



2565 - HOW MANY QUIESCENT GALAXIES ARE THERE AT $3 < z < 4$ REALLY?

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>
Observation Folder				
	1	COSMOS obs 1.2	NIRSpec MultiObject Spectroscopy	(29) COSMOS-ZFOURGE-FINAL-V1-OBS1
	2	COSMOS 2.6	NIRSpec MultiObject Spectroscopy	(35) COSMOS-ZFOURGE-FINAL-V2-OBS2

<i>Folder</i>	<i>Observation</i>	<i>Label</i>	<i>Observing Template</i>	<i>Science Target</i>
	100	UDS ZFOURGE Set 10 .2	NIRSpec MultiObject Spectroscopy	(24) UDS-THREEDHST-FINAL-V7-OBS100
	200	UDS ZFOURGE Set 20 .1	NIRSpec MultiObject Spectroscopy	(25) UDS-THREEDHST-FINAL-V7-OBS200
	300	UDS THREEDHST 10. 0	NIRSpec MultiObject Spectroscopy	(26) UDS-THREEDHST-FINAL-V7-OBS300
	7	cosmos 7.6	NIRSpec MultiObject Spectroscopy	(32) COSMOS-ZFOURGE-FINAL-V2-OBS3
	301	COSMOS obs 1.31	NIRSpec MultiObject Spectroscopy	(29) COSMOS-ZFOURGE-FINAL-V1-OBS1
	6	EGS v2.89	NIRSpec MultiObject Spectroscopy	(47) EGS-THREEDHST-FINAL-V2.80

ABSTRACT

We will find out.

This is important because massive quiescent galaxies at high-redshift have historically driven forward our understanding of galaxy formation and evolution. Numerous spectroscopic confirmations have shown that these galaxies do exist at $z>3$, however the measured number densities are still highly uncertain and depend on large photometrically selected samples. Massive quiescent galaxies at high-redshift evolve rapidly and so constraining hydrodynamical simulations with precise number densities is critical.

To address this, a recent spectroscopic campaign to target 24 photometrically pre-selected quiescent galaxy candidates ($z>3$, stellar mass $>2E10$ Msun selection) was undertaken with MOSFIRE/Keck in H+K. Here only 12 galaxies were spectroscopically confirmed, 3 of which were highly uncertain, leaving a possible 12 quiescent galaxies still unconfirmed - many with continuum detections and no emission lines.

Here we propose to observe the 15 uncertain or unconfirmed quiescent galaxy candidates with JWST NIRSpec PRISM, which will allow wide field-of-view observations and continuous 0.6–5 μ m spectral coverage to efficiently measure their spectra and produce highly complete and definitive number densities and ages. These galaxies are the fainter ones in the quiescent galaxy candidate sample but not necessarily the least massive, as the older age populations will be less luminous. Confirming these massive galaxies would pose significant challenges for galaxy formation and evolution theories.

OBSERVING DESCRIPTION

JWST Proposal 2565 (Created: Wednesday, February 22, 2023 at 12:03:11 PM Eastern Standard Time) - Overview

This proposal requests shallow NIRSpec Prism observations to target a sample of UVJ Quiescent galaxies at $z \sim 3-4$. They are selected from deep Hubble imaging and have been followed up with ground based spectroscopy. However, due to atmospheric contamination their redshift completeness is not known. If indeed these galaxies are confirmed to be quiescent, the existence of such a large population at $z > 3$ would lead to significant tensions with current galaxy evolutionary theory.

By obtaining NIRSpec prism spectroscopy with complete wavelength coverage between 1-5 microns to $z > 3$ 15 UVJ quiescent candidates, this proposal will provide stringent limits to the abundance of massive quiescent galaxies in the early Universe. These galaxies are relatively bright ($K \sim < 24$) for typical high redshift sources, therefore an on-source exposure time of 30 min is sufficient to address all our science goals.

Proposal 2565 - Targets - HOW MANY QUIESCENT GALAXIES ARE THERE AT $3 < z < 4$ REALLY?

