



3535 - Unveiling the AGN-host connection with PAH molecules

Cycle: 2, Proposal Category: GO

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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	4051_BKG	MIRI Medium Resolution Spectroscopy	(4) NGC-4051-BKG
	2	4051	MIRI Medium Resolution Spectroscopy	(1) NGC-4051
	3	4051_NIRSPEC	NIRSpec IFU Spectroscopy	(7) NGC-4051-NIRSpec
	4	3227_BKG	MIRI Medium Resolution Spectroscopy	(5) NGC-3227-BKG
	5	3227	MIRI Medium Resolution Spectroscopy	(2) NGC-3227
	6	3227_NIRSPEC	NIRSpec IFU Spectroscopy	(8) NGC-3227-NIRSpec
	7	7582_BKG	MIRI Medium Resolution Spectroscopy	(6) NGC-7582-BKG
	8	7582	MIRI Medium Resolution Spectroscopy	(3) NGC-7582
	9	NGC7582_NIRSPEC	NIRSpec IFU Spectroscopy	(9) NGC-7582-NIRSpec

ABSTRACT

Supermassive black holes (SMBHs) are believed to play an instrumental role in the evolution of their hosts. There is evidence that the AGN interacts with the dust and gas in the host galaxy. Material is also driven inwards from the interstellar medium of the host galaxy to fuel the central engine that could initiate star formation. Numerical simulations predict that in active galactic nuclei (AGN) star formation in the nuclear region is should be tightly correlated with the growth of the supermassive black hole.

Capitalising on existing JWST cycle 1 programs and targets we propose to obtain NIRSPEC/IFU & MIRI/MRS 2.9-28.5 micron observations of the central <350 pc regions of 3 well known nearby Seyfert galaxies, achieving typical resolutions of 10-60 pc.

Using spectral signatures from Polycyclic Aromatic Hydrocarbons (PAHs) and a host of mid-infrared fine structure lines and H₂ rotational transitions our goals are two-fold: (1) to probe the effects of the central AGN on the the interstellar medium (ISM) of the host galaxy as a function of

distance from the central engine. PAH emission and low excitation fine structure (FS) lines will also be used to trace nuclear star formation. (2) to investigate the role of the warm molecular gas in shielding PAH molecules (protect them from the AGN radiation field). This investigation is of paramount importance as PAHs are routinely used to measure SFR in AGN.

OBSERVING DESCRIPTION

We request observations of the nuclear regions of 3 Seyfert galaxies using NIRSpec and the grating/filter G394H/F290LP (2.9–5.1 microns) together with the full 4.9–28.5 microns range using all the channels on the MIRI/MRS. We will use a 4-point dither for the galaxy observations and obtain the recommended 2-point dither background observation for each target. To avoid saturation, we will use the NRSIRS2RAPID and FAST readout pattern mode for NIRSpec and MIRI/MRS, respectively. For NIRSpec we will use between 5 and 10 groups and 2/3 integrations for each dither point, and for MIRI/MRS we will use between 65 and 80 groups and 1 integration for each of the dither point. Additionally, in the case of MIRI/MRS observation we will obtain simultaneous observations with MIRI/MIRIM using three filters, namely, F560W, F770W, and F1130W. However, we do not restrict the PA of the background observations. Finally, we require one integration of the same number of groups for each NIRSpec observation to take care of leakage corrections.

