



1264 - NIRSpec and MIRI IFS of SMGs

Cycle: 1, Proposal Category: GTO

INVESTIGATORS

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OBSERVATIONS

<i>Folder</i>	<i>Observation</i>	<i>Label</i>	<i>Observing Template</i>	<i>Science Target</i>
MIRI - GN20				
	1	GN20-MRS [WRIGHT_0302]	MIRI Medium Resolution Spectroscopy	(1) GN20-MRS
	2	GN20-Imager [WRIGHT_0301+0305]	MIRI Imaging	(2) GN20-IMAGER
	3	GNz11-Imager	MIRI Imaging	(7) GNz11-offset
	16	GN20-MRS-BGK	MIRI Medium Resolution Spectroscopy	(13) GN20-MRS-BKG
MIRI - HFLS3				
	6	HFLS3-MRS [WRIGHT_0401]	MIRI Medium Resolution Spectroscopy	(4) HFLS3-MRS
	7	HFLS3-Imager	MIRI Imaging	(5) HFLS3-IMAGER
	17	HFLS3-MRS-BGK	MIRI Medium Resolution Spectroscopy	(14) HFLS3-MRS-BKG

JWST Proposal 1264 (Created: Tuesday, October 3, 2023 at 11:00:32 AM Eastern Standard Time) - Overview

<i>Folder</i>	<i>Observation</i>	<i>Label</i>	<i>Observing Template</i>	<i>Science Target</i>
MIRI - SPT				
	9	SPT - MRS	MIRI Medium Resolution Spectroscopy	(6) SPT0311-MRS
	14	SPT - MRS-BKG	MIRI Medium Resolution Spectroscopy	(12) SPT0311-MRS-BKG
	15	SPT - Imager	MIRI Imaging	(11) SPT0311-IMAGER
NIRSpec - SMGs				
	11	GN20 - NIRSpec	NIRSpec IFU Spectroscopy	(8) GN20-NIRSPEC
	12	HFLS3 - NIRSpec	NIRSpec IFU Spectroscopy	(9) HFLS3-NIRSPEC
	13	SPT0311-58 NIRSpec	NIRSpec IFU Spectroscopy	(10) SPT0311-58-NIRSPEC

ABSTRACT

The observation IDs for the NIRSpec observations are:

GN20 FERRUIT_3049

HFLS3 FERRUIT_3050

And for MIRI:

GN20 MRS and IMAGER WRIGHT_0301 to 0308

HFLS3 MRS and IMAGER WRIGHT_0401 to 0403

* UPDATE JUNE 2019: The galaxy SPT0311-5823 has been added to the original proposal.

* UPDATE JUNE 6, 2022: minor modifications in MIRI imager (MIRIM) pointings intended to achieve the optimization of the original science goals for specific roll angle

covered by the LRP observing windows (implemented using the offset requirement).

UPDATE JUNE 17, 2022: 1) NIRCам parallel for GNz11-imager (observation 3) change filters from F115W and F277W to F200W and F356W to optimize wavelength coverage between HST and MIRI band. 2) MIRIM simultaneous to SPT-MRS (obs. 9) and SPT-MRS-BKG (obs. 10) change filters (F1000W to F560W in obs.14 and F560W to F770W in obs.9) for a better coverage of the wavelength range in the simultaneous imaging while MRS prime.

UPDATE OCTOBER 27, 2022 (MIRI updates for GN20 and HFLS3): modifications in the existing APT to optimized the observational strategy based on the analysis of SPT0311 data taken in July: 1) Add MRS background observations and corresponding new targets (GN20-MRS-BGK and HFLS3-MRS-BGK), 2) remove one of the two MRS configurations previously requested (secondary emission lines), 3) perform one integration per

MRS dither and increase the number of dithers to reduce effect of persistence of cosmic showers, 4) remove the special requirement of interruptible between MRS and MIRIM observations, 5) add MIRIM images in two additional filters to better cover the spectral wavelength in imaging, 6) change MIRIM dither to CYCLING. These changes keep the main science goals and charge times within the previously allocated limits while optimizing the observational strategy. Also, gives more flexibility to schedule MIRI imaging and spectroscopy.

This APT is for MIRI and NIRSpec-IFU observations of 3 high- z dusty, infrared luminous galaxies.

The combination of spectral coverage and subarcsec integral field medium resolution spectroscopy (MRS), makes MIRI a unique instrument to peer into the dustenshrouded phase of IRluminous starforming galaxies (DSFG) at high redshifts. MIRI provides the first direct subarcsec view ever at the (restframe) nearinfrared light distribution of the evolved stellar population, ionized and hot molecular gas phase in $z\sim 26$ massive DSFGs, and therefore will investigate the physical processes of the obscured star formation and black hole growth in massive starforming galaxies (SFR above 100 Msun/yr) in the early universe. MRS spectroscopy of the main near-infrared emission lines (hydrogen Paschen, [FeII], H₂, etc) will be obtained for the currently known highest redshift DSFGs (SPT0311-5823 and HFLS3), and for GN20, a DSFG at $z\sim 4$ located in GOODS-North. Mid-IR imaging of the host galaxies and nearby fields will also be obtained with the MIRI imager in the near-IR (i.e. 1.2-1.5 microns) rest-frame (i.e. F770W for GN20 and F1000W for HFLS3 and SPT0311-5823).