#	Name	Target Coordinates	Targ. Coord. Corrections	Miscellaneous
(4)	COSMOS-FINAL	RA: 10 00 18.6024 (150.0775100d) Dec: +02 14 8.91 (2.23581d) Equinox: J2000		
<i>Comments:</i> <i>Description=[]</i>				
(5)	EGS-FINAL	RA: 14 19 2.7063 (214.7612762d) Dec: +52 46 36.93 (52.77692d) Equinox: J2000		
<i>Comments:</i> <i>Description=[]</i>				
(6)	UDS-FINAL	RA: 02 17 37.3922 (34.4058008d) Dec: -05 11 56.11 (-5.19892d) Equinox: J2000		
<i>Comments:</i> <i>Description=[]</i>				
(24)	UDS-THREEDHST-FINAL-V7-OBS100	RA: 02 17 13.9532 (34.3081383d) Dec: -05 14 54.12 (-5.24837d) Equinox: J2000		
<i>Comments:</i> <i>Description=[]</i>				
(25)	UDS-THREEDHST-FINAL-V7-OBS200	RA: 02 17 5.7540 (34.2739750d) Dec: -05 13 50.15 (-5.23060d) Equinox: J2000		
<i>Comments:</i> <i>Description=[]</i>				
(26)	UDS-THREEDHST-FINAL-V7-OBS300	RA: 02 17 57.7560 (34.4906500d) Dec: -05 09 49.14 (-5.16365d) Equinox: J2000		
<i>Comments:</i> <i>Description=[]</i>				
(27)	EGS-THREEDHST-FINAL-V1	RA: 14 19 33.6382 (214.8901592d) Dec: +52 53 1.37 (52.88371d) Equinox: J2000		
<i>Comments:</i> <i>Description=[]</i>				
(28)	EGS-THREEDHST-FINAL-V1.1	RA: 14 19 31.4221 (214.8809254d) Dec: +52 53 7.33 (52.88537d) Equinox: J2000		
<i>Comments:</i> <i>Description=[]</i>				
(29)	COSMOS-ZFOURGE-FINAL-V1-OBS1	RA: 10 00 22.3644 (150.0931850d) Dec: +02 17 8.09 (2.28558d) Equinox: J2000		
<i>Comments:</i> <i>Description=[]</i>				

Fixed Targets

Proposal 2565 - Targets - HOW MANY QUIESCENT GALAXIES ARE THERE AT $3 < z < 4$ REALLY?

(32)	COSMOS-ZFOURGE-FINAL-V2-OBS3	RA: 10 00 20.4212 (150.0850883d) Dec: +02 21 46.44 (2.36290d) Equinox: J2000
<i>Comments:</i> <i>Description=[]</i>		
(34)	COSMOS-ZFOURGE-FINAL-V1-OBS2	RA: 10 00 22.9132 (150.0954717d) Dec: +02 21 29.09 (2.35808d) Equinox: J2000
<i>Comments:</i> <i>Description=[]</i>		
(35)	COSMOS-ZFOURGE-FINAL-V2-OBS2	RA: 10 00 22.9132 (150.0954717d) Dec: +02 21 29.09 (2.35808d) Equinox: J2000
<i>Comments:</i> <i>Description=[]</i>		
(47)	EGS-THREEDHST-FINAL-V2.80	RA: 14 19 24.3958 (214.8516492d) Dec: +52 51 9.04 (52.85251d) Equinox: J2000
<i>Comments:</i> <i>Description=[]</i>		

Proposal 2565 - Observation 1 - HOW MANY QUIESCENT GALAXIES ARE THERE AT 3<z<4 REALLY?

Wed Feb 22 17:03:11 GMT 2023

Observation	Proposal 2565, Observation 1: COSMOS obs 1.2 Diagnostic Status: Warning Observing Template: NIRSpec MultiObject Spectroscopy										
	(COSMOS obs 1.2 (Obs 1)) Warning (Form): Config c1_edited (#1) has 1 filler slit traces affected by failed open shutters. (Visit 1:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.										
Fixed Targets	#	Name	Target Coordinates		Targ. Coord. Corrections			Miscellaneous			
	(29)	COSMOS-ZFOURGE-FINAL-V1-OBS1	RA: 10 00 22.3644 (150.0931850d) Dec: +02 17 8.09 (2.28558d) Equinox: J2000								
<i>Comments: Description=[]</i>											
Acquisition	#	Reference Star Bin	Target	Filter	MSA Configuration	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
	1	Filter: F140X; Readout: NRSRAPIDD6; 8 sources in 4 quads; [Optimal TA Accuracy]	SAME	F140X	Auto Acq MSA Config	NRSRAPIDD6	3	1	4	687.153	
Template	TA Method	Obtain Confirmation Images	Science Aperture	Primary Candidate List	Filler Candidate List	Spectral Overlap Map	Spectral Overlap Threshold				
	MSATA	After Target ACQ	MSA Center	cosmos obs 1 primary (1 sources)	cosmos obs 1 fillers (1751 sources)	jwst-nirspec-prism	1.5				
Reference Stars	Visit	ID	RA	Dec	Magnitude	Visit	ID	RA	Dec	Magnitude	
	1	7004	150.090713	2.251912	23.14211654663086	1	11179	150.100490	2.298164	22.62749481201172	
	1	8238	150.088749	2.264988	23.31248092651367	1	11629	150.062209	2.302834	23.69418907165527	
	1	8299	150.089281	2.265111	23.19380187988281	1	12215	150.102543	2.308857	23.21116447448730	
	1	9202	150.118418	2.275069	22.47274398803711	1	13112	150.104679	2.318063	23.330322265625	
Confirmation	#	Confirmation Type	Conf. Readout Pattern	Conf. Groups/Int	Conf. Integrations/Exp	Conf. Total Integrations	Conf. Total Exposure Time				
	1	After Target Acq	NRSIRS2RAPID	2	1	1	43.767				

Proposal 2565 - Observation 1 - HOW MANY QUIESCENT GALAXIES ARE THERE AT $3 < z < 4$ REALLY?

