



6138 - MIRACLE: Mid-IR Activity of Circumnuclear Line Emission

Cycle: 3, 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	NGC1068-MIRI	MIRI Medium Resolution Spectroscopy	(1) NGC-1068-MRS
	2	NGC1068-BK MIRI	MIRI Medium Resolution Spectroscopy	(2) NGC-1068-BK
	3	NGC1808-MIRI	MIRI Medium Resolution Spectroscopy	(3) NGC-1808-MRS
	4	NGC1808-BK MIRI	MIRI Medium Resolution Spectroscopy	(4) NGC-1808-BK
	5	NGC1566-MIRI	MIRI Medium Resolution Spectroscopy	(5) NGC-1566-MRS
	6	NGC1566-BK MIRI	MIRI Medium Resolution Spectroscopy	(6) NGC-1566-BK
	7	NGC1365-MIRI	MIRI Medium Resolution Spectroscopy	(7) NGC-1365-MRS
	8	NGC1365-BK MIRI	MIRI Medium Resolution Spectroscopy	(8) NGC-1365-BK
	9	NGC4593-MIRI	MIRI Medium Resolution Spectroscopy	(9) NGC-4593-MRS
	10	NGC4593-BK MIRI	MIRI Medium Resolution Spectroscopy	(10) NGC-4593-BK
	11	NGC424-MIRI	MIRI Medium Resolution Spectroscopy	(11) NGC-424-MRS
	12	NGC424-BK MIRI	MIRI Medium Resolution Spectroscopy	(12) NGC-424-BK
	13	IC5063-MIRI	MIRI Medium Resolution Spectroscopy	(13) IC-5063-MRS
	14	IC5063-BK MIRI	MIRI Medium Resolution Spectroscopy	(14) IC-5063-BK
	15	NGC3783-MIRI	MIRI Medium Resolution Spectroscopy	(15) NGC-3783-MRS
	16	NGC3783-BK MIRI	MIRI Medium Resolution Spectroscopy	(16) NGC-3783-BK

ABSTRACT

Galaxy evolution is tightly connected to the central Active Galactic Nuclei (AGN) through the interplay between the accretion of gas onto the central super massive black hole (SMBH), the circumnuclear star-formation (SF) activity, and AGN feedback mechanisms. Recent results from ALMA and MUSE show that these mechanisms can be investigated by looking at inner regions of the AGN with high spatial (<100 pc) and spectral resolutions. JWST is already transforming our comprehension of galactic evolution, providing an unique insight on gas physics, morphology and kinematics at unprecedented spatial resolution. Employing MIRI we will have access to a plethora of low-to-high ionisation atomic emission lines and rotational transitions of H₂. With modern suites of photionisation and kinematic models, we will map the gas ionisation source, kinematics and morphology at 20-150pc resolution, for each gas phase. Finally, we will quantify the interplay between different gas flow phases at similar spital resolution,

constraining the gas flow energetics and impact on the ambient gas. Our sample of nearby Seyfert galaxies is selected to have confirmed molecular and ionised outflows, traced by CO and [OIII] emission. We will target the circumnuclear gas with MIRI IFU to cover the full spectral range from 5-29 microns

With the proposed observations we will provide the community with a long-lasting legacy value sample for all the future studies of local galaxies and the interactions between AGN and their hosts. Moreover, we will set the stage for more extensive studies of multi-phase and multi-scale gas physics, morphology, and kinematics.

OBSERVING DESCRIPTION

We will use MIRI to observe the mid-IR spectrum of 8 nearby Seyfert galaxies: NGC1068, NCG1808, NGC 1566, NGC1365, NGC4593, NGC424, IC5063 and NGC3783 We will obtain the full spectral coverage from 5 to 29micron of the circumnuclear region using MIRI in IFU MRS configuration. Exploiting the full diagnostic power of mid-IR features we will study the physical conditions of the atomic and molecular gas phases in the circumgalactic medium. This multi-phase view will enable us investigate how and to which extent the (total) AGN energetics and circumnuclear environment impact the properties and evolution of the host galaxy.

Observing strategy:

All our targets are very nearby and extended source. Therefore, we will need a 4-pt dither pattern for the MRS mode to improve the spatial sampling, choosing a dedicated background region for sky subtraction off the focus. For MIRI MRS we choose the FAST readout pattern for each of the three gratings (Short, Medium and Long). We computed the exposure times requiring a $S/N > 6$ per resolution element for the weakest line of interest in each grating (as inferred from the optical/UV spectra of the proposed targets). With the proposed observing times we estimated the other mid-IR emission lines to reach at least a $S/N > 20$. This set up will enable us to cover the emission features that trace the different phases of the circumnuclear medium: fine-structure emission lines from atomic gas, polycyclic aromatic hydrocarbon (PAH) features and warm molecular gas H₂ transitions, with a sufficient signal and spatial resolution to spatially resolve the each gas phase emission.

