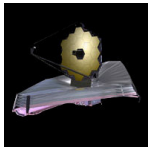

3325 - Mapping the Most Extreme Protoclusters in the Epoch of Reionization

Cycle: 2, Proposal Category: GO

INVESTIGATORS

Name	***Institution***
Dr. Feige Wang (PI)	**University of Michigan**
Dr. Jinyi Yang (CoI) (CoPI)	University of Michigan
Prof. Xiaohui Fan (CoI)	University of Arizona
Prof. Joseph Hennawi (CoI)	University of California - Santa Barbara
Dr. Jaclyn Champagne (CoI)	University of Arizona
Dr. Tiago Costa (CoI) (ESA Member)	Newcastle University
Mr. Zihao Li (CoI)	Tsinghua University
Ms. Xiaojing Lin (CoI)	University of Arizona
Mr. Yunjing Wu (CoI)	Tsinghua University
Eduardo Banados (CoI) (ESA Member)	Max Planck Institute for Astronomy
Dr. Aaron J. Barth (CoI)	University of California - Irvine
Dr. Silvia Belladitta (CoI) (ESA Member)	Max Planck Institute for Astronomy
Dr. Rebekka Bieri (CoI) (ESA Member)	Max Planck Institute for Astrophysics
Dr. Sarah E. I. Bosman (CoI) (ESA Member)	Universitat Heidelberg
Dr. Zheng Cai (CoI)	Tsinghua University
Dr. Frederick Davies (CoI) (ESA Member)	Max Planck Institute for Astronomy
Dr. Roberto Decarli (CoI) (ESA Member)	INAF - Osservatorio di Astrofisica e Scienza dello Spazio
Dr. Alyssa Bryony Drake (CoI) (ESA Member)	University of Hertfordshire
Dr. Gisella De Rosa (CoI)	Space Telescope Science Institute
Prof. Anna-Christina Eilers (CoI)	Massachusetts Institute of Technology
Dr. Ryan Endsley (CoI)	University of Texas at Austin
Dr. Emanuele Paolo Farina (CoI)	NOIRLab - Gemini North (HI)
Melanie Habouzit (CoI) (ESA Member)	Max Planck Institute for Astronomy

Name	*Institution*
Prof. Linhua Jiang (CoI)	Peking University
Ms. Xiangyu Jin (CoI)	University of Arizona
Dr. Hyunsung Jun (CoI)	Northwestern College
Dr. Koki Kakiichi (CoI) (ESA Member)	Cosmic Dawn Center, Niels Bohr Institute
Mingyu Li (CoI)	Tsinghua University
Dr. Weizhe Liu (CoI)	University of Arizona
Dr. Federica Loiacono (CoI) (ESA Member)	INAF - OAS Bologna
Dr. Alessandro Lupi (CoI) (ESA Member)	UNIVERSITA DEGLI STUDI DELL'INSUBRIA
Dr. Chiara Giulia Mazzucchelli (CoI)	Diego Portales University
Dr. Masafusa Onoue (CoI)	Kavli Inst for the Physics and Mathematics of the Universe
Maria Pudoka (CoI)	University of Arizona
Dra. Sofia Rojas (CoI)	University of California - Los Angeles
Jan-Torge Schindler (CoI) (ESA Member)	Universitat Hamburg, Hamburger Sternwarte
Dr. Michael A. Strauss (CoI)	Princeton University
Dr. Fengwu Sun (CoI)	Harvard University
Benny Trakhtenbrot (CoI)	Tel Aviv University
Dr. Maxime Trebitsch (CoI) (ESA Member)	Observatoire de Paris
Dr. Bram Venemans (CoI) (ESA Member)	Universiteit Leiden
Dr. Marianne Vestergaard (CoI) (ESA Member)	University of Copenhagen, Niels Bohr Institute
Prof. Marta Volonteri (CoI) (ESA Member)	CNRS, Institut d'Astrophysique de Paris
Dr. Haowen Zhang (CoI)	University of Arizona
Prof. Yue Shen (CoI)	University of Illinois at Urbana - Champaign
Dr. Siwei Zou (CoI)	Tsinghua University

OBSERVATIONS

Folder	*Observation*	*Label*	*Observing Template*	*Science Target*
J0226P0302-WFSS				
	1	J0226P0302-P1	NIRCam Wide Field Slitless Spectroscopy	(2) J0226P0302
	2	J0226P0302-P2	NIRCam Wide Field Slitless Spectroscopy	(2) J0226P0302
	3	J0226P0302-P3	NIRCam Wide Field Slitless Spectroscopy	(2) J0226P0302
	4	J0226P0302-P4	NIRCam Wide Field Slitless Spectroscopy	(2) J0226P0302
	5	J0226P0302-P5	NIRCam Wide Field Slitless Spectroscopy	(2) J0226P0302

Folder	*Observation*	*Label*	*Observing Template*	*Science Target*
J0305m3150-WFSS				
	6	J0305M3150-P1	NIRCam Wide Field Slitless Spectroscopy	(3) J0305M3150
	7	J0305M3150-P2	NIRCam Wide Field Slitless Spectroscopy	(3) J0305M3150
	8	J0305M3150-P3	NIRCam Wide Field Slitless Spectroscopy	(3) J0305M3150
	108	J0305M3150-P3	NIRCam Wide Field Slitless Spectroscopy	(3) J0305M3150
	9	J0305M3150-P4	NIRCam Wide Field Slitless Spectroscopy	(3) J0305M3150
	10	J0305M3150-P5	NIRCam Wide Field Slitless Spectroscopy	(3) J0305M3150
J0226P0007-MSA				
	12	J0226-4config-pa2	NIRSpec MultiObject Spectroscopy	(7) J0226-MSA-Targets
J0305M3150-MSA				
	13	J0305-4config-pa1-v10	NIRSpec MultiObject Spectroscopy	(11) J0305_MSA_new20240906
NIRSpec-IFU				
	15	J0226-IFU	NIRSpec IFU Spectroscopy	(2) J0226P0302
	16	J0305-IFU	NIRSpec IFU Spectroscopy	(3) J0305M3150

ABSTRACT

Theoretical models predict that the earliest billion-M_sun supermassive black holes (SMBHs) form from massive dark matter halos and trace the formation of protoclusters in the early Universe. We propose to study the two most extreme galaxy overdensities anchored by luminous quasars at z~6.6, discovered from JWST Cycle-1 observations of ~20 quasar fields. Both systems show Mpc-scale filamentary structures with galaxy overdensity >10, centered on the quasars. However, the existing observations consist of single NIRCam/WFSS pointings that do not yet cover the full protocluster structure and are limited to redshift measurements of luminous member galaxies.

