



7935 - Efficient Measurement of the Emergence Rate of AGN in Legacy Deep Field

Cycle: 4, Proposal Category: GO

INVESTIGATORS

<i>Name</i>	<i>Institution</i>
Dr. Fengwu Sun (PI)	Harvard University
Ms. Xiaojing Lin (CoI) (CoPI) (Contact)	Tsinghua University
Prof. Santiago Arribas (CoI) (ESA Member)	Consejo Superior de Investigaciones Cientificas
Ms. Rachana Bhatawdekar (CoI) (ESA Member)	ESA, European Space Astronomy Centre
Prof. Andrew Bunker (CoI) (ESA Member)	University of Oxford
Prof. Stefano Carniani (CoI) (ESA Member)	Scuola Normale Superiore, Pisa
Dr. Stephane Charlot (CoI) (ESA Member)	CNRS, Institut d'Astrophysique de Paris
Dr. Mirko Curti (CoI) (ESA Member)	INAF - Astrophysics and Space Science Observatory
Dr. Emma Curtis-Lake (CoI) (ESA Member)	University of Hertfordshire
Dr. Eiichi Egami (CoI)	University of Arizona
Dr. Daniel J. Eisenstein (CoI)	Harvard University
Ms. Lola Danhaive (CoI) (ESA Member)	University of Cambridge
Prof. Xiaohui Fan (CoI)	University of Arizona
Dr. Kevin Hainline (CoI)	University of Arizona
Dr. Jakob Helton (CoI)	The Pennsylvania State University
Dr. Zhiyuan Ji (CoI)	University of Arizona
Dr. Xiangyu Jin (CoI)	University of Michigan
Dr. Nimisha Kumari (CoI) (ESA Member)	Space Telescope Science Institute - ESA - JWST
Isaac Laseter (CoI)	University of Wisconsin - Madison
Weizhe Liu (CoI)	University of Arizona
Dr. Jianwei Lyu (CoI)	University of Arizona
Prof. Roberto Maiolino (CoI) (ESA Member)	University of Cambridge
Dr. Marcia J. Rieke (CoI)	University of Arizona

<i>Name</i>	<i>Institution</i>
Dr. Pierluigi Rinaldi (CoI)	Space Telescope Science Institute
Prof. Brant Robertson (CoI)	University of California - Santa Cruz
Dr. Jan Scholtz (CoI) (ESA Member)	University of Cambridge, Kavli Institute for Cosmology
Dr. Sandro Tacchella (CoI) (ESA Member)	University of Cambridge
Dr. Hannah Uebler (CoI) (ESA Member)	Max Planck Institute for Extraterrestrial Physics
Dr. Christopher Nicholas Andrew Willmer (CoI)	University of Arizona
Dr. Chris J. Willott (CoI) (CSA Member)	NRC Herzberg Institute of Astrophysics
Dr. Joris Witstok (CoI) (ESA Member)	Cosmic Dawn Center, Niels Bohr Institute
Dr. Yunjing Wu (CoI)	University of Arizona
Dr. Haowen Zhang (CoI) (CSA Member)	Canadian Institute for Theoretical Astrophysics
Mr. Junyu Zhang (CoI)	University of Arizona
Dr. Yongda Zhu (CoI)	University of Arizona

OBSERVATIONS

<i>Folder</i>	<i>Observation</i>	<i>Label</i>	<i>Observing Template</i>	<i>Science Target</i>
Observation Folder				
	1	PA320-ptg-1-v3	NIRSpec MultiObject Spectroscopy	(21) emerald_gdn_tgt_ptg_1-v3
	2	PA320-ptg-2-v5	NIRSpec MultiObject Spectroscopy	(22) emerald_gdn_tgt_ptg_2-v3
	3	PA320-ptg-3-v3	NIRSpec MultiObject Spectroscopy	(23) emerald_gdn_tgt_ptg_3-v3
	4	PA320-ptg-4-v3	NIRSpec MultiObject Spectroscopy	(24) emerald_gdn_tgt_ptg_4-v3
	5	PA320-ptg-5-v3	NIRSpec MultiObject Spectroscopy	(25) emerald_gdn_tgt_ptg_5-v3
	6	PA320-ptg-6-v3	NIRSpec MultiObject Spectroscopy	(26) emerald_gdn_tgt_ptg_6-v3