The NIRSpec-IFU observations are part of the NIRSpec GTO Physics of Galaxy Assembly IFS survey. The goal of this program is to characterize the internal structure of distant galaxies and thereby investigate the primary physical processes driving galaxy evolution across cosmic time. The main specific objectives are to: trace the distribution of star formation, map the resolved properties of the stellar populations, trace the gas kinematics (i.e. velocity fields, velocity dispersion) and hence determine dynamical masses and also identify non-virial motions (outflow and inflows), map metallicity gradients and dust extinction. These quantities will be mapped for the brightest and most extended star-forming galaxies and AGN/QSO hosts up to $z > 8$.

The NIRSpec-IFU observations are performed at R100 and R2700. The specific band for the high-resolution observations is aimed at including the most important emission lines (from \sim H-beta to H-alpha).

OBSERVING DESCRIPTION

The original version of the proposal submitted in 2017 included the IFS observations with MIRI and NIRSpec for two IR luminous galaxies, GN20 and HFLS3. Since the revised 2019 version of the proposal included an additional source, SPT0311-5823.

JWST Proposal 1264 (Created: Tuesday, October 3, 2023 at 11:00:32 AM Eastern Standard Time) - Overview

In the first submission to STScI, the proposal included MIRI and NIRSpec-IFS observations of targets HFLS3 and GN20, and only MIRI IFS of targets GN20a+b. The revised June 2019 submission, includes NIRSpec -IFS and MIRI observations of HFLS3, GN20 and SPT0311, while the MIRI IFS observations of GN20a+b are no longer part of the program, and we included a MIRI image of GN-z11. The total time needed for this proposal has increased with respect to the previous submission, but the total times for the "MIRI high-z" and "NIRSpec GA-IFS" GTO programs are within the internally approved ranges.

MIRI IFS and MIRI Imager:

The purpose of the program is to get a mid-IR spectra of the high-z IR-luminous galaxies GN20, HFLS3 and SPT0311-5823, using 2 MRS configurations with simultaneous Imager observations of nearby fields in two filters (F560W, F1000W for HFLS3 and SPT0311, F560W and F770W for GN20). In addition, we request the imaging of the host galaxies and surrounding field at 10 microns (F1000W) for HFLS3 and SPT0311-058, and F770W for GN20

A MIRI F560W image of the z~11 candidate GN-z11 and surrounding area will be taken in the GOODS-N field together with the MRS observations of the z~4 DSFG GN20. The MIRIM image of the GN-z11 will take in parallel a NIRCам imaging in two filters of the GN20 host and surrounding area, including GN20a and GN20b. The MIRI and NIRCам images will be combined to explore this region of the GOODS-N field rich in DSFGs. To optimize the overlap region between the MIRI and NIRCам imaging of the GN20 and GN-z11 regions, final adjustments in the position and orientation of the GN-z11 pointing with the MIRI imager by a few arcsec will likely be done once the epoch of the observations is known.

The PAs have been selected to avoid bright stars (which would saturate the detectors) in the MIRI imager fields, and to guarantee low background conditions.

The dithering strategies were selected to optimize the PSF and detector effects for all the MRS channels. HFLS3 and GN20 have sizes of about 1-1.2 arcsec, and therefore a point-like dithering strategy is used as most relevant lines are in channels 2 and 3, SPT0311-5823 is more extended (sizes of about 3 arcsec) and therefore a dithering strategy for extended sources. A dedicated background observation with 2-point dither is included for this galaxy. These strategies could be subject to change without modifying the total charged time, after the assessment of the background properties during the commissioning of the instrument.

NIRSpec-IFU:

These three IR-luminous galaxies will be observed using the NIRSpec-IFU as part of the “Physics of Galaxy Assembly IFU survey” program. Observations will be performed with grating/filters PRISM (R100) and G395H/F290LP (R2700). By combining with the MIRI observations, we take advantage of the "smart accounting" option to save slew overheads.

For NIRSpec, the allowed PA range is defined such that contamination in the R100 spectra due to nearby sources leaking through the MSA is minimized. For the emission line high-resolution (R2700) spectra this is not so critical, but still we have checked for very bright sources in the MSA quadrants.

The PA restrictions (updated for the March 2020 submission) are imposed to minimise MSA-leakage, taking also into account the constrains for the MIRI observations.

A 4-point dither pattern will be used, where the first 4 points of the "medium" cycling pattern provide a good compromise between an amplitude (~0.5") large enough to "jump" the failed open microshutters and to deal with other sources of background, while keeping a large FoV with complete exposure time (~2.5"x2.5"). This dither pattern also allows a good sub-pixel sampling.

No extra background exposures are included. For R100 it was considered that there will be a relatively large number of spaxels free from galaxy emission to derive the background. For the R2700, in addition, the goal is to study the emission lines and therefore the background should be less relevant.

Even though the contamination by bright targets leaking through the MSA is expected to be small for the PAs selected (see above), we take an extra leakage exposure for R100 in one pointing in order to be able to understand the effects of the surrounding field.

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The IRS2RAPID reading mode was selected to maximise S/N and optimise the detection and removal of cosmic rays .

The exposure times used were computed using JWST ETC (v1.1.1).

