form): Config Obs4 Step 0_TA (#1) has 1 master background shutters affected by failed open or closed shutters.</p> <p>(obs4_358_edited_oneperrow_0x0x0p2 (Obs 4)) Warning (Form): Config Obs4 Step 0_TA (#1) has 1 primary slits affected by failed closed shutters.</p> <p>(obs4_358_edited_oneperrow_0x0x0p2 (Obs 4)) Warning (Form): Config Obs4 Step 1 (#11) has 1 filler slits affected by failed closed shutters.</p> <p>(obs4_358_edited_oneperrow_0x0x0p2 (Obs 4)) Warning (Form): Config Obs4 Step 1 (#11) has 1 primary slits affected by failed closed shutters.</p> <p>(obs4_358_edited_oneperrow_0x0x0p2 (Obs 4)) Warning (Form): Config Obs4 Step 1 (#11) has 2 master background shutters affected by failed open or closed shutters.</p> <p>(obs4_358_edited_oneperrow_0x0x0p2 (Obs 4)) Warning (Form): Config Obs4 Step 1 (#12) has 3 master background shutters affected by failed open or closed shutters.</p> <p>(obs4_358_edited_oneperrow_0x0x0p2 (Obs 4)) Warning (Form): Config Obs4 Step 1 (#13) has 1 filler slits affected by failed closed shutters.</p> <p>(obs4_358_edited_oneperrow_0x0x0p2 (Obs 4)) Warning (Form): Config Obs4 Step 1 (#13) has 1 primary slits affected by failed closed shutters.</p> <p>(obs4_358_edited_oneperrow_0x0x0p2 (Obs 4)) Warning (Form): Config Obs4 Step 1 (#13) has 2 master background shutters affected by failed open or closed shutters.</p> <p>(obs4_358_edited_oneperrow_0x0x0p2 (Obs 4)) Warning (Form): Config Obs4 Step 1 (#14) has 1 filler slits affected by failed closed shutters.</p> <p>(obs4_358_edited_oneperrow_0x0x0p2 (Obs 4)) Warning (Form): Config Obs4 Step 1 (#14) has 1 primary slits affected by failed closed shutters.</p> <p>(obs4_358_edited_oneperrow_0x0x0p2 (Obs 4)) Warning (Form): Config Obs4 Step 1 (#14) has 2 master background shutters affected by failed open or closed shutters.</p> <p>(obs4_358_edited_oneperrow_0x0x0p2 (Obs 4)) Warning (Form): Config Obs4 Step 1 (#15) has 3 master background shutters affected by failed open or closed shutters.</p> <p>(Visit 4:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.</p> <p>(Visit 4:1) Warning (Form): The recommended value is 8 Reference Stars for this template.</p>												
Fixed Targets		<table border="1"> <thead> <tr> <th>#</th> <th>Name</th> <th>Target Coordinates</th> <th>Targ. Coord. Corrections</th> <th>Miscellaneous</th> </tr> </thead> <tbody> <tr> <td>(16)</td> <td>Obs4_358_edited</td> <td>RA: 14 19 28.0904 (214.8670433d) Dec: +52 52 37.04 (52.87696d) 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	(16)	Obs4_358_edited	RA: 14 19 28.0904 (214.8670433d) Dec: +52 52 37.04 (52.87696d) Equinox: J2000	
	#	Name	Target Coordinates	Targ. Coord. Corrections	Miscellaneous									
(16)	Obs4_358_edited	RA: 14 19 28.0904 (214.8670433d) Dec: +52 52 37.04 (52.87696d) Equinox: J2000												

Proposal 4291 - Observation 4 - Galaxy angular momentum alignment with filaments at $z \sim 3$: The effect of large scale structure on gal...