ABSTRACT

Despite a large number of AGN found by JWST at $z > 4$, we still do not have a clear answer on the fraction of galaxies hosting active nuclei at this epoch. To enhance the completeness and accuracy in AGN selection, we propose a highly efficient NIRSpec MSA survey in the GOODS-N field. By targeting star-formation-rate (SFR)-selected galaxies with secure redshifts from previous NIRCам WFSS surveys at 3-5 μm , we will obtain highly multiplexed NIRSpec G395M/F290LP spectroscopy of 842 galaxies with just 6 MSA configurations, all of which are at $z = 4-9$. We will determine the broad-line AGN fraction among galaxies with diverse SFR (1-50 $\text{M}_{\odot}/\text{yr}$) and large-scale environment (over/underdensity) with 1% accuracy. We will also characterize other key diagnostics of AGN including BPT diagram, high-ionization lines and mid-infrared spectral energy distribution through joint analyses with the rich archival dataset in this legacy deep field.

In addition to AGN investigations, our survey will also produce a large library of deep rest-optical spectra of galaxies around Epoch of Reionization. This will enhance the metallicity calibration accuracy of high-redshift galaxies through direct-Te method, and also characterize galaxy growth and metal enrichment history as a function of environment. To further enhance the legacy value of this survey, we plan to release the fully processed spectra and value-added catalogs timely to the community.

OBSERVING DESCRIPTION

FS, 2026 Feb 01:

We replan all observations to (1) use the most up-to-date MSA operability map; (2) refine the MSATA star catalog; (3) include oddball targets for science of interests. ID's are JADES NIRCам ID (<https://archive.stsci.edu/hlsp/jades>), subtracted by 1e6 to comply with NIRSpec MPT ID recommendation ($ID < 1e6$).

Original description at the time of submission

We will conduct NIRSpec MOS observations using the G395M/F290LP grating/filter, to obtain $R \sim 1000$ spectroscopy of $N=842$ galaxies at $z=4-9$ in the GOODS-N fields at 2.8-5.1 μm .

All of our targets have been pre-imaged by NIRCам and spectroscopically confirmed with Cycle-1/2 NIRCам wide-field slitless spectroscopy program FRESCO (GO-1895) and CONGRESS (GO-3577) through the detection of either H α or [OIII] 5007 lines, and the redshift uncertainty is typically $dz = 0.001$. Because the redshifts are known precisely for all targets, the expected positions of weak emission lines on NIRSpec detectors are known from the MSA configurations. Therefore, we allow a high spectral overlapping ($\sim 3\times$ per pixel on average) to maximize the efficiency of NIRSpec MSA by observing ~ 140 emission-line galaxies per configurations.

We will use the NRSIRS2 readout mode for better readout noise performance. With 3-shutter dithering, we will obtain 5 exposures $\times$ 16 groups of readout. The on-source exposure time per MSA pointing is 4.9 hours. We estimate typical 5-sigma sensitivity limits of 4×10^{-19} and 8×10^{-19} erg/s/cm 2 for narrow (unresolved) and broad (FWHM=1000km/s) emission lines, respectively.

JWST Proposal 7935 (Created: Friday, February 27, 2026, 5:01:01PM Eastern Standard Time) - Overview

We have designed six MSA configurations in the targeted fields (GOODS-N). The positional angles (PAs) of our NIRSpec MSA pointings have been fixed to maximize the coverage of the two GOODS fields and therefore the total number of $z=4-9$ galaxies with shutter assignment. To achieve this, we request aperture PA = 320 deg. We have confirmed that all observations are schedulable within 11-day window. The sky background condition will be optimized and there will be no usage of micrometeorite avoidance zone.

