



2426 - Spectroscopic Confirmation and Characterization of Bright Galaxies at $z \sim 9$ dis

Cycle: 1, Proposal Category: GO

INVESTIGATORS

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Eduardo Banados (CoI) (ESA Member)	Max Planck Institute for Astronomy

OBSERVATIONS

<i>Folder</i>	<i>Observation</i>	<i>Label</i>	<i>Observing Template</i>	<i>Science Target</i>
Observation Folder				
	1		NIRSpec Fixed Slit Spectroscopy	(1) PAR0953+5153-1777
	2		NIRSpec Fixed Slit Spectroscopy	(2) PAR0953+5153-1655
	3		NIRSpec Fixed Slit Spectroscopy	(3) PAR0956+2847-169
	4		NIRSpec Fixed Slit Spectroscopy	(4) PAR0956+2847-1130
	6		NIRSpec Fixed Slit Spectroscopy	(6) PAR2139+0241-1709

<i>Folder</i>	<i>Observation</i>	<i>Label</i>	<i>Observing Template</i>	<i>Science Target</i>
	7		NIRSpec Fixed Slit Spectroscopy	(5) PAR0750+2917-1736
	8		NIRSpec Fixed Slit Spectroscopy	(7) PAR335+13-251
	10		NIRSpec Fixed Slit Spectroscopy	(8) PAR0456-2203-473
	15		NIRSpec Fixed Slit Spectroscopy	(8) PAR0456-2203-473
	11		NIRSpec Fixed Slit Spectroscopy	(9) PAR2346-0021-164
	13		NIRSpec Fixed Slit Spectroscopy	(20) BORG-0853+0309
	14		NIRSpec Fixed Slit Spectroscopy	(18) PAR0956-0450-684-OFFSET

ABSTRACT

We propose a targeted 18.1-hour NIRSpec fixed slit prism program to spectroscopically confirm 11 of the brightest known $z=9-10$ galaxy candidates. This sample capitalizes on the uncorrelated nature of pure parallel observations to overcome cosmic variance and leverages a full multi-wavelength selection process to minimize contamination without sacrificing completeness. The abundance of bright galaxies at $z>8$ can provide key constraints on models, as the predicted abundance varies greatly when different physical prescriptions for gas cooling and star formation are implemented. These galaxies likely also reside in overdensities, potentially representing some of the earliest sites of cosmic reionization. However, these candidate galaxies require spectroscopic confirmation to prove their validity, and pave the way for deeper Cycle 2 exploration. Our observations will provide clear redshift confirmation via detection of the Lyman break, as well as measurements of the O32 line ratio, enabling the characterization of the ionizing power of these galaxies early in the epoch of reionization.

OBSERVING DESCRIPTION

We will observe 11 bright ($m_H < 26.5$) $z\sim 9-10$ galaxies with NIRSpec fixed slit spectroscopy, aiming to achieve a signal-to-noise of $\sim 3/\text{pixel}$ in the continuum to allow for a significant detection of the Lyman spectral break. (We note that our observations will also be sensitive to emission lines such as [OII], Hbeta, and [OIII].) We will use the S400A1, as we can achieve the desired sensitivity in this wider slit, thus reducing the risk of slit losses but with acceptable resolution for our goals. We will observe each target for ~ 25 minutes, using an exposure specification of 120 groups and 1 integration per exposure with the NRSRAPID readout mode, recommended by JDox. We will use 2 nods along the slit and perform both spatial and spectral sub-pixel dithers. With these specifications, we will be able to cleanly background-subtract the spectra, remove detector effects, and improve the sub-pixel sampling. This results in 8 exposures per target, for a total integration time of 1508s.

Six of our targets are bright enough for direct acquisition with WATA, using NRSRAPIDD6 and FULL array readout. For each of the remaining five targets, we have identified a nearby star with $20 < m_H < 24$ and coordinates from the same astrometric catalog as our targets. For the brighter stars,

we use SUB2048 and either NRSRAPID or NRSRAPIDD6 as necessary to avoid saturation.