Proposal 1264 - Targets - NIRSpec and MIRI IFS of SMGs

#	Name	Target Coordinates	Targ. Coord. Corrections	Miscellaneous
(1)	GN20-MRS	RA: 12 37 11.8885 (189.2995354d) Dec: +62 22 12.10 (62.37003d) Equinox: J2000		
<i>Comments: This object was generated by the target selector and retrieved from the NED database. Category=Galaxy Description=[Active galactic nuclei]</i>				
(2)	GN20-IMAGER	RA: 12 37 13.0365 (189.3043188d) Dec: +62 21 51.63 (62.36434d) Equinox: J2000		
<i>Comments: This object was generated by the targetselector and retrieved from the NED database. Category=Galaxy Description=[Active galactic nuclei, Starburst galaxies]</i>				
(4)	HFLS3-MRS	RA: 17 06 47.8000 (256.6991667d) Dec: +58 46 23.51 (58.77320d) Equinox: J2000		
<i>Comments: This object was generated by the target selector and retrieved from the NED database. Category=Galaxy Description=[Active galactic nuclei, High-redshift galaxies, Starburst galaxies]</i>				
(5)	HFLS3-IMAGER	RA: 17 06 49.8895 (256.7078729d) Dec: +58 46 10.24 (58.76951d) Equinox: J2000		
<i>Comments: This object was generated by the targetselector and retrieved from the NED database. Category=Galaxy Description=[Active galactic nuclei]</i>				
(6)	SPT0311-MRS	RA: 03 11 33.2000 (47.8883333d) Dec: -58 23 33.40 (-58.39261d) Equinox: J2000		
<i>Comments: This object was generated by the target selector and retrieved from the NED database. Category=Galaxy Description=[High-redshift galaxies, Infrared galaxies, Starburst galaxies] Extended=YES</i>				
(7)	GNz11-offset	RA: 12 36 19.8900 (189.0828750d) Dec: +62 14 38.72 (62.24409d) Equinox: J2000		
<i>Comments: Coordenates are offset from the true values for GNz11 in order to obtain simultaneous MIRI image of GNz11 and NIRCcam images of GN20 system for the selected V3 angle. The coodenates of GNz11 (12:36:25.46 +62:14:31.4, target 15) are not used here for centering the MIRI imager. Category=Galaxy Description=[High-redshift galaxies] Extended=NO</i>				
(8)	GN20-NIRSPEC	RA: 12 37 11.8999 (189.2995829d) Dec: +62 22 12.10 (62.37003d) Equinox: J2000		
<i>Comments: Category=Galaxy Description=[High-redshift galaxies, Starburst galaxies] Extended=YES</i>				

Fixed Targets

Proposal 1264 - Targets - NIRSpec and MIRI IFS of SMGs

(9)	HFLS3-NIRSPEC	RA: 17 06 47.8000 (256.6991667d) Dec: +58 46 23.51 (58.77320d) Equinox: J2000
<p><i>Comments:</i> <i>Category=Galaxy</i> <i>Description=[High-redshift galaxies, Starburst galaxies]</i> <i>Extended=YES</i></p>		
(10)	SPT0311-58-NIRSPEC	RA: 03 11 33.2600 (47.8885833d) Dec: -58 23 33.50 (-58.39264d) Equinox: J2000
<p><i>Comments: Coordinates from Figure 1 in Marrone+18 adjusting FoV</i> <i>Category=Galaxy</i> <i>Description=[High-redshift galaxies, Infrared galaxies, Starburst galaxies]</i> <i>Extended=YES</i></p>		
(11)	SPT0311-IMAGER	RA: 03 11 33.2000 (47.8883333d) Dec: -58 23 33.40 (-58.39261d) Equinox: J2000
<p><i>Comments: This object was generated by the targetselector and retrieved from the NED database.</i> <i>Category=Galaxy</i> <i>Description=[High-redshift galaxies, Infrared galaxies, Starburst galaxies]</i> <i>Extended=YES</i></p>		
(12)	SPT0311-MRS-BKG	RA: 03 11 32.9352 (47.8872300d) Dec: -58 23 42.61 (-58.39517d) Equinox: J2000
<p><i>Comments: This object was generated by the targetselector and retrieved from the NED database.</i> <i>Category=Galaxy</i> <i>Description=[High-redshift galaxies, Infrared galaxies, Starburst galaxies]</i> <i>Extended=YES</i></p>		
(13)	GN20-MRS-BKG	RA: 12 37 3.6030 (189.2650125d) Dec: +62 21 35.66 (62.35991d) Equinox: J2000
<p><i>Comments: background for GN20 MRS observations</i> <i>Category=Galaxy</i> <i>Description=[High-redshift galaxies]</i> <i>Extended=YES</i></p>		
(14)	HFLS3-MRS-BKG	RA: 17 06 42.5112 (256.6771300d) Dec: +58 45 37.78 (58.76049d) Equinox: J2000
<p><i>Comments: background for HFLS3 MRS observations</i> <i>Category=Galaxy</i> <i>Description=[High-redshift galaxies]</i> <i>Extended=YES</i></p>		
(15)	GN-Z11	RA: 12 36 25.4600 (189.1060833d) Dec: +62 14 31.40 (62.24206d) Equinox: J2000
<p><i>Comments:</i> <i>Category=Galaxy</i> <i>Description=[Active galactic nuclei, High-redshift galaxies]</i> <i>Extended=NO</i></p>		