Proposal 7935 - Targets - Efficient Measurement of the Emergence Rate of AGN in Legacy Deep Field

Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Miscellaneous
	(21)	emerald_gdn_tgt_ptg_1-v3	RA: 12 36 49.4916 (189.2062150d) Dec: +62 16 25.64 (62.27379d) Equinox: J2000		
	Comments: Description=[]				
	(22)	emerald_gdn_tgt_ptg_2-v3	RA: 12 37 3.5933 (189.2649721d) Dec: +62 14 54.27 (62.24841d) Equinox: J2000		
	Comments: Description=[]				
	(23)	emerald_gdn_tgt_ptg_3-v3	RA: 12 36 26.3035 (189.1095979d) Dec: +62 14 28.38 (62.24122d) Equinox: J2000		
	Comments: Description=[]				
	(24)	emerald_gdn_tgt_ptg_4-v3	RA: 12 36 42.7843 (189.1782679d) Dec: +62 12 38.33 (62.21065d) Equinox: J2000		
	Comments: Description=[]				
	(25)	emerald_gdn_tgt_ptg_5-v3	RA: 12 36 47.9273 (189.1996971d) Dec: +62 12 41.91 (62.21164d) Equinox: J2000		
	Comments: Description=[]				
	(26)	emerald_gdn_tgt_ptg_6-v3	RA: 12 36 32.7022 (189.1362592d) Dec: +62 15 19.20 (62.25533d) Equinox: J2000		
	Comments: Description=[]				

Proposal 7935 - Observation 1 - Efficient Measurement of the Emergence Rate of AGN in Legacy Deep Field

Observation	Proposal 7935, Observation 1: PA320-ptg-1-v3											Fri Feb 27 22:01:01 GMT 2026
	Diagnostic Status: Warning											
Observing Template: NIRSpec MultiObject Spectroscopy												
Diagnostics	(PA320-ptg-1-v3 (Obs 1)) Warning (Form): Config c1 (#1) has 1 primary slits affected by failed closed shutters.											
	(PA320-ptg-1-v3 (Obs 1)) Warning (Form): Config c1 (#2) has 1 primary slits affected by failed closed 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			
	(21)	emerald_gdn_tgt_ptg_1-v3	RA: 12 36 49.4916 (189.2062150d) Dec: +62 16 25.64 (62.27379d) Equinox: J2000									
	Comments: Description=[]											
Acquisition	#	Reference Star Bin	Target	Filter	MSA Configuration	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Exposure Time	Optional ETC ID	
	1	Filter: CLEAR; Readout: NRSRAPIDD6; 8 sources in 4 quads; [Optimal TA Accuracy]	SAME	CLEAR	Auto Acq MSA Config	NRSRAPIDD6	3	1	4	687.153		
Template	TA Method	HFF Readout Mode	Obtain Confirmation Images	Science Aperture	Primary Candidate List	Filler Candidate List	Spectral Overlap Map	Spectral Overlap Threshold				
	MSATA	false	No	MSA Center	sci-1 (553 sources)		jwst-nirspec-mr	1.5				
Reference Stars	Visit	ID	RA	Dec	Magnitude	Visit	ID	RA	Dec	Magnitude		
	1	11024	189.206716	62.260612	24.26	1	90483	189.287348	62.284451	23.88		
	1	17392	189.164529	62.283311	24.53	1	91301	189.201336	62.302582	23.88		
	1	89873	189.260893	62.276092	23.93	1	91358	189.213592	62.304129	24.34		
	1	90142	189.272866	62.279240	23.73	1	91636	189.200723	62.311937	24.0		
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	
	1	1 (G395M/F290LP)	c1	3 Shutter Slitlet	189.21822033333 333 Degrees 62.28291722222 224 Degrees	320.01061634750 636			3	6	7527.867	
	2	2 (G395M/F290LP)	c1	3 Shutter Slitlet	189.21822033333 333 Degrees 62.28291722222 224 Degrees	320.01061634750 636			3	6	7527.867	

