



1840 - ALMA [OIII]88um Emitters. Signpost of Early Stellar Buildup and Reionization in the Universe

Cycle: 1, Proposal Category: GO

INVESTIGATORS

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OBSERVATIONS

<i>Folder</i>	<i>Observation</i>	<i>Label</i>	<i>Observing Template</i>	<i>Science Target</i>
J1211-0118				
	2	NIRCam	NIRCam Imaging	(1) J1211-0118
J0235-0532				

JWST Proposal 1840 (Created: Thursday, February 2, 2023 at 2:00:32 PM Eastern Standard Time) - Overview

<i>Folder</i>	<i>Observation</i>	<i>Label</i>	<i>Observing Template</i>	<i>Science Target</i>
	3	NIRSPec IFU	NIRSpec IFU Spectroscopy	(2) J0235-0532
	4	NIRCam	NIRCam Imaging	(2) J0235-0532
J0217-0208				
	5	NIRSPec IFU	NIRSpec IFU Spectroscopy	(4) J0217-0208
	6	NIRCam	NIRCam Imaging	(4) J0217-0208
J0217-0208-repeat				
	43	NIRCam	NIRCam Imaging	(4) J0217-0208
SDF-LBG-ID34				
	7	NIRSPec IFU	NIRSpec IFU Spectroscopy	(5) SDF-LBG-ID34
	8	NIRCam	NIRCam Imaging	(5) SDF-LBG-ID34
RXC-J2248-ID3				
	9	NIRSPec IFU	NIRSpec IFU Spectroscopy	(3) RXC-J2248-ID3
	10	NIRCam	NIRCam Imaging	(3) RXC-J2248-ID3
COS-2987030247				
	11	NIRSPec IFU	NIRSpec IFU Spectroscopy	(6) COS-2987030247
	12	NIRCam	NIRCam Imaging	(6) COS-2987030247
COS-3018555981				
	13	NIRCam	NIRCam Imaging	(7) COS-3018555981
SXDF				
	14	NIRSPec	NIRSpec IFU Spectroscopy	(11) SXDF-NB1006-2
	15	NIRCam	NIRCam Imaging	(11) SXDF-NB1006-2
B14-65666				
	16	NIRCam	NIRCam Imaging	(10) B14-65666
BDF-3299				
	31	NIRSPec	NIRSpec IFU Spectroscopy	(8) BDF-3299
	40	NIRCam	NIRCam Imaging	(8) BDF-3299
A2744-YD4				
	17	NIRSPec	NIRSpec IFU Spectroscopy	(12) A2744-YD4
A1689-zD1				
	18	NIRSPec	NIRSpec IFU Spectroscopy	(9) A1689-ZD1
	19	NIRCam	NIRCam Imaging	(9) A1689-ZD1
BDF-3299-repeat				

<i>Folder</i>	<i>Observation</i>	<i>Label</i>	<i>Observing Template</i>	<i>Science Target</i>
	41	NIRCam	NIRCam Imaging	(8) BDF-3299

ABSTRACT

Despite large efforts, the nature of the sources that reionize the universe is still unknown. Imaging surveys have concluded that galaxies are detected as increasingly strong [OIII]-line emitters at high redshifts. Recent studies argue that extreme [OIII] emitters ($EW[\text{OIII}]5007\text{\AA} > 1000\text{\AA}$) at redshifts above 6 should be common, and be responsible for the reionization of the universe. However, their physical properties, especially Lyman continuum emissivity, are not firmly established yet. We here propose a set of NIRCam imaging and NIRSpec integral-field spectroscopy for a complete sample of LAEs/LBGs at redshifts above 6 identified as [OIII]88um emitters with ALMA. These data will establish i) the age and mass of the stellar population, ii) the structure of the stellar population and ionized gas nebula, iii) the physical conditions, kinematics and ionization status of the ISM, and iv) the LyC escape fraction. The combinations of JWST's deep and high-angular resolution multi-wavelength imaging and spectroscopy, in conjunction with ancillary ALMA data, will provide key information on the early stellar mass and galaxy assembly in the EoR, and the relevance of [OIII]88um emitters in the reionization of the universe.

OBSERVING DESCRIPTION

The goal of this proposal is to observe with NIRCam imaging and NIRSpec integral-field spectroscopy (IFS) a complete sample of [OIII]88um emitters detected with ALMA at redshift above 6. The number of sources are twelve, and the sample has been selected from all ALMA literatures and in conjunction with unpublished objects from the ALMA archive.

The observational program is divided in two main observations:

1) NIRCam imaging uses a set of six filters to observe the rest-frame UV-to-optical emission of each [OIII]88um emitter. Three NIRCam imaging observations are proposed per source. The short wavelength channel uses filters F115W, F150W, and F200W for all sources covering the rest-frame UV emission. The selection of filters in the long wavelength (LW) channel depends on the redshift of each source. Sources with redshifts, $6.03 < z < 6.31$, use filters F250M, F300M, and F444W. Sources with redshifts $z \sim 6.8$ use filters F250M, F335M, and F444W. Sources with redshift $z \sim 7.15$ use F277W, F356W, and F444W. LW channel filters have been specially selected to sample the Balmer break and the optical continuum plus bright line (H β + [OIII] and/or H α) emission. NIRCam observations use SUBARRAY SUB400P of module B, and standard subpixel dither pattern with 4 positions. The readout modes SHALLOW4, MEDIUM8, and DEEP8 are selected depending on the final exposure time of each observation. Source A2744-YD4 is not included in the NIRCam observations because it is covered by GTO programs.