Acquisition	#	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: NRSRAPIDD6; 7 sources in 3 quads; [Optimal TA Accuracy]	SAME	CLEAR	Auto Acq MSA Config	NRSRAPIDD6	3	1	4	687.153
Template	TA Method	HFF Readout Mode	Obtain Confirmation Images	Science Aperture	Primary Candidate List	Filler Candidate List	Spectral Overlap Map	Spectral Overlap Threshold			
	MSATA	false	No	MSA Center	358 edited galaxies (159 sources)	358 edited galaxies (159 sources)	jwst-nirspec-g235h	1.5			
Reference Stars	Visit	ID	RA	Dec	Magnitude	Visit	ID	RA	Dec	Magnitude	
	1	17943	214.864789	52.881017	24.84	1	52876	214.860543	52.858296	25.107	
	1	26565	214.844034	52.880391	24.711	1	55828	214.860619	52.844000	24.996	
	1	45542	214.909544	52.880950	23.902	1	58300	214.895617	52.856493	23.671	
	1	46123	214.922420	52.886574	25.267						

Proposal 4291 - Observation 4 - Galaxy angular momentum alignment with filaments at $z \sim 3$: The effect of large scale structure on gal...

#	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 (G235H/F170LP)	Obs4 Step 0_TA		214.88304208333 335 Degrees 52.880525 Degrees	333.40483719968 48	0.0	0.03	1	1	1838.2
2	1 (G235H/F170LP)	Obs4 Step 0		214.88304208333 335 Degrees 52.880525 Degrees	333.40484472017 47	-0.333	0.28	1	1	1838.2
3	1 (G235H/F170LP)	Obs4 Step 0		214.88304208333 335 Degrees 52.880525 Degrees	333.40488808537 623	-0.333	-0.22	1	1	1838.2
4	1 (G235H/F170LP)	Obs4 Step 0		214.88304208333 335 Degrees 52.880525 Degrees	333.40482967919 706	0.333	-0.22	1	1	1838.2
5	1 (G235H/F170LP)	Obs4 Step 0		214.88304208333 335 Degrees 52.880525 Degrees	333.40478631509 65	0.333	0.28	1	1	1838.2
6	1 (G235H/F170LP)	Obs4 Step -1		214.88304208333 335 Degrees 52.880525 Degrees	333.40497578284 3	-1.333	-0.22	1	1	1838.2
7	1 (G235H/F170LP)	Obs4 Step -1		214.88304208333 335 Degrees 52.880525 Degrees	333.40491737626 314	-0.667	-0.22	1	1	1838.2
8	1 (G235H/F170LP)	Obs4 Step -1		214.88304208333 335 Degrees 52.880525 Degrees	333.40492489612 41	-1.0	0.03	1	1	1838.2
9	1 (G235H/F170LP)	Obs4 Step -1		214.88304208333 335 Degrees 52.880525 Degrees	333.40493241598 784	-1.333	0.28	1	1	1838.2
10	1 (G235H/F170LP)	Obs4 Step -1		214.88304208333 335 Degrees 52.880525 Degrees	333.40487401050 93	-0.667	0.28	1	1	1838.2
11	1 (G235H/F170LP)	Obs4 Step 1		214.88304208333 335 Degrees 52.880525 Degrees	333.40474950384 5	1.0	0.03	1	1	1838.2
12	1 (G235H/F170LP)	Obs4 Step 1		214.88304208333 335 Degrees 52.880525 Degrees	333.40474198272 96	1.333	-0.22	1	1	1838.2
13	1 (G235H/F170LP)	Obs4 Step 1		214.88304208333 335 Degrees 52.880525 Degrees	333.40480038851 05	0.667	-0.22	1	1	1838.2
14	1 (G235H/F170LP)	Obs4 Step 1		214.88304208333 335 Degrees 52.880525 Degrees	333.40475702496 207	0.667	0.28	1	1	1838.2

Proposal 4291 - Observation 4 - Galaxy angular momentum alignment with filaments at $z \sim 3$: The effect of large scale structure on gal...

#	Exposure Specification	MSA Configuration	Nod Pattern	Pointing	Aperture PA	Dispersion Offset (Shutters)	Cross-Dispersion Offset (Shutters)	Total Dithers	Total Integrations	Total Exposure Time
15	1 (G235H/F170LP)	Obs4 Step 1		214.88304208333 335 Degrees 52.880525 Degrees	333.40469862028 18	1.333	0.28	1	1	1838.2
Special Requirements	MSA Scheduled Aperture PA 333.3921 to 333.3921 Degrees (V3 194.81758 to 194.81758)									

Proposal 4291 - Observation 5 - Galaxy angular momentum alignment with filaments at z ~ 3: The effect of large scale structure on gal...