Proposal 1264 - Observation 1 - NIRSpec and MIRI IFS of SMGs

Tue Oct 03 16:00:33 GMT 2023

Observation	Proposal 1264, Observation 1: GN20-MRS [WRIGHT_0302] Diagnostic Status: Warning Observing Template: MIRI Medium Resolution Spectroscopy												
	(Visit 1:1) Warning (Form): Overheads are provisional until the Visit Planner has been run. (GN20-MRS [WRIGHT_0302] (Obs 1)) Informational (Form): The Visit Planner and Spike may produce different schedulability results.												
Fixed Targets	#	Name	Target Coordinates				Targ. Coord. Corrections			Miscellaneous			
	(1)	GN20-MRS	RA: 12 37 11.8885 (189.2995354d) Dec: +62 22 12.10 (62.37003d) Equinox: J2000										
<i>Comments: This object was generated by the target selector and retrieved from the NED database. Category=Galaxy Description=[Active galactic nuclei]</i>													
Acquisition	#	Target											
	1	NONE											
Template	AcqFilter	Primary Channel				Simultaneous Imaging			Imager Subarray		Grating Wheel Direction		
	F560W	All MRS				YES			FULL		NEUTRAL		
Dithers	#	Dither Type				Optimized For				Direction			
	1	4-Point				EXTENDED SOURCE				NEGATIVE			
Spectral Elements	#	Wavelength Range	Detector	Filter	Readout Pattern	Groups/Int	Integrations/E xp	Exposures/Dit h	Dither	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
	1		IMAGER	F560W	FASTR1	114	3	1	Dither 1	4	12	3818.455	
	1	MEDIUM(B)	MRSLONG		SLOWR1	40	1	1	Dither 1	4	4	3822.387	
	1	MEDIUM(B)	MRSSHORT		SLOWR1	40	1	1	Dither 1	4	4	3822.387	
	2		IMAGER	F770W	FASTR1	114	3	1	Dither 1	4	12	3818.455	
	2	MEDIUM(B)	MRSLONG		SLOWR1	40	1	1	Dither 1	4	4	3822.387	
	2	MEDIUM(B)	MRSSHORT		SLOWR1	40	1	1	Dither 1	4	4	3822.387	

Proposal 1264 - Observation 1 - NIRSpec and MIRI IFS of SMGs

Special Requirements

Aperture PA Range 300 to 310 Degrees (V3 300.0 to 310.0)

Group Observations 1, 16, Non-interruptible
Same Aperture PA 1, 16

Proposal 1264 - Observation 2 - NIRSpec and MIRI IFS of SMGs

Tue Oct 03 16:00:33 GMT 2023

Observation	<p>Proposal 1264, Observation 2: GN20-Imager [WRIGHT_0301+0305]</p> <p>Diagnostic Status: Warning</p> <p>Observing Template: MIRI 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			
	(2)	GN20-IMAGER	RA: 12 37 13.0365 (189.3043188d) Dec: +62 21 51.63 (62.36434d) Equinox: J2000								
	<p><i>Comments: This object was generated by the targetselector and retrieved from the NED database.</i></p> <p><i>Category=Galaxy</i></p> <p><i>Description=[Active galactic nuclei, Starburst galaxies]</i></p>										
Template	<p>Subarray</p> <p>FULL</p>										
Dithers	#	Dither Type	Starting Point	Number of Points	Points	Starting Set	Number of Sets	Optimized For	Direction	Pattern Size	
	1	CYCLING	1	5		2	1			MEDIUM	
Spectral Elements	#	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Exposures/Dith	Dither	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
	1	F560W	FASTR1	108	1	1	Dither 1	5	5	1498.522	
	2	F770W	FASTR1	108	1	1	Dither 1	5	5	1498.522	
	3	F1280W	FASTR1	108	1	1	Dither 1	5	5	1498.522	
Special Requirements	Aperture PA Range 304.83425324 to 314.83425324 Degrees (V3 299.99880427 to 309.99880427)										

Proposal 1264 - Observation 3 - NIRSpec and MIRI IFS of SMGs

Tue Oct 03 16:00:33 GMT 2023

Observation	Proposal 1264, Observation 3: GNz11-Imager Diagnostic Status: Warning Observing Template: MIRI Imaging Coordinated Parallel Template(s): NIRCcam Imaging																																																						
	(Visit 3:1) Warning (Form): Data Excess over lower threshold (Visit 3:1) Warning (Form): Overheads are provisional until the Visit Planner has been run. (Visit 3:1) Informational (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.																																																						
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	MIRI Imaging	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Exposures/Dith	Dither	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID																																												
1	F560W	FASTR1	72	2	1	Dither 2	5	10	2011.904																																														
2	F770W	FASTR1	75	2	1	Dither 1	7	14	2933.217																																														
3	F770W	FASTR1	75	2	1	Dither 1	7	14	2933.217																																														
Spectral Elements	<table border="1"> <thead> <tr> <th>NIRCcam Imaging</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>F200W</td> <td>F356W</td> <td>SHALLOW4</td> <td>7</td> <td>1</td> <td>5</td> <td>5</td> <td>1825.251</td> <td></td> </tr> <tr> <td>2</td> <td>F150W</td> <td>F277W</td> <td>SHALLOW4</td> <td>7</td> <td>1</td> <td>7</td> <td>7</td> <td>2555.351</td> <td></td> </tr> <tr> <td>3</td> <td>F115W</td> <td>F444W</td> <td>SHALLOW4</td> <td>7</td> <td>1</td> <td>7</td> <td>7</td> <td>2555.351</td> <td></td> </tr> </tbody> </table>											NIRCcam Imaging	Short Filter	Long Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Dithers	Total Exposure Time	ETC Wkbk.Calc ID	1	F200W	F356W	SHALLOW4	7	1	5	5	1825.251		2	F150W	F277W	SHALLOW4	7	1	7	7	2555.351		3	F115W	F444W	SHALLOW4	7	1	7	7	2555.351					
	NIRCcam Imaging	Short Filter	Long Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Dithers	Total Exposure Time	ETC Wkbk.Calc ID																																													
1	F200W	F356W	SHALLOW4	7	1	5	5	1825.251																																															
2	F150W	F277W	SHALLOW4	7	1	7	7	2555.351																																															
3	F115W	F444W	SHALLOW4	7	1	7	7	2555.351																																															
Spectral Elements																																																							