JWST Proposal 1840 (Created: Thursday, February 2, 2023 at 2:00:32 PM Eastern Standard Time) - Overview

2) NIRSpec IFS uses filter F290LP and gratings G395H or G395M to cover the main optical emission lines such as [OII]3727, H β , [OIII]4959/5007, H α , [NII]6548/6584, and [SII]6717/6731 that are redshifted into the wavelength range, 2.87-5.27 μ m. In sources with redshifts \sim 7.15, the grating configuration G395M is requested instead of G395H because the H β + [OIII]4959,5007 lines fall in the gap between the detectors for G395H. A medium size cycling dither pattern with four positions is used in each observation, together with a NRSIRS2RAPID readout mode. The Leakcal is not requested in this observations (see special requirements), but a position angles have been defined in some sources to minimize the number of bright sources on the NIRSpec SMA. COS-3018555981 and B14-65666 sources are not included in the NIRSpec observations because they are covered by GTO programs.

Proposal 1840 - Targets - ALMA [OIII]88um Emitters. Signpost of Early Stellar Buildup and Reionization in the Universe

#	Name	Target Coordinates	Targ. Coord. Corrections	Miscellaneous
(1)	J1211-0118	RA: 12 11 37.1120 (182.9046333d) Dec: -01 18 16.50 (-1.30458d) Equinox: J2000		
<p><i>Comments:</i> <i>Category=Galaxy</i> <i>Description=[Lyman-alpha galaxies, Lyman-break galaxies]</i></p>				
(2)	J0235-0532	RA: 02 35 42.4120 (38.9267167d) Dec: -05 32 41.62 (-5.54489d) Equinox: J2000		
<p><i>Comments:</i> <i>Category=Galaxy</i> <i>Description=[High-redshift galaxies, Lyman-alpha galaxies]</i> <i>Extended=NO</i></p>				
(3)	RXC-J2248-ID3	RA: 22 48 45.8000 (342.1908333d) Dec: -44 32 14.92 (-44.53748d) Equinox: J2000		
<p><i>Comments:</i> <i>Category=Galaxy</i> <i>Description=[High-redshift galaxies, Lyman-alpha galaxies]</i> <i>Extended=NO</i></p>				
(4)	J0217-0208	RA: 02 17 21.6030 (34.3400125d) Dec: -02 08 52.78 (-2.14799d) Equinox: J2000		
<p><i>Comments:</i> <i>Category=Galaxy</i> <i>Description=[High-redshift galaxies, Lyman-alpha galaxies]</i> <i>Extended=NO</i></p>				
(5)	SDF-LBG-ID34	RA: 13 23 45.7570 (200.9406542d) Dec: +27 32 51.30 (27.54758d) Equinox: J2000		
<p><i>Comments:</i> <i>Category=Galaxy</i> <i>Description=[High-redshift galaxies, Lyman-alpha galaxies]</i> <i>Extended=NO</i></p>				
(6)	COS-2987030247	RA: 10 00 29.8700 (150.1244583d) Dec: +02 13 2.47 (2.21735d) Equinox: J2000		
<p><i>Comments:</i> <i>Category=Galaxy</i> <i>Description=[High-redshift galaxies, Lyman-alpha galaxies]</i> <i>Extended=NO</i></p>				
(7)	COS-3018555981	RA: 10 00 30.1850 (150.1257708d) Dec: +02 15 59.81 (2.26661d) Equinox: J2000		
<p><i>Comments:</i> <i>Category=Galaxy</i> <i>Description=[High-redshift galaxies, Lyman-alpha galaxies]</i> <i>Extended=NO</i></p>				

Fixed Targets

Proposal 1840 - Targets - ALMA [OIII]88um Emitters. Signpost of Early Stellar Buildup and Reionization in the Universe

(8)	BDF-3299	RA: 22 28 12.3250 (337.0513542d) Dec: -35 10 0.64 (-35.16684d) Equinox: J2000
<p><i>Comments:</i> <i>Category=Galaxy</i> <i>Description=[High-redshift galaxies, Lyman-alpha galaxies]</i> <i>Extended=NO</i></p>		
(9)	A1689-ZD1	RA: 13 11 29.9600 (197.8748333d) Dec: -01 19 18.70 (-1.32186d) Equinox: J2000
<p><i>Comments:</i> <i>Category=Galaxy</i> <i>Description=[High-redshift galaxies]</i></p>		
(10)	B14-65666	RA: 10 01 40.6900 (150.4195417d) Dec: +01 54 52.42 (1.91456d) Equinox: J2000
<p><i>Comments:</i> <i>Category=Galaxy</i> <i>Description=[Lyman-alpha galaxies, Lyman-break galaxies]</i></p>		
(11)	SXDF-NB1006-2	RA: 02 18 56.5360 (34.7355667d) Dec: -05 19 58.87 (-5.33302d) Equinox: J2000
<p><i>Comments:</i> <i>Category=Galaxy</i> <i>Description=[High-redshift galaxies, Lyman-alpha galaxies]</i> <i>Extended=NO</i></p>		
(12)	A2744-YD4	RA: 00 14 24.9274 (3.6038642d) Dec: -30 22 56.15 (-30.38226d) Equinox: J2000
<p><i>Comments:</i> <i>Category=Galaxy</i> <i>Description=[High-redshift galaxies, Lyman-alpha galaxies]</i> <i>Extended=NO</i></p>		

Proposal 1840 - Observation 2 - ALMA [OIII]88um Emitters. Signpost of Early Stellar Buildup and Reionization in the Universe