For our purposes we do not need to take MIRI images on the sources.

Justification of Special Requirements:

To be able to subtract in an efficient way the background noise, we require that all the MIRI/MRS observations of the nuclear regions are sequenced as non-interruptable with the corresponding MRS observations.

Proposal 6138 - Targets - MIRACLE: Mid-IR Activity of Circumnuclear Line Emission

#	Name	Target Coordinates	Targ. Coord. Corrections	Miscellaneous
(1)	NGC-1068-MRS	RA: 02 42 40.8000 (40.6700000d) Dec: -00 00 45.88 (-.01274d) Equinox: J2000	Epoch of Position: 2015.5	
<i>Comments:</i> Category=Galaxy Description=[Active galactic nuclei, Active galaxies] Extended=YES				
(2)	NGC-1068-BK	RA: 02 42 32.4600 (40.6352500d) Dec: +00 00 38.70 (.01075d) Equinox: J2000		
<i>Comments:</i> Category=Calibration Description=[Telescope/sky background]				
(3)	NGC-1808-MRS	RA: 05 07 42.4000 (76.9266667d) Dec: -37 30 47.03 (-37.51306d) Equinox: J2000	Epoch of Position: 2015.5	
<i>Comments:</i> Category=Galaxy Description=[Active galactic nuclei, Active galaxies] Extended=YES				
(4)	NGC-1808-BK	RA: 05 07 54.1400 (76.9755833d) Dec: -37 29 48.10 (-37.49669d) Equinox: J2000		
<i>Comments:</i> Category=Calibration Description=[Telescope/sky background]				
(5)	NGC-1566-MRS	RA: 04 20 0.2340 (65.0009750d) Dec: -54 56 17.17 (-54.93810d) Equinox: J2000	Epoch of Position: 2015.5	
<i>Comments:</i> Category=Galaxy Description=[Active galactic nuclei, Active galaxies] Extended=YES				
(6)	NGC-1566-BK	RA: 04 19 46.0000 (64.9416667d) Dec: -54 56 10.10 (-54.93614d) Equinox: J2000		
<i>Comments:</i> Category=Calibration Description=[Telescope/sky background]				
(7)	NGC-1365-MRS	RA: 03 33 36.5200 (53.4021667d) Dec: -36 08 26.72 (-36.14076d) Equinox: J2000	Epoch of Position: 2015.5	
<i>Comments:</i> Category=Galaxy Description=[Active galactic nuclei, Active galaxies] Extended=YES				

Fixed Targets

Proposal 6138 - Targets - MIRACLE: Mid-IR Activity of Circumnuclear Line Emission

(8)	NGC-1365-BK	RA: 03 33 19.0200 (53.3292500d) Dec: -36 05 53.90 (-36.09831d) Equinox: J2000	
<p><i>Comments:</i> <i>Category=Calibration</i> <i>Description=[Telescope/sky background]</i></p>			
(9)	NGC-4593-MRS	RA: 12 39 39.3500 (189.9139583d) Dec: -05 20 37.72 (-5.34381d) Equinox: J2000	Epoch of Position: 2015.5
<p><i>Comments:</i> <i>Category=Galaxy</i> <i>Description=[Active galactic nuclei, Active galaxies]</i> <i>Extended=YES</i></p>			
(10)	NGC-4593-BK	RA: 12 39 37.5365 (189.9064021d) Dec: -05 18 22.90 (-5.30636d) Equinox: J2000	
<p><i>Comments:</i> <i>Category=Calibration</i> <i>Description=[Telescope/sky background]</i></p>			
(11)	NGC-424-MRS	RA: 01 11 27.5500 (17.8647917d) Dec: -38 05 1.80 (-38.08383d) Equinox: J2000	Epoch of Position: 2015.5
<p><i>Comments:</i> <i>Category=Galaxy</i> <i>Description=[Active galactic nuclei, Active galaxies]</i> <i>Extended=YES</i></p>			
(12)	NGC-424-BK	RA: 01 11 27.0000 (17.8625000d) Dec: -38 04 20.00 (-38.07222d) Equinox: J2000	
<p><i>Comments:</i> <i>Category=Calibration</i> <i>Description=[Telescope/sky background]</i></p>			
(13)	IC-5063-MRS	RA: 20 52 2.2500 (313.0093750d) Dec: -57 04 0.60 (-57.06683d) Equinox: J2000	Epoch of Position: 2015.5
<p><i>Comments: This object was generated by the target selector and retrieved from the SIMBAD database.</i> <i>Category=Galaxy</i> <i>Description=[Active galactic nuclei, Active galaxies, Seyfert galaxies]</i> <i>Extended=YES</i></p>			
(14)	IC-5063-BK	RA: 20 52 17.9800 (313.0749167d) Dec: -57 02 25.50 (-57.04042d) Equinox: J2000	
<p><i>Comments:</i> <i>Category=Calibration</i> <i>Description=[Telescope/sky background]</i></p>			