Wed Mar 05 16:00:59 GMT 2025

Observation	Proposal 4291, Observation 5: Obs5_33_2x2x0.1_mc50 Diagnostic Status: Warning Observing Template: NIRSpec MultiObject Spectroscopy										
	(Obs5_33_2x2x0.1_mc50 (Obs 5)) Warning (Form): Config c1 (#1) has 1 filler slits affected by failed closed shutters. (Obs5_33_2x2x0.1_mc50 (Obs 5)) Warning (Form): Config c1 (#1) has 1 primary slits affected by failed closed shutters. (Obs5_33_2x2x0.1_mc50 (Obs 5)) Warning (Form): Config c1 (#2) has 1 master background shutters affected by failed open or closed shutters. (Obs5_33_2x2x0.1_mc50 (Obs 5)) Warning (Form): Config c1 (#3) has 1 master background shutters affected by failed open or closed shutters. (Obs5_33_2x2x0.1_mc50 (Obs 5)) Warning (Form): Config c1 (#4) has 1 filler slits affected by failed closed shutters. (Obs5_33_2x2x0.1_mc50 (Obs 5)) Warning (Form): Config c1 (#4) has 1 primary slits affected by failed closed shutters. (Obs5_33_2x2x0.1_mc50 (Obs 5)) Warning (Form): Config c1 (#5) has 1 master background shutters affected by failed open or closed shutters. (Obs5_33_2x2x0.1_mc50 (Obs 5)) Warning (Form): Config obs5_step_m1 (#10) has 1 master background shutters affected by failed open or closed shutters. (Obs5_33_2x2x0.1_mc50 (Obs 5)) Warning (Form): Config obs5_step_m1 (#6) has 1 master background shutters affected by failed open or closed shutters. (Obs5_33_2x2x0.1_mc50 (Obs 5)) Warning (Form): Config obs5_step_m1 (#7) has 1 master background shutters affected by failed open or closed shutters. (Obs5_33_2x2x0.1_mc50 (Obs 5)) Warning (Form): Config obs5_step_m1 (#8) has 1 master background shutters affected by failed open or closed shutters. (Obs5_33_2x2x0.1_mc50 (Obs 5)) Warning (Form): Config obs5_step_p1 (#11) has 1 master background shutters affected by failed open or closed shutters. (Obs5_33_2x2x0.1_mc50 (Obs 5)) Warning (Form): Config obs5_step_p1 (#12) has 1 master background shutters affected by failed open or closed shutters. (Obs5_33_2x2x0.1_mc50 (Obs 5)) Warning (Form): Config obs5_step_p1 (#13) has 1 master background shutters affected by failed open or closed shutters. (Obs5_33_2x2x0.1_mc50 (Obs 5)) Warning (Form): Config obs5_step_p1 (#14) has 1 master background shutters affected by failed open or closed shutters. (Obs5_33_2x2x0.1_mc50 (Obs 5)) Warning (Form): Config obs5_step_p1 (#15) has 1 master background shutters affected by failed open or closed shutters. (Visit 5:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.										
Diagnosics											
Fixed Targets	#	Name	Target Coordinates			Targ. Coord. Corrections			Miscellaneous		
	(20)	Obs5_33	RA: 14 19 19.3450 (214.8306042d) Dec: +52 51 0.93 (52.85026d) Equinox: J2000								
Comments: Description=[]											
Acquisition	#	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: NRSRAPIDD6; 8 sources in 3 quads; [Optimal TA Accuracy]	SAME	CLEAR	Auto Acq MSA Config	NRSRAPIDD6	3	1	4	687.153	
Template	TA Method	HFF Readout Mode	Obtain Confirmation Images	Science Aperture	Primary Candidate List	Filler Candidate List	Spectral Overlap Map	Spectral Overlap Threshold			
	MSATA	false	No	MSA Center	Galaxies (153 sources)	Galaxies (153 sources)	jwst-nirspec-g235h	1.5			

Proposal 4291 - Observation 5 - Galaxy angular momentum alignment with filaments at $z \sim 3$: The effect of large scale structure on gal...