Proposal 1264 - Observation 3 - NIRSpec and MIRI IFS of SMGs

Special Requirements

Aperture PA Range 304.43544897 to 305.43544897 Degrees (V3 299.6 to 300.6)
No Parallel Attachments

Proposal 1264 - Observation 16 - NIRSpec and MIRI IFS of SMGs

Tue Oct 03 16:00:33 GMT 2023

Observation	Proposal 1264, Observation 16: GN20-MRS-BGK Diagnostic Status: Warning Observing Template: MIRI Medium Resolution Spectroscopy												
	(GN20-MRS-BGK (Obs 16)) Warning (Form): Imager Filter overlap. (Visit 16:1) Warning (Form): Overheads are provisional until the Visit Planner has been run. (GN20-MRS-BGK (Obs 16)) Informational (Form): The Visit Planner and Spike may produce different schedulability results.												
Fixed Targets	#	Name	Target Coordinates			Targ. Coord. Corrections			Miscellaneous				
	(13)	GN20-MRS-BKG	RA: 12 37 3.6030 (189.2650125d) Dec: +62 21 35.66 (62.35991d) Equinox: J2000										
<i>Comments: background for GN20 MRS observations</i> <i>Category=Galaxy</i> <i>Description=[High-redshift galaxies]</i> <i>Extended=YES</i>													
Acquisition	#	Target											
	1	NONE											
Template	AcqFilter	Primary Channel			Simultaneous Imaging		Imager Subarray		Grating Wheel Direction				
		All MRS			YES		FULL		NEUTRAL				
Dithers	#	Dither Type			Optimized For			Direction					
	1	2-Point			POINT SOURCE			NEGATIVE					
Spectral Elements	#	Wavelength Range	Detector	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Exposures/Dith	Dither	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
	1		IMAGER	F1800W	FASTR1	114	3	1	Dither 1	2	6	1909.228	
	1	MEDIUM(B)	MRSLONG		SLOWR1	40	1	1	Dither 1	2	2	1911.194	
	1	MEDIUM(B)	MRSSHORT		SLOWR1	40	1	1	Dither 1	2	2	1911.194	

Proposal 1264 - Observation 16 - NIRSpec and MIRI IFS of SMGs

Special Requirements

Aperture PA Range 300.0 to 310.0 Degrees (V3 300.0 to 310.0)

Group Observations 1, 16, Non-interruptible
Same Aperture PA 1, 16

Proposal 1264 - Observation 6 - NIRSpec and MIRI IFS of SMGs

Tue Oct 03 16:00:33 GMT 2023

Observation	Proposal 1264, Observation 6: HFLS3-MRS [WRIGHT_0401] Diagnostic Status: Warning Observing Template: MIRI Medium Resolution Spectroscopy												
	(Visit 6:1) Warning (Form): Overheads are provisional until the Visit Planner has been run. (HFLS3-MRS [WRIGHT_0401] (Obs 6)) Informational (Form): The Visit Planner and Spike may produce different schedulability results.												
Fixed Targets	#	Name	Target Coordinates				Targ. Coord. Corrections			Miscellaneous			
	(4)	HFLS3-MRS	RA: 17 06 47.8000 (256.6991667d) Dec: +58 46 23.51 (58.77320d) Equinox: J2000 <i>Comments: This object was generated by the target selector and retrieved from the NED database.</i> <i>Category=Galaxy</i> <i>Description=[Active galactic nuclei, High-redshift galaxies, Starburst galaxies]</i>										
Acquisition	#	Target											
	1	NONE											
Template	AcqFilter	Primary Channel			Simultaneous Imaging			Imager Subarray		Grating Wheel Direction			
	F560W	All MRS			YES			FULL		NEUTRAL			
Dithers	#	Dither Type				Optimized For				Direction			
	1	4-Point				POINT SOURCE				POSITIVE			
	2	4-Point				POINT SOURCE				NEGATIVE			
Spectral Elements	#	Wavelength Range	Detector	Filter	Readout Pattern	Groups/Int	Integrations/E xp	Exposures/Dit h	Dither	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
	1		IMAGER	F560W	FASTR1	114	3	1	Dither 1	4	12	3818.455	
	1	MEDIUM(B)	MRSLONG		SLOWR1	40	1	1	Dither 1	4	4	3822.387	
	1	MEDIUM(B)	MRSSHORT		SLOWR1	40	1	1	Dither 1	4	4	3822.387	
	2		IMAGER	F770W	FASTR1	114	3	1	Dither 2	4	12	3818.455	
	2	MEDIUM(B)	MRSLONG		SLOWR1	40	1	1	Dither 2	4	4	3822.387	
	2	MEDIUM(B)	MRSSHORT		SLOWR1	40	1	1	Dither 2	4	4	3822.387	