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(15)	NGC-3783-MRS	RA: 11 39 1.7500 (174.7572917d) Dec: -37 44 17.50 (-37.73819d) Equinox: J2000	Epoch of Position: 2015.5
<i>Comments:</i> <i>Category=Galaxy</i> <i>Description=[Active galactic nuclei, Active galaxies]</i> <i>Extended=YES</i>			
(16)	NGC-3783-BK	RA: 11 39 7.8500 (174.7827083d) Dec: -37 43 52.80 (-37.73133d) Equinox: J2000	
<i>Comments:</i> <i>Category=Calibration</i> <i>Description=[Telescope/sky background]</i>			

Proposal 6138 - Observation 1 - MIRACLE: Mid-IR Activity of Circumnuclear Line Emission

Wed Aug 28 22:00:13 GMT 2024

Observation	Proposal 6138, Observation 1: NGC1068-MIRI Diagnostic Status: Warning Observing Template: MIRI Medium Resolution Spectroscopy Background Observations:[NGC1068-BK MIRI (Obs 2)]												
	(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)	NGC-1068-MRS	RA: 02 42 40.8000 (40.6700000d) Dec: -00 00 45.88 (-.01274d) Equinox: J2000				Epoch of Position: 2015.5						
<i>Comments:</i> Category=Galaxy Description=[Active galactic nuclei, Active galaxies] Extended=YES													
Acquisition	#	Target											
	1	NONE											
Template	AcqFilter	Primary Channel			Simultaneous Imaging			Imager Subarray		Grating Wheel Direction			
		All MRS			NO			FULL		Allow Auto Reorder			
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	SHORT(A)	MRSLONG		FASTR1	5	30	1	Dither 1	4	120	1986.929	
	1	SHORT(A)	MRSSHORT		FASTR1	5	30	1	Dither 1	4	120	1986.929	
	2	MEDIUM(B)	MRSLONG		FASTR1	5	30	1	Dither 1	4	120	1986.929	
	2	MEDIUM(B)	MRSSHORT		FASTR1	5	30	1	Dither 1	4	120	1986.929	
	3	LONG(C)	MRSLONG		FASTR1	5	30	1	Dither 1	4	120	1986.929	
	3	LONG(C)	MRSSHORT		FASTR1	5	30	1	Dither 1	4	120	1986.929	

Proposal 6138 - Observation 1 - MIRACLE: Mid-IR Activity of Circumnuclear Line Emission

Special Requirements

Sequence Observations 1, 2, Non-interruptible

Proposal 6138 - Observation 2 - MIRACLE: Mid-IR Activity of Circumnuclear Line Emission

Wed Aug 28 22:00:13 GMT 2024

Observation	Proposal 6138, Observation 2: NGC1068-BK MIRI Diagnostic Status: Warning Observing Template: MIRI Medium Resolution Spectroscopy Background Observation For: [NGC1068-MIRI (Obs 1)]																																																																																																							
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Proposal 6138 - Observation 2 - MIRACLE: Mid-IR Activity of Circumnuclear Line Emission

Special Requirements

Sequence Observations 1, 2, Non-interruptible

Proposal 6138 - Observation 3 - MIRACLE: Mid-IR Activity of Circumnuclear Line Emission

Wed Aug 28 22:00:13 GMT 2024

Observation	Proposal 6138, Observation 3: NGC1808-MIRI Diagnostic Status: Warning Observing Template: MIRI Medium Resolution Spectroscopy Background Observations:[NGC1808-BK MIRI (Obs 4)]												
	(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)	NGC-1808-MRS	RA: 05 07 42.4000 (76.9266667d) Dec: -37 30 47.03 (-37.51306d) Equinox: J2000				Epoch of Position: 2015.5						
<i>Comments:</i> Category=Galaxy Description=[Active galactic nuclei, Active galaxies] Extended=YES													
Acquisition	#	Target											
	1	NONE											
Template	AcqFilter	Primary Channel				Simultaneous Imaging			Imager Subarray		Grating Wheel Direction		
		All MRS				NO			FULL		Allow Auto Reorder		
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	SHORT(A)	MRSLONG		FASTR1	25	7	1	Dither 1	4	28	2009.129	
	1	SHORT(A)	MRSSHORT		FASTR1	25	7	1	Dither 1	4	28	2009.129	
	2	MEDIUM(B)	MRSLONG		FASTR1	25	7	1	Dither 1	4	28	2009.129	
	2	MEDIUM(B)	MRSSHORT		FASTR1	25	7	1	Dither 1	4	28	2009.129	
	3	LONG(C)	MRSLONG		FASTR1	25	7	1	Dither 1	4	28	2009.129	
	3	LONG(C)	MRSSHORT		FASTR1	25	7	1	Dither 1	4	28	2009.129	

