



1670 - Closing in on the launching sites of AGN outflows

Cycle: 1, Proposal Category: GO

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Dr. Tanio Diaz-Santos (CoI) (ESA Member)	FORTH - Institute of Astrophysics
Prof. Martin J. Ward (CoI) (ESA Member)	Durham Univ.

OBSERVATIONS

<i>Folder</i>	<i>Observation</i>	<i>Label</i>	<i>Observing Template</i>	<i>Science Target</i>
Observation Folder				
	1	NGC5506 background	MIRI Medium Resolution Spectroscopy	(7) NGC5506-BKG
	7	NGC5506-MRS	MIRI Medium Resolution Spectroscopy	(1) NGC5506
	3	ESO137-MRS	MIRI Medium Resolution Spectroscopy	(2) ESO137-G034
	8	ESO137-background	MIRI Medium Resolution Spectroscopy	(8) ESO137-G034-BKG
	4	NGC5728-MRS	MIRI Medium Resolution Spectroscopy	(3) NGC5728
	10	NGC5728-background	MIRI Medium Resolution Spectroscopy	(10) NGC5728-BKG
	5	NGC3081-background	MIRI Medium Resolution Spectroscopy	(11) NGC3081-BKG
	11	NGC3081-MRS	MIRI Medium Resolution Spectroscopy	(4) NGC3081
	2	NGC7172-background	MIRI Medium Resolution Spectroscopy	(9) NGC7172-BKG
	9	NGC7172-MRS	MIRI Medium Resolution Spectroscopy	(5) NGC7172
	6	MCG05-MRS	MIRI Medium Resolution Spectroscopy	(6) MCG-05-23-016
	12	MCG05-background	MIRI Medium Resolution Spectroscopy	(12) MCG-05-23-016-BKG

ABSTRACT

Supermassive black holes, and the outflows they drive, are an established part of our understanding of galaxy evolution. Indeed, cosmological models rely on outflows to reproduce the observed scaling relations. But the enormous range of outflow rates that are measured for AGN of the same luminosity, highlights a gaping hole in our understanding of how outflows are launched and driven. Our sample of AGN at similar distances and with similar luminosities, but with outflow rates differing by two orders of magnitude, provides the ideal opportunity to fill this gap. We will exploit the rich suite of diagnostics at 5-29 μ m with MIRI MRS integral field spectroscopy and the sensitivity and resolution of JWST. Our analysis is built on

the three cornerstones of molecular gas, ionized gas, and dust - observed together at the same resolution over the same scales, enabling us to build a holistic view of the central few hundred parsecs. From the spatially resolved kinematics we will construct geometrical models that provide a direct view of how gas is fed in from the circumnuclear disk through the obscuring torus and driven out in the outflow. We will associate the PAHs and the hot dust continuum to each of these components to test new models of the torus. And from the numerous line ratios, we will quantify the role of AGN versus stellar photoionization on the different structures. Piecing this together will enable us to highlight the physical processes that determine the prominence of the observed outflow, leading to a major advance in our understanding of the key mechanisms at the root of AGN fuelling and feedback.

OBSERVING DESCRIPTION

The aim of the observations is to use the MIRI MRS to obtain, for a small sample of AGN, spatially resolved distributions and kinematics of various key emission lines, as well as maps of the PAHS and dust. The target AGN have been chosen to be of similar luminosity and distance, but to cover a wide range of measured outflow rate (reflecting the range of observed line profiles). The observations therefore will be either single pointings or small mosaics defined from existing data, designed to cover the circumnuclear disk and the outflow out to scales of at most few hundred parsecs. The centre of the region of interest for each pointing/mosaic is the bright point source, which indicates the location of the AGN,

All 3 wavelength settings of MRS will be used, because the emission lines of interest (which include molecular gas, and both low and high excitation ionized gas) are spread throughout the full MIRI bandpass. All of these are needed in order to perform not just kinematic modelling, but also to model the excitation of the molecular and ionized gas.

Typically, a 4-point dither pattern is used. But for 1 object (NGC5506), the position angle scheduling constraints mean that it is more effective to define an 8-point linear mosaic along a specific direction, rather than have 2 dithered pointings.

The AGN are relatively luminous, and mid-infrared imaging shows that the central point source can be very bright. Because of this, and based on the known maximum central mid-infrared flux density, the detector set-up for each target has been defined to avoid saturation by limiting the number of groups in an integration. And the full integration times have been set in order to detect faint extended line emission, as need for the modelling. Each target can be observed in a single visit.

The necessary separate background observations have been set up with the same detector read-out strategy, and with a 2-point dither in order to ensure that the background frames are optimal.

We will obtain simultaneous imaging in 3 filters. During the MRS background exposures, the SUB256 imager field (this ensures we do not saturate the bright nucleus) is centered on the AGN, allowing us to map the continuum and silicate absorption out to larger scales than covered by the MRS.