Spectral Elements	#	Exposure Specification	MSA Configuration	Nod Pattern	Pointing	Aperture PA	Dispersion Offset (Shutters)	Cross-Dispersion Offset (Shutters)	Total Dithers	Total Integrations	Total Exposure Time
	Special Requirements	1	1 (PRISM/CLEAR)	c1_edited	5 Shutter Slitlet With Gaps	150.09128437500 001 Degrees 2.28274111111111 11 Degrees	71.518636967878 93			3	3
MSA Scheduled Aperture PA 71.5187197 to 71.5187197 Degrees (V3 292.94415 to 292.94415)											

Proposal 2565 - Observation 2 - HOW MANY QUIESCENT GALAXIES ARE THERE AT $3 < z < 4$ REALLY?

Wed Feb 22 17:03:11 GMT 2023

Observation	Proposal 2565, Observation 2: COSMOS 2.6 Diagnostic Status: Warning Observing Template: NIRSpec MultiObject Spectroscopy										
	(COSMOS 2.6 (Obs 2)) Warning (Form): Config c1_edited-2 (#1) has 1 filler slits affected by failed closed shutters. (Visit 2:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.										
Fixed Targets	#	Name	Target Coordinates			Targ. Coord. Corrections			Miscellaneous		
	(35)	COSMOS-ZFOURGE-FINAL-V2-OBS2	RA: 10 00 22.9132 (150.0954717d) Dec: +02 21 29.09 (2.35808d) Equinox: J2000								
<i>Comments:</i> Description=[]											
Acquisition	#	Reference Star Bin	Target	Filter	MSA Configuration	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
	1	Filter: F110W; Readout: NRSRAPIDD6; 8 sources in 4 quads; [Optimal TA Accuracy]	SAME	F110W	Auto Acq MSA Config	NRSRAPIDD6	3	1	4	687.153	
Template	TA Method	Obtain Confirmation Images	Science Aperture	Primary Candidate List	Filler Candidate List	Spectral Overlap Map	Spectral Overlap Threshold				
	MSATA	After Target ACQ	MSA Center	c 2 p (7 sources)	c 2 f (1752 sources)	jwst-nirspec-prism	1.5				
Reference Stars	Visit	ID	RA	Dec	Magnitude	Visit	ID	RA	Dec	Magnitude	
	1	14151	150.083635	2.329594	23.31336402893066	1	16996	150.116514	2.357376	22.30692291259765	
	1	14763	150.091452	2.336060	21.99162673950195	1	19956	150.104625	2.380156	23.50518608093261	
	1	16397	150.123767	2.352715	22.20343589782715	1	20213	150.126116	2.376106	21.96552658081054	
	1	16938	150.091552	2.358218	23.13071441650390	1	20647	150.078180	2.370953	23.10518264770508	
Confirmation	#	Confirmation Type	Conf. Readout Pattern	Conf. Groups/Int	Conf. Integrations/Exp	Conf. Total Integrations	Conf. Total Exposure Time				
	1	After Target Acq	NRSIRS2RAPID	2	1	1	43.767				

Proposal 2565 - Observation 2 - HOW MANY QUIESCENT GALAXIES ARE THERE AT $3 < z < 4$ REALLY?

Spectral Elements	#	Exposure Specification	MSA Configuration	Nod Pattern	Pointing	Aperture PA	Dispersion Offset (Shutters)	Cross-Dispersion Offset (Shutters)	Total Dithers	Total Integrations	Total Exposure Time
	Special Requirements	1	1 (PRISM/CLEAR)	c1_edited-2	5 Shutter Slitlet With Gaps	150.10375616666 667 Degrees 2.3575825 Degrees	71.493376073562 22			3	3
MSA Scheduled Aperture PA 71.4930297 to 71.4930297 Degrees (V3 292.91846 to 292.91846)											

Proposal 2565 - Observation 100 - HOW MANY QUIESCENT GALAXIES ARE THERE AT 3<z<4 REALLY?