Proposal 6138 - Observation 3 - MIRACLE: Mid-IR Activity of Circumnuclear Line Emission

Special Requirements

Sequence Observations 3, 4, Non-interruptible

Proposal 6138 - Observation 4 - MIRACLE: Mid-IR Activity of Circumnuclear Line Emission

Wed Aug 28 22:00:13 GMT 2024

Observation	Proposal 6138, Observation 4: NGC1808-BK MIRI Diagnostic Status: Warning Observing Template: MIRI Medium Resolution Spectroscopy Background Observation For: [NGC1808-MIRI (Obs 3)]												
Diagnostics	(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)	NGC-1808-BK	RA: 05 07 54.1400 (76.9755833d) Dec: -37 29 48.10 (-37.49669d) Equinox: J2000										
	Comments: Category=Calibration Description=[Telescope/sky background]												
Acquisition	#	Target											
	1	NONE											
Template	AcqFilter	Primary Channel			Simultaneous Imaging			Imager Subarray		Grating Wheel Direction			
		All MRS			NO			FULL		Allow Auto Reorder			
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	SHORT(A)	MRSLONG	FASTR1	25	7	1	Dither 1	4	28	2009.129	
		1	SHORT(A)	MRSSHORT	FASTR1	25	7	1	Dither 1	4	28	2009.129	
		2	MEDIUM(B)	MRSLONG	FASTR1	25	7	1	Dither 1	4	28	2009.129	
		2	MEDIUM(B)	MRSSHORT	FASTR1	25	7	1	Dither 1	4	28	2009.129	
		3	LONG(C)	MRSLONG	FASTR1	25	7	1	Dither 1	4	28	2009.129	
		3	LONG(C)	MRSSHORT	FASTR1	25	7	1	Dither 1	4	28	2009.129	

Proposal 6138 - Observation 4 - MIRACLE: Mid-IR Activity of Circumnuclear Line Emission

Special Requirements

Sequence Observations 3, 4, Non-interruptible

Proposal 6138 - Observation 5 - MIRACLE: Mid-IR Activity of Circumnuclear Line Emission

Wed Aug 28 22:00:14 GMT 2024

Observation	Proposal 6138, Observation 5: NGC1566-MIRI Diagnostic Status: Warning Observing Template: MIRI Medium Resolution Spectroscopy Background Observations:[NGC1566-BK MIRI (Obs 6)]												
	(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)	NGC-1566-MRS	RA: 04 20 0.2340 (65.0009750d) Dec: -54 56 17.17 (-54.93810d) Equinox: J2000			Epoch of Position: 2015.5							
Comments: Category=Galaxy Description=[Active galactic nuclei, Active galaxies] Extended=YES													
Acquisition	#	Target											
	1	NONE											
Template	AcqFilter	Primary Channel			Simultaneous Imaging			Imager Subarray		Grating Wheel Direction			
		All MRS			NO			FULL		Allow Auto Reorder			
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	SHORT(A)	MRSLONG		FASTR1	20	8	1	Dither 1	4	32	1853.727	
	1	SHORT(A)	MRSSHORT		FASTR1	20	8	1	Dither 1	4	32	1853.727	
	2	MEDIUM(B)	MRSLONG		FASTR1	20	8	1	Dither 1	4	32	1853.727	
	2	MEDIUM(B)	MRSSHORT		FASTR1	20	8	1	Dither 1	4	32	1853.727	
	3	LONG(C)	MRSLONG		FASTR1	20	8	1	Dither 1	4	32	1853.727	
	3	LONG(C)	MRSSHORT		FASTR1	20	8	1	Dither 1	4	32	1853.727	

Proposal 6138 - Observation 5 - MIRACLE: Mid-IR Activity of Circumnuclear Line Emission

Special Requirements

Sequence Observations 5, 6, Non-interruptible

Proposal 6138 - Observation 6 - MIRACLE: Mid-IR Activity of Circumnuclear Line Emission

Wed Aug 28 22:00:14 GMT 2024

Observation	Proposal 6138, Observation 6: NGC1566-BK MIRI Diagnostic Status: Warning Observing Template: MIRI Medium Resolution Spectroscopy Background Observation For: [NGC1566-MIRI (Obs 5)]												
Diagnostics	(Visit 6:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.												
Fixed Targets	#	Name	Target Coordinates				Targ. Coord. Corrections			Miscellaneous			
	(6)	NGC-1566-BK	RA: 04 19 46.0000 (64.9416667d) Dec: -54 56 10.10 (-54.93614d) Equinox: J2000										
	<i>Comments:</i> Category=Calibration Description=[Telescope/sky background]												
Acquisition	#											Target	
	1											NONE	
Template	AcqFilter	Primary Channel			Simultaneous Imaging			Imager Subarray			Grating Wheel Direction		
		All MRS			NO			FULL			Allow Auto Reorder		
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	SHORT(A)	MRSLONG	FASTR1	20	8	1	Dither 1	4	32	1853.727	
		1	SHORT(A)	MRSSHORT	FASTR1	20	8	1	Dither 1	4	32	1853.727	
		2	MEDIUM(B)	MRSLONG	FASTR1	20	8	1	Dither 1	4	32	1853.727	
		2	MEDIUM(B)	MRSSHORT	FASTR1	20	8	1	Dither 1	4	32	1853.727	
		3	LONG(C)	MRSLONG	FASTR1	20	8	1	Dither 1	4	32	1853.727	
		3	LONG(C)	MRSSHORT	FASTR1	20	8	1	Dither 1	4	32	1853.727	