The total requested program time is 18.13 hours, including all overheads estimated by APT.

Proposal 2426 - Targets - Spectroscopic Confirmation and Characterization of Bright Galaxies at z~9dis

#	Name	Target Coordinates	Targ. Coord. Corrections	Miscellaneous
(1)	PAR0953+5153-1777	RA: 09 53 10.7383 (148.2947429d) Dec: +51 52 30.84 (51.87523d) Equinox: J2000		
<i>Comments:</i> Category=Galaxy Description=[High-redshift galaxies, Lyman-break galaxies]				
(2)	PAR0953+5153-1655	RA: 09 53 10.7129 (148.2946371d) Dec: +51 52 37.64 (51.87712d) Equinox: J2000		
<i>Comments:</i> Category=Galaxy Description=[High-redshift galaxies, Lyman-break galaxies]				
(3)	PAR0956+2847-169	RA: 09 56 27.1766 (149.1132358d) Dec: +28 48 44.07 (28.81224d) Equinox: J2000		
<i>Comments:</i> Category=Galaxy Description=[High-redshift galaxies, Lyman-break galaxies]				
(4)	PAR0956+2847-1130	RA: 09 56 29.4622 (149.1227592d) Dec: +28 47 31.27 (28.79202d) Equinox: J2000		
<i>Comments:</i> Category=Galaxy Description=[High-redshift galaxies, Lyman-break galaxies]				
(5)	PAR0750+2917-1736	RA: 07 50 51.3878 (117.7141158d) Dec: +29 16 17.47 (29.27152d) Equinox: J2000		
<i>Comments:</i> Category=Galaxy Description=[High-redshift galaxies, Lyman-break galaxies]				
(6)	PAR2139+0241-1709	RA: 21 39 34.5233 (324.8938471d) Dec: +02 40 32.41 (2.67567d) Equinox: J2000		
<i>Comments:</i> Category=Galaxy Description=[High-redshift galaxies, Lyman-break galaxies]				
(7)	PAR335+13-251	RA: 15 47 43.3818 (236.9307575d) Dec: +20 58 23.28 (20.97313d) Equinox: J2000		
<i>Comments:</i> Category=Galaxy Description=[High-redshift galaxies, Lyman-break galaxies]				
(8)	PAR0456-2203-473	RA: 04 55 51.6302 (73.9651258d) Dec: -22 01 36.11 (-22.02670d) Equinox: J2000		
<i>Comments:</i> Category=Galaxy Description=[High-redshift galaxies, Lyman-break galaxies]				

Fixed Targets

Proposal 2426 - Targets - Spectroscopic Confirmation and Characterization of Bright Galaxies at z~9dis