Proposal 1670 - Targets - Closing in on the launching sites of AGN outflows

#	Name	Target Coordinates	Targ. Coord. Corrections	Miscellaneous	
(1)	NGC5506	RA: 14 13 14.8780 (213.3119917d) Dec: -03 12 27.76 (-3.20771d) Equinox: J2000	Epoch of Position: 2000	<i>Comments: Coordinates correspond to the nuclear near-infrared centroid from either NICMOS or WFC3 HST images, which have been aligned to the GAIA frame. They are in the J2000 ICRS frame, and are accurate to at least 0.1".</i> Category=Galaxy Description=[Active galactic nuclei]	
(2)	ESO137-G034	RA: 16 35 13.9950 (248.8083125d) Dec: -58 04 47.91 (-58.07997d) Equinox: J2000	Epoch of Position: 2000	<i>Comments: Coordinates correspond to the nuclear near-infrared centroid from either NICMOS or WFC3 HST images, which have been aligned to the GAIA frame. They are in the J2000 ICRS frame, and are accurate to at least 0.1".</i> Category=Galaxy Description=[Active galactic nuclei]	
(3)	NGC5728	RA: 14 42 23.8800 (220.5995000d) Dec: -17 15 11.08 (-17.25308d) Equinox: J2000	Epoch of Position: 2000	<i>Comments: Coordinates correspond to the nuclear near-infrared centroid from either NICMOS or WFC3 HST images, which have been aligned to the GAIA frame. They are in the J2000 ICRS frame, and are accurate to at least 0.1".</i> Category=Galaxy Description=[Active galactic nuclei]	
Fixed Targets	(4)	NGC3081	RA: 09 59 29.5340 (149.8730583d) Dec: -22 49 34.78 (-22.82633d) Equinox: J2000	Epoch of Position: 2000	<i>Comments: Coordinates correspond to the nuclear near-infrared centroid from either NICMOS or WFC3 HST images, which have been aligned to the GAIA frame. They are in the J2000 ICRS frame, and are accurate to at least 0.1".</i> Category=Galaxy Description=[Active galactic nuclei]
	(5)	NGC7172	RA: 22 02 1.8890 (330.5078708d) Dec: -31 52 10.47 (-31.86957d) Equinox: J2000	Epoch of Position: 2000	<i>Comments: Coordinates correspond to the nuclear near-infrared centroid from either NICMOS or WFC3 HST images, which have been aligned to the GAIA frame. They are in the J2000 ICRS frame, and are accurate to at least 0.1".</i> Category=Galaxy Description=[Active galactic nuclei]
	(6)	MCG-05-23-016	RA: 09 47 40.1350 (146.9172292d) Dec: -30 56 56.00 (-30.94889d) Equinox: J2000	Epoch of Position: 2000	<i>Comments: Coordinates correspond to the nuclear near-infrared centroid from either NICMOS or WFC3 HST images, which have been aligned to the GAIA frame. They are in the J2000 ICRS frame, and are accurate to at least 0.1".</i> Category=Galaxy Description=[Active galactic nuclei]
	(7)	NGC5506-BKG	RA: 14 13 22.3886 (213.3432858d) Dec: -03 12 12.55 (-3.20349d) Equinox: J2000	Epoch of Position: 2000	<i>Comments:</i> Category=Galaxy Description=[Active galactic nuclei] Extended=NO

Proposal 1670 - Targets - Closing in on the launching sites of AGN outflows

(8)	ESO137-G034-BKG	RA: 16 35 6.1787 (248.7757446d) Dec: -58 03 16.90 (-58.05469d) Equinox: J2000	Epoch of Position: 2000
<i>Comments:</i> Category=Galaxy Description=[Active galactic nuclei] Extended=NO			
(9)	NGC7172-BKG	RA: 22 01 56.9273 (330.4871971d) Dec: -31 50 37.53 (-31.84376d) Equinox: J2000	Epoch of Position: 2000
<i>Comments:</i> Category=Galaxy Description=[Active galactic nuclei] Extended=NO			
(10)	NGC5728-BKG	RA: 14 42 16.0311 (220.5667962d) Dec: -17 15 30.45 (-17.25846d) Equinox: J2000	Epoch of Position: 2000
<i>Comments:</i> Category=Galaxy Description=[Active galactic nuclei] Extended=NO			
(11)	NGC3081-BKG	RA: 09 59 21.4392 (149.8393300d) Dec: -22 49 23.10 (-22.82308d) Equinox: J2000	
<i>Comments:</i> Category=Galaxy Description=[Active galactic nuclei] Extended=NO			
(12)	MCG-05-23-016-BKG	RA: 09 47 35.2040 (146.8966833d) Dec: -30 55 21.95 (-30.92276d) Equinox: J2000	Epoch of Position: 2000
<i>Comments:</i> Category=Galaxy Description=[Active galactic nuclei] Extended=NO			