Proposal 6138 - Observation 6 - MIRACLE: Mid-IR Activity of Circumnuclear Line Emission

Special Requirements

Sequence Observations 5, 6, Non-interruptible

Proposal 6138 - Observation 7 - MIRACLE: Mid-IR Activity of Circumnuclear Line Emission

Wed Aug 28 22:00:14 GMT 2024

Observation	Proposal 6138, Observation 7: NGC1365-MIRI Diagnostic Status: Warning Observing Template: MIRI Medium Resolution Spectroscopy Background Observations:[NGC1365-BK MIRI (Obs 8)]												
	(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)	NGC-1365-MRS	RA: 03 33 36.5200 (53.4021667d) Dec: -36 08 26.72 (-36.14076d) Equinox: J2000				Epoch of Position: 2015.5						
<i>Comments:</i> Category=Galaxy Description=[Active galactic nuclei, Active galaxies] Extended=YES													
Acquisition	#	Target											
	1	NONE											
Template	AcqFilter	Primary Channel				Simultaneous Imaging			Imager Subarray		Grating Wheel Direction		
		All MRS				NO			FULL		Allow Auto Reorder		
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	SHORT(A)	MRSLONG		FASTR1	16	12	1	Dither 1	4	48	2253.332	
	1	SHORT(A)	MRSSHORT		FASTR1	16	12	1	Dither 1	4	48	2253.332	
	2	MEDIUM(B)	MRSLONG		FASTR1	16	12	1	Dither 1	4	48	2253.332	
	2	MEDIUM(B)	MRSSHORT		FASTR1	16	12	1	Dither 1	4	48	2253.332	
	3	LONG(C)	MRSLONG		FASTR1	16	12	1	Dither 1	4	48	2253.332	
	3	LONG(C)	MRSSHORT		FASTR1	16	12	1	Dither 1	4	48	2253.332	

Proposal 6138 - Observation 7 - MIRACLE: Mid-IR Activity of Circumnuclear Line Emission

Special Requirements

Sequence Observations 7, 8, Non-interruptible

Proposal 6138 - Observation 8 - MIRACLE: Mid-IR Activity of Circumnuclear Line Emission

Wed Aug 28 22:00:14 GMT 2024

Observation	Proposal 6138, Observation 8: NGC1365-BK MIRI Diagnostic Status: Warning Observing Template: MIRI Medium Resolution Spectroscopy Background Observation For: [NGC1365-MIRI (Obs 7)]												
Diagnostics	(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)	NGC-1365-BK	RA: 03 33 19.0200 (53.3292500d) Dec: -36 05 53.90 (-36.09831d) Equinox: J2000										
	<i>Comments:</i> <i>Category=Calibration</i> <i>Description=[Telescope/sky background]</i>												
Acquisition	#											Target	
	1											NONE	
Template	AcqFilter	Primary Channel			Simultaneous Imaging			Imager Subarray		Grating Wheel Direction			
		All MRS			NO			FULL		Allow Auto Reorder			
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	SHORT(A)	MRSLONG	FASTR1	16	12	1	Dither 1	4	48	2253.332	
		1	SHORT(A)	MRSSHORT	FASTR1	16	12	1	Dither 1	4	48	2253.332	
		2	MEDIUM(B)	MRSLONG	FASTR1	16	12	1	Dither 1	4	48	2253.332	
		2	MEDIUM(B)	MRSSHORT	FASTR1	16	12	1	Dither 1	4	48	2253.332	
		3	LONG(C)	MRSLONG	FASTR1	16	12	1	Dither 1	4	48	2253.332	
		3	LONG(C)	MRSSHORT	FASTR1	16	12	1	Dither 1	4	48	2253.332	

Proposal 6138 - Observation 8 - MIRACLE: Mid-IR Activity of Circumnuclear Line Emission

Special Requirements

Sequence Observations 7, 8, Non-interruptible

Proposal 6138 - Observation 9 - MIRACLE: Mid-IR Activity of Circumnuclear Line Emission