(9)	PAR2346-0021-164	RA: 23 46 15.8489 (356.5660371d) Dec: -00 20 54.86 (-.34857d) Equinox: J2000
<p><i>Comments:</i> <i>Category=Galaxy</i> <i>Description=[High-redshift galaxies, Lyman-break galaxies]</i></p>		
(10)	PAR0756+3043-92	RA: 07 55 54.4047 (118.9766863d) Dec: +30 42 22.14 (30.70615d) Equinox: J2000
<p><i>Comments:</i> <i>Category=Galaxy</i> <i>Description=[High-redshift galaxies, Lyman-break galaxies]</i></p>		
(11)	PAR0956-0450-684	RA: 09 56 50.7005 (149.2112521d) Dec: -04 49 38.84 (-4.82746d) Equinox: J2000
<p><i>Comments:</i> <i>Category=Galaxy</i> <i>Description=[High-redshift galaxies, Lyman-break galaxies]</i></p>		
(12)	PAR0953-TA	RA: 09 53 12.6416 (148.3026733d) Dec: +51 52 18.15 (51.87171d) Equinox: J2000
<p><i>Comments: mH=24.8</i> <i>Category=Star</i> <i>Description=[G dwarfs]</i></p>		
(13)	PAR0750-TA	RA: 07 50 52.1679 (117.7173662d) Dec: +29 16 38.16 (29.27727d) Equinox: J2000
<p><i>Comments: mH=20.48</i> <i>Category=Star</i> <i>Description=[G dwarfs]</i></p>		
(14)	PAR0956-TA	RA: 09 56 26.7601 (149.1115004d) Dec: +28 47 58.41 (28.79956d) Equinox: J2000
<p><i>Comments: mH=21.25</i> <i>Category=Star</i> <i>Description=[G dwarfs]</i></p>		
(15)	PAR0756-TA	RA: 07 55 56.5824 (118.9857600d) Dec: +30 42 0.67 (30.70019d) Equinox: J2000
<p><i>Comments:</i> <i>Category=Star</i> <i>Description=[G dwarfs]</i></p>		
(16)	PAR0456-TA	RA: 04 55 51.0117 (73.9625488d) Dec: -22 02 16.43 (-22.03790d) Equinox: J2000
<p><i>Comments:</i> <i>Category=Star</i> <i>Description=[G stars]</i></p>		

Proposal 2426 - Targets - Spectroscopic Confirmation and Characterization of Bright Galaxies at z~9dis

(17)	PAR0956-0450-TA	RA: 09 56 50.7633 (149.2115137d) Dec: -04 49 39.43 (-4.82762d) Equinox: J2000	
<i>Comments:</i> <i>Category=Galaxy</i> <i>Description=[Field galaxies]</i>			
(18)	PAR0956-0450-684-OFFSET	RA: 09 56 50.6779 (149.2111579d) Dec: -04 49 38.63 (-4.82740d) Equinox: J2000	
<i>Comments:</i> <i>Category=Galaxy</i> <i>Description=[High-redshift galaxies, Lyman-break galaxies]</i>			
(19)	Par2139-TA	RA: 21 39 33.9811 (324.8915879d) Dec: +02 40 34.58 (2.67627d) Equinox: J2000	
<i>Comments:</i> <i>Category=Star</i> <i>Description=[G stars]</i>			
(20)	BORG-0853+0309	RA: 08 52 44.5276 (133.1855317d) Dec: +03 08 48.16 (3.14671d) Equinox: J2000	
<i>Comments:</i> <i>Category=Galaxy</i> <i>Description=[High-redshift galaxies, Lyman-break galaxies]</i>			
(21)	BORG0853-TA	RA: 08 52 43.3777 (133.1807404d) Dec: +03 09 26.60 (3.15739d) Equinox: J2000	Proper Motion RA: -6.639543168502265 mas/yr Proper Motion Dec: -9.457803544473375 mas/yr Epoch of Position: 2010.174
<i>Comments:</i> <i>Category=Star</i> <i>Description=[G stars]</i>			

Proposal 2426 - Observation 1 - Spectroscopic Confirmation and Characterization of Bright Galaxies at z~9dis

Wed May 22 07:00:21 GMT 2024

Observation	Proposal 2426, Observation 1 Diagnostic Status: Warning Observing Template: NIRSpec Fixed Slit Spectroscopy										
	(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)	PAR0953+5153-1777	RA: 09 53 10.7383 (148.2947429d) Dec: +51 52 30.84 (51.87523d) Equinox: J2000								
<i>Comments:</i> Category=Galaxy Description=[High-redshift galaxies, Lyman-break galaxies]											
Acquisition	#	Target	TA Method	Subarray	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
	1	12 PAR0953-TA	WATA	FULL	CLEAR	NRSRAPIDD6	3	1	1	171.788	62864.02
Template	Slit					Subarray					
	S400A1					FULL					
Dithers	#	Primary Dither Positions					Sub-Pixel Pattern				
	1	2					BOTH				
Spectral Elements	#	Grating/Filter	Slit	Readout Pattern	Groups/Int	Integrations/Exp #	Autocal	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
	1	PRISM/CLEAR	S400A1	NRSIRS2RAPID	12	1	1	NONE	8	8	1517.245