Proposal 1264 - Observation 6 - NIRSpec and MIRI IFS of SMGs

Special Requirements

Aperture PA Range 287.0 to 287.0 Degrees (V3 287.0 to 287.0)

Group Observations 6, 17, Non-interruptible
Same Aperture PA 6, 17

Proposal 1264 - Observation 7 - NIRSpec and MIRI IFS of SMGs

Tue Oct 03 16:00:33 GMT 2023

Observation	<p>Proposal 1264, Observation 7: HFLS3-Imager</p> <p>Diagnostic Status: Warning</p> <p>Observing Template: MIRI Imaging</p>										
Diagnostics	(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)	HFLS3-IMAGER	RA: 17 06 49.8895 (256.7078729d) Dec: +58 46 10.24 (58.76951d) Equinox: J2000								
	<p><i>Comments: This object was generated by the targetselector and retrieved from the NED database.</i></p> <p><i>Category=Galaxy</i></p> <p><i>Description=[Active galactic nuclei]</i></p>										
Template	<p>Subarray</p> <p>FULL</p>										
Dithers	#	Dither Type	Starting Point	Number of Points	Points	Starting Set	Number of Sets	Optimized For	Direction	Pattern Size	
	1	CYCLING	1	4		2	1			MEDIUM	
Spectral Elements	#	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Exposures/Dith	Dither	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
	1	F560W	FASTR1	100	1	1	Dither 1	4	4	1110.016	
	2	F770W	FASTR1	100	1	1	Dither 1	4	4	1110.016	
	3	F1280W	FASTR1	100	1	1	Dither 1	4	4	1110.016	
Special Requirements	Aperture PA Range 291.83425324 to 291.83425324 Degrees (V3 286.99880427 to 286.99880427)										

Proposal 1264 - Observation 17 - NIRSpec and MIRI IFS of SMGs

Tue Oct 03 16:00:33 GMT 2023

Observation	<p>Proposal 1264, Observation 17: HFLS3-MRS-BGK</p> <p>Diagnostic Status: Warning</p> <p>Observing Template: MIRI Medium Resolution Spectroscopy</p>																																																															
Diagnostics	<p>(HFLS3-MRS-BGK (Obs 17)) Warning (Form): Imager Filter overlap.</p> <p>(Visit 17:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.</p> <p>(HFLS3-MRS-BGK (Obs 17)) Informational (Form): The Visit Planner and Spike may produce different schedulability results.</p>																																																															
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>(14)</td> <td>HFLS3-MRS-BGK</td> <td>RA: 17 06 42.5112 (256.6771300d) Dec: +58 45 37.78 (58.76049d) Equinox: J2000</td> <td></td> <td></td> </tr> <tr> <td colspan="5"><i>Comments: background for HFLS3 MRS observations</i></td> </tr> <tr> <td colspan="5"><i>Category=Galaxy</i></td> </tr> <tr> <td colspan="5"><i>Description=[High-redshift galaxies]</i></td> </tr> <tr> <td colspan="5"><i>Extended=YES</i></td> </tr> </tbody> </table>												#	Name	Target Coordinates	Targ. Coord. Corrections	Miscellaneous	(14)	HFLS3-MRS-BGK	RA: 17 06 42.5112 (256.6771300d) Dec: +58 45 37.78 (58.76049d) Equinox: J2000			<i>Comments: background for HFLS3 MRS observations</i>					<i>Category=Galaxy</i>					<i>Description=[High-redshift galaxies]</i>					<i>Extended=YES</i>																										
#	Name	Target Coordinates	Targ. Coord. Corrections	Miscellaneous																																																												
(14)	HFLS3-MRS-BGK	RA: 17 06 42.5112 (256.6771300d) Dec: +58 45 37.78 (58.76049d) Equinox: J2000																																																														
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Acquisition	<table border="1"> <thead> <tr> <th>#</th> <th>Target</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>NONE</td> </tr> </tbody> </table>												#	Target	1	NONE																																																
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Template	<table border="1"> <thead> <tr> <th>AcqFilter</th> <th>Primary Channel</th> <th>Simultaneous Imaging</th> <th>Imager Subarray</th> <th>Grating Wheel Direction</th> </tr> </thead> <tbody> <tr> <td></td> <td>All MRS</td> <td>YES</td> <td>FULL</td> <td>NEUTRAL</td> </tr> </tbody> </table>												AcqFilter	Primary Channel	Simultaneous Imaging	Imager Subarray	Grating Wheel Direction		All MRS	YES	FULL	NEUTRAL																																										
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#	Wavelength Range	Detector	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Exposures/Dith	Dither	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID																																																				
1		IMAGER	F1800W	FASTR1	114	3	1	Dither 1	2	6	1909.228																																																					
1	MEDIUM(B)	MRSLONG		SLOWR1	40	1	1	Dither 1	2	2	1911.194																																																					
1	MEDIUM(B)	MRSSHORT		SLOWR1	40	1	1	Dither 1	2	2	1911.194																																																					