Thu Feb 02 19:00:32 GMT 2023

Observation	<p>Proposal 1840, Observation 2: NIRCam Diagnostic Status: Warning Observing Template: NIRCam Imaging</p>									
Diagnostics	(Visit 2:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.									
Fixed Targets	#	Name	Target Coordinates		Targ. Coord. Corrections			Miscellaneous		
	(1)	J1211-0118	RA: 12 11 37.1120 (182.9046333d) Dec: -01 18 16.50 (-1.30458d) Equinox: J2000							
	<p><i>Comments:</i> Category=Galaxy Description=[Lyman-alpha galaxies, Lyman-break galaxies]</p>									
Template	Module					Subarray				
	B					FULL				
Dithers	#	Primary Dither Type		Primary Dithers	Subpixel Dither Type		Dither Size	Subpixel Positions		
	1	INTRAMODULEBOX		4	STANDARD			1		
Spectral Elements	#	Short Filter	Long Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Dithers	Total Exposure Time	ETC Wkbk.Calc ID
	1	F115W	F250M	BRIGHT1	8	1	4	4	644.206	
	2	F150W	F444W	RAPID	8	1	4	4	343.577	
	3	F200W	F300M	BRIGHT1	7	1	4	4	558.312	
Special Requirements	Offset 35.0 arcsec, -25.0 arcsec Background Limited. Background no more than 40th percentile above minimum									

Proposal 1840 - Observation 3 - ALMA [OIII]88um Emitters. Signpost of Early Stellar Buildup and Reionization in the Universe

Thu Feb 02 19:00:32 GMT 2023

Observation	Proposal 1840, Observation 3: NIRSpec IFU Diagnostic Status: Warning Observing Template: NIRSpec IFU Spectroscopy											
	(Visit 3:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.											
Fixed Targets	#	Name	Target Coordinates			Targ. Coord. Corrections			Miscellaneous			
	(2)	J0235-0532	RA: 02 35 42.4120 (38.9267167d) Dec: -05 32 41.62 (-5.54489d) Equinox: J2000									
Comments: Category=Galaxy Description=[High-redshift galaxies, Lyman-alpha galaxies] Extended=NO												
Template	TA Method											
	NONE											
Dithers	#	Dither Type		Size	Starting Point		Number of Points		Points			
	1	CYCLING		MEDIUM	1		4					
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	NRSIRS2RAPID	24	1	false	true	NONE	4	4	1458.889	

Proposal 1840 - Observation 4 - ALMA [OIII]88um Emitters. Signpost of Early Stellar Buildup and Reionization in the Universe

Thu Feb 02 19:00:32 GMT 2023

Observation	<p>Proposal 1840, Observation 4: NIRCam Diagnostic Status: Warning Observing Template: NIRCam Imaging</p>									
Diagnostics	(Visit 4:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.									
Fixed Targets	#	Name	Target Coordinates			Targ. Coord. Corrections			Miscellaneous	
	(2)	J0235-0532	RA: 02 35 42.4120 (38.9267167d) Dec: -05 32 41.62 (-5.54489d) Equinox: J2000							
	<p><i>Comments:</i> Category=Galaxy Description=[High-redshift galaxies, Lyman-alpha galaxies] Extended=NO</p>									
Template	Module					Subarray				
	B					FULL				
Dithers	#	Primary Dither Type		Primary Dithers	Subpixel Dither Type		Dither Size	Subpixel Positions		
	1	INTRAMODULEBOX		4	STANDARD			1		
Spectral Elements	#	Short Filter	Long Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Dithers	Total Exposure Time	ETC Wkbk.Calc ID
	1	F115W	F250M	BRIGHT1	8	1	4	4	644.206	
	2	F150W	F444W	RAPID	8	1	4	4	343.577	
	3	F200W	F300M	BRIGHT1	7	1	4	4	558.312	
Special Requirements	Offset -25.0 arcsec, 35.0 arcsec Background Limited. Background no more than 40th percentile above minimum									

Proposal 1840 - Observation 5 - ALMA [OIII]88um Emitters. Signpost of Early Stellar Buildup and Reionization in the Universe

Thu Feb 02 19:00:32 GMT 2023

Observation	Proposal 1840, Observation 5: NIRSpec IFU Diagnostic Status: Warning Observing Template: NIRSpec IFU Spectroscopy											
	(Visit 5:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.											
Fixed Targets	#	Name	Target Coordinates			Targ. Coord. Corrections			Miscellaneous			
	(4)	J0217-0208	RA: 02 17 21.6030 (34.3400125d) Dec: -02 08 52.78 (-2.14799d) Equinox: J2000									
Comments: Category=Galaxy Description=[High-redshift galaxies, Lyman-alpha galaxies] Extended=NO												
Template	TA Method											
	NONE											
Dithers	#	Dither Type		Size	Starting Point		Number of Points		Points			
	1	CYCLING		MEDIUM	1		4					
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	NRSIRS2RAPID	14	1	false	true	NONE	4	4	875.333	

Proposal 1840 - Observation 6 - ALMA [OIII]88um Emitters. Signpost of Early Stellar Buildup and Reionization in the Universe

