



1626 - A Revolutionary Panchromatic View of Early Galaxy Growth via NIRSpec/IFU Observations of 12 Massive $z > 6.5$ Galaxies with ALMA-derived [CII] redshifts

Cycle: 1, Proposal Category: GO

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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) REBELS-05
	2		NIRSpec IFU Spectroscopy	(2) REBELS-08
	3		NIRSpec IFU Spectroscopy	(3) REBELS-12
	4		NIRSpec IFU Spectroscopy	(4) REBELS-14
	5		NIRSpec IFU Spectroscopy	(5) REBELS-15
	7		NIRSpec IFU Spectroscopy	(7) REBELS-25
	8		NIRSpec IFU Spectroscopy	(8) REBELS-29
	9		NIRSpec IFU Spectroscopy	(9) REBELS-32
	10		NIRSpec IFU Spectroscopy	(10) REBELS-34
	11		NIRSpec IFU Spectroscopy	(11) REBELS-38
	12		NIRSpec IFU Spectroscopy	(12) REBELS-39
	52		NIRSpec IFU Spectroscopy	(12) REBELS-39
	54		NIRSpec IFU Spectroscopy	(4) REBELS-14

ABSTRACT

One of the most significant longstanding questions is how rapidly the most massive galaxies build up in the early universe. Addressing this question directly has not been possible due to a lack of a sizeable sample of spectroscopically-confirmed, especially high-mass galaxies in the early Universe on which to execute physical studies. Excitingly enough, we are now on the brink of making significant progress thanks to identification of a large sample of massive galaxies in the $z > 6.5$ universe from ongoing ALMA large program observations. Galaxies have spectroscopic redshifts from [CII] and show prominent emission in the far-IR. We propose to obtain NIRSpec IFU R100 observations for 12 of the brightest [CII]-detected sources from this sample. Our IFU observations will provide us with a unique high spatial resolution view of both the stellar mass and unobscured star formation rates in these high-mass sources, as well as the metallicity and radiation fields. Thanks to the size of our sample, we will be able to evaluate the efficiency of star formation in galaxies at early times, determine the impact of merger-driven star formation on stellar mass growth in $z > 6$ galaxies, and explore correlations between a wide variety of different physical properties deriveable from the joint JWST+ALMA data set. The

significantly higher mass/SFRs of sources in our sample as compared to JADES and CEERS program will allow us to uniquely explore the properties of galaxies to very high masses. The resulting JWST+ALMA dataset will establish a reference sample of reionization epoch galaxies with unique panchromatic information for the JWST era and beyond.

OBSERVING DESCRIPTION

This program targets 12 exceptionally bright ($m_H \sim 24.5-25$) star-forming galaxies spectroscopically confirmed to lie at $z \sim 7$ based on the detection of [CII]158 μ m line with ALMA, which also provides dust continuum detection for 9 of them. The purpose of our proposed JWST NIRSpec/IFU R100 Prism observations is to obtain both integrated and spatially resolved constraints on the stellar mass, unobscured star formation rates, and radiation fields for significant sample of especially massive [CII]-detected galaxies at $z > 6.5$. Our proposed IFU data would allow us to characterize the extent to which star formation in high-redshift galaxies is especially efficient at early times, determine the impact of merger-driven star formation on stellar mass growth in $z > 6$ galaxies, and characterize the ionization fields. To execute our scientific goals efficiently, we propose to observe each source with an on-source integration time of 1730sec. Given we expect our sources could be composed by two or more clumps (~ 1 arcsec apart), we adopt a 4-point dither, providing sub-pixel sampling to improve the spatial resolution of our observations.

Proposal 1626 - Targets - A Revolutionary Panchromatic View of Early Galaxy Growth via NIRSPEC/IFU Observations of 12 Massive z...