Reference Stars	Visit	ID	RA	Dec	Magnitude	Visit	ID	RA	Dec	Magnitude
	1	21879	214.795393	52.868700	24.504	1	53250	214.830604	52.835299	25.648
	1	24773	214.808848	52.864582	24.922	1	55237	214.825794	52.822176	25.228
	1	29328	214.802477	52.837146	23.909	1	55828	214.860619	52.844000	24.996
	1	52998	214.822240	52.830576	23.813	1	56023	214.827320	52.819472	24.115

Proposal 4291 - Observation 5 - Galaxy angular momentum alignment with filaments at $z \sim 3$: The effect of large scale structure on gal...

#	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 (G235H/F170LP)	c1		214.83101816666 667 Degrees 52.848696666666 67 Degrees	346.07022793700 867	0.0		1	1	1838.2
2	1 (G235H/F170LP)	c1		214.83101816666 667 Degrees 52.848696666666 67 Degrees	346.07018465343 35	0.333	0.25	1	1	1838.2
3	1 (G235H/F170LP)	c1		214.83101816666 667 Degrees 52.848696666666 67 Degrees	346.07020789969 056	0.333	-0.25	1	1	1838.2
4	1 (G235H/F170LP)	c1		214.83101816666 667 Degrees 52.848696666666 67 Degrees	346.07027122148 34	-0.333	-0.25	1	1	1838.2
5	1 (G235H/F170LP)	c1		214.83101816666 667 Degrees 52.848696666666 67 Degrees	346.07024797401 704	-0.333	0.25	1	1	1838.2
6	1 (G235H/F170LP)	obs5_step_m1		214.83101816666 667 Degrees 52.848696666666 67 Degrees	346.07027972944 223	-0.667	0.25	1	1	1838.2
7	1 (G235H/F170LP)	obs5_step_m1		214.83101816666 667 Degrees 52.848696666666 67 Degrees	346.07034305025 52	-1.333	0.25	1	1	1838.2
8	1 (G235H/F170LP)	obs5_step_m1		214.83101816666 667 Degrees 52.848696666666 67 Degrees	346.07036629953 734	-1.333	-0.25	1	1	1838.2
9	1 (G235H/F170LP)	obs5_step_m1		214.83101816666 667 Degrees 52.848696666666 67 Degrees	346.07030297751 5	-0.667	-0.25	1	1	1838.2
10	1 (G235H/F170LP)	obs5_step_m1		214.83101816666 667 Degrees 52.848696666666 67 Degrees	346.07032301403 97	-1.0		1	1	1838.2
11	1 (G235H/F170LP)	obs5_step_p1		214.83101816666 667 Degrees 52.848696666666 67 Degrees	346.07013286032 026	1.0		1	1	1838.2
12	1 (G235H/F170LP)	obs5_step_p1		214.83101816666 667 Degrees 52.848696666666 67 Degrees	346.07011282220 74	1.333	-0.25	1	1	1838.2
13	1 (G235H/F170LP)	obs5_step_p1		214.83101816666 667 Degrees 52.848696666666 67 Degrees	346.07017614377 344	0.667	-0.25	1	1	1838.2
14	1 (G235H/F170LP)	obs5_step_p1		214.83101816666 667 Degrees 52.848696666666 67 Degrees	346.07015289812 267	0.667	0.25	1	1	1838.2

Proposal 4291 - Observation 5 - Galaxy angular momentum alignment with filaments at $z \sim 3$: The effect of large scale structure on gal...