In Cycle-2, we will: (1) carry out NIRCam/WFSS mosaic observations covering >3 times wider area, to fully map the large-scale structure and the kinematics of the protocluster member galaxies by discovering 80 protocluster member galaxies. The NIRCam observations will also discover more than 200 field galaxies at 5.3<z<7. (2) obtain deep NIRSpec/MSA spectroscopy for ~150 [OIII] emitting galaxies identified from NIRCam/WFSS and additional photometrically selected Lyman break galaxies (LBGs) up to z~12, which will enable the first statistical characterizations of environment-dependent galaxy formation and AGN activities in the EoR. (3) obtain deep NIRSpec/IFU observations of the two central quasars to shed light on the formation of the central luminous quasars, progenitors of the brightest cluster galaxies. The proposed observations will provide the first comprehensive study of the connection between the growth of the first-generation SMBHs, massive dark matter halos, and large-scale structures traced by galaxy overdenities.

OBSERVING DESCRIPTION

This program consists the following observing modes:

1. NIRCam/WFSS observations.

The proposed targets have existing single-pointing NIRCam/WFSs observations. In this program, we propose to use a 2x3 mosaic to cover a 3.3 times bigger area. To avoid duplicating the existing pointing, we exclude the existing pointing and thus only add five additional NIRCam/WFSS pointings for each field. The positions of the five pointings are:
x_offset=-60.5 arcsec, y_offset=54 arcsec
x_offset=-60.5 arcsec, y_offset=-73.5 arcsec
x_offset=63.0 arcsec, y_offset=7.5 arcsec
x_offset=63.0 arcsec, y_offset=54.0 arcsec
x_offset=63.0 arcsec, y_offset=-73.5 arcsec
Together with the existing observations (x_offset=-60.5 arcsec, y_offset=7.5 arcsec), we will cover a 3.3x bigger area and reach a 2x greater depth in the quasar vicinity. These observations will identify a large number of [OIII] emitters in the protoclusters and at other redshifts.

We use exactly the same configuration with existing NIRCam/WFSS observations: F356W filter for WFSS observations in the LW and F200W filter for imaging observations in the SW, F115W+F356W for in-field imaging and out-of-field direct imaging. We will use SHALLOW4 readout mode and INTRAMODULEX primary dithers for the observations. We use NIRISS in parallel with the F356W and F444W filters.

2. NIRSpec/MSA observations.

We will perform two NIRSpec/MSA pointings for each field to target NIRCam/WFSS selected [OIII] emitters, imaging selected Lyman Break Galaxies and submillimeter galaxies. We will obtain two NIRSpec/MSA pointings for each field to cover most of the NIRCam mosaic area. We use G395M/F290LP for the MSA observations in order to cover Hbeta, [OIII], Halpha, and [NII] lines of galaxies at z<6.7. For each pointing, we split it into two observations with each observation having ~1hr on-source exposure with the NRSIRS2 readout mode and 16 groups and 1 integration. We will use NIRCam in parallel with the F070W, F115W, F56W, and F444W.

3. NIRSpec/IFU observations.

We will perform NIRSpec/IFU observations for the central quasars. We use G395H/F290LP to cover the Hbeta, [OIII], Halpha, and [NII] lines of quasars. We use 6-pointing CYCLING dithers and NRSIRS2 readout mode with 25 groups and 1 integration, amounting to a total on-source time of ~3hr per target.

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Miscellaneous
(2)	J0226P0302	RA: 02 26 1.8700 (36.5077917d) Dec: +03 02 59.28 (3.04980d) Equinox: J2000	Epoch of Position: 2000.0	
Comments: z=6.5412 *Category=Galaxy* *Description=[High-redshift galaxies, Quasars]*				
(3)	J0305M3150	RA: 03 05 16.9200 (46.3205000d) Dec: -31 50 56.00 (-31.84889d) Equinox: J2000	Epoch of Position: 2000.0	
Comments: z=6.6145 *Category=Galaxy* *Description=[High-redshift galaxies, Quasars]*				
(5)	J0226-MSA-DUMMY	RA: 02 26 2.0013 (36.5083388d) Dec: +03 03 12.38 (3.05344d) Equinox: J2000		
Comments: *Description=[]*				
(6)	J0305-MSA-DUMMY	RA: 03 05 18.7284 (46.3280350d) Dec: -31 50 58.25 (-31.84951d) Equinox: J2000		
Comments: *Description=[]*				
(7)	J0226-MSA-Targets	RA: 02 26 1.5920 (36.5066333d) Dec: +03 03 8.27 (3.05230d) Equinox: J2000		
Comments: *Description=[]*				
(8)	J0305-MSA-All-073124	RA: 03 05 17.8592 (46.3244133d) Dec: -31 49 24.26 (-31.82341d) Equinox: J2000		
Comments: *Description=[]*				
(9)	J0305-MSA-All	RA: 03 05 17.7988 (46.3241617d) Dec: -31 49 34.43 (-31.82623d) Equinox: J2000		
Comments: *Description=[]*				
(10)	J0305_MSA_new20240905	RA: 03 05 17.8061 (46.3241921d) Dec: -31 49 33.62 (-31.82601d) Equinox: J2000		
Comments: *Description=[]*				
(11)	J0305_MSA_new20240906	RA: 03 05 17.8061 (46.3241921d) Dec: -31 49 33.62 (-31.82601d) Equinox: J2000		
Comments: *Description=[]*				

Observation

Proposal 3325, Observation 1: J0226P0302-P1 Thu Sep 12 22:00:30 GMT 2024

Diagnostic Status: Warning

Observing Template: NIRCam Wide Field Slitless Spectroscopy

Coordinated Parallel Template(s): NIRISS Imaging

Diagnostics

(J0226P0302-P1 (Obs 1)) Warning (Form): For Module=ALL the default target location is in the gap between the modules.

(J0226P0302-P1 (Obs 1)) Warning (Form): Use of only one of GRISMR or GRISMC may result in spectral overlap from multiple sources that can't be corrected. Users should address this issue in their proposal text.

(Visit 1:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.

(J0226P0302-P1 (Obs 1)) Informational (Form): The Visit Planner and Spike may produce different schedulability results.

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Miscellaneous
(2)	J0226P0302	RA: 02 26 1.8700 (36.5077917d) Dec: +03 02 59.28 (3.04980d) Equinox: J2000	Epoch of Position: 2000.0	

Comments: z=6.5412
Category=Galaxy
Description=[High-redshift galaxies, Quasars]

Template

NIRCam Wide Field Slitless Spectroscopy	NIRISS Imaging
Module: ALL	
Subarray: FULL	
Grism (Long Wavelength): GRISMR	
Show partial spectra region in Aladin: false	

Dithers

#	Primary Dither Type	Primary Dithers	Subpixel Positions
1	INTRAMODULEX	3	2-POINT-LARGE-WITH-NIRISS

Direct Image

NIRCam Wide Field Slitless Spectroscopy	Short Filter	Long Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID	Grism (Long Wavelength)	Exposure Type	Total Dithers
1	F115W	F356W	SHALLOW4	9	1	1	472.418		GRISMR	Direct Image	1