Wed Aug 28 22:00:14 GMT 2024

Observation	Proposal 6138, Observation 9: NGC4593-MIRI Diagnostic Status: Warning Observing Template: MIRI Medium Resolution Spectroscopy Background Observations:[NGC4593-BK MIRI (Obs 10)]												
	(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)	NGC-4593-MRS	RA: 12 39 39.3500 (189.9139583d) Dec: -05 20 37.72 (-5.34381d) Equinox: J2000				Epoch of Position: 2015.5						
<i>Comments:</i> <i>Category=Galaxy</i> <i>Description=[Active galactic nuclei, Active galaxies]</i> <i>Extended=YES</i>													
Acquisition	#	Target											
	1	NONE											
Template	AcqFilter	Primary Channel			Simultaneous Imaging			Imager Subarray		Grating Wheel Direction			
		All MRS			NO			FULL		Allow Auto Reorder			
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	SHORT(A)	MRSLONG		FASTR1	50	3	1	Dither 1	4	12	1687.224	
	1	SHORT(A)	MRSSHORT		FASTR1	50	3	1	Dither 1	4	12	1687.224	
	2	MEDIUM(B)	MRSLONG		FASTR1	50	3	1	Dither 1	4	12	1687.224	
	2	MEDIUM(B)	MRSSHORT		FASTR1	50	3	1	Dither 1	4	12	1687.224	
	3	LONG(C)	MRSLONG		FASTR1	50	3	1	Dither 1	4	12	1687.224	
	3	LONG(C)	MRSSHORT		FASTR1	50	3	1	Dither 1	4	12	1687.224	

Proposal 6138 - Observation 9 - MIRACLE: Mid-IR Activity of Circumnuclear Line Emission

Special Requirements

Sequence Observations 9, 10, Non-interruptible

Proposal 6138 - Observation 10 - MIRACLE: Mid-IR Activity of Circumnuclear Line Emission

Wed Aug 28 22:00:14 GMT 2024

Observation	Proposal 6138, Observation 10: NGC4593-BK MIRI Diagnostic Status: Warning Observing Template: MIRI Medium Resolution Spectroscopy Background Observation For: [NGC4593-MIRI (Obs 9)]												
	(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)	NGC-4593-BK	RA: 12 39 37.5365 (189.9064021d) Dec: -05 18 22.90 (-5.30636d) Equinox: J2000 <i>Comments:</i> <i>Category=Calibration</i> <i>Description=[Telescope/sky background]</i>										
Acquisition	#	Target											
	1	NONE											
Template	AcqFilter	Primary Channel			Simultaneous Imaging			Imager Subarray		Grating Wheel Direction			
		All MRS			NO			FULL		Allow Auto Reorder			
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	SHORT(A)	MRSLONG		FASTR1	50	3	1	Dither 1	4	12	1687.224	
	1	SHORT(A)	MRSSHORT		FASTR1	50	3	1	Dither 1	4	12	1687.224	
	2	MEDIUM(B)	MRSLONG		FASTR1	50	3	1	Dither 1	4	12	1687.224	
	2	MEDIUM(B)	MRSSHORT		FASTR1	50	3	1	Dither 1	4	12	1687.224	
	3	LONG(C)	MRSLONG		FASTR1	50	3	1	Dither 1	4	12	1687.224	
	3	LONG(C)	MRSSHORT		FASTR1	50	3	1	Dither 1	4	12	1687.224	

Proposal 6138 - Observation 10 - MIRACLE: Mid-IR Activity of Circumnuclear Line Emission

Special Requirements

Sequence Observations 9, 10, Non-interruptible

Proposal 6138 - Observation 11 - MIRACLE: Mid-IR Activity of Circumnuclear Line Emission

Wed Aug 28 22:00:14 GMT 2024

Observation	<p>Proposal 6138, Observation 11: NGC424-MIRI</p> <p>Diagnostic Status: Warning</p> <p>Observing Template: MIRI Medium Resolution Spectroscopy</p> <p>Background Observations:[NGC424-BK MIRI (Obs 12)]</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				
	(11)	NGC-424-MRS	RA: 01 11 27.5500 (17.8647917d) Dec: -38 05 1.80 (-38.08383d) Equinox: J2000			Epoch of Position: 2015.5							
	<p><i>Comments:</i> <i>Category=Galaxy</i> <i>Description=[Active galactic nuclei, Active galaxies]</i> <i>Extended=YES</i></p>												
Acquisition	#	Target											
	1	NONE											
Template	AcqFilter	Primary Channel			Simultaneous Imaging			Imager Subarray		Grating Wheel Direction			
		All MRS			NO			FULL		Allow Auto Reorder			
Dithers	#	Dither Type				Optimized For				Direction			
	1	4-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	SHORT(A)	MRSLONG		FASTR1	25	8	1	Dither 1	4	32	2297.733	
	1	SHORT(A)	MRSSHORT		FASTR1	25	8	1	Dither 1	4	32	2297.733	
	2	MEDIUM(B)	MRSLONG		FASTR1	25	8	1	Dither 1	4	32	2297.733	
	2	MEDIUM(B)	MRSSHORT		FASTR1	25	8	1	Dither 1	4	32	2297.733	
	3	LONG(C)	MRSLONG		FASTR1	25	8	1	Dither 1	4	32	2297.733	
	3	LONG(C)	MRSSHORT		FASTR1	25	8	1	Dither 1	4	32	2297.733	