Proposal 2426 - Observation 2 - Spectroscopic Confirmation and Characterization of Bright Galaxies at z~9dis

Wed May 22 07:00:21 GMT 2024

Observation	Proposal 2426, Observation 2 Diagnostic Status: Warning Observing Template: NIRSpec Fixed Slit Spectroscopy										
	(Visit 2:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.										
Fixed Targets	#	Name	Target Coordinates		Targ. Coord. Corrections			Miscellaneous			
	(2)	PAR0953+5153-1655	RA: 09 53 10.7129 (148.2946371d) Dec: +51 52 37.64 (51.87712d) Equinox: J2000								
<i>Comments:</i> Category=Galaxy Description=[High-redshift galaxies, Lyman-break galaxies]											
Acquisition	#	Target	TA Method	Subarray	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
	1	12 PAR0953-TA	WATA	FULL	CLEAR	NRSRAPIDD6	3	1	1	171.788	62864.02
Template	Slit				Subarray						
	S400A1				FULL						
Dithers	#	Primary Dither Positions					Sub-Pixel Pattern				
	1	2					BOTH				
Spectral Elements	#	Grating/Filter	Slit	Readout Pattern	Groups/Int	Integrations/Exp #	Autocal	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
	1	PRISM/CLEAR	S400A1	NRSIRS2RAPID	12	1	1	NONE	8	8	1517.245

Proposal 2426 - Observation 3 - Spectroscopic Confirmation and Characterization of Bright Galaxies at z~9dis

Wed May 22 07:00:21 GMT 2024

Observation	Proposal 2426, Observation 3 Diagnostic Status: Warning Observing Template: NIRSpec Fixed Slit Spectroscopy										
	(Observation 3) Warning (Form): The slew between the acquisition exposure and the farthest science exposure is 50.845 Arcsec (larger than the recommended limit of 40.000 Arcsec) and may result in reduced or no schedulability. See more information in the diagnostic browser. (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)	PAR0956+2847-169	RA: 09 56 27.1766 (149.1132358d) Dec: +28 48 44.07 (28.81224d) Equinox: J2000								
<i>Comments:</i> Category=Galaxy Description=[High-redshift galaxies, Lyman-break galaxies]											
Acquisition	#	Target	TA Method	Subarray	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
	1	14 PAR0956-TA	WATA	SUB2048	CLEAR	NRSRAPID	3	1	1	3.628	62864.04
Template	Slit					Subarray					
	S400A1					FULL					
Dithers	#	Primary Dither Positions					Sub-Pixel Pattern				
	1	2					BOTH				
Spectral Elements	#	Grating/Filter	Slit	Readout Pattern	Groups/Int	Integrations/Ex #	Autocal	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
	1	PRISM/CLEAR	S400A1	NRSIRS2RAPID	12	1	1	NONE	8	8	1517.245

Proposal 2426 - Observation 4 - Spectroscopic Confirmation and Characterization of Bright Galaxies at z~9dis