Thu Feb 02 19:00:32 GMT 2023

Observation	<p>Proposal 1840, Observation 6: NIRCam</p> <p>Diagnostic Status: Warning</p> <p>Observing Template: NIRCam Imaging</p> <p><i>Comments: We have requested a V3 angle (from 0 to 180 degrees) to exclude a bright star from the NIRCam FoV.</i></p>									
Diagnostics	(Visit 6:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.									
Fixed Targets	#	Name	Target Coordinates		Targ. Coord. Corrections			Miscellaneous		
	(4)	J0217-0208	RA: 02 17 21.6030 (34.3400125d) Dec: -02 08 52.78 (-2.14799d) Equinox: J2000							
	<p><i>Comments:</i> <i>Category=Galaxy</i> <i>Description=[High-redshift galaxies, Lyman-alpha galaxies]</i> <i>Extended=NO</i></p>									
Template	Module				Subarray					
	B				FULL					
Dithers	#	Primary Dither Type		Primary Dithers	Subpixel Dither Type		Dither Size	Subpixel Positions		
	1	INTRAMODULEBOX		4	STANDARD			1		
Spectral Elements	#	Short Filter	Long Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Dithers	Total Exposure Time	ETC Wkbk.Calc ID
	1	F115W	F250M	RAPID	8	1	4	4	343.577	
	2	F150W	F300M	RAPID	8	1	4	4	343.577	
	3	F200W	F444W	RAPID	8	1	4	4	343.577	
Special Requirements	<p>Aperture PA Range 0.02984889 to 180.02984889 Degrees (V3 359.9740136 to 179.9740136)</p> <p>Offset 35.0 arcsec, -25.0 arcsec</p> <p>Background Limited. Background no more than 40th percentile above minimum</p>									

Proposal 1840 - Observation 43 - ALMA [OIII]88um Emitters. Signpost of Early Stellar Buildup and Reionization in the Universe

Thu Feb 02 19:00:32 GMT 2023

Observation	<p>Proposal 1840, Observation 43: NIRCam Diagnostic Status: Warning Observing Template: NIRCam Imaging</p>									
Diagnostics	(Visit 43:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.									
Fixed Targets	#	Name	Target Coordinates		Targ. Coord. Corrections			Miscellaneous		
	(4)	J0217-0208	RA: 02 17 21.6030 (34.3400125d) Dec: -02 08 52.78 (-2.14799d) Equinox: J2000							
	<p><i>Comments:</i> Category=Galaxy Description=[High-redshift galaxies, Lyman-alpha galaxies] Extended=NO</p>									
Template	Module				Subarray					
	B				FULL					
Dithers	#	Primary Dither Type		Primary Dithers	Subpixel Dither Type		Dither Size	Subpixel Positions		
	1	INTRAMODULEBOX		4	STANDARD			1		
Spectral Elements	#	Short Filter	Long Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Dithers	Total Exposure Time	ETC Wkbk.Calc ID
	1	F115W	F250M	RAPID	8	1	4	4	343.577	
	2	F150W	F300M	RAPID	8	1	4	4	343.577	
	3	F200W	F444W	RAPID	8	1	4	4	343.577	
Special Requirements	<p>Offset 35.0 arcsec, -25.0 arcsec Background Limited. Background no more than 40th percentile above minimum</p>									

Proposal 1840 - Observation 7 - ALMA [OIII]88um Emitters. Signpost of Early Stellar Buildup and Reionization in the Universe

Thu Feb 02 19:00:32 GMT 2023

Observation	<p>Proposal 1840, Observation 7: NIRSpec IFU</p> <p>Diagnostic Status: Warning</p> <p>Observing Template: NIRSpec IFU Spectroscopy</p>											
	<p>(Visit 7:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.</p>											
Diagnosics												
Fixed Targets	#	Name	Target Coordinates			Targ. Coord. Corrections			Miscellaneous			
	(5)	SDF-LBG-ID34	RA: 13 23 45.7570 (200.9406542d) Dec: +27 32 51.30 (27.54758d) Equinox: J2000									
<p><i>Comments:</i> <i>Category=Galaxy</i> <i>Description=[High-redshift galaxies, Lyman-alpha galaxies]</i> <i>Extended=NO</i></p>												
Template	TA Method											
	NONE											
Dithers	#	Dither Type		Size	Starting Point		Number of Points	Points				
	1	CYCLING		MEDIUM	1		4					
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	NRSIRS2RAPID	50	1	false	true	NONE	4	4	2976.134	

Proposal 1840 - Observation 8 - ALMA [OIII]88um Emitters. Signpost of Early Stellar Buildup and Reionization in the Universe

Thu Feb 02 19:00:32 GMT 2023

Observation	<p>Proposal 1840, Observation 8: NIRCam Diagnostic Status: Warning Observing Template: NIRCam Imaging</p>									
Diagnostics	(Visit 8:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.									
Fixed Targets	#	Name	Target Coordinates			Targ. Coord. Corrections		Miscellaneous		
	(5)	SDF-LBG-ID34	RA: 13 23 45.7570 (200.9406542d) Dec: +27 32 51.30 (27.54758d) Equinox: J2000							
	<p><i>Comments:</i> Category=Galaxy Description=[High-redshift galaxies, Lyman-alpha galaxies] Extended=NO</p>									
Template	Module					Subarray				
	B					FULL				
Dithers	#	Primary Dither Type		Primary Dithers	Subpixel Dither Type		Dither Size	Subpixel Positions		
	1	INTRAMODULEBOX		4	STANDARD			1		
Spectral Elements	#	Short Filter	Long Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Dithers	Total Exposure Time	ETC Wkbk.Calc ID
	1	F115W	F250M	BRIGHT1	10	1	4	4	815.995	
	2	F150W	F444W	BRIGHT1	8	1	4	4	644.206	
	3	F200W	F300M	BRIGHT1	10	1	4	4	815.995	
Special Requirements	Offset -25.0 arcsec, 35.0 arcsec Background Limited. Background no more than 40th percentile above minimum									

Proposal 1840 - Observation 9 - ALMA [OIII]88um Emitters. Signpost of Early Stellar Buildup and Reionization in the Universe