Wed Feb 22 17:03:11 GMT 2023

Observation	Proposal 2565, Observation 100: UDS ZFOURGE Set 10.2 Diagnostic Status: Error Observing Template: NIRSpec MultiObject Spectroscopy																																																												
	(UDS ZFOURGE Set 10.2 (Obs 100)) Error (Form): This observation was created with an Aperture PA of 34.824 but it has been assigned an Aperture PA of 34.832 (Aperture PA) Error (Form): This observation was created with an Aperture PA of 34.824 but it has been assigned an Aperture PA of 34.832 (UDS ZFOURGE Set 10.2 (Obs 100)) Warning (Form): Config c1_edited_-2 (#1) has 1 filler slits affected by failed closed shutters. (UDS ZFOURGE Set 10.2 (Obs 100)) Warning (Form): Config c1_edited_-2 (#1) has 2 filler slit traces affected by failed open shutters. (Visit 100:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.																																																												
Diagnostics	<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>(24)</td> <td>UDS-THREEDHST-FINAL-V7-OBS100</td> <td>RA: 02 17 13.9532 (34.3081383d) Dec: -05 14 54.12 (-5.24837d) Equinox: J2000</td> <td></td> <td></td> </tr> </tbody> </table> Comments: Description=[]											#	Name	Target Coordinates	Targ. Coord. Corrections	Miscellaneous	(24)	UDS-THREEDHST-FINAL-V7-OBS100	RA: 02 17 13.9532 (34.3081383d) Dec: -05 14 54.12 (-5.24837d) Equinox: J2000																																										
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Template	<table border="1"> <thead> <tr> <th>TA Method</th> <th>Obtain Confirmation Images</th> <th>Science Aperture</th> <th>Primary Candidate List</th> <th>Filler Candidate List</th> <th>Spectral Overlap Map</th> <th>Spectral Overlap Threshold</th> </tr> </thead> <tbody> <tr> <td>MSATA</td> <td>After Target ACQ and New MSA Config</td> <td>MSA Center</td> <td>qus obs 100 (4 sources)</td> <td>fillers obs 100 (3747 sources)</td> <td>jwst-nirspec-prism</td> <td>1.5</td> </tr> </tbody> </table>											TA Method	Obtain Confirmation Images	Science Aperture	Primary Candidate List	Filler Candidate List	Spectral Overlap Map	Spectral Overlap Threshold	MSATA	After Target ACQ and New MSA Config	MSA Center	qus obs 100 (4 sources)	fillers obs 100 (3747 sources)	jwst-nirspec-prism	1.5																																				
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Reference Stars	<table border="1"> <thead> <tr> <th>Visit</th> <th>ID</th> <th>RA</th> <th>Dec</th> <th>Magnitude</th> <th>Visit</th> <th>ID</th> <th>RA</th> <th>Dec</th> <th>Magnitude</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>7479</td> <td>34.291193</td> <td>-5.251600</td> <td>22.98357963562012</td> <td>1</td> <td>12500</td> <td>34.316205</td> <td>-5.234419</td> <td>23.83184242248535</td> </tr> <tr> <td>1</td> <td>7886</td> <td>34.329315</td> <td>-5.249900</td> <td>24.33840179443359</td> <td>1</td> <td>12592</td> <td>34.314461</td> <td>-5.234067</td> <td>23.23563575744629</td> </tr> <tr> <td>1</td> <td>9617</td> <td>34.325789</td> <td>-5.243886</td> <td>24.44020462036132</td> <td>1</td> <td>13768</td> <td>34.323290</td> <td>-5.230585</td> <td>22.55040550231933</td> </tr> <tr> <td>1</td> <td>10399</td> <td>34.333935</td> <td>-5.241360</td> <td>22.39912796020507</td> <td>1</td> <td>15125</td> <td>34.301089</td> <td>-5.225212</td> <td>22.73633193969726</td> </tr> </tbody> </table>											Visit	ID	RA	Dec	Magnitude	Visit	ID	RA	Dec	Magnitude	1	7479	34.291193	-5.251600	22.98357963562012	1	12500	34.316205	-5.234419	23.83184242248535	1	7886	34.329315	-5.249900	24.33840179443359	1	12592	34.314461	-5.234067	23.23563575744629	1	9617	34.325789	-5.243886	24.44020462036132	1	13768	34.323290	-5.230585	22.55040550231933	1	10399	34.333935	-5.241360	22.39912796020507	1	15125	34.301089	-5.225212	22.73633193969726
	Visit	ID	RA	Dec	Magnitude	Visit	ID	RA	Dec	Magnitude																																																			
	1	7479	34.291193	-5.251600	22.98357963562012	1	12500	34.316205	-5.234419	23.83184242248535																																																			
	1	7886	34.329315	-5.249900	24.33840179443359	1	12592	34.314461	-5.234067	23.23563575744629																																																			
	1	9617	34.325789	-5.243886	24.44020462036132	1	13768	34.323290	-5.230585	22.55040550231933																																																			
1	10399	34.333935	-5.241360	22.39912796020507	1	15125	34.301089	-5.225212	22.73633193969726																																																				
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	#	Confirmation Type	Conf. Readout Pattern	Conf. Groups/Int	Conf. Integrations/Exp	Conf. Total Integrations	Conf. Total Exposure Time																																																						
1	c1_edited_-2	NRSIRS2RAPID	2	1	1	43.767																																																							
Confirmation																																																													

Proposal 2565 - Observation 100 - HOW MANY QUIESCENT GALAXIES ARE THERE AT $3 < z < 4$ REALLY?