Proposal 3535 - Targets - Unveiling the AGN-host connection with PAH molecules

#	Name	Target Coordinates	Targ. Coord. Corrections	Miscellaneous
(1)	NGC-4051	RA: 12 03 9.6141 (180.7900588d) Dec: +44 31 52.66 (44.53129d) Equinox: J2000	Proper Motion RA: 4.862989214659691E-6 sec of time/yr Proper Motion Dec: -6.299994765868178E-5 arcsec/yr Epoch of Position: 2015.5	
<p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> Category=Galaxy Description=[Active galactic nuclei, Active galaxies]</p>				
(2)	NGC-3227	RA: 10 23 30.5770 (155.8774042d) Dec: +19 51 54.28 (19.86508d) Equinox: J2000	Proper Motion RA: 1.1341540227101892E-5 sec of time/yr Proper Motion Dec: -3.8100006349850446E-4 arcsec/yr Epoch of Position: 2015.5	
<p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> Category=Galaxy Description=[Active galactic nuclei, Active galaxies]</p>				
(3)	NGC-7582	RA: 23 18 23.6210 (349.5984208d) Dec: -42 22 14.06 (-42.37057d) Equinox: J2000	Epoch of Position: 2015.5	
<p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> Category=Galaxy Description=[Active galactic nuclei, Active galaxies]</p>				
(4)	NGC-4051-BKG	RA: 12 03 25.0941 (180.8545587d) Dec: +44 32 28.17 (44.54116d) Equinox: J2000	Proper Motion RA: 4.862989214659691E-6 sec of time/yr Proper Motion Dec: -6.299994765868178E-5 arcsec/yr Epoch of Position: 2015.5	
<p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> Category=Calibration Description=[Telescope/sky background]</p>				
(5)	NGC-3227-BKG	RA: 10 23 39.6654 (155.9152725d) Dec: +19 51 7.88 (19.85219d) Equinox: J2000	Proper Motion RA: 1.1341540227101892E-5 sec of time/yr Proper Motion Dec: -3.8100006349850446E-4 arcsec/yr Epoch of Position: 2015.5	
<p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> Category=Calibration Description=[Telescope/sky background]</p>				
(6)	NGC-7582-BKG	RA: 23 18 19.2089 (349.5800371d) Dec: -42 18 53.38 (-42.31483d) Equinox: J2000	Epoch of Position: 2015.5	
<p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> Category=Calibration Description=[Telescope/sky background]</p>				
(7)	NGC-4051-NIRSpec	RA: 12 03 9.6141 (180.7900588d) Dec: +44 31 52.66 (44.53129d) Equinox: J2000	Proper Motion RA: 4.862989214659691E-6 sec of time/yr Proper Motion Dec: -6.299994765868178E-5 arcsec/yr Epoch of Position: 2015.5	
<p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> Category=Galaxy Description=[Active galactic nuclei, Active galaxies]</p>				

Fixed Targets

Proposal 3535 - Targets - Unveiling the AGN-host connection with PAH molecules

(8)	NGC-3227-NIRSpec	RA: 10 23 30.5770 (155.8774042d) Dec: +19 51 54.28 (19.86508d) Equinox: J2000	Proper Motion RA: 1.1341540227101892E-5 sec of time/yr Proper Motion Dec: -3.8100006349850446E-4 arcsec/yr Epoch of Position: 2015.5
<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> <i>Category=Galaxy</i> <i>Description=[Active galactic nuclei, Active galaxies]</i>			
(9)	NGC-7582-NIRSpec	RA: 23 18 23.6430 (349.5985125d) Dec: -42 22 13.54 (-42.37043d) Equinox: J2000	Epoch of Position: 2015.5
<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> <i>Category=Galaxy</i> <i>Description=[Active galactic nuclei, Active galaxies]</i>			

Proposal 3535 - Observation 1 - Unveiling the AGN-host connection with PAH molecules

Tue Feb 27 02:00:36 GMT 2024

Observation	Proposal 3535, Observation 1: 4051_BKG Diagnostic Status: Warning Observing Template: MIRI Medium Resolution Spectroscopy Background Observation For: [4051 (Obs 2)] <i>Comments: To avoid possible persistence issues we suggest to observe the background prior to the science observations.</i>												
	(Visit 1:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.												
Fixed Targets	#	Name	Target Coordinates			Targ. Coord. Corrections			Miscellaneous				
	(4)	NGC-4051-BKG	RA: 12 03 25.0941 (180.8545587d) Dec: +44 32 28.17 (44.54116d) Equinox: J2000			Proper Motion RA: 4.862989214659691E-6 sec of time/yr Proper Motion Dec: -6.299994765868178E-5 arcsec/yr Epoch of Position: 2015.5							
<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> Category=Calibration Description=[Telescope/sky background]													
Acquisition	#	Target											
	1	NONE											
Template	AcqFilter	Primary Channel			Simultaneous Imaging		Imager Subarray		Grating Wheel Direction				
		All MRS			YES		FULL		NEUTRAL				
Dithers	#	Dither Type			Optimized For			Direction					
	1	2-Point			EXTENDED SOURCE			NEGATIVE					
Spectral Elements	#	Wavelength Range	Detector	Filter	Readout Pattern	Groups/Int	Integrations/E xp	Exposures/Dit h	Dither	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
	1		IMAGER	F560W	FASTR1	5	13	1	Dither 1	2	26	427.356	
	1	SHORT(A)	MRSLONG		FASTR1	80	1	1	Dither 1	2	2	444.006	
	1	SHORT(A)	MRSSHORT		FASTR1	80	1	1	Dither 1	2	2	444.006	
	2		IMAGER	F770W	FASTR1	5	13	1	Dither 1	2	26	427.356	
	2	MEDIUM(B)	MRSLONG		FASTR1	80	1	1	Dither 1	2	2	444.006	
	2	MEDIUM(B)	MRSSHORT		FASTR1	80	1	1	Dither 1	2	2	444.006	
	3		IMAGER	F1130W	FASTR1	5	13	1	Dither 1	2	26	427.356	
	3	LONG(C)	MRSLONG		FASTR1	80	1	1	Dither 1	2	2	444.006	
	3	LONG(C)	MRSSHORT		FASTR1	80	1	1	Dither 1	2	2	444.006	

