



## 2758 - NIRSpec MSA observations of galaxies in a parallel field

Cycle: 2, Proposal Category: GTO

### INVESTIGATORS

<i>Name</i>	<i>Institution</i>
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### OBSERVATIONS

<i>Folder</i>	<i>Observation</i>	<i>Label</i>	<i>Observing Template</i>	<i>Science Target</i>
Observation Folder				
	21	G235M-G395M-v10-5	NIRSpec MultiObject Spectroscopy	(5) TM_M1149PAR_v10_fin

### ABSTRACT

The overall goal of this investigation is to study the formation and evolution of early type galaxies and their relation to their star forming progenitors. This is accomplished by obtaining NIRCcam imaging data and NIRSpec multiobject MSA spectroscopy of a sample of both early and late type galaxies to determine their metallicity and, when possible, metal abundance ratios and correlate them with other global galaxy properties. The target field will be the parallel NIRCcam field to the Frontier Fields cluster MACS 1149.5+2223 MSA observations we obtained during Cycle 1.

### OBSERVING DESCRIPTION

The MSA targets will be chosen once the Cycle 1 observations for GTO 1199 will be carried out as this proposal targets the NIRCcam parallel field to that proposal.

[Feb 23, 2024]

In finalizing the MSA masks, we noticed that good stars are not available in the field for the given PA/position. As such, we included two compact galaxies that are within magnitude range of 23-25ABmag for our MSATA. MSA shutters were manually opened for two additional acquisition stars.

[Mar 25, 2024]

MSATA TA includes 8 sources. There is no manually open shutter for MSATA this time. Master background check box is on for MSATA and science observations.

Proposal 2758 - Targets - NIRSpec MSA observations of galaxies in a parallel field

#	Name	Target Coordinates	Targ. Coord. Corrections	Miscellaneous
(1)	TM_M1149PAR_v6_fin	RA: 11 49 47.8783 (177.4494929d) Dec: +22 30 1.78 (22.50049d) Equinox: J2000		
<i>Comments:</i> <i>Description=[]</i>				
(2)	TM_M1149PAR_v7_fin	RA: 11 49 47.8783 (177.4494929d) Dec: +22 30 3.10 (22.50086d) Equinox: J2000		
<i>Comments:</i> <i>Description=[]</i>				
(3)	TM_M1149PAR_v8_fin	RA: 11 49 47.8272 (177.4492800d) Dec: +22 30 3.10 (22.50086d) Equinox: J2000		
<i>Comments:</i> <i>Description=[]</i>				
(4)	TM_M1149PAR_v9_fin	RA: 11 49 47.7502 (177.4489592d) Dec: +22 30 0.01 (22.50000d) Equinox: J2000		
<i>Comments:</i> <i>Description=[]</i>				
(5)	TM_M1149PAR_v10_fin	RA: 11 49 47.7173 (177.4488221d) Dec: +22 30 0.01 (22.50000d) Equinox: J2000		
<i>Comments:</i> <i>Description=[]</i>				

Fixed Targets

Proposal 2758 - Observation 21 - NIRSpec MSA observations of galaxies in a parallel field

Wed Mar 27 15:00:34 GMT 2024

<b>Observation</b>	<b>Proposal 2758, Observation 21: G235M-G395M-v10-5</b> <b>Diagnostic Status: Warning</b> Observing Template: NIRSpec MultiObject Spectroscopy										
	(Visit 21:1) Warning (Form): Overheads are provisional until the Visit Planner has been run. (Visit 21:1) Warning (Form): The recommended value is 8 Reference Stars for this template.										
<b>Fixed Targets</b>	<b>#</b>	<b>Name</b>	<b>Target Coordinates</b>			<b>Targ. Coord. Corrections</b>			<b>Miscellaneous</b>		
	(5)	TM_M1149PAR_v10_fin	RA: 11 49 47.7173 (177.4488221d) Dec: +22 30 0.01 (22.50000d) Equinox: J2000								
<i>Comments:</i> Description=[]											
<b>Acquisition</b>	<b>#</b>	<b>Reference Star Bin</b>	<b>Target</b>	<b>Filter</b>	<b>MSA Configuration</b>	<b>Readout Pattern</b>	<b>Groups/Int</b>	<b>Integrations/Exp</b>	<b>Total Integrations</b>	<b>Total Exposure Time</b>	<b>ETC Wkbk.Calc ID</b>
	1		SAME	CLEAR	Auto Acq MSA Config	NRSRAPIDD6	3	1	4	687.153	
		Filter: CLEAR; Readout: NRSRAPIDD6; 7 sources in 3 quads; [ Reduced Accuracy ]									
<b>Template</b>	<b>TA Method</b>	<b>Obtain Confirmation Images</b>	<b>Science Aperture</b>	<b>Primary Candidate List</b>	<b>Filler Candidate List</b>	<b>Spectral Overlap Map</b>	<b>Spectral Overlap Threshold</b>				
	MSATA	No	MSA Center	TM_M1149PAR_v10_fin (874 sources)		jwst-nirspec-mr	1.5				
<b>Reference Stars</b>	<b>Visit</b>	<b>ID</b>	<b>RA</b>	<b>Dec</b>	<b>Magnitude</b>	<b>Visit</b>	<b>ID</b>	<b>RA</b>	<b>Dec</b>	<b>Magnitude</b>	
	1	310000	177.468307	22.501944	23.12	1	320037	177.428497	22.465460	25.17	
	1	310005	177.439056	22.459248	24.75	1	320052	177.448639	22.468168	24.16	
	1	320015	177.468155	22.515732	24.81	1	340182	177.444336	22.494158	23.55	
	1	320022	177.479156	22.517506	25.27						

Proposal 2758 - Observation 21 - NIRSpec MSA observations of galaxies in a parallel field

	#	Exposure Specification	MSA Configuration	Nod Pattern	Pointing	Aperture PA	Dispersion Offset (Shutters)	Cross-Dispersion Offset (Shutters)	Total Dithers	Total Integrations	Total Exposure Time
<b>Spectral Elements</b>	1	1 (G235M/F170LP)	msa-config-v10	3 Shutter Slitlet	177.45326462499 997 Degrees 22.488496111111 11 Degrees	264.08831482092 58			3	12	16806.401
	2	1 (G235M/F170LP)	msa-config-v10	3 Shutter Slitlet	177.45326462499 997 Degrees 22.488496111111 11 Degrees	264.08831482092 58			3	12	16806.401
	3	2 (G395M/F290LP)	msa-config-v10	3 Shutter Slitlet	177.45326462499 997 Degrees 22.488496111111 11 Degrees	264.08831482092 58			3	12	16806.401
	4	2 (G395M/F290LP)	msa-config-v10	3 Shutter Slitlet	177.45326462499 997 Degrees 22.488496111111 11 Degrees	264.08831482092 58			3	12	16806.401
<b>Special Requirements</b>	MSA Scheduled Aperture PA 264.0866 to 264.0866 Degrees (V3 125.512054 to 125.512054)										