Spectral Elements	#	Exposure Specification	MSA Configuration	Nod Pattern	Pointing	Aperture PA	Dispersion Offset (Shutters)	Cross-Dispersion Offset (Shutters)	Total Dithers	Total Integrations	Total Exposure Time
	Special Requirements	1	1 (PRISM/CLEAR)	c1_edited_-2	5 Shutter Slitlet With Gaps	34.313541416666 666 Degrees - 5.2544224999999 76 Degrees	34.823090844504 485			3	3
MSA Scheduled Aperture PA 34.8318897 to 34.8318897 Degrees (V3 256.25732 to 256.25732)											

Proposal 2565 - Observation 200 - HOW MANY QUIESCENT GALAXIES ARE THERE AT 3<z<4 REALLY?

Wed Feb 22 17:03:11 GMT 2023

Observation	Proposal 2565, Observation 200: UDS ZFOURGE Set 20.1 Diagnostic Status: Error Observing Template: NIRSpec MultiObject Spectroscopy										
	(UDS ZFOURGE Set 20.1 (Obs 200)) Error (Form): This observation was created with an Aperture PA of 34.108 but it has been assigned an Aperture PA of 34.116 (Aperture PA) Error (Form): This observation was created with an Aperture PA of 34.108 but it has been assigned an Aperture PA of 34.116 (UDS ZFOURGE Set 20.1 (Obs 200)) Warning (Form): Config c1_edited_-2 (#1) has 1 filler slits affected by failed closed shutters. (UDS ZFOURGE Set 20.1 (Obs 200)) Warning (Form): Config c1_edited_-2 (#1) has 3 filler slit traces affected by failed open shutters. (Visit 200:1) Warning (Form): Overheads are provisional until the Visit Planner has been run. (Visit 200:1) Warning (Form): The recommended value is 8 Reference Stars for this template.										
Diagnostics											
Fixed Targets	#	Name	Target Coordinates			Targ. Coord. Corrections			Miscellaneous		
	(25)	UDS-THREEDHST-FINAL-V7-OBS200	RA: 02 17 5.7540 (34.2739750d)	Dec: -05 13 50.15 (-5.23060d)	Equinox: J2000						
<i>Comments: Description=[]</i>											
Acquisition	#	Reference Star Bin	Target	Filter	MSA Configuration	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
	1	Filter: F140X; Readout: NRSRAPID; 7 sources in 3 quads; [Optimal TA Accuracy]	SAME	F140X	Auto Acq MSA Config	NRSRAPID	3	1	4	171.788	
Template	TA Method	Obtain Confirmation Images	Science Aperture	Primary Candidate List	Filler Candidate List	Spectral Overlap Map	Spectral Overlap Threshold				
	MSATA	After Target ACQ and New MSA Config	MSA Center	qus obs 200 (5 sources)	fillers obs 200 (3877 sources)	qwst-nirspec-prism	1.5				
Reference Stars	Visit	ID	RA	Dec	Magnitude	Visit	ID	RA	Dec	Magnitude	
	1	8338	34.279737	-5.248819	21.95903396606445	1	19461	34.260064	-5.211872	22.02857208251953	
	1	11158	34.241577	-5.239915	21.11333274841308	1	20639	34.256221	-5.207929	21.03104972839355	
	1	12712	34.239834	-5.234175	22.84698104858398	1	21087	34.283192	-5.206047	22.9247589113281	
	1	19121	34.270877	-5.213140	22.05693244934082						
Confirmation	#	Confirmation Type	Conf. Readout Pattern	Conf. Groups/Int	Conf. Integrations/Exp	Conf. Total Integrations	Conf. Total Exposure Time				
	1	c1_edited_-2	NRSIRS2RAPID	2	1	1	43.767				

Proposal 2565 - Observation 200 - HOW MANY QUIESCENT GALAXIES ARE THERE AT $3 < z < 4$ REALLY?

