



3257 - A systematic search for warm molecular gas in AGN and star forming galaxies at $z=2$ with MIRI

Cycle: 2, Proposal Category: GO

INVESTIGATORS

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<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>
obs_zc407376				
	1		MIRI Medium Resolution Spectroscopy	(1) SF-ZC-407376
obs_zc407302				
	2		MIRI Medium Resolution Spectroscopy	(2) SF-ZC-407302
obs_Q2343MD59				
	3		MIRI Medium Resolution Spectroscopy	(3) SF-Q2343MD59
obs_ALESS067.1				
	4		MIRI Medium Resolution Spectroscopy	(4) SF-ALESS067.1
obs_HORSESHOE				
	5		MIRI Medium Resolution Spectroscopy	(5) SF-HORSESHOE
obs_cid_1205				
	7		MIRI Medium Resolution Spectroscopy	(7) AGN-CID-1205
obs_cid_467				
	8		MIRI Medium Resolution Spectroscopy	(8) AGN-CID-467
obs_cid_86				
	9		MIRI Medium Resolution Spectroscopy	(9) AGN-CID-86
obs_cid_971				
	10		MIRI Medium Resolution Spectroscopy	(10) AGN-CID-971
obs_xn_81_44				
	11		MIRI Medium Resolution Spectroscopy	(6) AGN-XN-81-44

ABSTRACT

Feedback from Active Galactic Nuclei (AGN) have become the cornerstones of cosmological hydrodynamical simulations and they are believed to regulate the star formation in their host galaxies. A promising way to gauge the impact of AGN on the interstellar medium is by tracing their molecular gas content, as the gas experiences an immediate impact of the radiation, jets or outflows from the AGN, compared to star formation. Recent ALMA observations targeting CO emission in mass-matched sample of AGN and non-AGN host galaxies at high redshift have suggested that

AGN display lower cold molecular gas content compared to their non-AGN counterparts. One of the hypothesis to explain this difference is the molecular gas in AGN host galaxies could be present in the warm molecular gas phase, traced using rest-frame near-infrared ro-vibrational transitions. This proposal aims to trace warm molecular gas via rest-frame H₂ 2.12 μ m transition in a mass-matched sample of AGN and non-AGN host galaxies at $z \sim 2.2$ using MIRI/MRS. The selected sample is complemented by ground-based ionised gas and cold molecular gas observations. We will test if AGN host galaxies show a systematic difference in their warm molecular gas content compared to the non-AGN galaxies. We will also compute the total gas mass (ionised+molecular) in these galaxies which will provide a key input to current models of AGN feedback.

OBSERVING DESCRIPTION

In this proposal, we will target the warm component of the molecular gas, traced using the ro-vibrational near-infrared emission lines in a sample of ten AGN and star forming galaxies at redshift, $z \sim 2.2$. At the redshift of these targets, the warm molecular gas is redshifted to the mid-infrared wavelengths and JWST/MRS is the only instrument capable of providing the required spectral resolution in tracing this gas phase.

We will observe a total of ten targets - five AGN and five star forming galaxies. We will use the Channel-1 long configuration (C) of the MRS instrument. No target acquisition will be performed as the absolute JWST pointing accuracy of 0.1 arcsec is sufficient given the size of our targets (at most 1 arcsec, estimated from ionised and molecular gas observations). Given the target size, we will use a 2-point dither pattern optimized for point sources.

Proposal 3257 - Targets - A systematic search for warm molecular gas in AGN and star forming galaxies at z=2 with MIRI