Proposal 7935 - Observation 1 - Efficient Measurement of the Emergence Rate of AGN in Legacy Deep Field

Special Requirements	Aperture PA Range 319.999 to 320.001 Degrees (V3 181.4244303 to 181.4264303) MSA Scheduled Aperture PA 320.0000 to 320.0000 Degrees (V3 181.42543 to 181.42543)
----------------------	--

Proposal 7935 - Observation 2 - Efficient Measurement of the Emergence Rate of AGN in Legacy Deep Field

Observation	Proposal 7935, Observation 2: PA320-ptg-2-v5											Fri Feb 27 22:01:01 GMT 2026
	Diagnostic Status: Warning											
	Observing Template: NIRSpec MultiObject Spectroscopy											
Diagnostics	(PA320-ptg-2-v5 (Obs 2)) Warning (Form): Config c1 (#1) has 2 filler slits affected by failed closed shutters.											
	(PA320-ptg-2-v5 (Obs 2)) Warning (Form): Config c1 (#1) has 2 primary slits affected by failed closed shutters.											
	(PA320-ptg-2-v5 (Obs 2)) Warning (Form): Config c1 (#2) has 2 filler slits affected by failed closed shutters.											
	(PA320-ptg-2-v5 (Obs 2)) Warning (Form): Config c1 (#2) has 2 primary 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		
	(22)	emerald_gdn_tgt_ptg_2-v3	RA: 12 37 3.5933 (189.2649721d) Dec: +62 14 54.27 (62.24841d) Equinox: J2000									
	Comments: Description=[]											
Acquisition	#	Reference Star Bin	Target	Filter	MSA Configuration	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Exposure Time	Optional ETC ID	
	1	Filter: CLEAR; Readout: NRSRAPIDD6; 8 sources in 4 quads; [Optimal TA Accuracy]	SAME	CLEAR	Auto Acq MSA Config	NRSRAPIDD6	3	1	4	687.153		
Template	TA Method	HFF Readout Mode		Obtain Confirmation Images		Science Aperture	Primary Candidate List		Filler Candidate List		Spectral Overlap Map	Spectral Overlap Threshold
	MSATA	false		No		MSA Center	sci-2 (469 sources)		sci-2 (469 sources)		jwst-nirspec-mr	1.5
Reference Stars	Visit	ID	RA	Dec	Magnitude	Visit	ID	RA	Dec	Magnitude		
	1	6654	189.235209	62.245163	24.13	1	87451	189.361455	62.248070	23.99		
	1	27427	189.230829	62.246833	25.1	1	88326	189.256276	62.257832	25.09		
	1	64824	189.299071	62.227455	25.16	1	88525	189.344101	62.260000	24.76		
	1	82239	189.296347	62.227338	23.89	1	90483	189.287348	62.284451	23.88		
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	
	1	1 (G395M/F290LP)	c1	3 Shutter Slitlet	189.29309716666 668 Degrees 62.24966 Degrees	320.02486295838 47			3	6	7527.867	
	2	2 (G395M/F290LP)	c1	3 Shutter Slitlet	189.29309716666 668 Degrees 62.24966 Degrees	320.02486295838 47			3	6	7527.867	

Proposal 7935 - Observation 2 - Efficient Measurement of the Emergence Rate of AGN in Legacy Deep Field

Special Requirements	Aperture PA Range 319.999 to 320.001 Degrees (V3 181.4244303 to 181.4264303) MSA Scheduled Aperture PA 320.0000 to 320.0000 Degrees (V3 181.42543 to 181.42543)
----------------------	--

Proposal 7935 - Observation 3 - Efficient Measurement of the Emergence Rate of AGN in Legacy Deep Field