Wed May 22 07:00:21 GMT 2024

Observation	Proposal 2426, Observation 4 Diagnostic Status: Warning Observing Template: NIRSpec Fixed Slit Spectroscopy										
	(Observation 4) Warning (Form): The slew between the acquisition exposure and the farthest science exposure is 49.559 Arcsec (larger than the recommended limit of 40.000 Arcsec) and may result in reduced or no schedulability. See more information in the diagnostic browser. (Visit 4:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.										
Fixed Targets	#	Name	Target Coordinates		Targ. Coord. Corrections			Miscellaneous			
	(4)	PAR0956+2847-1130	RA: 09 56 29.4622 (149.1227592d) Dec: +28 47 31.27 (28.79202d) Equinox: J2000								
<i>Comments:</i> Category=Galaxy Description=[High-redshift galaxies, Lyman-break galaxies]											
Acquisition	#	Target	TA Method	Subarray	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
	1	14 PAR0956-TA	WATA	SUB2048	CLEAR	NRSRAPID	3	1	1	3.628	62864.04
Template	Slit				Subarray						
	S400A1				FULL						
Dithers	#	Primary Dither Positions					Sub-Pixel Pattern				
	1	2					BOTH				
Spectral Elements	#	Grating/Filter	Slit	Readout Pattern	Groups/Int	Integrations/Exp #	Autocal	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
	1	PRISM/CLEAR	S400A1	NRSIRS2RAPID	12	1	1	NONE	8	8	1517.245

Proposal 2426 - Observation 6 - Spectroscopic Confirmation and Characterization of Bright Galaxies at z~9dis

Wed May 22 07:00:21 GMT 2024

Observation	Proposal 2426, Observation 6 Diagnostic Status: Warning Observing Template: NIRSpec Fixed Slit Spectroscopy										
	(Visit 6:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.										
Fixed Targets	#	Name	Target Coordinates		Targ. Coord. Corrections			Miscellaneous			
	(6)	PAR2139+0241-1709	RA: 21 39 34.5233 (324.8938471d) Dec: +02 40 32.41 (2.67567d) Equinox: J2000								
<i>Comments:</i> Category=Galaxy Description=[High-redshift galaxies, Lyman-break galaxies]											
Acquisition	#	Target	TA Method	Subarray	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
	1	19 Par2139-TA	WATA	SUB2048	CLEAR	NRSRAPIDD6	3	1	1	14.452	148566.15
Template	Slit				Subarray						
	S400A1				FULL						
Dithers	#	Primary Dither Positions					Sub-Pixel Pattern				
	1	2					BOTH				
Spectral Elements	#	Grating/Filter	Slit	Readout Pattern	Groups/Int	Integrations/Exp #	Autocal	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
	1	PRISM/CLEAR	S400A1	NRSIRS2RAPID	12	1	1	NONE	8	8	1517.245

Proposal 2426 - Observation 7 - Spectroscopic Confirmation and Characterization of Bright Galaxies at z~9dis

Wed May 22 07:00:21 GMT 2024

Observation	Proposal 2426, Observation 7 Diagnostic Status: Warning Observing Template: NIRSpec Fixed Slit Spectroscopy										
	(Visit 7:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.										
Fixed Targets	#	Name	Target Coordinates		Targ. Coord. Corrections			Miscellaneous			
	(5)	PAR0750+2917-1736	RA: 07 50 51.3878 (117.7141158d) Dec: +29 16 17.47 (29.27152d) Equinox: J2000								
<i>Comments:</i> Category=Galaxy Description=[High-redshift galaxies, Lyman-break galaxies]											
Acquisition	#	Target	TA Method	Subarray	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
	1	13 PAR0750-TA	WATA	SUB2048	CLEAR	NRSRAPID	3	1	1	3.628	62864.05
Template	Slit				Subarray						
	S400A1				FULL						
Dithers	#	Primary Dither Positions					Sub-Pixel Pattern				
	1	2					BOTH				
Spectral Elements	#	Grating/Filter	Slit	Readout Pattern	Groups/Int	Integrations/Exp #	Autocal	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
	1	PRISM/CLEAR	S400A1	NRSIRS2RAPID	12	1	1	NONE	8	8	1517.245

Proposal 2426 - Observation 8 - Spectroscopic Confirmation and Characterization of Bright Galaxies at z~9dis