Proposal 3535 - Observation 1 - Unveiling the AGN-host connection with PAH molecules

Special Requirements

Sequence Observations 1, 2, Non-interruptible

Proposal 3535 - Observation 2 - Unveiling the AGN-host connection with PAH molecules

Tue Feb 27 02:00:36 GMT 2024

Observation	Proposal 3535, Observation 2: 4051 Diagnostic Status: Warning Observing Template: MIRI Medium Resolution Spectroscopy Background Observations:[4051_BKG (Obs 1)]												
	(Visit 2:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.												
Fixed Targets	#	Name	Target Coordinates			Targ. Coord. Corrections			Miscellaneous				
	(1)	NGC-4051	RA: 12 03 9.6141 (180.7900588d) Dec: +44 31 52.66 (44.53129d) Equinox: J2000			Proper Motion RA: 4.862989214659691E-6 sec of time/yr Proper Motion Dec: -6.299994765868178E-5 arcsec/yr Epoch of Position: 2015.5							
<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> Category=Galaxy Description=[Active galactic nuclei, Active galaxies]													
Acquisition	#	Target											
	1	NONE											
Template	AcqFilter	Primary Channel			Simultaneous Imaging		Imager Subarray		Grating Wheel Direction				
		All MRS			YES		FULL		NEUTRAL				
Dithers	#	Dither Type			Optimized For			Direction					
	1	4-Point			EXTENDED SOURCE			NEGATIVE					
Spectral Elements	#	Wavelength Range	Detector	Filter	Readout Pattern	Groups/Int	Integrations/E xp	Exposures/Dit h	Dither	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
	1		IMAGER	F560W	FASTR1	5	13	1	Dither 1	4	52	854.712	
	1	SHORT(A)	MRSLONG		FASTR1	80	1	1	Dither 1	4	4	888.013	
	1	SHORT(A)	MRSSHORT		FASTR1	80	1	1	Dither 1	4	4	888.013	
	2		IMAGER	F770W	FASTR1	5	13	1	Dither 1	4	52	854.712	
	2	MEDIUM(B)	MRSLONG		FASTR1	80	1	1	Dither 1	4	4	888.013	
	2	MEDIUM(B)	MRSSHORT		FASTR1	80	1	1	Dither 1	4	4	888.013	
	3		IMAGER	F1130W	FASTR1	5	13	1	Dither 1	4	52	854.712	
	3	LONG(C)	MRSLONG		FASTR1	80	1	1	Dither 1	4	4	888.013	
	3	LONG(C)	MRSSHORT		FASTR1	80	1	1	Dither 1	4	4	888.013	

Proposal 3535 - Observation 2 - Unveiling the AGN-host connection with PAH molecules

Special Requirements

Sequence Observations 1, 2, Non-interruptible

Proposal 3535 - Observation 3 - Unveiling the AGN-host connection with PAH molecules

Tue Feb 27 02:00:36 GMT 2024

Observation	<p>Proposal 3535, Observation 3: 4051_NIRSPEC</p> <p>Diagnostic Status: Warning</p> <p>Observing Template: NIRSpec IFU Spectroscopy</p>											
Diagnostics	(Visit 3:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.											
Fixed Targets	#	Name	Target Coordinates			Targ. Coord. Corrections			Miscellaneous			
	(7)	NGC-4051-NIRSpec	RA: 12 03 9.6141 (180.7900588d) Dec: +44 31 52.66 (44.53129d) Equinox: J2000			Proper Motion RA: 4.862989214659691E-6 sec of time/yr Proper Motion Dec: -6.299994765868178E-5 arcsec/yr Epoch of Position: 2015.5						
	<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> Category=Galaxy Description=[Active galactic nuclei, Active galaxies]											
Template	TA Method											
	NONE											
Dithers	#	Dither Type		Size	Starting Point		Number of Points	Points				
	1	CYCLING		MEDIUM	1		4					
Spectral Elements	#	Grating/Filter	Readout Pattern	Groups/Int	Integrations/Exp	Leakcal	Dither	Autocal	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
	1	G395H/F290LP	NRSRAPID	3	8	false	true	NONE	4	32	1374.307	
	2	G395H/F290LP	NRSRAPID	3	8	true	true	NONE	4	32	1374.307	