#	Name	Target Coordinates	Targ. Coord. Corrections	Miscellaneous
(1)	REBELS-05	RA: 02 18 11.5100 (34.5479583d) Dec: -05 00 59.30 (-5.01647d) Equinox: J2000		
<i>Comments:</i> Category=Galaxy Description=[High-redshift galaxies, Lyman-break galaxies]				
(2)	REBELS-08	RA: 02 19 35.1300 (34.8963750d) Dec: -05 23 19.20 (-5.38867d) Equinox: J2000		
<i>Comments:</i> Category=Galaxy Description=[High-redshift galaxies, Lyman-break galaxies]				
(3)	REBELS-12	RA: 02 25 7.9400 (36.2830833d) Dec: -05 06 40.70 (-5.11131d) Equinox: J2000		
<i>Comments:</i> Category=Galaxy Description=[High-redshift galaxies, Lyman-break galaxies]				
(4)	REBELS-14	RA: 02 26 46.1900 (36.6924583d) Dec: -04 59 53.50 (-4.99819d) Equinox: J2000		
<i>Comments:</i> Category=Galaxy Description=[High-redshift galaxies, Lyman-break galaxies]				
(5)	REBELS-15	RA: 02 27 13.1100 (36.8046250d) Dec: -04 17 59.20 (-4.29978d) Equinox: J2000		
<i>Comments:</i> Category=Galaxy Description=[High-redshift galaxies, Lyman-break galaxies]				
(7)	REBELS-25	RA: 10 00 32.3200 (150.1346667d) Dec: +01 44 31.30 (1.74203d) Equinox: J2000		
<i>Comments:</i> Category=Galaxy Description=[High-redshift galaxies, Lyman-break galaxies]				
(8)	REBELS-29	RA: 10 01 36.8500 (150.4035417d) Dec: +02 37 49.10 (2.63031d) Equinox: J2000		
<i>Comments:</i> Category=Galaxy Description=[High-redshift galaxies, Lyman-break galaxies]				
(9)	REBELS-32	RA: 10 01 59.0700 (150.4961250d) Dec: +01 53 27.50 (1.89097d) Equinox: J2000		
<i>Comments:</i> Category=Galaxy Description=[High-redshift galaxies, Lyman-break galaxies]				

Fixed Targets

Proposal 1626 - Targets - A Revolutionary Panchromatic View of Early Galaxy Growth via NIRSpect/IFU Observations of 12 Massive z...

(10)	REBELS-34	RA: 10 02 6.4700 (150.5269583d) Dec: +02 13 24.20 (2.22339d) Equinox: J2000
<p><i>Comments:</i> <i>Category=Galaxy</i> <i>Description=[High-redshift galaxies, Lyman-break galaxies]</i></p>		
(11)	REBELS-38	RA: 10 02 54.0500 (150.7252083d) Dec: +02 42 12.00 (2.70333d) Equinox: J2000
<p><i>Comments:</i> <i>Category=Galaxy</i> <i>Description=[High-redshift galaxies, Lyman-break galaxies]</i></p>		
(12)	REBELS-39	RA: 10 03 5.2500 (150.7718750d) Dec: +02 18 42.70 (2.31186d) Equinox: J2000
<p><i>Comments:</i> <i>Category=Galaxy</i> <i>Description=[High-redshift galaxies, Lyman-break galaxies]</i></p>		

Proposal 1626 - Observation 1 - A Revolutionary Panchromatic View of Early Galaxy Growth via NIRSpec/IFU Observations of 12 Ma...

Wed Aug 23 15:00:36 GMT 2023

Observation	<p>Proposal 1626, Observation 1</p> <p>Diagnostic Status: Warning</p> <p>Observing Template: NIRSpec IFU Spectroscopy</p>											
Diagnostics	(Visit 1:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.											
Fixed Targets	#	Name	Target Coordinates			Targ. Coord. Corrections			Miscellaneous			
	(1)	REBELS-05	RA: 02 18 11.5100 (34.5479583d) Dec: -05 00 59.30 (-5.01647d) Equinox: J2000									
	<p><i>Comments:</i> <i>Category=Galaxy</i> <i>Description=[High-redshift galaxies, Lyman-break galaxies]</i></p>											
Template	TA Method											
	NONE											
Dithers	#	Dither Type		Size	Starting Point			Number of Points	Points			
	1	4-POINT-DITHER										
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	PRISM/CLEAR	NRSIRS2RAPID	29	1	false	true	NONE	4	4	1750.667	