Spectral Elements

NIRCam Wide Field Slitless Spectroscopy	Short Filter	Long Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID	Grism (Long Wavelength)	Exposure Type	Total Dithers
1	F200W	F356W	SHALLOW4	9	1	6	2834.507		GRISMR	Grism (Long Wavelength)	6
2	F115W	F356W	SHALLOW4	9	1	2	944.836			Out of Field	2

Spectral Elements

NIRISS Imaging	Filter	Grism	Readout Pattern	Groups/Int	Integrations/Exp	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
1	F444W		NIS	10	1	6	6	2641.245	
2	F356W		NIS	10	1	1	1	440.208	
3	F356W		NIS	10	1	2	2	880.415	

Special Requirements

Aperture PA Range 253.16 to 253.16 Degrees (V3 253.16 to 253.16)
Offset -60.5 arcsec, 54.0 arcsec
No Parallel Attachments

Sequence Observations 1, 2, 3, 4, 5 within 53 Days
Same Aperture PA 1, 2, 3, 4, 5

Observation

Proposal 3325, Observation 2: J0226P0302-P2 Thu Sep 12 22:00:30 GMT 2024

Diagnostic Status: Warning

Observing Template: NIRCam Wide Field Slitless Spectroscopy

Coordinated Parallel Template(s): NIRISS Imaging

Diagnostics

(J0226P0302-P2 (Obs 2)) Warning (Form): For Module=ALL the default target location is in the gap between the modules.

(J0226P0302-P2 (Obs 2)) Warning (Form): Use of only one of GRISMR or GRISMC may result in spectral overlap from multiple sources that can't be corrected. Users should address this issue in their proposal text.

(Visit 2:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.

(J0226P0302-P2 (Obs 2)) Informational (Form): The Visit Planner and Spike may produce different schedulability results.

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Miscellaneous
(2)	J0226P0302	RA: 02 26 1.8700 (36.5077917d) Dec: +03 02 59.28 (3.04980d) Equinox: J2000	Epoch of Position: 2000.0	

Comments: z=6.5412
Category=Galaxy
Description=[High-redshift galaxies, Quasars]

Template

NIRCam Wide Field Slitless Spectroscopy	NIRISS Imaging
Module: ALL	
Subarray: FULL	
Grism (Long Wavelength): GRISMR	
Show partial spectra region in Aladin: false	

Dithers

#	Primary Dither Type	Primary Dithers	Subpixel Positions
1	INTRAMODULEX	3	2-POINT-LARGE-WITH-NIRISS

Direct Image

NIRCam Wide Field Slitless Spectroscopy	Short Filter	Long Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID	Grism (Long Wavelength)	Exposure Type	Total Dithers
1	F115W	F356W	SHALLOW4	9	1	1	472.418		GRISMR	Direct Image	1

Spectral Elements

NIRCam Wide Field Slitless Spectroscopy	Short Filter	Long Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID	Grism (Long Wavelength)	Exposure Type	Total Dithers
1	F200W	F356W	SHALLOW4	9	1	6	2834.507		GRISMR	Grism (Long Wavelength)	6
2	F115W	F356W	SHALLOW4	9	1	2	944.836			Out of Field	2

Spectral Elements

NIRISS Imaging	Filter	Grism	Readout Pattern	Groups/Int	Integrations/Exp	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
1	F444W		NIS	10	1	6	6	2641.245	
2	F356W		NIS	10	1	1	1	440.208	
3	F356W		NIS	10	1	2	2	880.415	

Special Requirements

Offset -60.5 arcsec, -73.5 arcsec
No Parallel Attachments

Sequence Observations 1, 2, 3, 4, 5 within 53 Days
Same Aperture PA 1, 2, 3, 4, 5

Observation

Proposal 3325, Observation 3: J0226P0302-P3 Thu Sep 12 22:00:30 GMT 2024

Diagnostic Status: Warning

Observing Template: NIRCam Wide Field Slitless Spectroscopy

Coordinated Parallel Template(s): NIRISS Imaging

Diagnostics

(J0226P0302-P3 (Obs 3)) Warning (Form): For Module=ALL the default target location is in the gap between the modules.

(J0226P0302-P3 (Obs 3)) Warning (Form): Use of only one of GRISMR or GRISMC may result in spectral overlap from multiple sources that can't be corrected. Users should address this issue in their proposal text.

(Visit 3:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.

(J0226P0302-P3 (Obs 3)) Informational (Form): The Visit Planner and Spike may produce different schedulability results.

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Miscellaneous
(2)	J0226P0302	RA: 02 26 1.8700 (36.5077917d) Dec: +03 02 59.28 (3.04980d) Equinox: J2000	Epoch of Position: 2000.0	

Comments: z=6.5412
Category=Galaxy
Description=[High-redshift galaxies, Quasars]

Template

NIRCam Wide Field Slitless Spectroscopy	NIRISS Imaging
Module: ALL	
Subarray: FULL	
Grism (Long Wavelength): GRISMR	
Show partial spectra region in Aladin: false	

Dithers

#	Primary Dither Type	Primary Dithers	Subpixel Positions
1	INTRAMODULEX	3	2-POINT-LARGE-WITH-NIRISS

Direct Image

NIRCam Wide Field Slitless Spectroscopy	Short Filter	Long Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID	Grism (Long Wavelength)	Exposure Type	Total Dithers
1	F115W	F356W	SHALLOW4	9	1	1	472.418		GRISMR	Direct Image	1

Spectral Elements

NIRCam Wide Field Slitless Spectroscopy	Short Filter	Long Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID	Grism (Long Wavelength)	Exposure Type	Total Dithers
1	F200W	F356W	SHALLOW4	9	1	6	2834.507		GRISMR	Grism (Long Wavelength)	6
2	F115W	F356W	SHALLOW4	9	1	2	944.836			Out of Field	2

Spectral Elements

NIRISS Imaging	Filter	Grism	Readout Pattern	Groups/Int	Integrations/Exp	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
1	F444W		NIS	10	1	6	6	2641.245	
2	F356W		NIS	10	1	1	1	440.208	
3	F356W		NIS	10	1	2	2	880.415	

Special Requirements

Offset 63.0 arcsec, 7.5 arcsec
No Parallel Attachments

Sequence Observations 1, 2, 3, 4, 5 within 53 Days
Same Aperture PA 1, 2, 3, 4, 5

Observation

Proposal 3325, Observation 4: J0226P0302-P4 Thu Sep 12 22:00:30 GMT 2024

Diagnostic Status: Warning

Observing Template: NIRCam Wide Field Slitless Spectroscopy

Coordinated Parallel Template(s): NIRISS Imaging

Diagnostics

(J0226P0302-P4 (Obs 4)) Warning (Form): For Module=ALL the default target location is in the gap between the modules.

(J0226P0302-P4 (Obs 4)) Warning (Form): Use of only one of GRISMR or GRISMC may result in spectral overlap from multiple sources that can't be corrected. Users should address this issue in their proposal text.

(Visit 4:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.

(J0226P0302-P4 (Obs 4)) Informational (Form): The Visit Planner and Spike may produce different schedulability results.