Proposal 1670 - Observation 1 - Closing in on the launching sites of AGN outflows

Tue May 30 17:02:48 GMT 2023

Observation	Proposal 1670, Observation 1: NGC5506 background Diagnostic Status: Warning Observing Template: MIRI Medium Resolution Spectroscopy Background Observation For: [NGC5506-MRS (Obs 7)]												
	(NGC5506 background (Obs 1)) Warning (Form): Imager Filter overlap. (Visit 1:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.												
Fixed Targets	#	Name	Target Coordinates				Targ. Coord. Corrections			Miscellaneous			
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<i>Comments:</i> <i>Category=Galaxy</i> <i>Description=[Active galactic nuclei]</i> <i>Extended=NO</i>													
Acquisition	#	Target											
	1	NONE											
Template	AcqFilter	Primary Channel				Simultaneous Imaging			Imager Subarray		Grating Wheel Direction		
		ALL				YES			SUB256		NEUTRAL		
Dithers	#	Dither Type				Optimized For				Direction			
	1	2-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	5	150	1	Dither 1	2	300	538.537	
	1	SHORT(A)	MRSLONG		FASTR1	24	4	1	Dither 1	2	8	549.458	
	1	SHORT(A)	MRSSHORT		FASTR1	24	4	1	Dither 1	2	8	549.458	
	2		IMAGER	F1000W	FASTR1	5	150	1	Dither 1	2	300	538.537	
	2	MEDIUM(B)	MRSLONG		FASTR1	24	4	1	Dither 1	2	8	549.458	
	2	MEDIUM(B)	MRSSHORT		FASTR1	24	4	1	Dither 1	2	8	549.458	
	3		IMAGER	F1500W	FASTR1	5	150	1	Dither 1	2	300	538.537	
	3	LONG(C)	MRSLONG		FASTR1	24	4	1	Dither 1	2	8	549.458	
	3	LONG(C)	MRSSHORT		FASTR1	24	4	1	Dither 1	2	8	549.458	

Proposal 1670 - Observation 1 - Closing in on the launching sites of AGN outflows

Special Requirements

Aperture PA Range 112 to 122 Degrees (V3 112.0 to 122.0)

Sequence Observations 1, 7, Non-interruptible

Proposal 1670 - Observation 7 - Closing in on the launching sites of AGN outflows

Tue May 30 17:02:48 GMT 2023

Observation	Proposal 1670, Observation 7: NGC5506-MRS Diagnostic Status: Warning Observing Template: MIRI Medium Resolution Spectroscopy Background Observations:[NGC5506 background (Obs 1)]																																																																																																																																													
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Proposal 1670 - Observation 7 - Closing in on the launching sites of AGN outflows

Special Requirements

Aperture PA Range 112 to 122 Degrees (V3 112.0 to 122.0)

Sequence Observations 1, 7, Non-interruptible

Proposal 1670 - Observation 3 - Closing in on the launching sites of AGN outflows

Tue May 30 17:02:48 GMT 2023

Observation	Proposal 1670, Observation 3: ESO137-MRS Diagnostic Status: Warning Observing Template: MIRI Medium Resolution Spectroscopy Background Observations:[ESO137-background (Obs 8)]												
	(ESO137-MRS (Obs 3)) Warning (Form): Imager Filter overlap. (ESO137-MRS (Obs 3)) Warning (Form): Imager subarrays besides FULL may cause data quality issues because they do not match the target acq subarray. (Visit 3:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.												
Fixed Targets	#	Name	Target Coordinates			Targ. Coord. Corrections			Miscellaneous				
	(2)	ESO137-G034	RA: 16 35 13.9950 (248.8083125d) Dec: -58 04 47.91 (-58.07997d) Equinox: J2000			Epoch of Position: 2000							
<i>Comments: Coordinates correspond to the nuclear near-infrared centroid from either NICMOS or WFC3 HST images, which have been aligned to the GAIA frame. They are in the J2000 ICRS frame, and are accurate to at least 0.1".</i> <i>Category=Galaxy</i> <i>Description=[Active galactic nuclei]</i>													
Acquisition	#	Target	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID				
	1	SAME	FND	FAST	4	1	1	11.1	52809.1				
Template	Primary Channel			Simultaneous Imaging			Imager Subarray			Grating Wheel Direction			
	ALL			YES			SUB256			NEUTRAL			
Mosaic	Rows	Columns	Row Overlap %		Column Overlap %		Row shift (deg)		Column shift (deg)		Tile Order		
	2	1	10.0		10.0		0.0		0.0		DEFAULT		
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		IMAGER	F560W	FASTR1	50	15	1	Dither 1	4	60	915.333	
	1	SHORT(A)	MRSLONG		SLOWR1	12	1	1	Dither 1	4	4	1146.716	
	1	SHORT(A)	MRSSHORT		SLOWR1	12	1	1	Dither 1	4	4	1146.716	
	2		IMAGER	F1000W	FASTR1	50	15	1	Dither 1	4	60	915.333	
	2	MEDIUM(B)	MRSLONG		SLOWR1	12	1	1	Dither 1	4	4	1146.716	
	2	MEDIUM(B)	MRSSHORT		SLOWR1	12	1	1	Dither 1	4	4	1146.716	
	3		IMAGER	F1500W	FASTR1	50	15	1	Dither 1	4	60	915.333	
	3	LONG(C)	MRSLONG		SLOWR1	12	1	1	Dither 1	4	4	1146.716	
	3	LONG(C)	MRSSHORT		SLOWR1	12	1	1	Dither 1	4	4	1146.716	

