



# 3045 - Witnessing the Maturing of Teenage Galaxies at $z = 4 - 6$ with a Comprehensive UV - Optical - Sub-mm Benchmark Sample for the Community

Cycle: 2, Proposal Category: GO

## INVESTIGATORS

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JWST Proposal 3045 (Created: Tuesday, February 27, 2024 at 12:00:51 PM Eastern Standard Time) - Overview

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Dr. Xuheng Ding (CoI)	Institute for Physics and Mathematics of the Universe
Mr. Zhaoxuan Liu (CoI)	Institute for Physics and Mathematics of the Universe

**OBSERVATIONS**

<i>Folder</i>	<i>Observation</i>	<i>Label</i>	<i>Observing Template</i>	<i>Science Target</i>
Observation Folder				
	1		NIRSpec IFU Spectroscopy	(1) DC-494763
	2		NIRSpec IFU Spectroscopy	(2) DC-519281
	3		NIRSpec IFU Spectroscopy	(3) DC-536534
	4		NIRSpec IFU Spectroscopy	(4) DC-630594
	5		NIRSpec IFU Spectroscopy	(5) DC-683613
	6		NIRSpec IFU Spectroscopy	(6) DC-709575
	7		NIRSpec IFU Spectroscopy	(7) DC-742174
	8		NIRSpec IFU Spectroscopy	(8) DC-842313
	9		NIRSpec IFU Spectroscopy	(9) DC-848185

<i>Folder</i>	<i>Observation</i>	<i>Label</i>	<i>Observing Template</i>	<i>Science Target</i>
	10		NIRSpec IFU Spectroscopy	(10) DC-873321
	11		NIRSpec IFU Spectroscopy	(11) DC-873756
	12		NIRSpec IFU Spectroscopy	(12) VC-5100541407
	13		NIRSpec IFU Spectroscopy	(13) VC-5100822662
	14		NIRSpec IFU Spectroscopy	(14) VC-5100994794
	15		NIRSpec IFU Spectroscopy	(15) VC-5101218326
	16		NIRSpec IFU Spectroscopy	(16) VC-5101244930
	57		NIRSpec IFU Spectroscopy	(57) DC-417567
	18		NIRSpec IFU Spectroscopy	(18) VC-5110377875

## ABSTRACT

With NIRSpec IFU observations of 18 representative main-sequence galaxies at  $z=4.4-5.7$ , we complete the highest-redshift kpc-resolved rest-frame UV to far-IR benchmark sample to study how the first galaxies mature and grow to become the galaxies we observe at later cosmic times.

Capitalizing on more than 10 years of observations with ALMA and other observatories, and combined with the newest JWST imaging data, all 18 galaxies have

- (i) high ( $<0.2''$ ) and low ( $>0.5''$ ) resolution ALMA sub-mm observations providing C+ and dust continuum measurements on kpc and extended scales
- (ii) optical JWST/NIRCam imaging probing their optical continuum, and
- (iii) other ancillary data including rest-frame UV imaging and spectroscopy.

The proposed NIRSpec IFU observations add crucial spectroscopy of all main optical emission lines to this sample to constrain key properties at kpc-scales ( $0.1''-0.2''$ ), including stellar masses, star-formation histories, dust attenuation, kinematics, photoionization, metallicity, and other chemical properties. With these kpc-resolution matched observations, we will jointly observe stars, gas and dust to

- (i) study how and where stars are formed,
- (ii) analyze in detail the interstellar medium, and
- (iii) explore and constrain the diverse dust properties and dust production mechanisms.

To-date, this is the only sample with kpc-resolution multi-wavelength photometric and spectroscopic observations from rest-frame UV to far-IR at these redshifts, hence it will have a long-lasting impact on our understanding of galaxies living in the midst of a transformational phase between primordial and mature galaxy evolution shortly after the epoch of reionization.