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Miscellaneous
(2)	J0226P0302	RA: 02 26 1.8700 (36.5077917d) Dec: +03 02 59.28 (3.04980d) Equinox: J2000	Epoch of Position: 2000.0	

Comments: z=6.5412
Category=Galaxy
Description=[High-redshift galaxies, Quasars]

Template

NIRCam Wide Field Slitless Spectroscopy	NIRISS Imaging
Module: ALL	
Subarray: FULL	
Grism (Long Wavelength): GRISMR	
Show partial spectra region in Aladin: false	

Dithers

#	Primary Dither Type	Primary Dithers	Subpixel Positions
1	INTRAMODULEX	3	2-POINT-LARGE-WITH-NIRISS

Direct Image

NIRCam Wide Field Slitless Spectroscopy	Short Filter	Long Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID	Grism (Long Wavelength)	Exposure Type	Total Dithers
1	F115W	F356W	SHALLOW4	9	1	1	472.418		GRISMR	Direct Image	1

Spectral Elements

NIRCam Wide Field Slitless Spectroscopy	Short Filter	Long Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID	Grism (Long Wavelength)	Exposure Type	Total Dithers
1	F200W	F356W	SHALLOW4	9	1	6	2834.507		GRISMR	Grism (Long Wavelength)	6
2	F115W	F356W	SHALLOW4	9	1	2	944.836			Out of Field	2

Spectral Elements

NIRISS Imaging	Filter	Grism	Readout Pattern	Groups/Int	Integrations/Exp	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
1	F444W		NIS	10	1	6	6	2641.245	
2	F356W		NIS	10	1	1	1	440.208	
3	F356W		NIS	10	1	2	2	880.415	

Special Requirements

Offset 63.0 arcsec, 54.0 arcsec
No Parallel Attachments

Sequence Observations 1, 2, 3, 4, 5 within 53 Days
Same Aperture PA 1, 2, 3, 4, 5

Observation

Proposal 3325, Observation 5: J0226P0302-P5 Thu Sep 12 22:00:30 GMT 2024

Diagnostic Status: Warning

Observing Template: NIRCam Wide Field Slitless Spectroscopy

Coordinated Parallel Template(s): NIRISS Imaging

Diagnostics

(J0226P0302-P5 (Obs 5)) Warning (Form): For Module=ALL the default target location is in the gap between the modules.

(J0226P0302-P5 (Obs 5)) Warning (Form): Use of only one of GRISMR or GRISMC may result in spectral overlap from multiple sources that can't be corrected. Users should address this issue in their proposal text.

(Visit 5:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.

(J0226P0302-P5 (Obs 5)) Informational (Form): The Visit Planner and Spike may produce different schedulability results.

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Miscellaneous
(2)	J0226P0302	RA: 02 26 1.8700 (36.5077917d) Dec: +03 02 59.28 (3.04980d) Equinox: J2000	Epoch of Position: 2000.0	

Comments: z=6.5412
Category=Galaxy
Description=[High-redshift galaxies, Quasars]

Template

NIRCam Wide Field Slitless Spectroscopy	NIRISS Imaging
Module: ALL	
Subarray: FULL	
Grism (Long Wavelength): GRISMR	
Show partial spectra region in Aladin: false	

Dithers

#	Primary Dither Type	Primary Dithers	Subpixel Positions
1	INTRAMODULEX	3	2-POINT-LARGE-WITH-NIRISS

Direct Image

NIRCam Wide Field Slitless Spectroscopy	Short Filter	Long Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID	Grism (Long Wavelength)	Exposure Type	Total Dithers
1	F115W	F356W	SHALLOW4	9	1	1	472.418		GRISMR	Direct Image	1

Spectral Elements

NIRCam Wide Field Slitless Spectroscopy	Short Filter	Long Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID	Grism (Long Wavelength)	Exposure Type	Total Dithers
1	F200W	F356W	SHALLOW4	9	1	6	2834.507		GRISMR	Grism (Long Wavelength)	6
2	F115W	F356W	SHALLOW4	9	1	2	944.836			Out of Field	2

Spectral Elements

NIRISS Imaging	Filter	Grism	Readout Pattern	Groups/Int	Integrations/Exp	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
1	F444W		NIS	10	1	6	6	2641.245	
2	F356W		NIS	10	1	1	1	440.208	
3	F356W		NIS	10	1	2	2	880.415	

Special Requirements

Offset 63.0 arcsec, -73.5 arcsec
No Parallel Attachments

Sequence Observations 1, 2, 3, 4, 5 within 53 Days
Same Aperture PA 1, 2, 3, 4, 5

Observation

Proposal 3325, Observation 6: J0305M3150-P1 Thu Sep 12 22:00:30 GMT 2024

Diagnostic Status: Warning

Observing Template: NIRCam Wide Field Slitless Spectroscopy

Coordinated Parallel Template(s): NIRISS Imaging

Diagnostics

(J0305M3150-P1 (Obs 6)) Warning (Form): For Module=ALL the default target location is in the gap between the modules.

(J0305M3150-P1 (Obs 6)) Warning (Form): Use of only one of GRISMR or GRISMC may result in spectral overlap from multiple sources that can't be corrected. Users should address this issue in their proposal text.

(Visit 6:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.

(J0305M3150-P1 (Obs 6)) Informational (Form): The Visit Planner and Spike may produce different schedulability results.

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Miscellaneous
(3)	J0305M3150	RA: 03 05 16.9200 (46.3205000d) Dec: -31 50 56.00 (-31.84889d) Equinox: J2000	Epoch of Position: 2000.0	

Comments: z=6.6145
Category=Galaxy
Description=[High-redshift galaxies, Quasars]

Template

NIRCam Wide Field Slitless Spectroscopy	NIRISS Imaging
Module: ALL	
Subarray: FULL	
Grism (Long Wavelength): GRISMR	
Show partial spectra region in Aladin: false	

Dithers

#	Primary Dither Type	Primary Dithers	Subpixel Positions
1	INTRAMODULEX	3	2-POINT-LARGE-WITH-NIRISS

Direct Image

NIRCam Wide Field Slitless Spectroscopy	Short Filter	Long Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID	Grism (Long Wavelength)	Exposure Type	Total Dithers
1	F115W	F356W	SHALLOW4	9	1	1	472.418		GRISMR	Direct Image	1

Spectral Elements

NIRCam Wide Field Slitless Spectroscopy	Short Filter	Long Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID	Grism (Long Wavelength)	Exposure Type	Total Dithers
1	F200W	F356W	SHALLOW4	9	1	6	2834.507		GRISMR	Grism (Long Wavelength)	6
2	F115W	F356W	SHALLOW4	9	1	2	944.836			Out of Field	2

Spectral Elements

NIRISS Imaging	Filter	Grism	Readout Pattern	Groups/Int	Integrations/Exp	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
1	F444W		NIS	10	1	6	6	2641.245	
2	F356W		NIS	10	1	1	1	440.208	
3	F356W		NIS	10	1	2	2	880.415	

Special Requirements

Aperture PA Range 253.0 to 273.0 Degrees (V3 253.0 to 273.0)
Offset -60.5 arcsec, 54.0 arcsec
No Parallel Attachments

Sequence Observations 6, 7, 8, 9, 10 within 53 Days
Same Aperture PA 6, 7, 8, 9, 10

Observation

Proposal 3325, Observation 7: J0305M3150-P2 Thu Sep 12 22:00:30 GMT 2024

Diagnostic Status: Warning

Observing Template: NIRCam Wide Field Slitless Spectroscopy

Coordinated Parallel Template(s): NIRISS Imaging

Diagnostics

(J0305M3150-P2 (Obs 7)) Warning (Form): For Module=ALL the default target location is in the gap between the modules.