Thu Feb 02 19:00:32 GMT 2023

Observation	<p>Proposal 1840, Observation 9: NIRSpec IFU</p> <p>Diagnostic Status: Warning</p> <p>Observing Template: NIRSpec IFU Spectroscopy</p> <p><i>Comments: We have requested a V3 angle (from 15 to 295 degrees) to exclude a bright star from the SMA area during the IFU observations.</i></p>											
Diagnostics	(Visit 9:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.											
Fixed Targets	#	Name	Target Coordinates			Targ. Coord. Corrections			Miscellaneous			
	(3)	RXC-J2248-ID3	RA: 22 48 45.8000 (342.1908333d) Dec: -44 32 14.92 (-44.53748d) Equinox: J2000									
	<p><i>Comments:</i> <i>Category=Galaxy</i> <i>Description=[High-redshift galaxies, Lyman-alpha galaxies]</i> <i>Extended=NO</i></p>											
Template	TA Method											
	NONE											
Dithers	#	Dither Type		Size	Starting Point			Number of Points	Points			
	1	CYCLING		MEDIUM	1			4				
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	NRSIRS2RAPID	90	1	false	true	NONE	4	4	5310.356	
Special Requirements	Aperture PA Range 153.892975 to 73.892975 Degrees (V3 14.92044082 to 294.92044082)											

Proposal 1840 - Observation 10 - ALMA [OIII]88um Emitters. Signpost of Early Stellar Buildup and Reionization in the Universe

Thu Feb 02 19:00:32 GMT 2023

Observation	<p>Proposal 1840, Observation 10: NIRCam</p> <p>Diagnostic Status: Warning</p> <p>Observing Template: NIRCam Imaging</p> <p><i>Comments: The PA and offset have been selected to obser the galaxy cluster to increase the value of the ancillary science and archival data</i></p>									
Diagnostics	(Visit 10:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.									
Fixed Targets	#	Name	Target Coordinates			Targ. Coord. Corrections		Miscellaneous		
	(3)	RXC-J2248-ID3	RA: 22 48 45.8000 (342.1908333d) Dec: -44 32 14.92 (-44.53748d) Equinox: J2000							
	<p><i>Comments:</i> <i>Category=Galaxy</i> <i>Description=[High-redshift galaxies, Lyman-alpha galaxies]</i> <i>Extended=NO</i></p>									
Template	Module					Subarray				
	B					FULL				
Dithers	#	Primary Dither Type		Primary Dithers	Subpixel Dither Type		Dither Size	Subpixel Positions		
	1	INTRAMODULEBOX		4	STANDARD			1		
Spectral Elements	#	Short Filter	Long Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Dithers	Total Exposure Time	ETC Wkbk.Calc ID
	1	F115W	F250M	SHALLOW4	6	1	4	4	1245.465	
	2	F150W	F300M	SHALLOW4	5	1	4	4	1030.73	
	3	F200W	F444W	SHALLOW4	6	1	4	4	1245.465	
Special Requirements	<p>Aperture PA Range 0 to 100 Degrees (V3 359.94416471 to 99.94416471)</p> <p>Offset -20.0 arcsec, -10.0 arcsec</p> <p>Background Limited. Background no more than 40th percentile above minimum</p>									

Proposal 1840 - Observation 11 - ALMA [OIII]88um Emitters. Signpost of Early Stellar Buildup and Reionization in the Universe

Thu Feb 02 19:00:32 GMT 2023

Observation	<p>Proposal 1840, Observation 11: NIRSpec IFU</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			
	(6)	COS-2987030247	RA: 10 00 29.8700 (150.1244583d) Dec: +02 13 2.47 (2.21735d) Equinox: J2000									
	<p><i>Comments:</i> <i>Category=Galaxy</i> <i>Description=[High-redshift galaxies, Lyman-alpha galaxies]</i> <i>Extended=NO</i></p>											
Template	TA Method											
	NONE											
Dithers	#	Dither Type		Size	Starting Point		Number of Points	Points				
	1	CYCLING		MEDIUM	1		4					
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	NRSIRS2RAPID	45	1	false	true	NONE	4	4	2684.356	

Proposal 1840 - Observation 12 - ALMA [OIII]88um Emitters. Signpost of Early Stellar Buildup and Reionization in the Universe

Thu Feb 02 19:00:32 GMT 2023

Observation	<p>Proposal 1840, Observation 12: NIRCam Diagnostic Status: Warning Observing Template: NIRCam Imaging</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		
	(6)	COS-2987030247	RA: 10 00 29.8700 (150.1244583d) Dec: +02 13 2.47 (2.21735d) Equinox: J2000							
	<p><i>Comments:</i> Category=Galaxy Description=[High-redshift galaxies, Lyman-alpha galaxies] Extended=NO</p>									
Template	Module				Subarray					
	B				FULL					
Dithers	#	Primary Dither Type		Primary Dithers	Subpixel Dither Type		Dither Size	Subpixel Positions		
	1	INTRAMODULEBOX		4	STANDARD			1		
Spectral Elements	#	Short Filter	Long Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Dithers	Total Exposure Time	ETC Wkbk.Calc ID
	1	F115W	F250M	BRIGHT1	10	1	4	4	815.995	
	2	F150W	F444W	BRIGHT1	7	1	4	4	558.312	
	3	F200W	F335M	BRIGHT1	9	1	4	4	730.1	
Special Requirements	Offset -25.0 arcsec, 35.0 arcsec Background Limited. Background no more than 40th percentile above minimum									

Proposal 1840 - Observation 13 - ALMA [OIII]88um Emitters. Signpost of Early Stellar Buildup and Reionization in the Universe