Special Requirements

Sequence Observations 11, 12, Non-interruptible

Proposal 6138 - Observation 12 - MIRACLE: Mid-IR Activity of Circumnuclear Line Emission

Wed Aug 28 22:00:14 GMT 2024

Observation	Proposal 6138, Observation 12: NGC424-BK MIRI Diagnostic Status: Warning Observing Template: MIRI Medium Resolution Spectroscopy Background Observation For: [NGC424-MIRI (Obs 11)]												
	(Visit 12:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.												
Fixed Targets	#	Name	Target Coordinates				Targ. Coord. Corrections			Miscellaneous			
	(12)	NGC-424-BK	RA: 01 11 27.0000 (17.8625000d) Dec: -38 04 20.00 (-38.07222d) Equinox: J2000 <i>Comments:</i> <i>Category=Calibration</i> <i>Description=[Telescope/sky background]</i>										
Acquisition	#	Target											
	1	NONE											
Template	AcqFilter	Primary Channel			Simultaneous Imaging			Imager Subarray		Grating Wheel Direction			
		All MRS			NO			FULL		Allow Auto Reorder			
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	SHORT(A)	MRSLONG		FASTR1	25	8	1	Dither 1	4	32	2297.733	
	1	SHORT(A)	MRSSHORT		FASTR1	25	8	1	Dither 1	4	32	2297.733	
	2	MEDIUM(B)	MRSLONG		FASTR1	25	8	1	Dither 1	4	32	2297.733	
	2	MEDIUM(B)	MRSSHORT		FASTR1	25	8	1	Dither 1	4	32	2297.733	
	3	LONG(C)	MRSLONG		FASTR1	25	8	1	Dither 1	4	32	2297.733	
	3	LONG(C)	MRSSHORT		FASTR1	25	8	1	Dither 1	4	32	2297.733	

Special Requirements

Sequence Observations 11, 12, Non-interruptible

Proposal 6138 - Observation 13 - MIRACLE: Mid-IR Activity of Circumnuclear Line Emission

Wed Aug 28 22:00:14 GMT 2024

Observation	Proposal 6138, Observation 13: IC5063-MIRI Diagnostic Status: Warning Observing Template: MIRI Medium Resolution Spectroscopy Background Observations:[IC5063-BK MIRI (Obs 14)]												
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				
	(13)	IC-5063-MRS	RA: 20 52 2.2500 (313.0093750d) Dec: -57 04 0.60 (-57.06683d) Equinox: J2000			Epoch of Position: 2015.5							
	Comments: This object was generated by the target selector and retrieved from the SIMBAD database. Category=Galaxy Description=[Active galactic nuclei, Active galaxies, Seyfert galaxies] Extended=YES												
Acquisition	#	Target											
	1	NONE											
Template	AcqFilter	Primary Channel			Simultaneous Imaging			Imager Subarray		Grating Wheel Direction			
		All MRS			NO			FULL		Allow Auto Reorder			
Dithers	#	Dither Type				Optimized For				Direction			
	1	4-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	SHORT(A)	MRSLONG	FASTR1	20	8	1	Dither 1	4	32	1853.727	
		1	SHORT(A)	MRSSHORT	FASTR1	20	8	1	Dither 1	4	32	1853.727	
		2	MEDIUM(B)	MRSLONG	FASTR1	20	8	1	Dither 1	4	32	1853.727	
		2	MEDIUM(B)	MRSSHORT	FASTR1	20	8	1	Dither 1	4	32	1853.727	
		3	LONG(C)	MRSLONG	FASTR1	20	8	1	Dither 1	4	32	1853.727	
		3	LONG(C)	MRSSHORT	FASTR1	20	8	1	Dither 1	4	32	1853.727	

Proposal 6138 - Observation 13 - MIRACLE: Mid-IR Activity of Circumnuclear Line Emission

Special Requirements

Sequence Observations 13, 14, Non-interruptible

Proposal 6138 - Observation 14 - MIRACLE: Mid-IR Activity of Circumnuclear Line Emission