(J0305M3150-P2 (Obs 7)) Warning (Form): Use of only one of GRISMR or GRISMC may result in spectral overlap from multiple sources that can't be corrected. Users should address this issue in their proposal text.

(Visit 7:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.

(J0305M3150-P2 (Obs 7)) Informational (Form): The Visit Planner and Spike may produce different schedulability results.

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Miscellaneous
(3)	J0305M3150	RA: 03 05 16.9200 (46.3205000d) Dec: -31 50 56.00 (-31.84889d) Equinox: J2000	Epoch of Position: 2000.0	

Comments: z=6.6145
Category=Galaxy
Description=[High-redshift galaxies, Quasars]

Template

NIRCam Wide Field Slitless Spectroscopy	NIRISS Imaging
Module: ALL	
Subarray: FULL	
Grism (Long Wavelength): GRISMR	
Show partial spectra region in Aladin: false	

Dithers

#	Primary Dither Type	Primary Dithers	Subpixel Positions
1	INTRAMODULEX	3	2-POINT-LARGE-WITH-NIRISS

Direct Image

NIRCam Wide Field Slitless Spectroscopy	Short Filter	Long Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID	Grism (Long Wavelength)	Exposure Type	Total Dithers
1	F115W	F356W	SHALLOW4	9	1	1	472.418		GRISMR	Direct Image	1

Spectral Elements

NIRCam Wide Field Slitless Spectroscopy	Short Filter	Long Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID	Grism (Long Wavelength)	Exposure Type	Total Dithers
1	F200W	F356W	SHALLOW4	9	1	6	2834.507		GRISMR	Grism (Long Wavelength)	6
2	F115W	F356W	SHALLOW4	9	1	2	944.836			Out of Field	2

Spectral Elements

NIRISS Imaging	Filter	Grism	Readout Pattern	Groups/Int	Integrations/Exp	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
1	F444W		NIS	10	1	6	6	2641.245	
2	F356W		NIS	10	1	1	1	440.208	
3	F356W		NIS	10	1	2	2	880.415	

Special Requirements

Offset -60.5 arcsec, -73.5 arcsec
No Parallel Attachments

Sequence Observations 6, 7, 8, 9, 10 within 53 Days
Same Aperture PA 6, 7, 8, 9, 10

Observation

Proposal 3325, Observation 8: J0305M3150-P3 Thu Sep 12 22:00:30 GMT 2024

Diagnostic Status: Warning

Observing Template: NIRCam Wide Field Slitless Spectroscopy

Coordinated Parallel Template(s): NIRISS Imaging

Diagnostics

(J0305M3150-P3 (Obs 8)) Warning (Form): For Module=ALL the default target location is in the gap between the modules.

(J0305M3150-P3 (Obs 8)) Warning (Form): Use of only one of GRISMR or GRISMC may result in spectral overlap from multiple sources that can't be corrected. Users should address this issue in their proposal text.

(Visit 8:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.

(J0305M3150-P3 (Obs 8)) Informational (Form): The Visit Planner and Spike may produce different schedulability results.

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Miscellaneous
(3)	J0305M3150	RA: 03 05 16.9200 (46.3205000d) Dec: -31 50 56.00 (-31.84889d) Equinox: J2000	Epoch of Position: 2000.0	

Comments: z=6.6145
Category=Galaxy
Description=[High-redshift galaxies, Quasars]

Template

NIRCam Wide Field Slitless Spectroscopy	NIRISS Imaging
Module: ALL	
Subarray: FULL	
Grism (Long Wavelength): GRISMR	
Show partial spectra region in Aladin: false	

Dithers

#	Primary Dither Type	Primary Dithers	Subpixel Positions
1	INTRAMODULEX	3	2-POINT-LARGE-WITH-NIRISS

Direct Image

NIRCam Wide Field Slitless Spectroscopy	Short Filter	Long Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID	Grism (Long Wavelength)	Exposure Type	Total Dithers
1	F115W	F356W	SHALLOW4	9	1	1	472.418		GRISMR	Direct Image	1

Spectral Elements

NIRCam Wide Field Slitless Spectroscopy	Short Filter	Long Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID	Grism (Long Wavelength)	Exposure Type	Total Dithers
1	F200W	F356W	SHALLOW4	9	1	6	2834.507		GRISMR	Grism (Long Wavelength)	6
2	F115W	F356W	SHALLOW4	9	1	2	944.836			Out of Field	2

Spectral Elements

NIRISS Imaging	Filter	Grism	Readout Pattern	Groups/Int	Integrations/Exp	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
1	F444W		NIS	10	1	6	6	2641.245	
2	F356W		NIS	10	1	1	1	440.208	
3	F356W		NIS	10	1	2	2	880.415	

Special Requirements

Offset 63.0 arcsec, 7.5 arcsec
No Parallel Attachments

Sequence Observations 6, 7, 8, 9, 10 within 53 Days
Same Aperture PA 6, 7, 8, 9, 10

Observation

Proposal 3325, Observation 108: J0305M3150-P3 Thu Sep 12 22:00:30 GMT 2024

Diagnostic Status: Warning

Observing Template: NIRCam Wide Field Slitless Spectroscopy

Coordinated Parallel Template(s): NIRISS Imaging

Diagnostics

(J0305M3150-P3 (Obs 108)) Warning (Form): For Module=ALL the default target location is in the gap between the modules.

(J0305M3150-P3 (Obs 108)) Warning (Form): Use of only one of GRISMR or GRISMC may result in spectral overlap from multiple sources that can't be corrected. Users should address this issue in their proposal text.