## **OBSERVING DESCRIPTION**

This program targets 18 high-redshift spectroscopically confirmed galaxies at  $4.4 < z < 5.7$  with kpc-resolution ALMA observations and JWST/NIRCam imaging in F115W, F150W, F277W, F444W. We propose to obtain NIRSpec IFU observation in the G235M/F170LP and G395M/F290LP configurations with the goal to measure all major rest-frame optical emission lines for all of the galaxies to infer properties such as star formation histories, metallicities, electron densities, ionization properties and other fundamental chemical properties. Furthermore, the IFU capability will be used to measure these properties on a kpc resolved scale at 0.1".

This sample will be of tremendous importance for the community and we anticipate wide engagement. We therefore forgo any proprietary time on this program to share these observations with the community as soon as possible to maximize the science output and to encourage follow up observations with other facilities.

The integrations per target vary from 15 minutes to 2 hours and are computed to observe the [OII] (in G235M) and [NII] (in G395M) emission lines at a spectrally and spatially integrated  $S/N > 5$ . We implement a 2-point dither using the positions 1 and 2 from the LARGE SPARSE-CYCLING pattern for optimal sub-pixel sampling. We maximize the number of groups for these faint sources as recommended. We use NRSIRS2RAPID for most sources except for the faintest sources requiring exposures of 2 hours for which we use NRSIRS2 to avoid data volume issues.

We request one WATA TA for a multi-component galaxy (DC-848185) that runs the risk to be close to the edge of the IFU. We use a star at F140W mag  $\sim 20.5$ AB that is 18" from the IFU center. For the V3PAs of  $\sim 100$  degrees (two date ranges available), the star is between the IFU and S1600A1 aperture, hence a telescope slew of only  $32'' - 18'' = 14''$  is necessary. For the other V3PA of  $\sim 300$  degrees (available for one date range). The other galaxies are compact relative to the IFU field-of-view (mostly  $< 0.5''$ ), hence we do not request active target acquisition. We request a VERIFY ONLY verification image (MSA "ALL OPEN" configuration with filter F140X) to verify the absolute pointing of the observations.

There are no special requirements for these observations.

Proposal 3045 - Targets - Witnessing the Maturing of Teenage Galaxies at  $z = 4 - 6$  with a Comprehensive UV - Optical - Sub-mm Be...

#	Name	Target Coordinates	Targ. Coord. Corrections	Miscellaneous
(1)	DC-494763	RA: 10 00 5.1050 (150.0212708d) Dec: +02 03 12.17 (2.05338d) Equinox: J2000		
<i>Comments:</i> Category=Galaxy Description=[High-redshift galaxies]				
(2)	DC-519281	RA: 09 59 0.8936 (149.7537233d) Dec: +02 05 27.62 (2.09101d) Equinox: J2000		
<i>Comments:</i> Category=Galaxy Description=[High-redshift galaxies]				
(3)	DC-536534	RA: 09 59 53.2397 (149.9718321d) Dec: +02 07 5.47 (2.11819d) Equinox: J2000		
<i>Comments:</i> Category=Galaxy Description=[High-redshift galaxies]				
(4)	DC-630594	RA: 10 00 32.6001 (150.1358338d) Dec: +02 15 28.38 (2.25788d) Equinox: J2000		
<i>Comments:</i> Category=Galaxy Description=[High-redshift galaxies]				
(5)	DC-683613	RA: 10 00 9.4226 (150.0392608d) Dec: +02 20 13.86 (2.33718d) Equinox: J2000		
<i>Comments:</i> Category=Galaxy Description=[High-redshift galaxies]				
(6)	DC-709575	RA: 09 59 47.0654 (149.9461058d) Dec: +02 22 32.88 (2.37580d) Equinox: J2000		
<i>Comments:</i> Category=Galaxy Description=[High-redshift galaxies]				
(7)	DC-742174	RA: 10 00 39.1260 (150.1630250d) Dec: +02 25 32.16 (2.42560d) Equinox: J2000		
<i>Comments:</i> Category=Galaxy Description=[High-redshift galaxies]				
(8)	DC-842313	RA: 10 00 54.5325 (150.2272187d) Dec: +02 34 34.99 (2.57639d) Equinox: J2000		
<i>Comments:</i> Category=Galaxy Description=[High-redshift galaxies]				

Fixed Targets

Proposal 3045 - Targets - Witnessing the Maturing of Teenage Galaxies at  $z = 4 - 6$  with a Comprehensive UV - Optical - Sub-mm Be...