Proposal 1670 - Observation 3 - Closing in on the launching sites of AGN outflows

Special Requirements

Aperture PA Range 310 to 320 Degrees (V3 310.0 to 320.0)

Sequence Observations 3, 8, Non-interruptible

Proposal 1670 - Observation 8 - Closing in on the launching sites of AGN outflows

Tue May 30 17:02:48 GMT 2023

Observation	Proposal 1670, Observation 8: ESO137-background Diagnostic Status: Warning Observing Template: MIRI Medium Resolution Spectroscopy Background Observation For: [ESO137-MRS (Obs 3)]												
	(ESO137-background (Obs 8)) Warning (Form): Imager Filter overlap. (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)	ESO137-G034-BKG	RA: 16 35 6.1787 (248.7757446d) Dec: -58 03 16.90 (-58.05469d) Equinox: J2000			Epoch of Position: 2000							
Comments: Category=Galaxy Description=[Active galactic nuclei] Extended=NO													
Acquisition	#	Target											
	1	NONE											
Template	AcqFilter	Primary Channel			Simultaneous Imaging			Imager Subarray		Grating Wheel Direction			
		ALL			YES			SUB256		NEUTRAL			
Dithers	#	Dither Type			Optimized For			Direction					
	1	2-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	5	150	1	Dither 1	2	300	538.537	
	1	SHORT(A)	MRSLONG		SLOWR1	12	1	1	Dither 1	2	2	573.358	
	1	SHORT(A)	MRSSHORT		SLOWR1	12	1	1	Dither 1	2	2	573.358	
	2		IMAGER	F1000W	FASTR1	5	150	1	Dither 1	2	300	538.537	
	2	MEDIUM(B)	MRSLONG		SLOWR1	12	1	1	Dither 1	2	2	573.358	
	2	MEDIUM(B)	MRSSHORT		SLOWR1	12	1	1	Dither 1	2	2	573.358	
	3		IMAGER	F1500W	FASTR1	5	150	1	Dither 1	2	300	538.537	
	3	LONG(C)	MRSLONG		SLOWR1	12	1	1	Dither 1	2	2	573.358	
	3	LONG(C)	MRSSHORT		SLOWR1	12	1	1	Dither 1	2	2	573.358	

Proposal 1670 - Observation 8 - Closing in on the launching sites of AGN outflows

Special Requirements

Sequence Observations 3, 8, Non-interruptible

Proposal 1670 - Observation 4 - Closing in on the launching sites of AGN outflows

Tue May 30 17:02:48 GMT 2023

Observation	Proposal 1670, Observation 4: NGC5728-MRS Diagnostic Status: Warning Observing Template: MIRI Medium Resolution Spectroscopy Background Observations:[NGC5728-background (Obs 10)]												
	(NGC5728-MRS (Obs 4)) Warning (Form): Imager Filter overlap. (NGC5728-MRS (Obs 4)) Warning (Form): Imager subarrays besides FULL may cause data quality issues because they do not match the target acq subarray. (Visit 4:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.												
Fixed Targets	#	Name	Target Coordinates			Targ. Coord. Corrections			Miscellaneous				
	(3)	NGC5728	RA: 14 42 23.8800 (220.5995000d) Dec: -17 15 11.08 (-17.25308d) Equinox: J2000			Epoch of Position: 2000							
<i>Comments: Coordinates correspond to the nuclear near-infrared centroid from either NICMOS or WFC3 HST images, which have been aligned to the GAIA frame. They are in the J2000 ICRS frame, and are accurate to at least 0.1".</i> <i>Category=Galaxy</i> <i>Description=[Active galactic nuclei]</i>													
Acquisition	#	Target	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID				
	1	SAME	FND	FAST	4	1	1	11.1	52809.1				
Template	Primary Channel			Simultaneous Imaging			Imager Subarray			Grating Wheel Direction			
	ALL			YES			SUB256			NEUTRAL			
Mosaic	Rows	Columns	Row Overlap %	Column Overlap %	Row shift (deg)	Column shift (deg)	Tile Order						
	2	2	10.0	10.0	0.0	0.0	DEFAULT						
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		IMAGER	F1500W	FASTR1	50	15	1	Dither 1	4	60	915.333	
	1	LONG(C)	MRSLONG		SLOWR1	11	1	1	Dither 1	4	4	1051.156	
	1	LONG(C)	MRSSHORT		SLOWR1	11	1	1	Dither 1	4	4	1051.156	
	2		IMAGER	F1000W	FASTR1	50	15	1	Dither 1	4	60	915.333	
	2	MEDIUM(B)	MRSLONG		SLOWR1	11	1	1	Dither 1	4	4	1051.156	
	2	MEDIUM(B)	MRSSHORT		SLOWR1	11	1	1	Dither 1	4	4	1051.156	
	3		IMAGER	F560W	FASTR1	50	15	1	Dither 1	4	60	915.333	
	3	SHORT(A)	MRSLONG		SLOWR1	11	1	1	Dither 1	4	4	1051.156	
	3	SHORT(A)	MRSSHORT		SLOWR1	11	1	1	Dither 1	4	4	1051.156	