Proposal 1264 - Observation 17 - NIRSpec and MIRI IFS of SMGs

Special Requirements

Group Observations 6, 17, Non-interruptible
Same Aperture PA 6, 17

Proposal 1264 - Observation 9 - NIRSpec and MIRI IFS of SMGs

Tue Oct 03 16:00:33 GMT 2023

Observation	Proposal 1264, Observation 9: SPT - MRS Diagnostic Status: Warning Observing Template: MIRI Medium Resolution Spectroscopy Background Observations:[SPT - MRS-BKG (Obs 14)]												
	(SPT - MRS (Obs 9)) Warning (Form): Filter mismatch between science and background observations may result in incorrect background subtraction. (Visit 9:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.												
Fixed Targets	#	Name	Target Coordinates			Targ. Coord. Corrections			Miscellaneous				
	(6)	SPT0311-MRS	RA: 03 11 33.2000 (47.8883333d) Dec: -58 23 33.40 (-58.39261d) Equinox: J2000										
Comments: This object was generated by the target selector and retrieved from the NED database. Category=Galaxy Description=[High-redshift galaxies, Infrared galaxies, Starburst galaxies] Extended=YES													
Acquisition	#	Target											
	1	NONE											
Template	AcqFilter	Primary Channel			Simultaneous Imaging			Imager Subarray		Grating Wheel Direction			
		All MRS			YES			FULL		NEUTRAL			
Dithers	#	Dither Type			Optimized For			Direction					
	1	4-Point			EXTENDED SOURCE			NEGATIVE					
Spectral Elements	#	Wavelength Range	Detector	Filter	Readout Pattern	Groups/Int	Integrations/E xp	Exposures/Dit h	Dither	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
	1		IMAGER	F770W	FASTR1	111	6	1	Dither 1	4	24	7448.207	
	1	SHORT(A)	MRSLONG		SLOWR1	39	2	1	Dither 1	4	8	7549.215	
	1	SHORT(A)	MRSSHORT		SLOWR1	39	2	1	Dither 1	4	8	7549.215	
	2		IMAGER	F1000W	FASTR1	111	6	1	Dither 1	4	24	7448.207	
	2	MEDIUM(B)	MRSLONG		SLOWR1	39	2	1	Dither 1	4	8	7549.215	
	2	MEDIUM(B)	MRSSHORT		SLOWR1	39	2	1	Dither 1	4	8	7549.215	

Proposal 1264 - Observation 9 - NIRSpec and MIRI IFS of SMGs

Special Requirements

Aperture PA Range 200.0 to 358.0 Degrees (V3 200.0 to 358.0)

Sequence Observations 9, 14, 15, Non-interruptible

Proposal 1264 - Observation 14 - NIRSpec and MIRI IFS of SMGs

Tue Oct 03 16:00:33 GMT 2023

Observation	Proposal 1264, Observation 14: SPT - MRS-BKG Diagnostic Status: Warning Observing Template: MIRI Medium Resolution Spectroscopy Background Observation For: [SPT - MRS (Obs 9)]												
	(Visit 14:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.												
Fixed Targets	#	Name	Target Coordinates		Targ. Coord. Corrections				Miscellaneous				
	(12)	SPT0311-MRS-BKG	RA: 03 11 32.9352 (47.8872300d) Dec: -58 23 42.61 (-58.39517d) Equinox: J2000										
<i>Comments: This object was generated by the targetselector and retrieved from the NED database.</i> Category=Galaxy Description=[High-redshift galaxies, Infrared galaxies, Starburst galaxies] Extended=YES													
Acquisition	#	Target											
	1	NONE											
Template	AcqFilter	Primary Channel		Simultaneous Imaging		Imager Subarray		Grating Wheel Direction					
		All MRS		YES		FULL		NEUTRAL					
Dithers	#	Dither Type			Optimized For				Direction				
	1	2-Point			EXTENDED SOURCE				NEGATIVE				
Spectral Elements	#	Wavelength Range	Detector	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Exposures/Dith	Dither	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
	1		IMAGER	F560W	FASTR1	111	3	1	Dither 1	2	6	1859.277	
	1	SHORT(A)	MRSLONG		SLOWR1	39	1	1	Dither 1	2	2	1863.414	
	1	SHORT(A)	MRSSHORT		SLOWR1	39	1	1	Dither 1	2	2	1863.414	
	2		IMAGER	F560W	FASTR1	111	3	1	Dither 1	2	6	1859.277	
	2	MEDIUM(B)	MRSLONG		SLOWR1	39	1	1	Dither 1	2	2	1863.414	
	2	MEDIUM(B)	MRSSHORT		SLOWR1	39	1	1	Dither 1	2	2	1863.414	

Proposal 1264 - Observation 14 - NIRSpec and MIRI IFS of SMGs

Special Requirements

Aperture PA Range 200.0 to 358.0 Degrees (V3 200.0 to 358.0)

Sequence Observations 9, 14, 15, Non-interruptible

Proposal 1264 - Observation 15 - NIRSpec and MIRI IFS of SMGs

Tue Oct 03 16:00:33 GMT 2023

Observation	<p>Proposal 1264, Observation 15: SPT - Imager</p> <p>Diagnostic Status: Warning</p> <p>Observing Template: MIRI 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)	SPT0311-IMAGER	RA: 03 11 33.2000 (47.8883333d) Dec: -58 23 33.40 (-58.39261d) Equinox: J2000								
	<p><i>Comments: This object was generated by the targetselector and retrieved from the NED database.</i></p> <p><i>Category=Galaxy</i></p> <p><i>Description=[High-redshift galaxies, Infrared galaxies, Starburst galaxies]</i></p> <p><i>Extended=YES</i></p>										
Template	<p>Subarray</p> <p>FULL</p>										
Dithers	#	Dither Type	Starting Point	Number of Points	Points	Starting Set	Number of Sets	Optimized For	Direction	Pattern Size	
	1	4-Point-Sets				1	1	POINT SOURCE	POSITIVE	DEFAULT	
Spectral Elements	#	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Exposures/Dith	Dither	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
	1	F1000W	FASTR1	81	3	1	Dither 1	4	12	2719.539	
Special Requirements	<p>Aperture PA Range 204.83425324 to 2.83425324 Degrees (V3 199.99880427 to 357.99880427)</p> <p>Offset 15.0 arcsec, 50.0 arcsec</p> <p>Sequence Observations 9, 14, 15, Non-interruptible</p>										