(9)	DC-848185	RA: 10 00 21.5112 (150.0896300d) Dec: +02 35 10.89 (2.58636d) Equinox: J2000
<p><i>Comments:</i>  <i>Category=Galaxy</i>  <i>Description=[High-redshift galaxies]</i></p>		
(10)	DC-873321	RA: 10 00 4.0576 (150.0169067d) Dec: +02 37 35.82 (2.62662d) Equinox: J2000
<p><i>Comments:</i>  <i>Category=Galaxy</i>  <i>Description=[High-redshift galaxies]</i></p>		
(11)	DC-873756	RA: 10 00 2.7173 (150.0113221d) Dec: +02 37 40.15 (2.62782d) Equinox: J2000
<p><i>Comments:</i>  <i>Category=Galaxy</i>  <i>Description=[High-redshift galaxies]</i></p>		
(12)	VC-5100541407	RA: 10 01 0.9192 (150.2538300d) Dec: +01 48 33.68 (1.80936d) Equinox: J2000
<p><i>Comments:</i>  <i>Category=Galaxy</i>  <i>Description=[High-redshift galaxies]</i></p>		
(13)	VC-5100822662	RA: 09 58 57.9126 (149.7413025d) Dec: +02 04 51.41 (2.08095d) Equinox: J2000
<p><i>Comments:</i>  <i>Category=Galaxy</i>  <i>Description=[High-redshift galaxies]</i></p>		
(14)	VC-5100994794	RA: 10 00 41.1438 (150.1714325d) Dec: +02 17 14.15 (2.28726d) Equinox: J2000
<p><i>Comments:</i>  <i>Category=Galaxy</i>  <i>Description=[High-redshift galaxies]</i></p>		
(15)	VC-5101218326	RA: 10 01 12.4988 (150.3020783d) Dec: +02 18 52.62 (2.31462d) Equinox: J2000
<p><i>Comments:</i>  <i>Category=Galaxy</i>  <i>Description=[High-redshift galaxies]</i></p>		
(16)	VC-5101244930	RA: 10 00 47.6550 (150.1985625d) Dec: +02 18 2.10 (2.30058d) Equinox: J2000
<p><i>Comments:</i>  <i>Category=Galaxy</i>  <i>Description=[High-redshift galaxies]</i></p>		

Proposal 3045 - Targets - Witnessing the Maturing of Teenage Galaxies at  $z = 4 - 6$  with a Comprehensive UV - Optical - Sub-mm Be...

(18)	VC-5110377875	RA: 10 01 32.3401 (150.3847504d) Dec: +02 24 30.33 (2.40842d) Equinox: J2000	
<p><i>Comments:</i>  <i>Category=Galaxy</i>  <i>Description=[High-redshift galaxies]</i></p>			
(19)	DC-848185-WATA	RA: 10 00 22.0163 (150.0917346d) Dec: +02 34 54.71 (2.58186d) Equinox: J2000	Epoch of Position: 2000
<p><i>Comments: Star close to DC-848185 for WATA TA.</i>  <i>Magnitude in ACS/F814W = 21.5AB</i>  <i>Magnitude in HST/F160W = 20.4AB</i>  <i>F140W mag is probably slightly fainter than 20.4AB.</i></p>			
<p><i>Old coordinates (from COSMOS2020 catalog):</i>  <i>RA = 10 00 22.0188</i>  <i>DEC = +02 34 54.77</i></p>			
<p><i>New coordinates measured from COSMOS-Web Jan 2024 image:</i>  <i>RA = 10 00 22.0163</i>  <i>DEC = +02 34 54.709</i>  <i>Category=Calibration</i>  <i>Description=[Astrometric]</i>  <i>Extended=NO</i></p>			
(57)	DC-417567	RA: 10 02 4.0849 (150.5170204d) Dec: +01 55 44.03 (1.92890d) Equinox: J2000	
<p><i>Comments: This target replaces VC-5101288969.</i></p>			
<p><i>RA = 150.51702050253974</i>  <i>Dec = 1.928898250919978</i>  <i>Category=Galaxy</i>  <i>Description=[High-redshift galaxies]</i></p>			