Thu Feb 02 19:00:32 GMT 2023

Observation	<p>Proposal 1840, Observation 13: NIRCam Diagnostic Status: Warning Observing Template: NIRCam Imaging</p>									
Diagnostics	(Visit 13:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.									
Fixed Targets	#	Name	Target Coordinates		Targ. Coord. Corrections			Miscellaneous		
	(7)	COS-3018555981	RA: 10 00 30.1850 (150.1257708d) Dec: +02 15 59.81 (2.26661d) Equinox: J2000							
	<p><i>Comments:</i> Category=Galaxy Description=[High-redshift galaxies, Lyman-alpha galaxies] Extended=NO</p>									
Template	Module				Subarray					
	B				FULL					
Dithers	#	Primary Dither Type		Primary Dithers	Subpixel Dither Type		Dither Size	Subpixel Positions		
	1	INTRAMODULEBOX		4	STANDARD			1		
Spectral Elements	#	Short Filter	Long Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Dithers	Total Exposure Time	ETC Wkbk.Calc ID
	1	F115W	F250M	SHALLOW4	5	1	4	4	1030.73	
	2	F150W	F444W	BRIGHT1	7	1	4	4	558.312	
	3	F200W	F335M	BRIGHT1	9	1	4	4	730.1	
Special Requirements	Offset 35.0 arcsec, -25.0 arcsec Background Limited. Background no more than 40th percentile above minimum									

Proposal 1840 - Observation 14 - ALMA [OIII]88um Emitters. Signpost of Early Stellar Buildup and Reionization in the Universe

Thu Feb 02 19:00:32 GMT 2023

Observation	<p>Proposal 1840, Observation 14: NIRSPec Diagnostic Status: Warning Observing Template: NIRSpec IFU Spectroscopy</p>											
Diagnostics	(Visit 14:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.											
Fixed Targets	#	Name	Target Coordinates			Targ. Coord. Corrections			Miscellaneous			
	(11)	SXDF-NB1006-2	RA: 02 18 56.5360 (34.7355667d) Dec: -05 19 58.87 (-5.33302d) Equinox: J2000									
	<p><i>Comments:</i> Category=Galaxy Description=[High-redshift galaxies, Lyman-alpha galaxies] Extended=NO</p>											
Template	TA Method											
	NONE											
Dithers	#	Dither Type		Size	Starting Point		Number of Points	Points				
	1	CYCLING		MEDIUM	1		4					
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	G395M/F290LP	NRSIRS2RAPID	21	1	false	true	NONE	4	4	1283.822	

Proposal 1840 - Observation 15 - ALMA [OIII]88um Emitters. Signpost of Early Stellar Buildup and Reionization in the Universe

Thu Feb 02 19:00:32 GMT 2023

Observation	<p>Proposal 1840, Observation 15: NIRCam Diagnostic Status: Warning Observing Template: NIRCam Imaging</p>									
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		
	(11)	SXDF-NB1006-2	RA: 02 18 56.5360 (34.7355667d) Dec: -05 19 58.87 (-5.33302d) Equinox: J2000							
	<p><i>Comments:</i> Category=Galaxy Description=[High-redshift galaxies, Lyman-alpha galaxies] Extended=NO</p>									
Template	Module					Subarray				
	B					FULL				
Dithers	#	Primary Dither Type		Primary Dithers	Subpixel Dither Type		Dither Size	Subpixel Positions		
	1	INTRAMODULEBOX		4	STANDARD			1		
Spectral Elements	#	Short Filter	Long Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Dithers	Total Exposure Time	ETC Wkbk.Calc ID
	1	F115W	F277W	BRIGHT1	10	1	4	4	815.995	
	2	F150W	F444W	SHALLOW4	10	1	4	4	2104.407	
	3	F200W	F356W	BRIGHT1	9	1	4	4	730.1	
Special Requirements	Offset 35.0 arcsec, -25.0 arcsec Background Limited. Background no more than 40th percentile above minimum									

Proposal 1840 - Observation 16 - ALMA [OIII]88um Emitters. Signpost of Early Stellar Buildup and Reionization in the Universe

Thu Feb 02 19:00:32 GMT 2023

Observation	<p>Proposal 1840, Observation 16: NIRCam Diagnostic Status: Warning Observing Template: NIRCam Imaging</p>									
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		
	(10)	B14-65666	RA: 10 01 40.6900 (150.4195417d) Dec: +01 54 52.42 (1.91456d) Equinox: J2000							
	<p><i>Comments:</i> Category=Galaxy Description=[Lyman-alpha galaxies, Lyman-break galaxies]</p>									
Template	Module					Subarray				
	B					FULL				
Dithers	#	Primary Dither Type		Primary Dithers	Subpixel Dither Type		Dither Size	Subpixel Positions		
	1	INTRAMODULEBOX		4	STANDARD			1		
Spectral Elements	#	Short Filter	Long Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Dithers	Total Exposure Time	ETC Wkbk.Calc ID
	1	F115W	F356W	BRIGHT1	9	1	4	4	730.1	
	2	F150W	F444W	SHALLOW4	8	1	4	4	1674.936	
	3	F200W	F277W	BRIGHT1	8	1	4	4	644.206	
Special Requirements	Offset 35.0 arcsec, 40.0 arcsec Background Limited. Background no more than 40th percentile above minimum									

Proposal 1840 - Observation 31 - ALMA [OIII]88um Emitters. Signpost of Early Stellar Buildup and Reionization in the Universe