Proposal 1670 - Observation 4 - Closing in on the launching sites of AGN outflows

Special Requirements

Aperture PA Range 290 to 300 Degrees (V3 290.0 to 300.0)

Sequence Observations 4, 10, Non-interruptible

Proposal 1670 - Observation 10 - Closing in on the launching sites of AGN outflows

Tue May 30 17:02:48 GMT 2023

Observation	Proposal 1670, Observation 10: NGC5728-background Diagnostic Status: Warning Observing Template: MIRI Medium Resolution Spectroscopy Background Observation For: [NGC5728-MRS (Obs 4)]												
	(NGC5728-background (Obs 10)) Warning (Form): Imager Filter overlap. (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)	NGC5728-BKG	RA: 14 42 16.0311 (220.5667962d) Dec: -17 15 30.45 (-17.25846d) Equinox: J2000			Epoch of Position: 2000							
Comments: Category=Galaxy Description=[Active galactic nuclei] Extended=NO													
Acquisition	#	Target											
	1	NONE											
Template	AcqFilter	Primary Channel			Simultaneous Imaging			Imager Subarray		Grating Wheel Direction			
	FND	ALL			YES			SUB256		NEUTRAL			
Dithers	#	Dither Type			Optimized For			Direction					
	1	2-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	F1500W	FASTR1	5	150	1	Dither 1	2	300	538.537	
	1	LONG(C)	MRSLONG		SLOWR1	12	1	1	Dither 1	2	2	573.358	
	1	LONG(C)	MRSSHORT		SLOWR1	12	1	1	Dither 1	2	2	573.358	
	2		IMAGER	F1000W	FASTR1	5	150	1	Dither 1	2	300	538.537	
	2	MEDIUM(B)	MRSLONG		SLOWR1	12	1	1	Dither 1	2	2	573.358	
	2	MEDIUM(B)	MRSSHORT		SLOWR1	12	1	1	Dither 1	2	2	573.358	
	3		IMAGER	F560W	FASTR1	5	150	1	Dither 1	2	300	538.537	
	3	SHORT(A)	MRSLONG		SLOWR1	12	1	1	Dither 1	2	2	573.358	
	3	SHORT(A)	MRSSHORT		SLOWR1	12	1	1	Dither 1	2	2	573.358	

Proposal 1670 - Observation 10 - Closing in on the launching sites of AGN outflows

Special Requirements

Aperture PA Range 290 to 300 Degrees (V3 290.0 to 300.0)

Sequence Observations 4, 10, Non-interruptible

Proposal 1670 - Observation 5 - Closing in on the launching sites of AGN outflows