(Visit 108:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Miscellaneous
(3)	J0305M3150	RA: 03 05 16.9200 (46.3205000d) Dec: -31 50 56.00 (-31.84889d) Equinox: J2000	Epoch of Position: 2000.0	

Comments: z=6.6145
Category=Galaxy
Description=[High-redshift galaxies, Quasars]

Template

NIRCam Wide Field Slitless Spectroscopy	NIRISS Imaging
Module: ALL	
Subarray: FULL	
Grism (Long Wavelength): GRISMR	
Show partial spectra region in Aladin: false	

Dithers

#	Primary Dither Type	Primary Dithers	Subpixel Positions
1	INTRAMODULEX	3	2-POINT-LARGE-WITH-NIRISS

Direct Image

NIRCam Wide Field Slitless Spectroscopy	Short Filter	Long Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID	Grism (Long Wavelength)	Exposure Type	Total Dithers
1	F115W	F356W	SHALLOW4	9	1	1	472.418		GRISMR	Direct Image	1

Spectral Elements

NIRCam Wide Field Slitless Spectroscopy	Short Filter	Long Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID	Grism (Long Wavelength)	Exposure Type	Total Dithers
1	F200W	F356W	SHALLOW4	9	1	6	2834.507		GRISMR	Grism (Long Wavelength)	6
2	F115W	F356W	SHALLOW4	9	1	2	944.836			Out of Field	2

Spectral Elements

NIRISS Imaging	Filter	Grism	Readout Pattern	Groups/Int	Integrations/Exp	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
1	F444W		NIS	10	1	6	6	2641.245	
2	F356W		NIS	10	1	1	1	440.208	
3	F356W		NIS	10	1	2	2	880.415	

Special Requirements

Aperture PA Range 250 to 340 Degrees (V3 250.0 to 340.0)
Offset 63.0 arcsec, 7.5 arcsec
No Parallel Attachments

Observation

Proposal 3325, Observation 9: J0305M3150-P4 Thu Sep 12 22:00:30 GMT 2024

Diagnostic Status: Warning

Observing Template: NIRCam Wide Field Slitless Spectroscopy

Coordinated Parallel Template(s): NIRISS Imaging

Diagnostics

(J0305M3150-P4 (Obs 9)) Warning (Form): For Module=ALL the default target location is in the gap between the modules.

(J0305M3150-P4 (Obs 9)) Warning (Form): Use of only one of GRISMR or GRISMC may result in spectral overlap from multiple sources that can't be corrected. Users should address this issue in their proposal text.

(Visit 9:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.

(J0305M3150-P4 (Obs 9)) Informational (Form): The Visit Planner and Spike may produce different schedulability results.

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Miscellaneous
(3)	J0305M3150	RA: 03 05 16.9200 (46.3205000d) Dec: -31 50 56.00 (-31.84889d) Equinox: J2000	Epoch of Position: 2000.0	

Comments: z=6.6145
Category=Galaxy
Description=[High-redshift galaxies, Quasars]

Template

NIRCam Wide Field Slitless Spectroscopy	NIRISS Imaging
Module: ALL	
Subarray: FULL	
Grism (Long Wavelength): GRISMR	
Show partial spectra region in Aladin: false	

Dithers

#	Primary Dither Type	Primary Dithers	Subpixel Positions
1	INTRAMODULEX	3	2-POINT-LARGE-WITH-NIRISS

Direct Image

NIRCam Wide Field Slitless Spectroscopy	Short Filter	Long Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID	Grism (Long Wavelength)	Exposure Type	Total Dithers
1	F115W	F356W	SHALLOW4	9	1	1	472.418		GRISMR	Direct Image	1

Spectral Elements

NIRCam Wide Field Slitless Spectroscopy	Short Filter	Long Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID	Grism (Long Wavelength)	Exposure Type	Total Dithers
1	F200W	F356W	SHALLOW4	9	1	6	2834.507		GRISMR	Grism (Long Wavelength)	6
2	F115W	F356W	SHALLOW4	9	1	2	944.836			Out of Field	2

Spectral Elements

NIRISS Imaging	Filter	Grism	Readout Pattern	Groups/Int	Integrations/Exp	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
1	F444W		NIS	10	1	6	6	2641.245	
2	F356W		NIS	10	1	1	1	440.208	
3	F356W		NIS	10	1	2	2	880.415	

Special Requirements

Offset 63.0 arcsec, 54.0 arcsec
No Parallel Attachments

Sequence Observations 6, 7, 8, 9, 10 within 53 Days
Same Aperture PA 6, 7, 8, 9, 10

Observation

Proposal 3325, Observation 10: J0305M3150-P5 Thu Sep 12 22:00:30 GMT 2024

Diagnostic Status: Warning

Observing Template: NIRCam Wide Field Slitless Spectroscopy

Coordinated Parallel Template(s): NIRISS Imaging

Diagnostics

(J0305M3150-P5 (Obs 10)) Warning (Form): For Module=ALL the default target location is in the gap between the modules.

(J0305M3150-P5 (Obs 10)) Warning (Form): Use of only one of GRISMR or GRISMC may result in spectral overlap from multiple sources that can't be corrected. Users should address this issue in their proposal text.

(Visit 10:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.

(J0305M3150-P5 (Obs 10)) Informational (Form): The Visit Planner and Spike may produce different schedulability results.

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Miscellaneous
(3)	J0305M3150	RA: 03 05 16.9200 (46.3205000d) Dec: -31 50 56.00 (-31.84889d) Equinox: J2000	Epoch of Position: 2000.0	

Comments: z=6.6145
Category=Galaxy
Description=[High-redshift galaxies, Quasars]

Template

NIRCam Wide Field Slitless Spectroscopy	NIRISS Imaging
Module: ALL	
Subarray: FULL	
Grism (Long Wavelength): GRISMR	
Show partial spectra region in Aladin: false	

Dithers

#	Primary Dither Type	Primary Dithers	Subpixel Positions
1	INTRAMODULEX	3	2-POINT-LARGE-WITH-NIRISS

Direct Image

NIRCam Wide Field Slitless Spectroscopy	Short Filter	Long Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID	Grism (Long Wavelength)	Exposure Type	Total Dithers
1	F115W	F356W	SHALLOW4	9	1	1	472.418		GRISMR	Direct Image	1

Spectral Elements

NIRCam Wide Field Slitless Spectroscopy	Short Filter	Long Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID	Grism (Long Wavelength)	Exposure Type	Total Dithers
1	F200W	F356W	SHALLOW4	9	1	6	2834.507		GRISMR	Grism (Long Wavelength)	6
2	F115W	F356W	SHALLOW4	9	1	2	944.836			Out of Field	2

Spectral Elements

NIRISS Imaging	Filter	Grism	Readout Pattern	Groups/Int	Integrations/Exp	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
1	F444W		NIS	10	1	6	6	2641.245	
2	F356W		NIS	10	1	1	1	440.208	
3	F356W		NIS	10	1	2	2	880.415	

Special Requirements

Offset 63.0 arcsec, -73.5 arcsec
No Parallel Attachments

Sequence Observations 6, 7, 8, 9, 10 within 53 Days
Same Aperture PA 6, 7, 8, 9, 10

Observation

Proposal 3325, Observation 12: J0226-4config-pa2 Thu Sep 12 22:00:30 GMT 2024

Diagnostic Status: Warning

Observing Template: NIRSpec MultiObject Spectroscopy

Coordinated Parallel Template(s): NIRCam Imaging

Diagnostics

(J0226-4config-pa2 (Obs 12)) Warning (Form): Config c2 (#2) has 1 primary slits affected by failed closed shutters.

(J0226-4config-pa2 (Obs 12)) Warning (Form): Config c3 (#3) has 2 primary slits affected by failed closed shutters.