Thu Feb 02 19:00:32 GMT 2023

Observation	<p>Proposal 1840, Observation 31: NIRSPec</p> <p>Diagnostic Status: Warning</p> <p>Observing Template: NIRSpec IFU Spectroscopy</p> <p><i>Comments: We have requested a V3 angle (from 65 to 358 degrees) to exclude a bright star from the SMA area during the IFU observations.</i></p>											
Diagnostics	(Visit 31:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.											
Fixed Targets	#	Name	Target Coordinates			Targ. Coord. Corrections			Miscellaneous			
	(8)	BDF-3299	RA: 22 28 12.3250 (337.0513542d) Dec: -35 10 0.64 (-35.16684d) Equinox: J2000									
	<p><i>Comments:</i> <i>Category=Galaxy</i> <i>Description=[High-redshift galaxies, Lyman-alpha galaxies]</i> <i>Extended=NO</i></p>											
Template	TA Method											
	NONE											
Dithers	#	Dither Type		Size	Starting Point		Number of Points	Points				
	1	CYCLING		MEDIUM	1		4					
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	G395M/F290LP	NRSIRS2RAPID	50	1	false	true	NONE	4	4	2976.134	
Special Requirements	Aperture PA Range 203.892975 to 136.892975 Degrees (V3 64.92044082 to 357.92044082)											

Proposal 1840 - Observation 40 - ALMA [OIII]88um Emitters. Signpost of Early Stellar Buildup and Reionization in the Universe

Thu Feb 02 19:00:32 GMT 2023

Observation	<p>Proposal 1840, Observation 40: NIRCam Diagnostic Status: Warning Observing Template: NIRCam Imaging</p>									
Diagnostics	(Visit 40:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.									
Fixed Targets	#	Name	Target Coordinates			Targ. Coord. Corrections		Miscellaneous		
	(8)	BDF-3299	RA: 22 28 12.3250 (337.0513542d) Dec: -35 10 0.64 (-35.16684d) Equinox: J2000							
	<p><i>Comments:</i> Category=Galaxy Description=[High-redshift galaxies, Lyman-alpha galaxies] Extended=NO</p>									
Template	Module					Subarray				
	B					FULL				
Dithers	#	Primary Dither Type		Primary Dithers	Subpixel Dither Type		Dither Size	Subpixel Positions		
	1	INTRAMODULEBOX		4	STANDARD			1		
Spectral Elements	#	Short Filter	Long Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Dithers	Total Exposure Time	ETC Wkbk.Calc ID
	1	F115W	F277W	SHALLOW4	10	1	4	4	2104.407	
	2	F150W	F356W	MEDIUM8	6	1	4	4	2490.931	
	3	F200W	F444W	SHALLOW4	7	1	4	4	1460.201	
Special Requirements	Offset -25.0 arcsec, 35.0 arcsec Background Limited. Background no more than 40th percentile above minimum									

Proposal 1840 - Observation 17 - ALMA [OIII]88um Emitters. Signpost of Early Stellar Buildup and Reionization in the Universe

Thu Feb 02 19:00:32 GMT 2023

Observation	<p>Proposal 1840, Observation 17: NIRSPec</p> <p>Diagnostic Status: Warning</p> <p>Observing Template: NIRSpec IFU Spectroscopy</p> <p><i>Comments: We have requested a V3 angle (from 62 to 143 degrees) to exclude 4 bright star from the SMA area during the IFU observations. We have include an offset to target the overdensity of sources published in Zheng+14 and Ishigaki+16 papers.</i></p>											
	<p>(Visit 17:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.</p>											
Diagnostics												
Fixed Targets	#	Name	Target Coordinates			Targ. Coord. Corrections			Miscellaneous			
	(12)	A2744-YD4	RA: 00 14 24.9274 (3.6038642d) Dec: -30 22 56.15 (-30.38226d) Equinox: J2000									
<p><i>Comments:</i> Category=Galaxy Description=[High-redshift galaxies, Lyman-alpha galaxies] Extended=NO</p>												
Template	TA Method											
	NONE											
Dithers	#	Dither Type		Size	Starting Point		Number of Points	Points				
	1	CYCLING		MEDIUM	1		4					
Spectral Elements	#	Grating/Filter	Readout Pattern	Groups/Int	Integrations/Ex p	Leakcal	Dither	Autocal	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
	1	G395H/F290LP	NRSIRS2RAPI D	75	1	false	true	NONE	4	4	4435.023	
Special Requirements	<p>Aperture PA Range 200.89297485 to 281.89297485 Degrees (V3 61.92044067 to 142.92044067) Offset 0.6 arcsec, -0.4 arcsec</p>											

Proposal 1840 - Observation 18 - ALMA [OIII]88um Emitters. Signpost of Early Stellar Buildup and Reionization in the Universe

Thu Feb 02 19:00:32 GMT 2023

Observation	<p>Proposal 1840, Observation 18: NIRSPec</p> <p>Diagnostic Status: Warning</p> <p>Observing Template: NIRSpec IFU Spectroscopy</p> <p><i>Comments: We have requested a V3 angle (from 240 to 340 degrees) to exclude the center of the cluster from the SMA area during the IFU observations.</i></p>											
Diagnostics	(Visit 18:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.											
Fixed Targets	#	Name	Target Coordinates			Targ. Coord. Corrections			Miscellaneous			
	(9)	A1689-ZD1	RA: 13 11 29.9600 (197.8748333d) Dec: -01 19 18.70 (-1.32186d) Equinox: J2000									
	<p><i>Comments:</i> <i>Category=Galaxy</i> <i>Description=[High-redshift galaxies]</i></p>											
Template	TA Method											
	NONE											
Dithers	#	Dither Type		Size	Starting Point			Number of Points	Points			
	1	CYCLING		MEDIUM	1			4				
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	G395M/F290LP	NRSIRS2RAPID	14	1	false	true	NONE	4	4	875.333	
Special Requirements	Aperture PA Range 18.89297485 to 118.89297485 Degrees (V3 239.92044067 to 339.92044067)											

Proposal 1840 - Observation 19 - ALMA [OIII]88um Emitters. Signpost of Early Stellar Buildup and Reionization in the Universe