Proposal 1264 - Observation 11 - NIRSpec and MIRI IFS of SMGs

Tue Oct 03 16:00:33 GMT 2023

Observation	<p>Proposal 1264, Observation 11: GN20 - NIRSpec</p> <p>Diagnostic Status: Warning</p> <p>Observing Template: NIRSpec IFU Spectroscopy</p> <p><i>Comments: The PA is restricted to minimise potential MSA leakage contamination</i></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			
	(8)	GN20-NIRSPEC	RA: 12 37 11.8999 (189.2995829d) Dec: +62 22 12.10 (62.37003d) Equinox: J2000									
	<p><i>Comments:</i> <i>Category=Galaxy</i> <i>Description=[High-redshift galaxies, Starburst galaxies]</i> <i>Extended=YES</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/Ex p	Leakcal	Dither	Autocal	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
	1	G395H/F290LP	NRSIRS2	25	1	false	true	NONE	4	4	7352.801	
	2	PRISM/CLEAR	NRSIRS2RAPI D	60	1	false	true	NONE	4	4	3559.689	
	3	PRISM/CLEAR	NRSIRS2RAPI D	60	1	true	false	NONE	1	1	889.922	
Special Requirements	<p>Aperture PA Range 86.89297485 to 91.89297485 Degrees (V3 307.92044067 to 312.92044067)</p> <p>Aperture PA Range 233.89297485 to 241.89297485 Degrees (V3 94.92044067 to 102.92044067)</p> <p>Aperture PA Range 328.89297485 to 11.89297485 Degrees (V3 189.92044067 to 232.92044067)</p>											

Proposal 1264 - Observation 12 - NIRSpec and MIRI IFS of SMGs

Tue Oct 03 16:00:33 GMT 2023

Observation	<p>Proposal 1264, Observation 12: HFLS3 - NIRSpec</p> <p>Diagnostic Status: Warning</p> <p>Observing Template: NIRSpec IFU Spectroscopy</p> <p><i>Comments: The PA is restricted to minimise potential MSA leakage contamination</i></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			
	(9)	HFLS3-NIRSPEC	RA: 17 06 47.8000 (256.6991667d) Dec: +58 46 23.51 (58.77320d) Equinox: J2000									
	<p><i>Comments:</i> <i>Category=Galaxy</i> <i>Description=[High-redshift galaxies, Starburst galaxies]</i> <i>Extended=YES</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/Ex p	Leakcal	Dither	Autocal	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
	1	G395H/F290LP	NRSIRS2	25	1	false	true	NONE	4	4	7352.801	
	2	PRISM/CLEAR	NRSIRS2RAPI D	60	1	false	true	NONE	4	4	3559.689	
	3	PRISM/CLEAR	NRSIRS2RAPI D	60	1	true	false	NONE	1	1	889.922	
Special Requirements	Aperture PA Range 228.892975 to 236.892975 Degrees (V3 89.92044082 to 97.92044082)											

Proposal 1264 - Observation 13 - NIRSpec and MIRI IFS of SMGs

Tue Oct 03 16:00:33 GMT 2023

Observation	<p>Proposal 1264, Observation 13: SPT0311-58 NIRSpec</p> <p>Diagnostic Status: Warning</p> <p>Observing Template: NIRSpec IFU Spectroscopy</p> <p><i>Comments: The PA is restricted to minimise potential MSA leakage contamination</i></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			
	(10)	SPT0311-58-NIRSPEC	RA: 03 11 33.2600 (47.8885833d) Dec: -58 23 33.50 (-58.39264d) Equinox: J2000									
	<p><i>Comments: Coordinates from Figure 1 in Marrone+18 adjusting FoV</i></p> <p><i>Category=Galaxy</i></p> <p><i>Description=[High-redshift galaxies, Infrared galaxies, Starburst galaxies]</i></p> <p><i>Extended=YES</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/Ex p	Leakcal	Dither	Autocal	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
	1	G395H/F290LP	NRSIRS2	25	1	false	true	NONE	4	4	7352.801	
	2	PRISM/CLEAR	NRSIRS2RAPI D	60	1	false	true	NONE	4	4	3559.689	
	3	PRISM/CLEAR	NRSIRS2RAPI D	60	1	true	false	NONE	1	1	889.922	
Special Requirements	<p>Aperture PA Range 125.89297485 to 158.89297485 Degrees (V3 346.92044067 to 19.92044067)</p> <p>Aperture PA Range 238.89297485 to 278.89297485 Degrees (V3 99.92044067 to 139.92044067)</p> <p>Aperture PA Range 353.89297485 to 1.89297485 Degrees (V3 214.92044067 to 222.92044067)</p>											