Observation	Proposal 1626, Observation 2 Diagnostic Status: Warning Observing Template: NIRSpec IFU Spectroscopy											
	(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			
	(2)	REBELS-08	RA: 02 19 35.1300 (34.8963750d) Dec: -05 23 19.20 (-5.38867d) Equinox: J2000									
Comments: Category=Galaxy Description=[High-redshift galaxies, Lyman-break galaxies]												
Template	TA Method											
	NONE											
Dithers	#	Dither Type		Size	Starting Point			Number of Points	Points			
	1	4-POINT-DITHER										
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	PRISM/CLEAR	NRSIRS2RAPID	29	1	false	true	NONE	4	4	1750.667	

Proposal 1626 - Observation 3 - A Revolutionary Panchromatic View of Early Galaxy Growth via NIRSpec/IFU Observations of 12 Ma...

Wed Aug 23 15:00:36 GMT 2023

Observation	Proposal 1626, Observation 3 Diagnostic Status: Warning Observing Template: NIRSpec IFU Spectroscopy											
Diagnostics	(Visit 3:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.											
Fixed Targets	#	Name	Target Coordinates			Targ. Coord. Corrections			Miscellaneous			
	(3)	REBELS-12	RA: 02 25 7.9400 (36.2830833d) Dec: -05 06 40.70 (-5.11131d) Equinox: J2000									
	<i>Comments:</i> Category=Galaxy Description=[High-redshift galaxies, Lyman-break galaxies]											
Template	TA Method											
	NONE											
Dithers	#	Dither Type		Size	Starting Point			Number of Points	Points			
	1	4-POINT-DITHER										
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	PRISM/CLEAR	NRSIRS2RAPID	29	1	false	true	NONE	4	4	1750.667	

Observation	Proposal 1626, Observation 4 Diagnostic Status: Warning Observing Template: NIRSpec IFU Spectroscopy											
	(Visit 4:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.											
Diagnosics												
Fixed Targets	#	Name	Target Coordinates				Targ. Coord. Corrections			Miscellaneous		
	(4)	REBELS-14	RA: 02 26 46.1900 (36.6924583d) Dec: -04 59 53.50 (-4.99819d) Equinox: J2000									
<i>Comments:</i> Category=Galaxy Description=[High-redshift galaxies, Lyman-break galaxies]												
Template	TA Method											
	NONE											
Dithers	#	Dither Type		Size	Starting Point			Number of Points	Points			
	1	4-POINT-DITHER										
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	PRISM/CLEAR	NRSIRS2RAPID	29	1	false	true	NONE	4	4	1750.667	

Observation	Proposal 1626, Observation 5 Diagnostic Status: Warning Observing Template: NIRSpec IFU Spectroscopy											
	(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			
	(5)	REBELS-15	RA: 02 27 13.1100 (36.8046250d) Dec: -04 17 59.20 (-4.29978d) Equinox: J2000									
<i>Comments:</i> Category=Galaxy Description=[High-redshift galaxies, Lyman-break galaxies]												
Template	TA Method											
	NONE											
Dithers	#	Dither Type		Size	Starting Point			Number of Points	Points			
	1	4-POINT-DITHER										
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	PRISM/CLEAR	NRSIRS2RAPID	29	1	false	true	NONE	4	4	1750.667	

Proposal 1626 - Observation 7 - A Revolutionary Panchromatic View of Early Galaxy Growth via NIRSpec/IFU Observations of 12 Ma...