#	Name	Target Coordinates	Targ. Coord. Corrections	Miscellaneous	
(1)	SF-ZC-407376	RA: 10 00 45.1300 (150.1880417d) Dec: +02 07 5.20 (2.11811d) Equinox: J2000			
<i>Comments:</i> <i>Category=Galaxy</i> <i>Description=[High-redshift galaxies]</i> <i>Extended=YES</i>					
(2)	SF-ZC-407302	RA: 09 59 55.9400 (149.9830833d) Dec: +02 06 51.30 (2.11425d) Equinox: J2000			
<i>Comments:</i> <i>Category=Galaxy</i> <i>Description=[High-redshift galaxies]</i> <i>Extended=YES</i>					
(3)	SF-Q2343MD59	RA: 23 46 26.9000 (356.6120833d) Dec: +12 47 39.90 (12.79442d) Equinox: J2000			
<i>Comments:</i> <i>Category=Galaxy</i> <i>Description=[High-redshift galaxies]</i> <i>Extended=YES</i>					
Fixed Targets	(4)	SF-ALESS067.1	RA: 03 32 43.1760 (53.1799000d) Dec: -27 55 12.00 (-27.92000d) Equinox: J2000		
	<i>Comments:</i> <i>Category=Galaxy</i> <i>Description=[High-redshift galaxies]</i> <i>Extended=YES</i>				
	(5)	SF-HORSESHOE	RA: 11 48 33.2810 (177.1386708d) Dec: +19 29 59.94 (19.49998d) Equinox: J2000		
	<i>Comments:</i> <i>Category=Galaxy</i> <i>Description=[High-redshift galaxies]</i> <i>Extended=YES</i>				
	(6)	AGN-XN-81-44	RA: 02 17 30.9460 (34.3789417d) Dec: -04 18 23.66 (-4.30657d) Equinox: J2000		
	<i>Comments:</i> <i>Category=Galaxy</i> <i>Description=[High-redshift galaxies]</i> <i>Extended=YES</i>				
	(7)	AGN-CID-1205	RA: 10 00 2.5670 (150.0106958d) Dec: +02 19 58.44 (2.33290d) Equinox: J2000		
<i>Comments:</i> <i>Category=Galaxy</i> <i>Description=[Active galactic nuclei, High-redshift galaxies]</i> <i>Extended=YES</i>					

Proposal 3257 - Targets - A systematic search for warm molecular gas in AGN and star forming galaxies at z=2 with MIRI

(8)	AGN-CID-467	RA: 10 00 24.4810 (150.1020042d) Dec: +02 06 19.76 (2.10549d) Equinox: J2000
<p><i>Comments:</i> <i>Category=Galaxy</i> <i>Description=[Active galactic nuclei, High-redshift galaxies]</i> <i>Extended=YES</i></p>		
(9)	AGN-CID-86	RA: 10 00 28.7000 (150.1195833d) Dec: +02 17 45.27 (2.29591d) Equinox: J2000
<p><i>Comments:</i> <i>Category=Galaxy</i> <i>Description=[Active galactic nuclei, High-redshift galaxies]</i> <i>Extended=YES</i></p>		
(10)	AGN-CID-971	RA: 10 00 59.4470 (150.2476958d) Dec: +02 19 57.44 (2.33262d) Equinox: J2000
<p><i>Comments:</i> <i>Category=Galaxy</i> <i>Description=[Active galactic nuclei, Active galaxies, High-redshift galaxies]</i> <i>Extended=YES</i></p>		

Proposal 3257 - Observation 1 - A systematic search for warm molecular gas in AGN and star forming galaxies at z=2 with MIRI

Thu Feb 01 23:00:19 GMT 2024

Observation	Proposal 3257, Observation 1 Diagnostic Status: Warning Observing Template: MIRI Medium Resolution Spectroscopy												
	(Visit 1:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.												
Fixed Targets	#	Name	Target Coordinates				Targ. Coord. Corrections			Miscellaneous			
	(1)	SF-ZC-407376	RA: 10 00 45.1300 (150.1880417d) Dec: +02 07 5.20 (2.11811d) Equinox: J2000										
<i>Comments:</i> Category=Galaxy Description=[High-redshift galaxies] Extended=YES													
Acquisition	#	Target											
	1	NONE											
Template	AcqFilter	Primary Channel			Simultaneous Imaging			Imager Subarray		Grating Wheel Direction			
		Channel 1			NO			FULL		NEUTRAL			
Dithers	#	Dither Type				Optimized For				Direction			
	1	4-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	LONG(C)	MRSLONG		SLOWR1	24	1	1	Dither 1	4	4	2293.432	146265
	1	LONG(C)	MRSSHORT		SLOWR1	24	1	1	Dither 1	4	4	2293.432	146265
	2	LONG(C)	MRSLONG		SLOWR1	24	1	1	Dither 1	4	4	2293.432	
	2	LONG(C)	MRSSHORT		SLOWR1	24	1	1	Dither 1	4	4	2293.432	
	3	LONG(C)	MRSLONG		SLOWR1	24	1	1	Dither 1	4	4	2293.432	
	3	LONG(C)	MRSSHORT		SLOWR1	24	1	1	Dither 1	4	4	2293.432	
	3	LONG(C)	MRSSHORT		SLOWR1	24	1	1	Dither 1	4	4	2293.432	