Proposal 3045 - Observation 1 - Witnessing the Maturing of Teenage Galaxies at z = 4 – 6 with a Comprehensive UV - Optical - Sub-...

Tue Feb 27 17:00:51 GMT 2024

<b>Observation</b>	<b>Proposal 3045, Observation 1</b> <b>Diagnostic Status: Warning</b> Observing Template: NIRSpec IFU Spectroscopy																																															
	(Observation 1) Warning (Form): Verification imaging with an ALLOPEN MSA configuration may cause persistence from bright sources in the field of view. (Observation 1) Warning (Form): WATA may be a better choice for more accurate placement in the IFU for point-like acquisition targets with positional uncertainty of 0.1 arcsec or less. (Visit 1:1) Warning (Form): Data Excess over lower threshold (Visit 1:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.																																															
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<b>Pointing Verification</b>	<table border="1"> <thead> <tr> <th>#</th> <th>PV MSA Configuration</th> <th>Filter</th> <th>PV Readout Pattern</th> <th>PV Groups/Int</th> <th>PV Integrations/Exp</th> <th>PV Total Dithers</th> <th>PV Total Integrations</th> <th>PV Total Exposure Time</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>ALLOPEN</td> <td>F140X</td> <td>NRSIRS2RAPID</td> <td>15</td> <td>1</td> <td>1</td> <td>1</td> <td>233.422</td> </tr> </tbody> </table>	#	PV MSA Configuration	Filter	PV Readout Pattern	PV Groups/Int	PV Integrations/Exp	PV Total Dithers	PV Total Integrations	PV Total Exposure Time	1	ALLOPEN	F140X	NRSIRS2RAPID	15	1	1	1	233.422																													
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Proposal 3045 - Observation 2 - Witnessing the Maturing of Teenage Galaxies at z = 4 – 6 with a Comprehensive UV - Optical - Sub-...

Tue Feb 27 17:00:51 GMT 2024

<b>Observation</b>	<b>Proposal 3045, Observation 2</b> <b>Diagnostic Status: Warning</b> Observing Template: NIRSpec IFU Spectroscopy																																															
	(Observation 2) Warning (Form): Verification imaging with an ALLOPEN MSA configuration may cause persistence from bright sources in the field of view. (Observation 2) Warning (Form): WATA may be a better choice for more accurate placement in the IFU for point-like acquisition targets with positional uncertainty of 0.1 arcsec or less. (Visit 2:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.																																															
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Proposal 3045 - Observation 3 - Witnessing the Maturing of Teenage Galaxies at z = 4 – 6 with a Comprehensive UV - Optical - Sub-...

Tue Feb 27 17:00:51 GMT 2024

<b>Observation</b>	<b>Proposal 3045, Observation 3</b> <b>Diagnostic Status: Warning</b> Observing Template: NIRSpec IFU Spectroscopy																																															
	(Observation 3) Warning (Form): Verification imaging with an ALLOPEN MSA configuration may cause persistence from bright sources in the field of view. (Observation 3) Warning (Form): WATA may be a better choice for more accurate placement in the IFU for point-like acquisition targets with positional uncertainty of 0.1 arcsec or less. (Visit 3:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.																																															
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Proposal 3045 - Observation 4 - Witnessing the Maturing of Teenage Galaxies at z = 4 – 6 with a Comprehensive UV - Optical - Sub-...

Tue Feb 27 17:00:51 GMT 2024

<b>Observation</b>	<b>Proposal 3045, Observation 4</b> <b>Diagnostic Status: Warning</b> Observing Template: NIRSpec IFU Spectroscopy																																															
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Proposal 3045 - Observation 5 - Witnessing the Maturing of Teenage Galaxies at z = 4 – 6 with a Comprehensive UV - Optical - Sub-...