Wed May 22 07:00:21 GMT 2024

Observation	Proposal 2426, Observation 8 Diagnostic Status: Warning Observing Template: NIRSpec Fixed Slit Spectroscopy										
	(Visit 8:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.										
Fixed Targets	#	Name	Target Coordinates		Targ. Coord. Corrections			Miscellaneous			
	(7)	PAR335+13-251	RA: 15 47 43.3818 (236.9307575d) Dec: +20 58 23.28 (20.97313d) Equinox: J2000								
<i>Comments:</i> Category=Galaxy Description=[High-redshift galaxies, Lyman-break galaxies]											
Acquisition	#	Target	TA Method	Subarray	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
	1	SAME	WATA	FULL	CLEAR	NRSRAPIDD6	3	1	1	171.788	62864.07
Template	Slit					Subarray					
	S400A1					SUBS400A1					
Dithers	#	Primary Dither Positions					Sub-Pixel Pattern				
	1	2					BOTH				
Spectral Elements	#	Grating/Filter	Slit	Readout Pattern	Groups/Int	Integrations/Exp #	Autocal	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
	1	PRISM/CLEAR	S400A1	NRSRAPID	120	1	1	NONE	8	8	1508.308

Proposal 2426 - Observation 10 - Spectroscopic Confirmation and Characterization of Bright Galaxies at z~9dis

Wed May 22 07:00:21 GMT 2024

Observation	Proposal 2426, Observation 10 Diagnostic Status: Warning Observing Template: NIRSpec Fixed Slit Spectroscopy										
	(Visit 10:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.										
Fixed Targets	#	Name	Target Coordinates			Targ. Coord. Corrections			Miscellaneous		
	(8)	PAR0456-2203-473	RA: 04 55 51.6302 (73.9651258d) Dec: -22 01 36.11 (-22.02670d) Equinox: J2000								
<i>Comments:</i> <i>Category=Galaxy</i> <i>Description=[High-redshift galaxies, Lyman-break galaxies]</i>											
Acquisition	#	Target	TA Method	Subarray	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
	1	16 PAR0456-TA	WATA	SUB32	CLEAR	NRSRAPIDD6	3	1	1	0.26	121938.02
Template	Slit					Subarray					
	S400A1					FULL					
Dithers	#	Primary Dither Positions					Sub-Pixel Pattern				
	1	2					BOTH				
Spectral Elements	#	Grating/Filter	Slit	Readout Pattern	Groups/Int	Integrations/Exp #	Autocal	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
	1	PRISM/CLEAR	S400A1	NRSIRS2RAPID	12	1	1	NONE	8	8	1517.245

Proposal 2426 - Observation 15 - Spectroscopic Confirmation and Characterization of Bright Galaxies at z~9dis

Wed May 22 07:00:21 GMT 2024

Observation	Proposal 2426, Observation 15 Diagnostic Status: Warning Observing Template: NIRSpec Fixed Slit Spectroscopy										
	(Visit 15:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.										
Fixed Targets	#	Name	Target Coordinates			Targ. Coord. Corrections			Miscellaneous		
	(8)	PAR0456-2203-473	RA: 04 55 51.6302 (73.9651258d) Dec: -22 01 36.11 (-22.02670d) Equinox: J2000								
<i>Comments:</i> Category=Galaxy Description=[High-redshift galaxies, Lyman-break galaxies]											
Acquisition	#	Target	TA Method	Subarray	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
	1	16 PAR0456-TA	WATA	SUB32	CLEAR	NRSRAPIDD6	3	1	1	0.26	121938.02
Template	Slit					Subarray					
	S400A1					FULL					
Dithers	#	Primary Dither Positions					Sub-Pixel Pattern				
	1	2					BOTH				
Spectral Elements	#	Grating/Filter	Slit	Readout Pattern	Groups/Int	Integrations/Exp #	Autocal	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
	1	PRISM/CLEAR	S400A1	NRSIRS2RAPID	12	1	1	NONE	8	8	1517.245

Proposal 2426 - Observation 11 - Spectroscopic Confirmation and Characterization of Bright Galaxies at z~9dis