Proposal 3257 - Observation 2 - A systematic search for warm molecular gas in AGN and star forming galaxies at z=2 with MIRI

Thu Feb 01 23:00:19 GMT 2024

Observation	Proposal 3257, Observation 2 Diagnostic Status: Warning Observing Template: MIRI Medium Resolution Spectroscopy												
	(Visit 2:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.												
Fixed Targets	#	Name	Target Coordinates				Targ. Coord. Corrections			Miscellaneous			
	(2)	SF-ZC-407302	RA: 09 59 55.9400 (149.9830833d) Dec: +02 06 51.30 (2.11425d) Equinox: J2000										
<i>Comments:</i> Category=Galaxy Description=[High-redshift galaxies] Extended=YES													
Acquisition	#	Target											
	1	NONE											
Template	AcqFilter	Primary Channel			Simultaneous Imaging			Imager Subarray		Grating Wheel Direction			
		Channel 1			NO			FULL		NEUTRAL			
Dithers	#	Dither Type				Optimized For				Direction			
	1	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	LONG(C)	MRSLONG		SLOWR1	24	1	1	Dither 1	4	4	2293.432	146265
	1	LONG(C)	MRSSHORT		SLOWR1	24	1	1	Dither 1	4	4	2293.432	146265
	2	LONG(C)	MRSLONG		SLOWR1	24	1	1	Dither 1	4	4	2293.432	
	2	LONG(C)	MRSSHORT		SLOWR1	24	1	1	Dither 1	4	4	2293.432	
	3	LONG(C)	MRSLONG		SLOWR1	24	1	1	Dither 1	4	4	2293.432	
	3	LONG(C)	MRSSHORT		SLOWR1	24	1	1	Dither 1	4	4	2293.432	

Proposal 3257 - Observation 3 - A systematic search for warm molecular gas in AGN and star forming galaxies at z=2 with MIRI

Thu Feb 01 23:00:19 GMT 2024

Observation	Proposal 3257, Observation 3 Diagnostic Status: Warning Observing Template: MIRI Medium Resolution Spectroscopy												
	(Visit 3:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.												
Fixed Targets	#	Name	Target Coordinates				Targ. Coord. Corrections			Miscellaneous			
	(3)	SF-Q2343MD59	RA: 23 46 26.9000 (356.6120833d) Dec: +12 47 39.90 (12.79442d) Equinox: J2000										
<i>Comments:</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			
		Channel 1			NO			FULL		NEUTRAL			
Dithers	#	Dither Type				Optimized For				Direction			
	1	4-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	MEDIUM(B)	MRSLONG		SLOWR1	24	1	1	Dither 1	4	4	2293.432	146265
	1	MEDIUM(B)	MRSSHORT		SLOWR1	24	1	1	Dither 1	4	4	2293.432	146265
	2	MEDIUM(B)	MRSLONG		SLOWR1	24	1	1	Dither 1	4	4	2293.432	
	2	MEDIUM(B)	MRSSHORT		SLOWR1	24	1	1	Dither 1	4	4	2293.432	
	3	MEDIUM(B)	MRSLONG		SLOWR1	24	1	1	Dither 1	4	4	2293.432	
	3	MEDIUM(B)	MRSSHORT		SLOWR1	24	1	1	Dither 1	4	4	2293.432	
	3	MEDIUM(B)	MRSSHORT		SLOWR1	24	1	1	Dither 1	4	4	2293.432	

Proposal 3257 - Observation 4 - A systematic search for warm molecular gas in AGN and star forming galaxies at z=2 with MIRI