Spectral Elements	#	Exposure Specification	MSA Configuration	Nod Pattern	Pointing	Aperture PA	Dispersion Offset (Shutters)	Cross-Dispersion Offset (Shutters)	Total Dithers	Total Integrations	Total Exposure Time
	Special Requirements	1	1 (PRISM/CLEAR)	c1_edited_-2	5 Shutter Slitlet With Gaps	34.271002375 Degrees - 5.2321274999999 9 Degrees	34.107769473493 23			3	3
MSA Scheduled Aperture PA 34.1157797 to 34.1157797 Degrees (V3 255.54121 to 255.54121)											

Proposal 2565 - Observation 300 - HOW MANY QUIESCENT GALAXIES ARE THERE AT 3<z<4 REALLY?

Wed Feb 22 17:03:11 GMT 2023

Observation	Proposal 2565, Observation 300: UDS THREEDHST 10.0 Diagnostic Status: Error Observing Template: NIRSspec MultiObject Spectroscopy										
	(UDS THREEDHST 10.0 (Obs 300)) Error (Form): This observation was created with an Aperture PA of 34.865 but it has been assigned an Aperture PA of 34.873 (Aperture PA) Error (Form): This observation was created with an Aperture PA of 34.865 but it has been assigned an Aperture PA of 34.873 (UDS THREEDHST 10.0 (Obs 300)) Warning (Form): Config c1_edited_-2 (#1) has 1 filler slit traces affected by failed open shutters. (UDS THREEDHST 10.0 (Obs 300)) Warning (Form): Config c1_edited_-2 (#1) has 1 filler slits affected by failed closed shutters. (UDS THREEDHST 10.0 (Obs 300)) Warning (Form): Config c1_edited_-2 (#1) has 1 primary slits affected by failed closed shutters. (Visit 300:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.										
Diagnostics											
Fixed Targets	#	Name	Target Coordinates			Targ. Coord. Corrections			Miscellaneous		
	(26)	UDS-THREEDHST-FINAL-V7-OBS300	RA: 02 17 57.7560 (34.4906500d) Dec: -05 09 49.14 (-5.16365d) Equinox: J2000								
<i>Comments: Description=[]</i>											
Acquisition	#	Reference Star Bin	Target	Filter	MSA Configuration	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
	1	Filter: F140X; Readout: NRSRAPIDD6; 8 sources in 4 quads; [Optimal TA Accuracy]	SAME	F140X	Auto Acq MSA Config	NRSRAPIDD6	3	1	4	687.153	
Template	TA Method		Obtain Confirmation Images		Science Aperture	Primary Candidate List	Filler Candidate List	Spectral Overlap Map		Spectral Overlap Threshold	
	MSATA		After Target ACQ and New MSA Config		MSA Center	qus obs 300 (4 sources)	fillers obs 300 (4575 sources)	jwst-nirspec-prism		1.5	
Reference Stars	Visit	ID	RA	Dec	Magnitude	Visit	ID	RA	Dec	Magnitude	
	1	30093	34.503410	-5.175050	24.40983581542969	1	40467	34.534970	-5.139340	22.32126235961914	
	1	31968	34.517060	-5.169340	22.85569572448730	1	40616	34.493690	-5.138360	24.43394660949707	
	1	34303	34.496120	-5.161030	24.02472496032715	1	42264	34.501370	-5.132650	24.45268249511719	
	1	35899	34.521270	-5.155400	23.06633186340332	1	43670	34.508360	-5.127260	24.33554267883301	
Confirmation	#	Confirmation Type		Conf. Readout Pattern	Conf. Groups/Int	Conf. Integrations/Exp		Conf. Total Integrations	Conf. Total Exposure Time		
	1	c1_edited_-2		NRSIRS2RAPID	2	1		1	43.767		

Proposal 2565 - Observation 300 - HOW MANY QUIESCENT GALAXIES ARE THERE AT $3 < z < 4$ REALLY?

Spectral Elements	#	Exposure Specification	MSA Configuration	Nod Pattern	Pointing	Aperture PA	Dispersion Offset (Shutters)	Cross-Dispersion Offset (Shutters)	Total Dithers	Total Integrations	Total Exposure Time
	Special Requirements	1	1 (PRISM/CLEAR)	c1_edited_-2	5 Shutter Slitlet With Gaps	34.505788958333 326 Degrees - 5.153300555555 75 Degrees	34.863351337546 46			3	3
MSA Scheduled Aperture PA 34.8729997 to 34.8729997 Degrees (V3 256.29843 to 256.29843)											

Proposal 2565 - Observation 7 - HOW MANY QUIESCENT GALAXIES ARE THERE AT 3<z<4 REALLY?