Proposal 3535 - Observation 4 - Unveiling the AGN-host connection with PAH molecules

Tue Feb 27 02:00:36 GMT 2024

Observation	Proposal 3535, Observation 4: 3227_BKG Diagnostic Status: Warning Observing Template: MIRI Medium Resolution Spectroscopy Background Observation For: [3227 (Obs 5)] <i>Comments: To avoid possible persistence issues we suggest to observe the background prior to the science observations.</i>												
	(Visit 4:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.												
Diagnosics													
Fixed Targets	#	Name	Target Coordinates			Targ. Coord. Corrections			Miscellaneous				
	(5)	NGC-3227-BKG	RA: 10 23 39.6654 (155.9152725d) Dec: +19 51 7.88 (19.85219d) Equinox: J2000			Proper Motion RA: 1.1341540227101892E-5 sec of time/yr Proper Motion Dec: -3.8100006349850446E-4 arcsec/yr Epoch of Position: 2015.5							
<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> Category=Calibration Description=[Telescope/sky background]													
Acquisition	#	Target											
	1	NONE											
Template	AcqFilter	Primary Channel			Simultaneous Imaging			Imager Subarray		Grating Wheel Direction			
		All MRS			YES			FULL		NEUTRAL			
Dithers	#	Dither Type			Optimized For			Direction					
	1	2-Point			EXTENDED SOURCE			NEGATIVE					
Spectral Elements	#	Wavelength Range	Detector	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Exposures/Dith	Dither	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
	1		IMAGER	F560W	FASTR1	5	13	1	Dither 1	2	26	427.356	
	1	SHORT(A)	MRSLONG		FASTR1	80	1	1	Dither 1	2	2	444.006	
	1	SHORT(A)	MRSSHORT		FASTR1	80	1	1	Dither 1	2	2	444.006	
	2		IMAGER	F770W	FASTR1	5	13	1	Dither 1	2	26	427.356	
	2	MEDIUM(B)	MRSLONG		FASTR1	80	1	1	Dither 1	2	2	444.006	
	2	MEDIUM(B)	MRSSHORT		FASTR1	80	1	1	Dither 1	2	2	444.006	
	3		IMAGER	F1130W	FASTR1	5	17	1	Dither 1	2	34	560.558	
	3	LONG(C)	MRSLONG		FASTR1	105	1	1	Dither 1	2	2	582.758	
	3	LONG(C)	MRSSHORT		FASTR1	105	1	1	Dither 1	2	2	582.758	

Proposal 3535 - Observation 4 - Unveiling the AGN-host connection with PAH molecules

Special Requirements

Sequence Observations 4, 5, Non-interruptible

Proposal 3535 - Observation 5 - Unveiling the AGN-host connection with PAH molecules