Wed Aug 28 22:00:14 GMT 2024

Observation	Proposal 6138, Observation 14: IC5063-BK MIRI Diagnostic Status: Warning Observing Template: MIRI Medium Resolution Spectroscopy Background Observation For: [IC5063-MIRI (Obs 13)]												
	(Visit 14:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.												
Fixed Targets	#	Name	Target Coordinates				Targ. Coord. Corrections			Miscellaneous			
	(14)	IC-5063-BK	RA: 20 52 17.9800 (313.0749167d) Dec: -57 02 25.50 (-57.04042d) Equinox: J2000 <i>Comments:</i> <i>Category=Calibration</i> <i>Description=[Telescope/sky background]</i>										
Acquisition	#	Target											
	1	NONE											
Template	AcqFilter	Primary Channel			Simultaneous Imaging			Imager Subarray		Grating Wheel Direction			
		All MRS			NO			FULL		Allow Auto Reorder			
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	SHORT(A)	MRSLONG		FASTR1	20	8	1	Dither 1	4	32	1853.727	
	1	SHORT(A)	MRSSHORT		FASTR1	20	8	1	Dither 1	4	32	1853.727	
	2	MEDIUM(B)	MRSLONG		FASTR1	20	8	1	Dither 1	4	32	1853.727	
	2	MEDIUM(B)	MRSSHORT		FASTR1	20	8	1	Dither 1	4	32	1853.727	
	3	LONG(C)	MRSLONG		FASTR1	20	8	1	Dither 1	4	32	1853.727	
	3	LONG(C)	MRSSHORT		FASTR1	20	8	1	Dither 1	4	32	1853.727	

Special Requirements

Sequence Observations 13, 14, Non-interruptible

Proposal 6138 - Observation 15 - MIRACLE: Mid-IR Activity of Circumnuclear Line Emission

Wed Aug 28 22:00:14 GMT 2024

Observation	Proposal 6138, Observation 15: NGC3783-MIRI Diagnostic Status: Warning Observing Template: MIRI Medium Resolution Spectroscopy Background Observations:[NGC3783-BK MIRI (Obs 16)]												
	(Visit 15:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.												
Fixed Targets	#	Name	Target Coordinates			Targ. Coord. Corrections			Miscellaneous				
	(15)	NGC-3783-MRS	RA: 11 39 1.7500 (174.7572917d) Dec: -37 44 17.50 (-37.73819d) Equinox: J2000			Epoch of Position: 2015.5							
Comments: Category=Galaxy Description=[Active galactic nuclei, Active galaxies] Extended=YES													
Acquisition	#	Target											
	1	NONE											
Template	AcqFilter	Primary Channel			Simultaneous Imaging			Imager Subarray		Grating Wheel Direction			
		All MRS			NO			FULL		Allow Auto Reorder			
Dithers	#	Dither Type			Optimized For			Direction					
	1	4-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	SHORT(A)	MRSLONG		FASTR1	25	6	1	Dither 1	4	24	1720.525	
	1	SHORT(A)	MRSSHORT		FASTR1	25	6	1	Dither 1	4	24	1720.525	
	2	MEDIUM(B)	MRSLONG		FASTR1	25	6	1	Dither 1	4	24	1720.525	
	2	MEDIUM(B)	MRSSHORT		FASTR1	25	6	1	Dither 1	4	24	1720.525	
	3	LONG(C)	MRSLONG		FASTR1	25	6	1	Dither 1	4	24	1720.525	
	3	LONG(C)	MRSSHORT		FASTR1	25	6	1	Dither 1	4	24	1720.525	

Special Requirements

Sequence Observations 15, 16, Non-interruptible

Proposal 6138 - Observation 16 - MIRACLE: Mid-IR Activity of Circumnuclear Line Emission

Wed Aug 28 22:00:14 GMT 2024

Observation	Proposal 6138, Observation 16: NGC3783-BK MIRI Diagnostic Status: Warning Observing Template: MIRI Medium Resolution Spectroscopy Background Observation For: [NGC3783-MIRI (Obs 15)]												
	(Visit 16:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.												
Diagnosics													
Fixed Targets	#	Name	Target Coordinates				Targ. Coord. Corrections			Miscellaneous			
	(16)	NGC-3783-BK	RA: 11 39 7.8500 (174.7827083d) Dec: -37 43 52.80 (-37.73133d) Equinox: J2000										
<i>Comments:</i> <i>Category=Calibration</i> <i>Description=[Telescope/sky background]</i>													
Acquisition	#	Target											
	1	NONE											
Template	AcqFilter	Primary Channel			Simultaneous Imaging			Imager Subarray		Grating Wheel Direction			
		All MRS			NO			FULL		Allow Auto Reorder			
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	SHORT(A)	MRSLONG		FASTR1	25	6	1	Dither 1	4	24	1720.525	
	1	SHORT(A)	MRSSHORT		FASTR1	25	6	1	Dither 1	4	24	1720.525	
	2	MEDIUM(B)	MRSLONG		FASTR1	25	6	1	Dither 1	4	24	1720.525	
	2	MEDIUM(B)	MRSSHORT		FASTR1	25	6	1	Dither 1	4	24	1720.525	
	3	LONG(C)	MRSLONG		FASTR1	25	6	1	Dither 1	4	24	1720.525	
	3	LONG(C)	MRSSHORT		FASTR1	25	6	1	Dither 1	4	24	1720.525	

Special Requirements

Sequence Observations 15, 16, Non-interruptible