Tue May 30 17:02:48 GMT 2023

Observation	Proposal 1670, Observation 5: NGC3081-background Diagnostic Status: Warning Observing Template: MIRI Medium Resolution Spectroscopy Background Observation For: [NGC3081-MRS (Obs 11)]																																																																																																																																													
	(NGC3081-background (Obs 5)) Warning (Form): Imager Filter overlap. (Visit 5:1) Warning (Form): Overheads are provisional until the Visit Planner has been run. (Visit 5:1) 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.																																																																																																																																													
Diagnosics																																																																																																																																														
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>(11)</td> <td>NGC3081-BKG</td> <td>RA: 09 59 21.4392 (149.8393300d) Dec: -22 49 23.10 (-22.82308d) Equinox: J2000</td> <td></td> <td></td> </tr> </tbody> </table>												#	Name	Target Coordinates	Targ. Coord. Corrections	Miscellaneous	(11)	NGC3081-BKG	RA: 09 59 21.4392 (149.8393300d) Dec: -22 49 23.10 (-22.82308d) Equinox: J2000																																																																																																																										
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Spectral Elements	<table border="1"> <thead> <tr> <th>#</th> <th>Wavelength Range</th> <th>Detector</th> <th>Filter</th> <th>Readout Pattern</th> <th>Groups/Int</th> <th>Integrations/E xp</th> <th>Exposures/Dit h</th> <th>Dither</th> <th>Total Dithers</th> <th>Total Integrations</th> <th>Total Exposure Time</th> <th>ETC Wkbk.Calc ID</th> </tr> </thead> <tbody> <tr> <td>1</td> <td></td> <td>IMAGER</td> <td>F560W</td> <td>FASTR1</td> <td>5</td> <td>150</td> <td>1</td> <td>Dither 1</td> <td>2</td> <td>300</td> <td>538.537</td> <td></td> </tr> <tr> <td>1</td> <td>SHORT(A)</td> <td>MRSLONG</td> <td></td> <td>SLOWR1</td> <td>12</td> <td>1</td> <td>1</td> <td>Dither 1</td> <td>2</td> <td>2</td> <td>573.358</td> <td></td> </tr> <tr> <td>1</td> <td>SHORT(A)</td> <td>MRSSSHORT</td> <td></td> <td>SLOWR1</td> <td>12</td> <td>1</td> <td>1</td> <td>Dither 1</td> <td>2</td> <td>2</td> <td>573.358</td> <td></td> </tr> <tr> <td>2</td> <td></td> <td>IMAGER</td> <td>F1000W</td> <td>FASTR1</td> <td>5</td> <td>150</td> <td>1</td> <td>Dither 1</td> <td>2</td> <td>300</td> <td>538.537</td> <td></td> </tr> <tr> <td>2</td> <td>MEDIUM(B)</td> <td>MRSLONG</td> <td></td> <td>SLOWR1</td> <td>12</td> <td>1</td> <td>1</td> <td>Dither 1</td> <td>2</td> <td>2</td> <td>573.358</td> <td></td> </tr> <tr> <td>2</td> <td>MEDIUM(B)</td> <td>MRSSSHORT</td> <td></td> <td>SLOWR1</td> <td>12</td> <td>1</td> <td>1</td> <td>Dither 1</td> <td>2</td> <td>2</td> <td>573.358</td> <td></td> </tr> <tr> <td>3</td> <td></td> <td>IMAGER</td> <td>F1500W</td> <td>FASTR1</td> <td>5</td> <td>150</td> <td>1</td> <td>Dither 1</td> <td>2</td> <td>300</td> <td>538.537</td> <td></td> </tr> <tr> <td>3</td> <td>LONG(C)</td> <td>MRSLONG</td> <td></td> <td>SLOWR1</td> <td>12</td> <td>1</td> <td>1</td> <td>Dither 1</td> <td>2</td> <td>2</td> <td>573.358</td> <td></td> </tr> <tr> <td>3</td> <td>LONG(C)</td> <td>MRSSSHORT</td> <td></td> <td>SLOWR1</td> <td>12</td> <td>1</td> <td>1</td> <td>Dither 1</td> <td>2</td> <td>2</td> <td>573.358</td> <td></td> </tr> </tbody> </table>												#	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	5	150	1	Dither 1	2	300	538.537		1	SHORT(A)	MRSLONG		SLOWR1	12	1	1	Dither 1	2	2	573.358		1	SHORT(A)	MRSSSHORT		SLOWR1	12	1	1	Dither 1	2	2	573.358		2		IMAGER	F1000W	FASTR1	5	150	1	Dither 1	2	300	538.537		2	MEDIUM(B)	MRSLONG		SLOWR1	12	1	1	Dither 1	2	2	573.358		2	MEDIUM(B)	MRSSSHORT		SLOWR1	12	1	1	Dither 1	2	2	573.358		3		IMAGER	F1500W	FASTR1	5	150	1	Dither 1	2	300	538.537		3	LONG(C)	MRSLONG		SLOWR1	12	1	1	Dither 1	2	2	573.358		3	LONG(C)	MRSSSHORT		SLOWR1	12	1	1	Dither 1	2	2	573.358	
	#	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																																																																																																																																	
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	2		IMAGER	F1000W	FASTR1	5	150	1	Dither 1	2	300	538.537																																																																																																																																		
	2	MEDIUM(B)	MRSLONG		SLOWR1	12	1	1	Dither 1	2	2	573.358																																																																																																																																		
	2	MEDIUM(B)	MRSSSHORT		SLOWR1	12	1	1	Dither 1	2	2	573.358																																																																																																																																		
	3		IMAGER	F1500W	FASTR1	5	150	1	Dither 1	2	300	538.537																																																																																																																																		
	3	LONG(C)	MRSLONG		SLOWR1	12	1	1	Dither 1	2	2	573.358																																																																																																																																		
3	LONG(C)	MRSSSHORT		SLOWR1	12	1	1	Dither 1	2	2	573.358																																																																																																																																			