Thu Feb 01 23:00:19 GMT 2024

Observation	Proposal 3257, Observation 4 Diagnostic Status: Warning Observing Template: MIRI Medium Resolution Spectroscopy												
	(Visit 4:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.												
Fixed Targets	#	Name	Target Coordinates			Targ. Coord. Corrections			Miscellaneous				
	(4)	SF-ALESS067.1	RA: 03 32 43.1760 (53.1799000d) Dec: -27 55 12.00 (-27.92000d) Equinox: J2000										
<i>Comments:</i> Category=Galaxy Description=[High-redshift galaxies] Extended=YES													
Acquisition	#	Target											
	1	NONE											
Template	AcqFilter	Primary Channel			Simultaneous Imaging		Imager Subarray		Grating Wheel Direction				
		Channel 1			NO		FULL		NEUTRAL				
Dithers	#	Dither Type			Optimized For			Direction					
	1	4-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	LONG(C)	MRSLONG		SLOWR1	24	1	1	Dither 1	4	4	2293.432	146265
	1	LONG(C)	MRSSHORT		SLOWR1	24	1	1	Dither 1	4	4	2293.432	146265
	2	LONG(C)	MRSLONG		SLOWR1	24	1	1	Dither 1	4	4	2293.432	
	2	LONG(C)	MRSSHORT		SLOWR1	24	1	1	Dither 1	4	4	2293.432	
	3	LONG(C)	MRSLONG		SLOWR1	24	1	1	Dither 1	4	4	2293.432	
	3	LONG(C)	MRSSHORT		SLOWR1	24	1	1	Dither 1	4	4	2293.432	
	3	LONG(C)	MRSSHORT		SLOWR1	24	1	1	Dither 1	4	4	2293.432	

Proposal 3257 - Observation 5 - A systematic search for warm molecular gas in AGN and star forming galaxies at z=2 with MIRI

Thu Feb 01 23:00:19 GMT 2024

Observation	Proposal 3257, Observation 5 Diagnostic Status: Warning Observing Template: MIRI Medium Resolution Spectroscopy												
	(Visit 5:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.												
Fixed Targets	#	Name	Target Coordinates		Targ. Coord. Corrections				Miscellaneous				
	(5)	SF-HORSESHOE	RA: 11 48 33.2810 (177.1386708d) Dec: +19 29 59.94 (19.49998d) Equinox: J2000										
Comments: Category=Galaxy Description=[High-redshift galaxies] Extended=YES													
Acquisition	#	Target											
	1	NONE											
Template	AcqFilter	Primary Channel		Simultaneous Imaging		Imager Subarray		Grating Wheel Direction					
		Channel 1		NO		FULL		NEUTRAL					
Dithers	#	Dither Type		Optimized For				Direction					
	1	4-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	LONG(C)	MRSLONG		SLOWR1	24	1	1	Dither 1	4	4	2293.432	146265
	1	LONG(C)	MRSSHORT		SLOWR1	24	1	1	Dither 1	4	4	2293.432	146265
	2	LONG(C)	MRSLONG		SLOWR1	24	1	1	Dither 1	4	4	2293.432	
	2	LONG(C)	MRSSHORT		SLOWR1	24	1	1	Dither 1	4	4	2293.432	
	3	LONG(C)	MRSLONG		SLOWR1	24	1	1	Dither 1	4	4	2293.432	
	3	LONG(C)	MRSSHORT		SLOWR1	24	1	1	Dither 1	4	4	2293.432	

Proposal 3257 - Observation 7 - A systematic search for warm molecular gas in AGN and star forming galaxies at z=2 with MIRI