Thu Feb 02 19:00:32 GMT 2023

Observation	Proposal 1840, Observation 19: NIRCam Diagnostic Status: Warning Observing Template: NIRCam Imaging <i>Comments: The PA and offset have been selected to obser the galaxy cluster to increase the value of the ancillary science and archival data</i>																																																	
	(Visit 19:1) Warning (Form): Overheads are provisional until the Visit Planner has been run. (Visit 19:1) Warning (Form): Visit schedulable, but most scheduling windows are when JWST is pointed in direction of greatest micrometeoroid impact risk. This is likely due to scheduling special requirements.																																																	
Diagnosics																																																		
Fixed Targets	<table border="1"> <thead> <tr> <th>#</th> <th>Name</th> <th>Target Coordinates</th> <th>Targ. Coord. Corrections</th> <th>Miscellaneous</th> </tr> </thead> <tbody> <tr> <td>(9)</td> <td>A1689-ZD1</td> <td>RA: 13 11 29.9600 (197.8748333d) Dec: -01 19 18.70 (-1.32186d) Equinox: J2000</td> <td></td> <td></td> </tr> </tbody> </table>	#	Name	Target Coordinates	Targ. Coord. Corrections	Miscellaneous	(9)	A1689-ZD1	RA: 13 11 29.9600 (197.8748333d) Dec: -01 19 18.70 (-1.32186d) Equinox: J2000			<i>Comments: Category=Galaxy Description=[High-redshift galaxies]</i>																																						
	#	Name	Target Coordinates	Targ. Coord. Corrections	Miscellaneous																																													
(9)	A1689-ZD1	RA: 13 11 29.9600 (197.8748333d) Dec: -01 19 18.70 (-1.32186d) Equinox: J2000																																																
Template	Module					Subarray																																												
	B					FULL																																												
Dithers	<table border="1"> <thead> <tr> <th>#</th> <th>Primary Dither Type</th> <th>Primary Dithers</th> <th>Subpixel Dither Type</th> <th>Dither Size</th> <th>Subpixel Positions</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>INTRAMODULEBOX</td> <td>4</td> <td>STANDARD</td> <td></td> <td>1</td> </tr> </tbody> </table>	#	Primary Dither Type	Primary Dithers	Subpixel Dither Type	Dither Size	Subpixel Positions	1	INTRAMODULEBOX	4	STANDARD		1																																					
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Spectral Elements	<table border="1"> <thead> <tr> <th>#</th> <th>Short Filter</th> <th>Long Filter</th> <th>Readout Pattern</th> <th>Groups/Int</th> <th>Integrations/Exp</th> <th>Total Integrations</th> <th>Total Dithers</th> <th>Total Exposure Time</th> <th>ETC Wkbk.Calc ID</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>F115W</td> <td>F277W</td> <td>SHALLOW4</td> <td>5</td> <td>1</td> <td>4</td> <td>4</td> <td>1030.73</td> <td></td> </tr> <tr> <td>2</td> <td>F150W</td> <td>F444W</td> <td>SHALLOW4</td> <td>10</td> <td>1</td> <td>4</td> <td>4</td> <td>2104.407</td> <td></td> </tr> <tr> <td>3</td> <td>F200W</td> <td>F356W</td> <td>BRIGHT1</td> <td>9</td> <td>1</td> <td>4</td> <td>4</td> <td>730.1</td> <td></td> </tr> </tbody> </table>	#	Short Filter	Long Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Dithers	Total Exposure Time	ETC Wkbk.Calc ID	1	F115W	F277W	SHALLOW4	5	1	4	4	1030.73		2	F150W	F444W	SHALLOW4	10	1	4	4	2104.407		3	F200W	F356W	BRIGHT1	9	1	4	4	730.1										
	#	Short Filter	Long Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Dithers	Total Exposure Time	ETC Wkbk.Calc ID																																								
1	F115W	F277W	SHALLOW4	5	1	4	4	1030.73																																										
2	F150W	F444W	SHALLOW4	10	1	4	4	2104.407																																										
3	F200W	F356W	BRIGHT1	9	1	4	4	730.1																																										
Special Requirements	Aperture PA Range 275 to 300 Degrees (V3 274.94416471 to 299.94416471) Offset -35.0 arcsec, 25.0 arcsec Background Limited. Background no more than 40th percentile above minimum																																																	

Proposal 1840 - Observation 41 - ALMA [OIII]88um Emitters. Signpost of Early Stellar Buildup and Reionization in the Universe

Thu Feb 02 19:00:32 GMT 2023

Observation	<p>Proposal 1840, Observation 41: NIRCam Diagnostic Status: Warning Observing Template: NIRCam Imaging</p>									
Diagnostics	(Visit 41:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.									
Fixed Targets	#	Name	Target Coordinates		Targ. Coord. Corrections			Miscellaneous		
	(8)	BDF-3299	RA: 22 28 12.3250 (337.0513542d) Dec: -35 10 0.64 (-35.16684d) Equinox: J2000							
	<p><i>Comments:</i> Category=Galaxy Description=[High-redshift galaxies, Lyman-alpha galaxies] Extended=NO</p>									
Template	Module				Subarray					
	B				FULL					
Dithers	#	Primary Dither Type		Primary Dithers	Subpixel Dither Type		Dither Size	Subpixel Positions		
	1	INTRAMODULEBOX		4	STANDARD			1		
Spectral Elements	#	Short Filter	Long Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Dithers	Total Exposure Time	ETC Wkbk.Calc ID
	1	F115W	F277W	SHALLOW4	10	1	4	4	2104.407	
	2	F150W	F356W	MEDIUM8	6	1	4	4	2490.931	
	3	F200W	F444W	SHALLOW4	7	1	4	4	1460.201	
Special Requirements	Offset -25.0 arcsec, 35.0 arcsec									