(J0226-4config-pa2 (Obs 12)) Warning (Form): Config c4 (#4) has 4 primary slits affected by failed closed shutters.

(Visit 12:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.

(Visit 12:2) Warning (Form): Overheads are provisional until the Visit Planner has been run.

(Visit 12:2) Warning (Form): The recommended value is 8 Reference Stars for this template.

(Visit 12:3) Warning (Form): Overheads are provisional until the Visit Planner has been run.

(Visit 12:3) Warning (Form): The recommended value is 8 Reference Stars for this template.

(Visit 12:4) Warning (Form): Overheads are provisional until the Visit Planner has been run.

(Visit 12:4) Warning (Form): The recommended value is 8 Reference Stars for this template.

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Miscellaneous
(7)	J0226-MSA-Targets	RA: 02 26 1.5920 (36.5066333d) Dec: +03 03 8.27 (3.05230d) Equinox: J2000		

Comments:
Description=[]

Acquisition

NIRSpec MultiObject Spectroscopy	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: NRSRAPIDD1; 8 sources in 3 quads; [Optimal TA Accuracy]	SAME	CLEAR	Auto Acq MSA Config	NRSRAPIDD1	3	1	4	257.682	
2	Filter: CLEAR; Readout: NRSRAPID; 7 sources in 3 quads; [Optimal TA Accuracy]	SAME	CLEAR	Auto Acq MSA Config	NRSRAPID	3	1	4	171.788	
3	Filter: CLEAR; Readout: NRSRAPIDD2; 7 sources in 3 quads; [Optimal TA Accuracy]	SAME	CLEAR	Auto Acq MSA Config	NRSRAPIDD2	3	1	4	343.577	
4	Filter: CLEAR; Readout: NRSRAPIDD1; 7 sources in 4 quads; [Optimal TA Accuracy]	SAME	CLEAR	Auto Acq MSA Config	NRSRAPIDD1	3	1	4	257.682	

Template

NIRSpec MultiObject Spectroscopy	NIRCam Imaging
TA Method: MSATA	Module: ALL
Obtain Confirmation Images: No	Subarray: FULL
Science Aperture: MSA Center	
Primary Candidate List: primary (999 sources)	
Filler Candidate List: null	
Spectral Overlap Map: jwst-nirspec-g395m	
Spectral Overlap Threshold: 1.5	

Reference Stars

Visit	ID	RA	Dec	Magnitude	Visit	ID	RA	Dec	Magnitude
1	1156	36.523372	3.092400	23.606582641601562	1	6040	36.507033	3.062114	23.56102752685547
1	3056	36.519436	3.071560	23.293447494506836	1	8506	36.492953	3.066174	23.899368286132812
1	4385	36.519277	3.049977	23.839893341064453	1	8627	36.498272	3.047767	22.504119873046875
1	5988	36.508058	3.060886	22.030202865600586	1	9308	36.489623	3.063031	22.30651092529297

Visit	ID	RA	Dec	Magnitude	Visit	ID	RA	Dec	Magnitude
2	5030	36.509893	3.070937	22.787731170654297	2	6040	36.507033	3.062114	23.56102752685547
2	5442	36.513211	3.054104	21.798784255981445	2	9189	36.497325	3.040385	23.430932998657227
2	5563	36.520092	3.029263	21.895694732666016	2	13584	36.483347	3.028834	21.816455841064453
2	5988	36.508058	3.060886	22.030202865600586					

Visit	ID	RA	Dec	Magnitude	Visit	ID	RA	Dec	Magnitude
3	3056	36.519436	3.071560	23.293447494506836	3	11802	36.473775	3.081991	23.478124618530273
3	5215	36.506382	3.078922	23.125778198242188	3	12967	36.474750	3.043572	23.851858139038086
3	11186	36.478216	3.055112	24.744283676147461	3	13002	36.474117	3.046657	23.119869232177734
3	11391	36.477421	3.061765	24.652236938476562					

Visit	ID	RA	Dec	Magnitude	Visit	ID	RA	Dec	Magnitude
4	5572	36.516645	3.040359	22.332126617431641	4	8627	36.498272	3.047767	22.504119873046875
4	5988	36.508058	3.060886	22.030202865600586	4	9308	36.489623	3.063031	22.30651092529297
4	6205	36.521477	3.011640	23.81474494934082	4	10554	36.493269	3.026645	21.972900390625
4	8506	36.492953	3.066174	23.899368286132812					

Dithers

#	Dither Type
1	NONE

Spectral Elements

NIRSpec MultiObject Spectroscopy	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 (G395M/F290LP)	c1	3 Shutter Slitlet	36.50347129166667 Degrees 3.0722119444444447 Degrees	205.92258957857882			3	3	3545.1
2	1 (G395M/F290LP)	c2	3 Shutter Slitlet	36.519977125 Degrees 3.0425805555555554 Degrees	205.9235397366567			3	3	3545.1
3	1 (G395M/F290LP)	c3	3 Shutter Slitlet	36.491101375 Degrees 3.0658619444444444 Degrees	205.9219341956273			3	3	3545.1
4	1 (G395M/F290LP)	c4	3 Shutter Slitlet	36.50267362500001 Degrees 3.0324483333333334 Degrees	205.9226230762585			3	3	3545.1

Spectral Elements

NIRCam Imaging	Short Filter	Long Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Dithers	Total Exposure Time	ETC Wkbk.Calc ID
1	F070W	F444W	MEDIUM8	10	1	3	3	3156.61	
2	F070W	F444W	MEDIUM8	10	1	3	3	3156.61	
3	F115W	F356W	MEDIUM8	10	1	3	3	3156.61	
4	F115W	F356W	MEDIUM8	10	1	3	3	3156.61	

Special Requirements

Group Visits within 53.0 Days
Visits Same PA
No Parallel Attachments
MSA Scheduled Aperture PA 205.9228 to 205.9228 Degrees (V3 67.3482 to 67.3482)

Observation

Proposal 3325, Observation 13: J0305-4config-pa1-v10 Thu Sep 12 22:00:30 GMT 2024

Diagnostic Status: Warning

Observing Template: NIRSpec MultiObject Spectroscopy

Coordinated Parallel Template(s): NIRCam Imaging

Diagnostics

(Visit 13:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.

(Visit 13:2) Warning (Form): Overheads are provisional until the Visit Planner has been run.

(Visit 13:3) Warning (Form): Overheads are provisional until the Visit Planner has been run.

(Visit 13:4) Warning (Form): Overheads are provisional until the Visit Planner has been run.

(Visit 13:4) Warning (Form): The recommended value is 8 Reference Stars for this template.