Tue Feb 27 02:00:36 GMT 2024

Observation	Proposal 3535, Observation 5: 3227 Diagnostic Status: Warning Observing Template: MIRI Medium Resolution Spectroscopy Background Observations:[3227_BKG (Obs 4)]												
	(Visit 5:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.												
Fixed Targets	#	Name	Target Coordinates				Targ. Coord. Corrections			Miscellaneous			
	(2)	NGC-3227	RA: 10 23 30.5770 (155.8774042d) Dec: +19 51 54.28 (19.86508d) Equinox: J2000				Proper Motion RA: 1.1341540227101892E-5 sec of time/yr Proper Motion Dec: -3.8100006349850446E-4 arcsec/yr Epoch of Position: 2015.5						
<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> Category=Galaxy Description=[Active galactic nuclei, Active galaxies]													
Acquisition	#	Target											
	1	NONE											
Template	AcqFilter	Primary Channel				Simultaneous Imaging			Imager Subarray		Grating Wheel Direction		
		All MRS				YES			FULL		NEUTRAL		
Dithers	#	Dither Type				Optimized For				Direction			
	1	4-Point				EXTENDED SOURCE				NEGATIVE			
Spectral Elements	#	Wavelength Range	Detector	Filter	Readout Pattern	Groups/Int	Integrations/E xp	Exposures/Dit h	Dither	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
	1		IMAGER	F560W	FASTR1	5	13	1	Dither 1	4	52	854.712	
	1	SHORT(A)	MRSLONG		FASTR1	80	1	1	Dither 1	4	4	888.013	
	1	SHORT(A)	MRSSHORT		FASTR1	80	1	1	Dither 1	4	4	888.013	
	2		IMAGER	F770W	FASTR1	5	13	1	Dither 1	4	52	854.712	
	2	MEDIUM(B)	MRSLONG		FASTR1	80	1	1	Dither 1	4	4	888.013	
	2	MEDIUM(B)	MRSSHORT		FASTR1	80	1	1	Dither 1	4	4	888.013	
	3		IMAGER	F1130W	FASTR1	5	17	1	Dither 1	4	68	1121.116	
	3	LONG(C)	MRSLONG		FASTR1	105	1	1	Dither 1	4	4	1165.517	
	3	LONG(C)	MRSSHORT		FASTR1	105	1	1	Dither 1	4	4	1165.517	

Proposal 3535 - Observation 5 - Unveiling the AGN-host connection with PAH molecules

Special Requirements

Sequence Observations 4, 5, Non-interruptible

Proposal 3535 - Observation 6 - Unveiling the AGN-host connection with PAH molecules

Tue Feb 27 02:00:36 GMT 2024

Observation	<p>Proposal 3535, Observation 6: 3227_NIRSPEC</p> <p>Diagnostic Status: Warning</p> <p>Observing Template: NIRSPEC IFU Spectroscopy</p>											
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			
	(8)	NGC-3227-NIRSpec	RA: 10 23 30.5770 (155.8774042d) Dec: +19 51 54.28 (19.86508d) Equinox: J2000			Proper Motion RA: 1.1341540227101892E-5 sec of time/yr Proper Motion Dec: -3.8100006349850446E-4 arcsec/yr Epoch of Position: 2015.5						
	<p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i></p> <p><i>Category=Galaxy</i></p> <p><i>Description=[Active galactic nuclei, Active galaxies]</i></p>											
Template	<p>TA Method</p> <p>NONE</p>											
Dithers	#	Dither Type		Size	Starting Point		Number of Points		Points			
	1	CYCLING		MEDIUM	1		4					
Spectral Elements	#	Grating/Filter	Readout Pattern	Groups/Int	Integrations/Ex p	Leakcal	Dither	Autocal	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
	1	G395H/F290LP	NRSRAPID	3	8	false	true	NONE	4	32	1374.307	
	2	G395H/F290LP	NRSRAPID	3	8	true	true	NONE	4	32	1374.307	

Proposal 3535 - Observation 7 - Unveiling the AGN-host connection with PAH molecules

Tue Feb 27 02:00:36 GMT 2024

Observation	Proposal 3535, Observation 7: 7582_BKG Diagnostic Status: Warning Observing Template: MIRI Medium Resolution Spectroscopy Background Observation For: [7582 (Obs 8)] <i>Comments: To avoid possible persistence issues we suggest to observe the background prior to the science observations.</i>												
	(Visit 7:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.												
Diagnosics													
Fixed Targets	#	Name	Target Coordinates				Targ. Coord. Corrections			Miscellaneous			
	(6)	NGC-7582-BKG	RA: 23 18 19.2089 (349.5800371d) Dec: -42 18 53.38 (-42.31483d) Equinox: J2000				Epoch of Position: 2015.5						
<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> Category=Calibration Description=[Telescope/sky background]													
Acquisition	#	Target											
	1	NONE											
Template	AcqFilter	Primary Channel			Simultaneous Imaging			Imager Subarray		Grating Wheel Direction			
		All MRS			YES			FULL		NEUTRAL			
Dithers	#	Dither Type				Optimized For				Direction			
	1	2-Point				EXTENDED SOURCE				NEGATIVE			
Spectral Elements	#	Wavelength Range	Detector	Filter	Readout Pattern	Groups/Int	Integrations/E xp	Exposures/Dit h	Dither	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
	1		IMAGER	F560W	FASTR1	5	10	1	Dither 1	2	20	327.455	
	1	SHORT(A)	MRSLONG		FASTR1	65	1	1	Dither 1	2	2	360.755	
	1	SHORT(A)	MRSSHORT		FASTR1	65	1	1	Dither 1	2	2	360.755	
	2		IMAGER	F770W	FASTR1	5	10	1	Dither 1	2	20	327.455	
	2	MEDIUM(B)	MRSLONG		FASTR1	65	1	1	Dither 1	2	2	360.755	
	2	MEDIUM(B)	MRSSHORT		FASTR1	65	1	1	Dither 1	2	2	360.755	
	3		IMAGER	F1130W	FASTR1	5	20	1	Dither 1	2	40	660.46	
	3	LONG(C)	MRSLONG		FASTR1	121	1	1	Dither 1	2	2	671.56	
	3	LONG(C)	MRSSHORT		FASTR1	121	1	1	Dither 1	2	2	671.56	