Observation	Proposal 7935, Observation 3: PA320-ptg-3-v3											Fri Feb 27 22:01:01 GMT 2026
	Diagnostic Status: Warning											
	Observing Template: NIRSpect MultiObject Spectroscopy											
Diagnostics	(PA320-ptg-3-v3 (Obs 3)) Warning (Form): Config c1 (#1) has 1 filler slits affected by failed closed shutters.											
	(PA320-ptg-3-v3 (Obs 3)) Warning (Form): Config c1 (#2) has 1 filler slits affected by failed closed shutters.											
	(Visit 3:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.											
Fixed Targets	#	Name	Target Coordinates				Targ. Coord. Corrections			Miscellaneous		
	(23)	emerald_gdn_tgt_ptg_3-v3	RA: 12 36 26.3035 (189.1095979d) Dec: +62 14 28.38 (62.24122d) Equinox: J2000									
	Comments: Description=[]											
Acquisition	#	Reference Star Bin	Target	Filter	MSA Configuration	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Exposure Time	Optional ETC ID	
	1	Filter: CLEAR; Readout: NRSRAPIDD6; 8 sources in 3 quads; [Optimal TA Accuracy]	SAME	CLEAR	Auto Acq MSA Config	NRSRAPIDD6	3	1	4	687.153		
Template	TA Method	HFF Readout Mode	Obtain Confirmation Images	Science Aperture	Primary Candidate List	Filler Candidate List	Spectral Overlap Map	Spectral Overlap Threshold				
	MSATA	false	No	MSA Center	sci-3-key (7 sources)	sci-3 (540 sources)	jwst-nirspec-mr	1.5				
Reference Stars	Visit	ID	RA	Dec	Magnitude	Visit	ID	RA	Dec	Magnitude		
	1	5554	189.148059	62.241987	24.23	1	27195	189.056050	62.244988	24.63		
	1	6059	189.133418	62.243516	24.33	1	27887	189.150286	62.249730	24.76		
	1	6455	189.027209	62.244500	23.64	1	86061	189.094090	62.218366	24.36		
	1	26265	189.139586	62.238361	24.58	1	94155	189.042073	62.257097	23.95		
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	
	1	1 (G395M/F290LP)	c1	3 Shutter Slitlet	189.09280679166 665 Degrees 62.241414166666 665 Degrees	319.98515712105 865			3	6	7527.867	
	2	2 (G395M/F290LP)	c1	3 Shutter Slitlet	189.09280679166 665 Degrees 62.241414166666 665 Degrees	319.98515712105 865			3	6	7527.867	

Proposal 7935 - Observation 3 - Efficient Measurement of the Emergence Rate of AGN in Legacy Deep Field

Special Requirements	Aperture PA Range 319.999 to 320.001 Degrees (V3 181.4244303 to 181.4264303) MSA Scheduled Aperture PA 320.0000 to 320.0000 Degrees (V3 181.42543 to 181.42543)
----------------------	--

Proposal 7935 - Observation 4 - Efficient Measurement of the Emergence Rate of AGN in Legacy Deep Field