Tue Feb 27 17:00:51 GMT 2024

<b>Observation</b>	<b>Proposal 3045, Observation 5</b> <b>Diagnostic Status: Warning</b> Observing Template: NIRSpec IFU Spectroscopy																																															
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Proposal 3045 - Observation 6 - Witnessing the Maturing of Teenage Galaxies at z = 4 – 6 with a Comprehensive UV - Optical - Sub-...

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<b>Observation</b>	<b>Proposal 3045, Observation 6</b> <b>Diagnostic Status: Warning</b> Observing Template: NIRSpec IFU Spectroscopy																																															
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Proposal 3045 - Observation 7 - Witnessing the Maturing of Teenage Galaxies at z = 4 – 6 with a Comprehensive UV - Optical - Sub-...

Tue Feb 27 17:00:51 GMT 2024

<b>Observation</b>	<p><b>Proposal 3045, Observation 7</b></p> <p><b>Diagnostic Status: Warning</b></p> <p>Observing Template: NIRSpec IFU Spectroscopy</p>																																															
<b>Diagnostics</b>	<p>(Observation 7) Warning (Form): Verification imaging with an ALLOPEN MSA configuration may cause persistence from bright sources in the field of view.</p> <p>(Observation 7) Warning (Form): WATA may be a better choice for more accurate placement in the IFU for point-like acquisition targets with positional uncertainty of 0.1 arcsec or less.</p> <p>(Visit 7:1) Warning (Form): Data Excess over lower threshold</p> <p>(Visit 7:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.</p>																																															
<b>Fixed Targets</b>	<table border="1"> <thead> <tr> <th>#</th> <th>Name</th> <th>Target Coordinates</th> <th>Targ. Coord. Corrections</th> <th>Miscellaneous</th> </tr> </thead> <tbody> <tr> <td>(7)</td> <td>DC-742174</td> <td>RA: 10 00 39.1260 (150.1630250d) Dec: +02 25 32.16 (2.42560d) Equinox: J2000</td> <td></td> <td></td> </tr> </tbody> </table> <p><i>Comments:</i> Category=Galaxy Description=[High-redshift galaxies]</p>												#	Name	Target Coordinates	Targ. Coord. Corrections	Miscellaneous	(7)	DC-742174	RA: 10 00 39.1260 (150.1630250d) Dec: +02 25 32.16 (2.42560d) Equinox: J2000																												
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Proposal 3045 - Observation 8 - Witnessing the Maturing of Teenage Galaxies at z = 4 – 6 with a Comprehensive UV - Optical - Sub-...

Tue Feb 27 17:00:51 GMT 2024

<b>Observation</b>	<b>Proposal 3045, Observation 8</b> <b>Diagnostic Status: Warning</b> Observing Template: NIRSpec IFU Spectroscopy																																			
	(Observation 8) Warning (Form): Verification imaging with an ALLOPEN MSA configuration may cause persistence from bright sources in the field of view. (Observation 8) Warning (Form): WATA may be a better choice for more accurate placement in the IFU for point-like acquisition targets with positional uncertainty of 0.1 arcsec or less. (Visit 8:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.																																			
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<b>Fixed Targets</b>	<b>TA Method</b> VERIFY_ONLY																																			
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<b>Spectral Elements</b>																																				

Proposal 3045 - Observation 9 - Witnessing the Maturing of Teenage Galaxies at z = 4 – 6 with a Comprehensive UV - Optical - Sub-...