Thu Feb 01 23:00:19 GMT 2024

Observation	Proposal 3257, Observation 7 Diagnostic Status: Warning Observing Template: MIRI Medium Resolution Spectroscopy												
	(Visit 7:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.												
Fixed Targets	#	Name	Target Coordinates				Targ. Coord. Corrections			Miscellaneous			
	(7)	AGN-CID-1205	RA: 10 00 2.5670 (150.0106958d) Dec: +02 19 58.44 (2.33290d) Equinox: J2000										
<i>Comments:</i> Category=Galaxy Description=[Active galactic nuclei, High-redshift galaxies] Extended=YES													
Acquisition	#	Target											
	1	NONE											
Template	AcqFilter	Primary Channel			Simultaneous Imaging			Imager Subarray		Grating Wheel Direction			
		Channel 1			NO			FULL		NEUTRAL			
Dithers	#	Dither Type				Optimized For				Direction			
	1	4-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	LONG(C)	MRSLONG		SLOWR1	24	1	1	Dither 1	4	4	2293.432	146265
	1	LONG(C)	MRSSHORT		SLOWR1	24	1	1	Dither 1	4	4	2293.432	146265
	2	LONG(C)	MRSLONG		SLOWR1	24	1	1	Dither 1	4	4	2293.432	
	2	LONG(C)	MRSSHORT		SLOWR1	24	1	1	Dither 1	4	4	2293.432	
	3	LONG(C)	MRSLONG		SLOWR1	24	1	1	Dither 1	4	4	2293.432	
	3	LONG(C)	MRSSHORT		SLOWR1	24	1	1	Dither 1	4	4	2293.432	
	3	LONG(C)	MRSSHORT		SLOWR1	24	1	1	Dither 1	4	4	2293.432	

Proposal 3257 - Observation 8 - A systematic search for warm molecular gas in AGN and star forming galaxies at z=2 with MIRI

Thu Feb 01 23:00:19 GMT 2024

Observation	Proposal 3257, Observation 8 Diagnostic Status: Warning Observing Template: MIRI Medium Resolution Spectroscopy												
	(Visit 8:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.												
Fixed Targets	#	Name	Target Coordinates		Targ. Coord. Corrections				Miscellaneous				
	(8)	AGN-CID-467	RA: 10 00 24.4810 (150.1020042d) Dec: +02 06 19.76 (2.10549d) Equinox: J2000										
Comments: Category=Galaxy Description=[Active galactic nuclei, High-redshift galaxies] Extended=YES													
Acquisition	#	Target											
	1	NONE											
Template	AcqFilter	Primary Channel		Simultaneous Imaging		Imager Subarray		Grating Wheel Direction					
		Channel 1		NO		FULL		NEUTRAL					
Dithers	#	Dither Type			Optimized For				Direction				
	1	4-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	LONG(C)	MRSLONG		SLOWR1	24	1	1	Dither 1	4	4	2293.432	146265
	1	LONG(C)	MRSSHORT		SLOWR1	24	1	1	Dither 1	4	4	2293.432	146265
	2	LONG(C)	MRSLONG		SLOWR1	24	1	1	Dither 1	4	4	2293.432	
	2	LONG(C)	MRSSHORT		SLOWR1	24	1	1	Dither 1	4	4	2293.432	
	3	LONG(C)	MRSLONG		SLOWR1	24	1	1	Dither 1	4	4	2293.432	
	3	LONG(C)	MRSSHORT		SLOWR1	24	1	1	Dither 1	4	4	2293.432	
	3	LONG(C)	MRSSHORT		SLOWR1	24	1	1	Dither 1	4	4	2293.432	

Proposal 3257 - Observation 9 - A systematic search for warm molecular gas in AGN and star forming galaxies at z=2 with MIRI

Thu Feb 01 23:00:19 GMT 2024

Observation	Proposal 3257, Observation 9 Diagnostic Status: Warning Observing Template: MIRI Medium Resolution Spectroscopy												
	(Visit 9:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.												
Fixed Targets	#	Name	Target Coordinates				Targ. Coord. Corrections			Miscellaneous			
	(9)	AGN-CID-86	RA: 10 00 28.7000 (150.1195833d) Dec: +02 17 45.27 (2.29591d) Equinox: J2000										
<i>Comments:</i> Category=Galaxy Description=[Active galactic nuclei, High-redshift galaxies] Extended=YES													
Acquisition	#	Target											
	1	NONE											
Template	AcqFilter	Primary Channel			Simultaneous Imaging			Imager Subarray		Grating Wheel Direction			
		Channel 1			NO			FULL		NEUTRAL			
Dithers	#	Dither Type				Optimized For				Direction			
	1	4-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	LONG(C)	MRSLONG		SLOWR1	24	1	1	Dither 1	4	4	2293.432	146265
	1	LONG(C)	MRSSHORT		SLOWR1	24	1	1	Dither 1	4	4	2293.432	146265
	2	LONG(C)	MRSLONG		SLOWR1	24	1	1	Dither 1	4	4	2293.432	
	2	LONG(C)	MRSSHORT		SLOWR1	24	1	1	Dither 1	4	4	2293.432	
	3	LONG(C)	MRSLONG		SLOWR1	24	1	1	Dither 1	4	4	2293.432	
	3	LONG(C)	MRSSHORT		SLOWR1	24	1	1	Dither 1	4	4	2293.432	
	3	LONG(C)	MRSSHORT		SLOWR1	24	1	1	Dither 1	4	4	2293.432	