Observation	Proposal 7935, Observation 4: PA320-ptg-4-v3											Fri Feb 27 22:01:01 GMT 2026
	Diagnostic Status: Warning											
	Observing Template: NIRSpec MultiObject Spectroscopy											
Diagnostics	(PA320-ptg-4-v3 (Obs 4)) Warning (Form): Config c1 (#1) has 1 primary slits affected by failed closed shutters.											
	(PA320-ptg-4-v3 (Obs 4)) Warning (Form): Config c1 (#2) has 1 primary slits affected by failed closed shutters.											
	(Visit 4:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.											
Fixed Targets	#	Name	Target Coordinates			Targ. Coord. Corrections			Miscellaneous			
	(24)	emerald_gdn_tgt_ptg_4-v3	RA: 12 36 42.7843 (189.1782679d) Dec: +62 12 38.33 (62.21065d) Equinox: J2000									
	Comments: Description=[]											
Acquisition	#	Reference Star Bin	Target	Filter	MSA Configuration	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Exposure Time	Optional ETC ID	
	1	Filter: CLEAR; Readout: NRSRAPIDD6; 8 sources in 3 quads; [Optimal TA Accuracy]	SAME	CLEAR	Auto Acq MSA Config	NRSRAPIDD6	3	1	4	687.153		
Template	TA Method	HFF Readout Mode	Obtain Confirmation Images	Science Aperture	Primary Candidate List	Filler Candidate List	Spectral Overlap Map	Spectral Overlap Threshold				
	MSATA	false	No	MSA Center	sci-4 (619 sources)		jwst-nirspec-mr	1.5				
Reference Stars	Visit	ID	RA	Dec	Magnitude	Visit	ID	RA	Dec	Magnitude		
	1	24921	189.175374	62.225393	24.98	1	85211	189.112233	62.194791	23.77		
	1	62573	189.170084	62.219213	24.34	1	85548	189.134396	62.204405	25.08		
	1	77658	189.205600	62.198625	23.53	1	92724	189.120028	62.194468	24.75		
	1	78084	189.220456	62.200865	24.54	1	92962	189.109463	62.210837	24.76		
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	
	1	1 (G395M/F290LP)	c1	3 Shutter Slitlet	189.16507741666 666 Degrees 62.20360888888 894 Degrees	319.98834357854 605			3	6	7527.867	
	2	2 (G395M/F290LP)	c1	3 Shutter Slitlet	189.16507741666 666 Degrees 62.20360888888 894 Degrees	319.98834357854 605			3	6	7527.867	

Proposal 7935 - Observation 4 - Efficient Measurement of the Emergence Rate of AGN in Legacy Deep Field

Special Requirements	Aperture PA Range 319.999 to 320.001 Degrees (V3 181.4244303 to 181.4264303) MSA Scheduled Aperture PA 320.0000 to 320.0000 Degrees (V3 181.42543 to 181.42543)
----------------------	--

Proposal 7935 - Observation 5 - Efficient Measurement of the Emergence Rate of AGN in Legacy Deep Field

Observation	Proposal 7935, Observation 5: PA320-ptg-5-v3											Fri Feb 27 22:01:01 GMT 2026
	Diagnostic Status: Warning											
	Observing Template: NIRSpect MultiObject Spectroscopy											
Diagnostics	(PA320-ptg-5-v3 (Obs 5)) Warning (Form): Config c1 (#1) has 3 primary slits affected by failed closed shutters.											
	(PA320-ptg-5-v3 (Obs 5)) Warning (Form): Config c1 (#2) has 3 primary slits affected by failed closed shutters.											
	(Visit 5:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.											
Fixed Targets	#	Name		Target Coordinates		Targ. Coord. Corrections			Miscellaneous			
	(25)	emerald_gdn_tgt_ptg_5-v3		RA: 12 36 47.9273 (189.1996971d)								
			Dec: +62 12 41.91 (62.21164d)									
	Equinox: J2000											
	Comments: Description=[]											
Acquisition	#	Reference Star Bin	Target	Filter	MSA Configuration	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Exposure Time	Optional ETC ID	
	1	Filter: CLEAR; Readout: NRSRAPIDD6; 8 sources in 4 quads; [Optimal TA Accuracy]	SAME	CLEAR	Auto Acq MSA Config	NRSRAPIDD6	3	1	4	687.153		
Template	TA Method	HFF Readout Mode		Obtain Confirmation Images	Science Aperture	Primary Candidate List		Filler Candidate List	Spectral Overlap Map		Spectral Overlap Threshold	
	MSATA	false		No	MSA Center	sci-5 (668 sources)			jwst-nirspec-mr		1.5	
Reference Stars	Visit	ID	RA	Dec	Magnitude	Visit	ID	RA	Dec	Magnitude		
	1	57200	189.230677	62.203701	23.48	1	76484	189.214126	62.192573	24.83		
	1	59010	189.269729	62.208888	24.98	1	78887	189.274715	62.204193	23.73		
	1	60997	189.252315	62.214304	24.12	1	79096	189.251078	62.205410	24.74		
	1	65319	189.215091	62.229822	24.71	1	79512	189.164837	62.208466	24.99		
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	
	1	1 (G395M/F290LP)	c1	3 Shutter Slitlet	189.19750054166 664 Degrees 62.20823055555 56 Degrees	319.99805855536 18			3	6	7527.867	
	2	2 (G395M/F290LP)	c1	3 Shutter Slitlet	189.19750054166 664 Degrees 62.20823055555 56 Degrees	319.99805855536 18			3	6	7965.534	