Proposal 1670 - Observation 5 - Closing in on the launching sites of AGN outflows

Special Requirements

Aperture PA Range 300 to 320 Degrees (V3 300.0 to 320.0)

Sequence Observations 5, 11, Non-interruptible

Proposal 1670 - Observation 11 - Closing in on the launching sites of AGN outflows

Tue May 30 17:02:48 GMT 2023

Observation	Proposal 1670, Observation 11: NGC3081-MRS Diagnostic Status: Warning Observing Template: MIRI Medium Resolution Spectroscopy Background Observations:[NGC3081-background (Obs 5)]												
	(NGC3081-MRS (Obs 11)) Warning (Form): Imager Filter overlap. (NGC3081-MRS (Obs 11)) Warning (Form): Imager subarrays besides FULL may cause data quality issues because they do not match the target acq subarray. (Visit 11:1) Warning (Form): Overheads are provisional until the Visit Planner has been run. (Visit 11:1) 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.												
Diagnosics													
Fixed Targets	#	Name	Target Coordinates			Targ. Coord. Corrections			Miscellaneous				
	(4)	NGC3081	RA: 09 59 29.5340 (149.8730583d) Dec: -22 49 34.78 (-22.82633d) Equinox: J2000										
<i>Comments: Coordinates correspond to the nuclear near-infrared centroid from either NICMOS or WFC3 HST images, which have been aligned to the GAIA frame. They are in the J2000 ICRS frame, and are accurate to at least 0.1".</i> <i>Category=Galaxy</i> <i>Description=[Active galactic nuclei]</i>													
Acquisition	#	Target	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID				
	1	SAME	FND	FAST	4	1	1	11.1	52809.1				
Template	Primary Channel			Simultaneous Imaging			Imager Subarray			Grating Wheel Direction			
	ALL			YES			SUB256			NEUTRAL			
Mosaic	Rows	Columns	Row Overlap %	Column Overlap %	Row shift (deg)	Column shift (deg)	Tile Order						
	2	2	10.0	10.0	0.0	0.0	DEFAULT						
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		IMAGER	F560W	FASTR1	50	15	1	Dither 1	4	60	915.333	
	1	SHORT(A)	MRSLONG		SLOWR1	12	1	1	Dither 1	4	4	1146.716	
	1	SHORT(A)	MRSSHORT		SLOWR1	12	1	1	Dither 1	4	4	1146.716	
	2		IMAGER	F1000W	FASTR1	50	15	1	Dither 1	4	60	915.333	
	2	MEDIUM(B)	MRSLONG		SLOWR1	12	1	1	Dither 1	4	4	1146.716	
	2	MEDIUM(B)	MRSSHORT		SLOWR1	12	1	1	Dither 1	4	4	1146.716	
	3		IMAGER	F1500W	FASTR1	50	15	1	Dither 1	4	60	915.333	
	3	LONG(C)	MRSLONG		SLOWR1	12	1	1	Dither 1	4	4	1146.716	
	3	LONG(C)	MRSSHORT		SLOWR1	12	1	1	Dither 1	4	4	1146.716	

Proposal 1670 - Observation 11 - Closing in on the launching sites of AGN outflows

Special Requirements

Aperture PA Range 300 to 320 Degrees (V3 300.0 to 320.0)

Sequence Observations 5, 11, Non-interruptible

Proposal 1670 - Observation 2 - Closing in on the launching sites of AGN outflows

Tue May 30 17:02:48 GMT 2023

Observation	Proposal 1670, Observation 2: NGC7172-background Diagnostic Status: Warning Observing Template: MIRI Medium Resolution Spectroscopy Background Observation For: [NGC7172-MRS (Obs 9)]												
	(NGC7172-background (Obs 2)) Warning (Form): Imager Filter overlap. (Visit 2:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.												
Fixed Targets	#	Name	Target Coordinates		Targ. Coord. Corrections			Miscellaneous					
	(9)	NGC7172-BKG	RA: 22 01 56.9273 (330.4871971d) Dec: -31 50 37.53 (-31.84376d) Equinox: J2000		Epoch of Position: 2000								
Comments: Category=Galaxy Description=[Active galactic nuclei] Extended=NO													
Acquisition	#	Target											
	1	NONE											
Template	AcqFilter	Primary Channel		Simultaneous Imaging		Imager Subarray		Grating Wheel Direction					
	FND	ALL		YES		SUB256		NEUTRAL					
Dithers	#	Dither Type			Optimized For			Direction					
	1	2-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	5	150	1	Dither 1	2	300	538.537	
	1	SHORT(A)	MRSLONG		FASTR1	50	2	1	Dither 1	2	4	560.558	
	1	SHORT(A)	MRSSHORT		FASTR1	50	2	1	Dither 1	2	4	560.558	
	2		IMAGER	F1000W	FASTR1	5	150	1	Dither 1	2	300	538.537	
	2	MEDIUM(B)	MRSLONG		FASTR1	100	1	1	Dither 1	2	2	555.008	
	2	MEDIUM(B)	MRSSHORT		FASTR1	100	1	1	Dither 1	2	2	555.008	
	3		IMAGER	F1500W	FASTR1	5	150	1	Dither 1	2	300	538.537	
	3	LONG(C)	MRSLONG		FASTR1	100	1	1	Dither 1	2	2	555.008	
	3	LONG(C)	MRSSHORT		FASTR1	100	1	1	Dither 1	2	2	555.008	