Tue Feb 27 17:00:51 GMT 2024

<b>Observation</b>	<b>Proposal 3045, Observation 9</b> <b>Diagnostic Status: Warning</b> Observing Template: NIRSpec IFU Spectroscopy											
	(Observation 9) Warning (Form): The slew between the acquisition exposure and the farthest science exposure is 50.360 Arcsec (larger than the recommended limit of 50.000 Arcsec) and may result in reduced or no schedulability. See more information in the diagnostic browser. (Visit 9:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.											
<b>Diagnosics</b>												
<b>Fixed Targets</b>	<b>#</b>	<b>Name</b>	<b>Target Coordinates</b>			<b>Targ. Coord. Corrections</b>			<b>Miscellaneous</b>			
	(9)	DC-848185	RA: 10 00 21.5112 (150.0896300d) Dec: +02 35 10.89 (2.58636d) Equinox: J2000									
<i>Comments:</i> Category=Galaxy Description=[High-redshift galaxies]												
<b>Acquisition</b>	<b>#</b>	<b>Target</b>	<b>TA Method</b>	<b>Subarray</b>	<b>Filter</b>	<b>Readout Pattern</b>	<b>Groups/Int</b>	<b>Integrations/Exp</b>	<b>Total Integrations</b>	<b>Total Exposure Time</b>	<b>ETC Wkbk.Calc ID</b>	
	1	19 DC-848185-WATA	WATA	SUB2048	F140X	NRSRAPID	3	1	1	3.628	146360	
<b>Dithers</b>	<b>#</b>	<b>Dither Type</b>		<b>Size</b>		<b>Starting Point</b>		<b>Number of Points</b>		<b>Points</b>		
	1	SPARSE-CYCLING		LARGE						30,33		
<b>Spectral Elements</b>	<b>#</b>	<b>Grating/Filter</b>	<b>Readout Pattern</b>	<b>Groups/Int</b>	<b>Integrations/Exp</b>	<b>Leakcal</b>	<b>Dither</b>	<b>Autocal</b>	<b>Total Dithers</b>	<b>Total Integrations</b>	<b>Total Exposure Time</b>	<b>ETC Wkbk.Calc ID</b>
	1	G235M/F170LP	NRSIRS2RAPI D	40	1	false	true	NONE	2	2	1196.289	146360
	2	G395M/F290LP	NRSIRS2RAPI D	56	3	false	true	NONE	2	6	4989.4	146360

Proposal 3045 - Observation 10 - Witnessing the Maturing of Teenage Galaxies at z = 4 – 6 with a Comprehensive UV - Optical - Sub...

Tue Feb 27 17:00:51 GMT 2024

<b>Observation</b>	<b>Proposal 3045, Observation 10</b> <b>Diagnostic Status: Warning</b> Observing Template: NIRSpec IFU Spectroscopy																																															
	(Observation 10) Warning (Form): Verification imaging with an ALLOPEN MSA configuration may cause persistence from bright sources in the field of view. (Observation 10) Warning (Form): WATA may be a better choice for more accurate placement in the IFU for point-like acquisition targets with positional uncertainty of 0.1 arcsec or less. (Visit 10:1) Warning (Form): Data Excess over lower threshold (Visit 10:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.																																															
<b>Diagnostics</b>																																																
<b>Fixed Targets</b>	<table border="1"> <thead> <tr> <th>#</th> <th>Name</th> <th>Target Coordinates</th> <th>Targ. Coord. Corrections</th> <th>Miscellaneous</th> </tr> </thead> <tbody> <tr> <td>(10)</td> <td>DC-873321</td> <td>RA: 10 00 4.0576 (150.0169067d) Dec: +02 37 35.82 (2.62662d) Equinox: J2000</td> <td></td> <td></td> </tr> </tbody> </table>												#	Name	Target Coordinates	Targ. Coord. Corrections	Miscellaneous	(10)	DC-873321	RA: 10 00 4.0576 (150.0169067d) Dec: +02 37 35.82 (2.62662d) Equinox: J2000																												
	#	Name	Target Coordinates	Targ. Coord. Corrections	Miscellaneous																																											
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Comments: Category=Galaxy Description=[High-redshift galaxies]																																																
<b>Template</b>	<b>TA Method</b> VERIFY_ONLY																																															
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Proposal 3045 - Observation 11 - Witnessing the Maturing of Teenage Galaxies at z = 4 – 6 with a Comprehensive UV - Optical - Sub...