Wed Feb 22 17:03:11 GMT 2023

Observation	Proposal 2565, Observation 7: cosmos 7.6 Diagnostic Status: Warning Observing Template: NIRSpec MultiObject Spectroscopy										
	(cosmos 7.6 (Obs 7)) Warning (Form): Config c1 (#1) has 6 filler slit traces affected by failed open shutters. (Visit 7:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.										
Fixed Targets	#	Name	Target Coordinates		Targ. Coord. Corrections			Miscellaneous			
	(32)	COSMOS-ZFOURGE-FINAL-V2-OBS3	RA: 10 00 20.4212 (150.0850883d) Dec: +02 21 46.44 (2.36290d) Equinox: J2000								
<i>Comments: Description=[]</i>											
Acquisition	#	Reference Star Bin	Target	Filter	MSA Configuration	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
	1	Filter: F140X; Readout: NRSRAPIDD6; 8 sources in 4 quads; [Optimal TA Accuracy]	SAME	F140X	Auto Acq MSA Config	NRSRAPIDD6	3	1	4	687.153	
Template	TA Method	Obtain Confirmation Images	Science Aperture	Primary Candidate List	Filler Candidate List	Spectral Overlap Map	Spectral Overlap Threshold				
	MSATA	After Target ACQ	MSA Center	cosmos obs 7 primary (7 sources)	cosmos obs 7 fillers (1631 sources)	jwst-nirspec-prism	1.5				
Reference Stars	Visit	ID	RA	Dec	Magnitude	Visit	ID	RA	Dec	Magnitude	
	1	15105	150.073911	2.339351	22.40233039855957	1	16047	150.082145	2.349680	23.96220207214355	
	1	15475	150.112217	2.344431	24.63801956176757	1	17220	150.108246	2.361100	22.43066787719726	
	1	15562	150.103663	2.344885	24.23272323608398	1	19807	150.103431	2.379874	24.40796852111816	
	1	15820	150.085392	2.347933	24.76602935791016	1	20642	150.063134	2.373213	24.35765647888184	
Confirmation	#	Confirmation Type	Conf. Readout Pattern	Conf. Groups/Int	Conf. Integrations/Exp	Conf. Total Integrations	Conf. Total Exposure Time				
	1	After Target Acq	NRSIRS2RAPID	2	1	1	43.767				

Proposal 2565 - Observation 7 - HOW MANY QUIESCENT GALAXIES ARE THERE AT $3 < z < 4$ REALLY?

Spectral Elements	#	Exposure Specification	MSA Configuration	Nod Pattern	Pointing	Aperture PA	Dispersion Offset (Shutters)	Cross-Dispersion Offset (Shutters)	Total Dithers	Total Integrations	Total Exposure Time
	Special Requirements	1	1 (PRISM/CLEAR)	c1	5 Shutter Slitlet With Gaps	150.08781570833 335 Degrees 2.366374444444 443 Degrees	71.518841029038 16			3	3
MSA Scheduled Aperture PA 71.5187197 to 71.5187197 Degrees (V3 292.94415 to 292.94415)											

Proposal 2565 - Observation 301 - HOW MANY QUIESCENT GALAXIES ARE THERE AT 3<z<4 REALLY?

Wed Feb 22 17:03:11 GMT 2023

Observation	Proposal 2565, Observation 301: COSMOS obs 1.31 Diagnostic Status: Warning Observing Template: NIRSpec MultiObject Spectroscopy										
	(COSMOS obs 1.31 (Obs 301)) Warning (Form): Config c1 (#1) has 3 master background shutters affected by failed open or closed shutters. (Visit 301:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.										
Fixed Targets	#	Name	Target Coordinates		Targ. Coord. Corrections			Miscellaneous			
	(29)	COSMOS-ZFOURGE-FINAL-V1-OBS1	RA: 10 00 22.3644 (150.0931850d) Dec: +02 17 8.09 (2.28558d) Equinox: J2000								
<i>Comments: Description=[]</i>											
Acquisition	#	Reference Star Bin	Target	Filter	MSA Configuration	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
	1	Filter: F110W; Readout: NRSRAPIDD6; 8 sources in 3 quads; [Optimal TA Accuracy]	SAME	F110W	Auto Acq MSA Config	NRSRAPIDD6	3	1	4	687.153	
Template	TA Method	Obtain Confirmation Images	Science Aperture	Primary Candidate List	Filler Candidate List	Spectral Overlap Map	Spectral Overlap Threshold				
	MSATA	After Target ACQ and New MSA Config	MSA Center	cosmos obs 1 primary (1 sources)	cosmos obs 1 fillers (1751 sources)	jwst-nirspec-prism	1.5				
Reference Stars	Visit	ID	RA	Dec	Magnitude	Visit	ID	RA	Dec	Magnitude	
	1	7363	150.089706	2.253497	21.763103485107425	1	11179	150.100490	2.298164	22.618505477905277	
	1	8102	150.089626	2.263479	22.04669189453125	1	11354	150.100673	2.299180	21.922718048095703	
	1	8174	150.075981	2.264275	23.22645568847656	1	11700	150.074231	2.302779	21.48182678222656	
	1	8972	150.083481	2.272644	23.382665634155277	1	12180	150.110817	2.308429	23.109203338623047	
Confirmation	#	Confirmation Type	Conf. Readout Pattern	Conf. Groups/Int	Conf. Integrations/Exp	Conf. Total Integrations	Conf. Total Exposure Time				
	1	c1	NRSIRS2RAPID	2	1	1	43.767				

Proposal 2565 - Observation 301 - HOW MANY QUIESCENT GALAXIES ARE THERE AT $3 < z < 4$ REALLY?