Wed Aug 23 15:00:36 GMT 2023

Observation	<p>Proposal 1626, Observation 7</p> <p>Diagnostic Status: Warning</p> <p>Observing Template: NIRSpec IFU Spectroscopy</p>											
Diagnostics	(Visit 7:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.											
Fixed Targets	#	Name	Target Coordinates			Targ. Coord. Corrections			Miscellaneous			
	(7)	REBELS-25	RA: 10 00 32.3200 (150.1346667d) Dec: +01 44 31.30 (1.74203d) Equinox: J2000									
	<p><i>Comments:</i> <i>Category=Galaxy</i> <i>Description=[High-redshift galaxies, Lyman-break galaxies]</i></p>											
Template	TA Method											
	NONE											
Dithers	#	Dither Type		Size	Starting Point			Number of Points	Points			
	1	4-POINT-DITHER										
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	PRISM/CLEAR	NRSIRS2RAPID	29	1	false	true	NONE	4	4	1750.667	

Observation	Proposal 1626, Observation 8 Diagnostic Status: Warning Observing Template: NIRSpec IFU Spectroscopy											
	(Visit 8:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.											
Diagnosics												
Fixed Targets	#	Name	Target Coordinates			Targ. Coord. Corrections			Miscellaneous			
	(8)	REBELS-29	RA: 10 01 36.8500 (150.4035417d) Dec: +02 37 49.10 (2.63031d) Equinox: J2000									
<i>Comments:</i> Category=Galaxy Description=[High-redshift galaxies, Lyman-break galaxies]												
Template	TA Method											
	NONE											
Dithers	#	Dither Type		Size	Starting Point			Number of Points	Points			
	1	4-POINT-DITHER										
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	PRISM/CLEAR	NRSIRS2RAPID	29	1	false	true	NONE	4	4	1750.667	

Observation	Proposal 1626, Observation 9 Diagnostic Status: Warning Observing Template: NIRSpec IFU Spectroscopy											
	(Visit 9:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.											
Diagnosics												
Fixed Targets	#	Name	Target Coordinates			Targ. Coord. Corrections			Miscellaneous			
	(9)	REBELS-32	RA: 10 01 59.0700 (150.4961250d) Dec: +01 53 27.50 (1.89097d) Equinox: J2000									
<i>Comments:</i> Category=Galaxy Description=[High-redshift galaxies, Lyman-break galaxies]												
Template	TA Method											
	NONE											
Dithers	#	Dither Type		Size	Starting Point			Number of Points	Points			
	1	4-POINT-DITHER										
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	PRISM/CLEAR	NRSIRS2RAPID	31	1	false	true	NONE	4	4	1867.378	

Proposal 1626 - Observation 10 - A Revolutionary Panchromatic View of Early Galaxy Growth via NIRSpec/IFU Observations of 12 M...

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Observation	Proposal 1626, Observation 10 Diagnostic Status: Warning Observing Template: NIRSpec IFU Spectroscopy											
	(Visit 10:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.											
Diagnosics												
Fixed Targets	#	Name	Target Coordinates				Targ. Coord. Corrections			Miscellaneous		
	(10)	REBELS-34	RA: 10 02 6.4700 (150.5269583d) Dec: +02 13 24.20 (2.22339d) Equinox: J2000									
<i>Comments:</i> Category=Galaxy Description=[High-redshift galaxies, Lyman-break galaxies]												
Template	TA Method											
	NONE											
Dithers	#	Dither Type		Size	Starting Point			Number of Points	Points			
	1	4-POINT-DITHER										
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	PRISM/CLEAR	NRSIRS2RAPID	29	1	false	true	NONE	4	4	1750.667	

Proposal 1626 - Observation 11 - A Revolutionary Panchromatic View of Early Galaxy Growth via NIRSpec/IFU Observations of 12 M...