#	Exposure Specification	MSA Configuration	Nod Pattern	Pointing	Aperture PA	Dispersion Offset (Shutters)	Cross-Dispersion Offset (Shutters)	Total Dithers	Total Integrations	Total Exposure Time
15	1 (G235H/F170LP)	obs5_step_p1		214.83101816666 667 Degrees 52.848696666666 67 Degrees	346.07008957776 59	1.333	0.25	1	1	1838.2
Special Requirements	MSA Scheduled Aperture PA 346.0699 to 346.0699 Degrees (V3 207.49535 to 207.49535)									

Observation	Proposal 4291, Observation 6: Obs6_40_2x2x0p1_mc50 Diagnostic Status: Warning Observing Template: NIRSpec MultiObject Spectroscopy										
	(Obs6_40_2x2x0p1_mc50 (Obs 6)) Warning (Form): Config c1 (#1) has 1 filler slits affected by failed closed shutters. (Obs6_40_2x2x0p1_mc50 (Obs 6)) Warning (Form): Config c1 (#1) has 1 primary slits affected by failed closed shutters. (Obs6_40_2x2x0p1_mc50 (Obs 6)) Warning (Form): Config c1 (#2) has 1 filler slits affected by failed closed shutters. (Obs6_40_2x2x0p1_mc50 (Obs 6)) Warning (Form): Config c1 (#2) has 1 primary slits affected by failed closed shutters. (Obs6_40_2x2x0p1_mc50 (Obs 6)) Warning (Form): Config c1 (#3) has 1 filler slits affected by failed closed shutters. (Obs6_40_2x2x0p1_mc50 (Obs 6)) Warning (Form): Config c1 (#3) has 1 primary slits affected by failed closed shutters. (Obs6_40_2x2x0p1_mc50 (Obs 6)) Warning (Form): Config c1 (#4) has 1 master background shutters affected by failed open or closed shutters. (Obs6_40_2x2x0p1_mc50 (Obs 6)) Warning (Form): Config c1 (#5) has 1 master background shutters affected by failed open or closed shutters. (Obs6_40_2x2x0p1_mc50 (Obs 6)) Warning (Form): Config obs6_step_m1 (#10) has 1 master background shutters affected by failed open or closed shutters. (Obs6_40_2x2x0p1_mc50 (Obs 6)) Warning (Form): Config obs6_step_m1 (#6) has 1 master background shutters affected by failed open or closed shutters. (Obs6_40_2x2x0p1_mc50 (Obs 6)) Warning (Form): Config obs6_step_m1 (#7) has 1 master background shutters affected by failed open or closed shutters. (Obs6_40_2x2x0p1_mc50 (Obs 6)) Warning (Form): Config obs6_step_m1 (#8) has 1 master background shutters affected by failed open or closed shutters. (Obs6_40_2x2x0p1_mc50 (Obs 6)) Warning (Form): Config obs6_step_m1 (#9) has 1 master background shutters affected by failed open or closed shutters. (Obs6_40_2x2x0p1_mc50 (Obs 6)) Warning (Form): Config obs6_step_p1 (#11) has 2 master background shutters affected by failed open or closed shutters. (Obs6_40_2x2x0p1_mc50 (Obs 6)) Warning (Form): Config obs6_step_p1 (#12) has 2 master background shutters affected by failed open or closed shutters. (Obs6_40_2x2x0p1_mc50 (Obs 6)) Warning (Form): Config obs6_step_p1 (#15) has 2 master background shutters affected by failed open or closed 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.										
Diagnosics											
Fixed Targets	#	Name	Target Coordinates			Targ. Coord. Corrections			Miscellaneous		
	(21)	Obs6_4291_40	RA: 14 19 41.1703 (214.9215429d) Dec: +52 54 47.10 (52.91308d) Equinox: J2000								
Comments: Description=[]											
Acquisition	#	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: NRSRAPIDD6; 5 sources in 3 quads; [Optimal TA Accuracy]	SAME	CLEAR	Auto Acq MSA Config	NRSRAPIDD6	3	1	4	687.153	
Template	TA Method	HFF Readout Mode	Obtain Confirmation Images	Science Aperture	Primary Candidate List	Filler Candidate List	Spectral Overlap Map	Spectral Overlap Threshold			
	MSATA	false	No	MSA Center	Obs6 40 Galaxies (169 sources)	Obs6 40 Galaxies (169 sources)	jwst-nirspec-g235h	1.5			

Proposal 4291 - Observation 6 - Galaxy angular momentum alignment with filaments at $z \sim 3$: The effect of large scale structure on gal...