Proposal 3257 - Observation 10 - A systematic search for warm molecular gas in AGN and star forming galaxies at z=2 with MIRI

Thu Feb 01 23:00:19 GMT 2024

Observation	Proposal 3257, Observation 10 Diagnostic Status: Warning Observing Template: MIRI Medium Resolution Spectroscopy												
	(Visit 10:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.												
Fixed Targets	#	Name	Target Coordinates			Targ. Coord. Corrections			Miscellaneous				
	(10)	AGN-CID-971	RA: 10 00 59.4470 (150.2476958d) Dec: +02 19 57.44 (2.33262d) Equinox: J2000										
<i>Comments:</i> Category=Galaxy Description=[Active galactic nuclei, Active galaxies, High-redshift galaxies] Extended=YES													
Acquisition	#	Target											
	1	NONE											
Template	AcqFilter	Primary Channel			Simultaneous Imaging		Imager Subarray		Grating Wheel Direction				
		Channel 1			NO		FULL		NEUTRAL				
Dithers	#	Dither Type			Optimized For			Direction					
	1	4-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	LONG(C)	MRSLONG		SLOWR1	24	1	1	Dither 1	4	4	2293.432	146265
	1	LONG(C)	MRSSHORT		SLOWR1	24	1	1	Dither 1	4	4	2293.432	146265
	2	LONG(C)	MRSLONG		SLOWR1	24	1	1	Dither 1	4	4	2293.432	
	2	LONG(C)	MRSSHORT		SLOWR1	24	1	1	Dither 1	4	4	2293.432	
	3	LONG(C)	MRSLONG		SLOWR1	24	1	1	Dither 1	4	4	2293.432	
	3	LONG(C)	MRSSHORT		SLOWR1	24	1	1	Dither 1	4	4	2293.432	
	3	LONG(C)	MRSSHORT		SLOWR1	24	1	1	Dither 1	4	4	2293.432	

Proposal 3257 - Observation 11 - A systematic search for warm molecular gas in AGN and star forming galaxies at z=2 with MIRI

Thu Feb 01 23:00:19 GMT 2024

Observation	Proposal 3257, Observation 11 Diagnostic Status: Warning Observing Template: MIRI Medium Resolution Spectroscopy												
	(Visit 11:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.												
Fixed Targets	#	Name	Target Coordinates			Targ. Coord. Corrections			Miscellaneous				
	(6)	AGN-XN-81-44	RA: 02 17 30.9460 (34.3789417d) Dec: -04 18 23.66 (-4.30657d) Equinox: J2000										
<i>Comments:</i> Category=Galaxy Description=[High-redshift galaxies] Extended=YES													
Acquisition	#	Target											
	1	NONE											
Template	AcqFilter	Primary Channel			Simultaneous Imaging			Imager Subarray		Grating Wheel Direction			
		Channel 1			NO			FULL		NEUTRAL			
Dithers	#	Dither Type			Optimized For			Direction					
	1	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	LONG(C)	MRSLONG		SLOWR1	21	1	1	Dither 1	4	4	2006.753	146265
	1	LONG(C)	MRSSHORT		SLOWR1	21	1	1	Dither 1	4	4	2006.753	146265
	2	LONG(C)	MRSLONG		SLOWR1	21	1	1	Dither 1	4	4	2006.753	
	2	LONG(C)	MRSSHORT		SLOWR1	21	1	1	Dither 1	4	4	2006.753	
	3	LONG(C)	MRSLONG		SLOWR1	20	1	1	Dither 1	4	4	1911.194	
	3	LONG(C)	MRSSHORT		SLOWR1	20	1	1	Dither 1	4	4	1911.194	