Wed Aug 23 15:00:36 GMT 2023

Observation	<p>Proposal 1626, Observation 11</p> <p>Diagnostic Status: Warning</p> <p>Observing Template: NIRSpec IFU Spectroscopy</p>											
Diagnostics	(Visit 11:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.											
Fixed Targets	#	Name	Target Coordinates			Targ. Coord. Corrections			Miscellaneous			
	(11)	REBELS-38	RA: 10 02 54.0500 (150.7252083d) Dec: +02 42 12.00 (2.70333d) Equinox: J2000									
	<p><i>Comments:</i> <i>Category=Galaxy</i> <i>Description=[High-redshift galaxies, Lyman-break galaxies]</i></p>											
Template	TA Method											
	NONE											
Dithers	#	Dither Type		Size	Starting Point			Number of Points	Points			
	1	4-POINT-DITHER										
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	PRISM/CLEAR	NRSIRS2RAPID	29	1	false	true	NONE	4	4	1750.667	

Proposal 1626 - Observation 12 - A Revolutionary Panchromatic View of Early Galaxy Growth via NIRSpec/IFU Observations of 12 M...

Wed Aug 23 15:00:36 GMT 2023

Observation	<p>Proposal 1626, Observation 12</p> <p>Diagnostic Status: Warning</p> <p>Observing Template: NIRSpec IFU Spectroscopy</p>											
Diagnostics	(Visit 12:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.											
Fixed Targets	#	Name	Target Coordinates			Targ. Coord. Corrections			Miscellaneous			
	(12)	REBELS-39	RA: 10 03 5.2500 (150.7718750d) Dec: +02 18 42.70 (2.31186d) Equinox: J2000									
	<p><i>Comments:</i> <i>Category=Galaxy</i> <i>Description=[High-redshift galaxies, Lyman-break galaxies]</i></p>											
Template	TA Method											
	NONE											
Dithers	#	Dither Type		Size	Starting Point			Number of Points	Points			
	1	4-POINT-DITHER										
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	PRISM/CLEAR	NRSIRS2RAPID	29	1	false	true	NONE	4	4	1750.667	

Proposal 1626 - Observation 52 - A Revolutionary Panchromatic View of Early Galaxy Growth via NIRSpec/IFU Observations of 12 M...

Wed Aug 23 15:00:36 GMT 2023

Observation	Proposal 1626, Observation 52 Diagnostic Status: Warning Observing Template: NIRSpec IFU Spectroscopy <i>Comments: This is a repeat of skipped observation 12.</i>											
	(Visit 52:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.											
Diagnostics												
Fixed Targets	#	Name	Target Coordinates			Targ. Coord. Corrections			Miscellaneous			
	(12)	REBELS-39	RA: 10 03 5.2500 (150.7718750d) Dec: +02 18 42.70 (2.31186d) Equinox: J2000									
<i>Comments: Category=Galaxy Description=[High-redshift galaxies, Lyman-break galaxies]</i>												
Template	TA Method											
	NONE											
Dithers	#	Dither Type		Size	Starting Point			Number of Points	Points			
	1	4-POINT-DITHER										
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	PRISM/CLEAR	NRSIRS2RAPID	29	1	false	true	NONE	4	4	1750.667	

Proposal 1626 - Observation 54 - A Revolutionary Panchromatic View of Early Galaxy Growth via NIRSpec/IFU Observations of 12 M...

Wed Aug 23 15:00:36 GMT 2023

Observation	Proposal 1626, Observation 54 Diagnostic Status: Warning Observing Template: NIRSpec IFU Spectroscopy Comments: Repeat of skipped observation 4											
	(Visit 54:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.											
Diagnostics												
Fixed Targets	#	Name	Target Coordinates				Targ. Coord. Corrections			Miscellaneous		
	(4)	REBELS-14	RA: 02 26 46.1900 (36.6924583d) Dec: -04 59 53.50 (-4.99819d) Equinox: J2000									
Comments: Category=Galaxy Description=[High-redshift galaxies, Lyman-break galaxies]												
Template	TA Method											
	NONE											
Dithers	#	Dither Type		Size	Starting Point			Number of Points	Points			
	1	4-POINT-DITHER										
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	PRISM/CLEAR	NRSIRS2RAPID	29	1	false	true	NONE	4	4	1750.667	