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Miscellaneous
(11)	J0305_MSA_new20240906	RA: 03 05 17.8061 (46.3241921d) Dec: -31 49 33.62 (-31.82601d) Equinox: J2000		

Comments:
Description=[]

Acquisition

NIRSpec MultiObject Spectroscopy	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	
2	Filter: CLEAR; Readout: NRSRAPIDD2; 8 sources in 4 quads; [Optimal TA Accuracy]	SAME	CLEAR	Auto Acq MSA Config	NRSRAPIDD2	3	1	4	343.577	
3	Filter: CLEAR; Readout: NRSRAPIDD6; 8 sources in 4 quads; [Optimal TA Accuracy]	SAME	CLEAR	Auto Acq MSA Config	NRSRAPIDD6	3	1	4	687.153	
4	Filter: CLEAR; Readout: NRSRAPIDD6; 7 sources in 4 quads; [Optimal TA Accuracy]	SAME	CLEAR	Auto Acq MSA Config	NRSRAPIDD6	3	1	4	687.153	

Template

NIRSpec MultiObject Spectroscopy	NIRCam Imaging
TA Method: MSATA	Module: ALL
Obtain Confirmation Images: No	Subarray: FULL
Science Aperture: MSA Center	
Primary Candidate List: new primary (363 sources)	
Filler Candidate List: new filler (1128 sources)	
Spectral Overlap Map: jwst-nirspec-prism	
Spectral Overlap Threshold: 1.5	

Reference Stars

Visit	ID	RA	Dec	Magnitude	Visit	ID	RA	Dec	Magnitude
1	24568	46.341305	-31.840181	25.0474	1	33476	46.292000	-31.818178	24.8719
1	25886	46.335041	-31.841192	23.5672	1	33727	46.287518	-31.797970	24.9518
1	27118	46.322227	-31.803341	25.1114	1	33968	46.291882	-31.838099	24.7779
1	27658	46.326805	-31.854588	23.7089	1	34951	46.286030	-31.836317	24.8136
Visit	**ID**	**RA**	**Dec**	**Magnitude**	**Visit**	**ID**	**RA**	**Dec**	**Magnitude**
2	22544	46.350739	-31.834896	23.9589	2	30883	46.312054	-31.863129	24.4078
2	24349	46.342968	-31.843445	23.3081	2	32333	46.300629	-31.831511	22.2079
2	25820	46.336979	-31.852949	24.6733	2	33968	46.291882	-31.838099	24.7779
2	29772	46.310600	-31.817522	22.5732	2	34711	46.291210	-31.861355	24.8892
Visit	**ID**	**RA**	**Dec**	**Magnitude**	**Visit**	**ID**	**RA**	**Dec**	**Magnitude**
3	20338	46.373627	-31.821552	25.4561	3	27266	46.328899	-31.854834	25.0145
3	20957	46.360985	-31.812836	25.3459	3	27658	46.326805	-31.854588	23.7089
3	21610	46.358219	-31.844276	23.5264	3	28284	46.324619	-31.862352	24.5996
3	26801	46.327606	-31.826641	24.7708	3	31379	46.309315	-31.860359	25.0736
Visit	**ID**	**RA**	**Dec**	**Magnitude**	**Visit**	**ID**	**RA**	**Dec**	**Magnitude**
4	29337	46.321796	-31.880228	24.4198	4	36766	46.276875	-31.860130	25.6877
4	30387	46.313404	-31.856407	23.1868	4	36927	46.275490	-31.858532	24.828
4	30456	46.317036	-31.883394	24.9615	4	37247	46.275398	-31.898914	24.7434
4	34832	46.294628	-31.889952	25.179					

Dithers

#	Dither Type
1	NONE

Spectral Elements

NIRSpec MultiObject Spectroscopy	Exposure Specification	MSA Configuration	Nod Pattern	Pointing	Aperture PA	Dispersion Offset (Shutters)	Cross-Dispersion Offset (Shutters)	Total Dithers	Total Integrations	Total Exposure Time
1	1 (PRISM/CLEAR)	c1	3 Shutter Slitlet	46.310109541666 67 Degrees -31.826218055555 557 Degrees	96.536906941688 3			3	3	3545.1
2	1 (PRISM/CLEAR)	c2	3 Shutter Slitlet	46.322309000000 004 Degrees -31.845577777777 75 Degrees	96.530465270629 86			3	3	3545.1
3	1 (PRISM/CLEAR)	c3	3 Shutter Slitlet	46.343472916666 66 Degrees -31.835054166666 68 Degrees	96.519342838619 79			3	3	3545.1
4	1 (PRISM/CLEAR)	c4	3 Shutter Slitlet	46.288968791666 67 Degrees -31.873092222222 226 Degrees	96.547982350321 79			3	3	3545.1

Spectral Elements

NIRCam Imaging	Short Filter	Long Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Dithers	Total Exposure Time	ETC Wkbk.Calc ID
1	F115W	F356W	MEDIUM8	10	1	3	3	3156.61	
2	F115W	F356W	MEDIUM8	10	1	3	3	3156.61	
3	F115W	F356W	MEDIUM8	10	1	3	3	3156.61	
4	F115W	F356W	MEDIUM8	10	1	3	3	3156.61	

Special Requirements

Group Visits within 53.0 Days
Visits Same PA
No Parallel Attachments
MSA Scheduled Aperture PA 96.5295 to 96.5295 Degrees (V3 317.9549 to 317.9549)

Observation

Proposal 3325, Observation 15: J0226-IFU

Thu Sep 12 22:00:30 GMT 2024

Diagnostic Status: Warning

Observing Template: NIRSpec IFU Spectroscopy

Diagnostics

(Visit 15:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Miscellaneous
(2)	J0226P0302	RA: 02 26 1.8700 (36.5077917d) Dec: +03 02 59.28 (3.04980d) Equinox: J2000	Epoch of Position: 2000.0	

Comments: z=6.5412
Category=Galaxy
Description=[High-redshift galaxies, Quasars]

Template

TA Method
NONE

Dithers

#	Dither Type	Size	Starting Point	Number of Points	Points
1	CYCLING	MEDIUM	1	6	

Spectral Elements

#	Grating/Filter	Readout Pattern	Groups/Int	Integrations/Exp	Leakcal	Dither	Autocal	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
1	G395H/F290LP	NRSIRS2	25	1	false	true	NONE	6	6	11029.201	

Observation

Proposal 3325, Observation 16: J0305-IFU

Thu Sep 12 22:00:30 GMT 2024

Diagnostic Status: Warning

Observing Template: NIRSpec IFU Spectroscopy

Diagnostics

(Visit 16:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Miscellaneous
(3)	J0305M3150	RA: 03 05 16.9200 (46.3205000d) Dec: -31 50 56.00 (-31.84889d) Equinox: J2000	Epoch of Position: 2000.0	

Comments: z=6.6145
Category=Galaxy
Description=[High-redshift galaxies, Quasars]

Template

TA Method
NONE

Dithers

#	Dither Type	Size	Starting Point	Number of Points	Points
1	CYCLING	MEDIUM	1	6	

Spectral Elements

#	Grating/Filter	Readout Pattern	Groups/Int	Integrations/Exp	Leakcal	Dither	Autocal	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
1	G395H/F290LP	NRSIRS2	25	1	false	true	NONE	6	6	11029.201	