Wed May 22 07:00:21 GMT 2024

Observation	Proposal 2426, Observation 11 Diagnostic Status: Warning Observing Template: NIRSpec Fixed Slit Spectroscopy										
	(Visit 11:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.										
Fixed Targets	#	Name	Target Coordinates		Targ. Coord. Corrections			Miscellaneous			
	(9)	PAR2346-0021-164	RA: 23 46 15.8489 (356.5660371d) Dec: -00 20 54.86 (-.34857d) Equinox: J2000								
<i>Comments:</i> Category=Galaxy Description=[High-redshift galaxies, Lyman-break galaxies]											
Acquisition	#	Target	TA Method	Subarray	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
	1	SAME	WATA	FULL	CLEAR	NRSRAPIDD6	3	1	1	171.788	62864.09
Template	Slit					Subarray					
	S400A1					FULL					
Dithers	#	Primary Dither Positions					Sub-Pixel Pattern				
	1	2					BOTH				
Spectral Elements	#	Grating/Filter	Slit	Readout Pattern	Groups/Int	Integrations/Exp #	Autocal	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
	1	PRISM/CLEAR	S400A1	NRSIRS2RAPID	12	1	1	NONE	8	8	1517.245

Proposal 2426 - Observation 13 - Spectroscopic Confirmation and Characterization of Bright Galaxies at z~9dis

Wed May 22 07:00:21 GMT 2024

Observation	Proposal 2426, Observation 13 Diagnostic Status: Warning Observing Template: NIRSpec Fixed Slit Spectroscopy										
	(Visit 13:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.										
Fixed Targets	#	Name	Target Coordinates			Targ. Coord. Corrections			Miscellaneous		
	(20)	BORG-0853+0309	RA: 08 52 44.5276 (133.1855317d) Dec: +03 08 48.16 (3.14671d) Equinox: J2000								
<i>Comments:</i> Category=Galaxy Description=[High-redshift galaxies, Lyman-break galaxies]											
Acquisition	#	Target	TA Method	Subarray	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
	1	21 BORG0853-TA	WATA	SUB32	F110W	NRSRAPIDD6	3	1	1	0.26	202255.17
Template	Slit					Subarray					
	S400A1					FULL					
Dithers	#	Primary Dither Positions					Sub-Pixel Pattern				
	1	2					BOTH				
Spectral Elements	#	Grating/Filter	Slit	Readout Pattern	Groups/Int	Integrations/Exp #	Autocal	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
	1	PRISM/CLEAR	S400A1	NRSIRS2RAPID	12	1	1	NONE	8	8	1517.245

Proposal 2426 - Observation 14 - Spectroscopic Confirmation and Characterization of Bright Galaxies at z~9dis

Wed May 22 07:00:21 GMT 2024

Observation	Proposal 2426, Observation 14 Diagnostic Status: Warning Observing Template: NIRSpec Fixed Slit Spectroscopy										
	(Visit 14:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.										
Fixed Targets	#	Name	Target Coordinates			Targ. Coord. Corrections			Miscellaneous		
	(18)	PAR0956-0450-684-OFFSET	RA: 09 56 50.6779 (149.2111579d) Dec: -04 49 38.63 (-4.82740d) Equinox: J2000								
<i>Comments:</i> Category=Galaxy Description=[High-redshift galaxies, Lyman-break galaxies]											
Acquisition	#	Target	TA Method	Subarray	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
	1	17 PAR0956-0450-TA	WATA	FULL	F110W	NRSRAPIDD6	3	1	1	171.788	148566.14
Template	Slit					Subarray					
	S400A1					FULL					
Dithers	#	Primary Dither Positions					Sub-Pixel Pattern				
	1	2					BOTH				
Spectral Elements	#	Grating/Filter	Slit	Readout Pattern	Groups/Int	Integrations/Exp #	Autocal	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
	1	PRISM/CLEAR	S400A1	NRSIRS2RAPID	12	1	1	NONE	8	8	1517.245