Proposal 1670 - Observation 2 - Closing in on the launching sites of AGN outflows

Special Requirements

Sequence Observations 2, 9, Non-interruptible

Proposal 1670 - Observation 9 - Closing in on the launching sites of AGN outflows

Tue May 30 17:02:48 GMT 2023

Observation	Proposal 1670, Observation 9: NGC7172-MRS Diagnostic Status: Warning Observing Template: MIRI Medium Resolution Spectroscopy Background Observations:[NGC7172-background (Obs 2)]																																																																																																																																													
	(NGC7172-MRS (Obs 9)) Warning (Form): Imager Filter overlap. (NGC7172-MRS (Obs 9)) Warning (Form): Imager subarrays besides FULL may cause data quality issues because they do not match the target acq subarray. (Visit 9:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.																																																																																																																																													
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Proposal 1670 - Observation 9 - Closing in on the launching sites of AGN outflows

Special Requirements

Sequence Observations 2, 9, Non-interruptible

Proposal 1670 - Observation 6 - Closing in on the launching sites of AGN outflows

Tue May 30 17:02:48 GMT 2023

Observation	Proposal 1670, Observation 6: MCG05-MRS Diagnostic Status: Warning Observing Template: MIRI Medium Resolution Spectroscopy Background Observations:[MCG05-background (Obs 12)]																																																																																																																																													
	(MCG05-MRS (Obs 6)) Warning (Form): Imager Filter overlap. (MCG05-MRS (Obs 6)) Warning (Form): Imager subarrays besides FULL may cause data quality issues because they do not match the target acq subarray. (Visit 6:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.																																																																																																																																													
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Proposal 1670 - Observation 6 - Closing in on the launching sites of AGN outflows

Special Requirements

Sequence Observations 6, 12, Non-interruptible

Proposal 1670 - Observation 12 - Closing in on the launching sites of AGN outflows

Tue May 30 17:02:48 GMT 2023

Observation	Proposal 1670, Observation 12: MCG05-background Diagnostic Status: Warning Observing Template: MIRI Medium Resolution Spectroscopy Background Observation For: [MCG05-MRS (Obs 6)]												
	(MCG05-background (Obs 12)) Warning (Form): Imager Filter overlap. (Visit 12:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.												
Diagnosics													
Fixed Targets	#	Name	Target Coordinates			Targ. Coord. Corrections			Miscellaneous				
	(12)	MCG-05-23-016-BKG	RA: 09 47 35.2040 (146.8966833d) Dec: -30 55 21.95 (-30.92276d) Equinox: J2000			Epoch of Position: 2000							
Comments: Category=Galaxy Description=[Active galactic nuclei] Extended=NO													
Acquisition	#	Target											
	1	NONE											
Template	AcqFilter	Primary Channel			Simultaneous Imaging			Imager Subarray		Grating Wheel Direction			
	FND	ALL			YES			SUB256		NEUTRAL			
Dithers	#	Dither Type			Optimized For			Direction					
	1	2-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	5	150	1	Dither 1	2	300	538.537	
	1	LONG(C)	MRSLONG		FASTR1	50	2	1	Dither 1	2	4	560.558	
	1	LONG(C)	MRSSHORT		FASTR1	50	2	1	Dither 1	2	4	560.558	
	2		IMAGER	F1000W	FASTR1	5	150	1	Dither 1	2	300	538.537	
	2	MEDIUM(B)	MRSLONG		FASTR1	50	2	1	Dither 1	2	4	560.558	
	2	MEDIUM(B)	MRSSHORT		FASTR1	50	2	1	Dither 1	2	4	560.558	
	3		IMAGER	F1500W	FASTR1	5	150	1	Dither 1	2	300	538.537	
	3	SHORT(A)	MRSLONG		FASTR1	33	3	1	Dither 1	2	6	560.558	
	3	SHORT(A)	MRSSHORT		FASTR1	33	3	1	Dither 1	2	6	560.558	

Proposal 1670 - Observation 12 - Closing in on the launching sites of AGN outflows

Special Requirements

Sequence Observations 6, 12, Non-interruptible