Reference Stars	Visit	ID	RA	Dec	Magnitude	Visit	ID	RA	Dec	Magnitude
	1	11941	214.891773	52.933016	24.973	1	45362	214.920326	52.889680	24.696
	1	17415	214.932750	52.932232	25.299	1	46123	214.922420	52.886574	25.267
	1	43587	214.887521	52.876956	24.617					

Proposal 4291 - Observation 6 - Galaxy angular momentum alignment with filaments at $z \sim 3$: The effect of large scale structure on gal...

#	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 (G235H/F170LP)	c1		214.92089529166 665 Degrees 52.910166388888 89 Degrees	346.08102778208 44	0.0	-1.0	1	1	1911.145
2	1 (G235H/F170LP)	c1		214.92089529166 665 Degrees 52.910166388888 89 Degrees	346.08098440683 67	0.333	-0.75	1	1	1911.145
3	1 (G235H/F170LP)	c1		214.92089529166 665 Degrees 52.910166388888 89 Degrees	346.08100768955 893	0.333	-1.25	1	1	1911.145
4	1 (G235H/F170LP)	c1		214.92089529166 665 Degrees 52.910166388888 89 Degrees	346.08107115823 43	-0.333	-1.25	1	1	1911.145
5	1 (G235H/F170LP)	c1		214.92089529166 665 Degrees 52.910166388888 89 Degrees	346.08104787429 846	-0.333	-0.75	1	1	1911.145
6	1 (G235H/F170LP)	obs6_step_m1		214.92089541666 667 Degrees 52.910166666666 67 Degrees	346.08107980322 796	-0.667	-0.75	1	1	1911.145
7	1 (G235H/F170LP)	obs6_step_m1		214.92089541666 667 Degrees 52.910166666666 67 Degrees	346.08114327092 01	-1.333	-0.75	1	1	1911.145
8	1 (G235H/F170LP)	obs6_step_m1		214.92089541666 667 Degrees 52.910166666666 67 Degrees	346.08116655667 834	-1.333	-1.25	1	1	1911.145
9	1 (G235H/F170LP)	obs6_step_m1		214.92089541666 667 Degrees 52.910166666666 67 Degrees	346.08110308777 25	-0.667	-1.25	1	1	1911.145
10	1 (G235H/F170LP)	obs6_step_m1		214.92089541666 667 Degrees 52.910166666666 67 Degrees	346.08112317950 16	-1.0	-1.0	1	1	1911.145
11	1 (G235H/F170LP)	obs6_step_p1		214.92089529166 665 Degrees 52.910166388888 89 Degrees	346.08093248485 517	1.0	-1.0	1	1	1911.145
12	1 (G235H/F170LP)	obs6_step_p1		214.92089529166 665 Degrees 52.910166388888 89 Degrees	346.08091239153 19	1.333	-1.25	1	1	1911.145
13	1 (G235H/F170LP)	obs6_step_p1		214.92089529166 665 Degrees 52.910166388888 89 Degrees	346.08097585998 01	0.667	-1.25	1	1	1911.145
14	1 (G235H/F170LP)	obs6_step_p1		214.92089529166 665 Degrees 52.910166388888 89 Degrees	346.08095257786 647	0.667	-0.75	1	1	1911.145

Proposal 4291 - Observation 6 - Galaxy angular momentum alignment with filaments at $z \sim 3$: The effect of large scale structure on gal...

#	Exposure Specification	MSA Configuration	Nod Pattern	Pointing	Aperture PA	Dispersion Offset (Shutters)	Cross-Dispersion Offset (Shutters)	Total Dithers	Total Integrations	Total Exposure Time
15	1 (G235H/F170LP)	obs6_step_p1		214.92089529166 665 Degrees 52.910166388888 89 Degrees	346.08088911063 186	1.333	-0.75	1	1	1911.145
Special Requirements	MSA Scheduled Aperture PA 346.0815 to 346.0815 Degrees (V3 207.50694 to 207.50694)									