Spectral Elements	#	Exposure Specification	MSA Configuration	Nod Pattern	Pointing	Aperture PA	Dispersion Offset (Shutters)	Cross-Dispersion Offset (Shutters)	Total Dithers	Total Integrations	Total Exposure Time
	Special Requirements	1	1 (PRISM/CLEAR)	c1	5 Shutter Slitlet With Gaps	150.0919980000 002 Degrees 2.283308055555 556 Degrees	246.46258162913 026			3	3
MSA Scheduled Aperture PA 246.4626237 to 246.4626237 Degrees (V3 107.888054 to 107.888054)											

Proposal 2565 - Observation 6 - HOW MANY QUIESCENT GALAXIES ARE THERE AT $3 < z < 4$ REALLY?

Wed Feb 22 17:03:11 GMT 2023

Observation	Proposal 2565, Observation 6: EGS v2.89 Diagnostic Status: Warning Observing Template: NIRSpec MultiObject Spectroscopy										
	(EGS v2.89 (Obs 6)) Warning (Form): Config c1 (#1) has 1 filler slit traces affected by failed open shutters. (EGS v2.89 (Obs 6)) Warning (Form): Config c1 (#1) has 2 primary slit traces affected by failed open shutters. (EGS v2.89 (Obs 6)) Warning (Form): Config c1 (#1) has 4 master background shutters affected by failed open or closed shutters. (Visit 6:1) Warning (Form): Overheads are provisional until the Visit Planner has been run. (Visit 6:1) Warning (Form): The recommended value is 8 Reference Stars for this template.										
Diagnosics											
Fixed Targets	#	Name	Target Coordinates			Targ. Coord. Corrections			Miscellaneous		
	(47)	EGS-THREEDHST-FINAL-V2.80	RA: 14 19 24.3958 (214.8516492d) Dec: +52 51 9.04 (52.85251d) Equinox: J2000								
<i>Comments:</i> Description=[]											
Acquisition	#	Reference Star Bin	Target	Filter	MSA Configuration	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
	1	Filter: CLEAR; Readout: NRSRAPIDD6; 7 sources in 3 quads; [Optimal TA Accuracy]	SAME	CLEAR	Auto Acq MSA Config	NRSRAPIDD6	3	1	4	687.153	
Template	TA Method	Obtain Confirmation Images	Science Aperture	Primary Candidate List		Filler Candidate List		Spectral Overlap Map	Spectral Overlap Threshold		
	MSATA	After Target ACQ and New MSA Config	MSA Center	S18 QU + Gabe + Karl (148 sources)		Fillers (13404 sources)		jwst-nirspec-prism	1.5		
Reference Stars	Visit	ID	RA	Dec	Magnitude	Visit	ID	RA	Dec	Magnitude	
	1	16560	214.863104	52.824240	25.08852386	1	29848	214.864032	52.877408	24.39712524	
	1	17096	214.862529	52.825831	24.63321877	1	32173	214.823373	52.857424	23.63560295	
	1	25584	214.888241	52.878069	25.20037842	1	33630	214.815922	52.858261	25.34873199	
	1	26116	214.896461	52.886124	25.41703606						
Confirmation	#	Confirmation Type	Conf. Readout Pattern	Conf. Groups/Int	Conf. Integrations/Exp	Conf. Total Integrations	Conf. Total Exposure Time				
	1	c1	NRSIRS2RAPID	2	1	1	43.767				

Proposal 2565 - Observation 6 - HOW MANY QUIESCENT GALAXIES ARE THERE AT $3 < z < 4$ REALLY?

Spectral Elements	#	Exposure Specification	MSA Configuration	Nod Pattern	Pointing	Aperture PA	Dispersion Offset (Shutters)	Cross-Dispersion Offset (Shutters)	Total Dithers	Total Integrations	Total Exposure Time
Special Requirements	1	1 (PRISM/CLEAR)	c1	5 Shutter Slitlet With Gaps	214.87053108333 333 Degrees 52.854836666666 67 Degrees	331.83393883056 31		3	3	3	2013.267
	MSA Scheduled Aperture PA 331.8189097 to 331.8189097 Degrees (V3 193.24434 to 193.24434)										