Tue Feb 27 17:00:51 GMT 2024

<b>Observation</b>	<b>Proposal 3045, Observation 11</b> <b>Diagnostic Status: Warning</b> Observing Template: NIRSpec IFU Spectroscopy																																															
	(Observation 11) Warning (Form): Verification imaging with an ALLOPEN MSA configuration may cause persistence from bright sources in the field of view. (Observation 11) Warning (Form): WATA may be a better choice for more accurate placement in the IFU for point-like acquisition targets with positional uncertainty of 0.1 arcsec or less. (Visit 11:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.																																															
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2	G395M/F290LP	NRSIRS2RAPID	16	1	false	true	NONE	2	2	496.022	146360																																					
<b>Spectral Elements</b>																																																

Proposal 3045 - Observation 12 - Witnessing the Maturing of Teenage Galaxies at z = 4 – 6 with a Comprehensive UV - Optical - Sub...

Tue Feb 27 17:00:51 GMT 2024

<b>Observation</b>	<b>Proposal 3045, Observation 12</b> <b>Diagnostic Status: Warning</b> Observing Template: NIRSpec IFU Spectroscopy																																															
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Proposal 3045 - Observation 13 - Witnessing the Maturing of Teenage Galaxies at z = 4 – 6 with a Comprehensive UV - Optical - Sub...

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<b>Observation</b>	<b>Proposal 3045, Observation 13</b> <b>Diagnostic Status: Warning</b> Observing Template: NIRSpec IFU Spectroscopy																																															
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Proposal 3045 - Observation 14 - Witnessing the Maturing of Teenage Galaxies at z = 4 – 6 with a Comprehensive UV - Optical - Sub...

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<b>Observation</b>	<b>Proposal 3045, Observation 14</b> <b>Diagnostic Status: Warning</b> Observing Template: NIRSpec IFU Spectroscopy																																															
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Proposal 3045 - Observation 16 - Witnessing the Maturing of Teenage Galaxies at z = 4 – 6 with a Comprehensive UV - Optical - Sub...

Tue Feb 27 17:00:51 GMT 2024

<b>Observation</b>	<b>Proposal 3045, Observation 16</b> <b>Diagnostic Status: Warning</b> Observing Template: NIRSpec IFU Spectroscopy																																															
	(Observation 16) Warning (Form): Verification imaging with an ALLOPEN MSA configuration may cause persistence from bright sources in the field of view. (Observation 16) Warning (Form): WATA may be a better choice for more accurate placement in the IFU for point-like acquisition targets with positional uncertainty of 0.1 arcsec or less. (Visit 16:1) Warning (Form): Data Excess over lower threshold (Visit 16:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.																																															
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Comments: Category=Galaxy Description=[High-redshift galaxies]																																																
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Proposal 3045 - Observation 57 - Witnessing the Maturing of Teenage Galaxies at z = 4 – 6 with a Comprehensive UV - Optical - Sub...

Tue Feb 27 17:00:51 GMT 2024

<b>Observation</b>	<b>Proposal 3045, Observation 57</b> <b>Diagnostic Status: Warning</b> Observing Template: NIRSpec IFU Spectroscopy																																															
	(Observation 57) Warning (Form): Verification imaging with an ALLOPEN MSA configuration may cause persistence from bright sources in the field of view. (Observation 57) Warning (Form): WATA may be a better choice for more accurate placement in the IFU for point-like acquisition targets with positional uncertainty of 0.1 arcsec or less. (Visit 57:1) Warning (Form): Data Excess over lower threshold (Visit 57:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.																																															
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Proposal 3045 - Observation 18 - Witnessing the Maturing of Teenage Galaxies at z = 4 – 6 with a Comprehensive UV - Optical - Sub...

Tue Feb 27 17:00:51 GMT 2024

<b>Observation</b>	<b>Proposal 3045, Observation 18</b> <b>Diagnostic Status: Warning</b> Observing Template: NIRSpec IFU Spectroscopy																																															
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