Proposal 7935 - Observation 5 - Efficient Measurement of the Emergence Rate of AGN in Legacy Deep Field

Special Requirements	Aperture PA Range 319.999 to 320.001 Degrees (V3 181.4244303 to 181.4264303) MSA Scheduled Aperture PA 320.0000 to 320.0000 Degrees (V3 181.42543 to 181.42543)
----------------------	--

Proposal 7935 - Observation 6 - Efficient Measurement of the Emergence Rate of AGN in Legacy Deep Field

Observation	Proposal 7935, Observation 6: PA320-ptg-6-v3											Fri Feb 27 22:01:01 GMT 2026
	Diagnostic Status: Warning											
Observing Template: NIRSpect MultiObject Spectroscopy												
Diagnostics	(PA320-ptg-6-v3 (Obs 6)) Warning (Form): Config c1 (#1) has 1 filler slits affected by failed closed shutters.											
	(PA320-ptg-6-v3 (Obs 6)) Warning (Form): Config c1 (#2) has 1 filler slits affected by failed closed shutters.											
	(Visit 6:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.											
Fixed Targets	#	Name	Target Coordinates				Targ. Coord. Corrections			Miscellaneous		
	(26)	emerald_gdn_tgt_ptg_6-v3	RA: 12 36 32.7022 (189.1362592d) Dec: +62 15 19.20 (62.25533d) Equinox: J2000									
	Comments: Description=[]											
Acquisition	#	Reference Star Bin	Target	Filter	MSA Configuration	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Exposure Time	Optional ETC ID	
	1	Filter: CLEAR; Readout: NRSRAPIDD6; 8 sources in 4 quads; [Optimal TA Accuracy]	SAME	CLEAR	Auto Acq MSA Config	NRSRAPIDD6	3	1	4	687.153		
Template	TA Method	HFF Readout Mode	Obtain Confirmation Images	Science Aperture	Primary Candidate List	Filler Candidate List	Spectral Overlap Map	Spectral Overlap Threshold				
	MSATA	false	No	MSA Center	sci-6-key (20 sources)	sci-6 (700 sources)	jwst-nirspec-mr	1.5				
Reference Stars	Visit	ID	RA	Dec	Magnitude	Visit	ID	RA	Dec	Magnitude		
	1	5554	189.148059	62.241987	24.23	1	29428	189.165730	62.264190	23.93		
	1	6059	189.133418	62.243516	24.33	1	30196	189.083107	62.269007	25.35		
	1	9945	189.061945	62.255613	25.05	1	31852	189.109598	62.278572	24.41		
	1	11024	189.206716	62.260612	24.26	1	94176	189.049459	62.257634	23.91		
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	
	1	1 (G395M/F290LP)	c1	3 Shutter Slitlet	189.12882533333 334 Degrees 62.259616388888 89 Degrees	319.99342782050 235			3	6	7965.534	
	2	2 (G395M/F290LP)	c1	3 Shutter Slitlet	189.12882533333 334 Degrees 62.259616388888 89 Degrees	319.99342782050 235			3	6	7965.534	

Proposal 7935 - Observation 6 - Efficient Measurement of the Emergence Rate of AGN in Legacy Deep Field

Special Requirements	Aperture PA Range 319.999 to 320.001 Degrees (V3 181.4244303 to 181.4264303) MSA Scheduled Aperture PA 320.0000 to 320.0000 Degrees (V3 181.42543 to 181.42543)
----------------------	--