Proposal 3535 - Observation 7 - Unveiling the AGN-host connection with PAH molecules

Special Requirements

Sequence Observations 7, 8, Non-interruptible

Proposal 3535 - Observation 8 - Unveiling the AGN-host connection with PAH molecules

Tue Feb 27 02:00:36 GMT 2024

Observation	Proposal 3535, Observation 8: 7582 Diagnostic Status: Warning Observing Template: MIRI Medium Resolution Spectroscopy Background Observations:[7582_BKG (Obs 7)]												
	(Visit 8:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.												
Fixed Targets	#	Name	Target Coordinates				Targ. Coord. Corrections			Miscellaneous			
	(3)	NGC-7582	RA: 23 18 23.6210 (349.5984208d) Dec: -42 22 14.06 (-42.37057d) Equinox: J2000				Epoch of Position: 2015.5						
<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> <i>Category=Galaxy</i> <i>Description=[Active galactic nuclei, Active galaxies]</i>													
Acquisition	#	Target											
	1	NONE											
Template	AcqFilter	Primary Channel			Simultaneous Imaging			Imager Subarray		Grating Wheel Direction			
		All MRS			YES			FULL		NEUTRAL			
Dithers	#	Dither Type				Optimized For				Direction			
	1	4-Point				EXTENDED SOURCE				NEGATIVE			
Spectral Elements	#	Wavelength Range	Detector	Filter	Readout Pattern	Groups/Int	Integrations/E xp	Exposures/Dit h	Dither	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
	1		IMAGER	F560W	FASTR1	5	10	1	Dither 1	4	40	654.909	
	1	SHORT(A)	MRSLONG		FASTR1	65	1	1	Dither 1	4	4	721.51	
	1	SHORT(A)	MRSSHORT		FASTR1	65	1	1	Dither 1	4	4	721.51	
	2		IMAGER	F770W	FASTR1	5	10	1	Dither 1	4	40	654.909	
	2	MEDIUM(B)	MRSLONG		FASTR1	65	1	1	Dither 1	4	4	721.51	
	2	MEDIUM(B)	MRSSHORT		FASTR1	65	1	1	Dither 1	4	4	721.51	
	3		IMAGER	F1130W	FASTR1	5	20	1	Dither 1	4	80	1320.919	
	3	LONG(C)	MRSLONG		FASTR1	121	1	1	Dither 1	4	4	1343.119	
	3	LONG(C)	MRSSHORT		FASTR1	121	1	1	Dither 1	4	4	1343.119	

Proposal 3535 - Observation 8 - Unveiling the AGN-host connection with PAH molecules

Special Requirements

Sequence Observations 7, 8, Non-interruptible

Proposal 3535 - Observation 9 - Unveiling the AGN-host connection with PAH molecules

Tue Feb 27 02:00:36 GMT 2024

Observation	<p>Proposal 3535, Observation 9: NGC7582_NIRSPEC</p> <p>Diagnostic Status: Warning</p> <p>Observing Template: NIRSPEC IFU Spectroscopy</p>											
Diagnostics	(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-7582-NIRSPEC	RA: 23 18 23.6430 (349.5985125d) Dec: -42 22 13.54 (-42.37043d) Equinox: J2000			Epoch of Position: 2015.5						
	<p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i></p> <p><i>Category=Galaxy</i></p> <p><i>Description=[Active galactic nuclei, Active galaxies]</i></p>											
Template	TA Method											
	NONE											
Dithers	#	Dither Type		Size	Starting Point			Number of Points	Points			
	1	CYCLING		MEDIUM	1			4				
Spectral Elements	#	Grating/Filter	Readout Pattern	Groups/Int	Integrations/Exp	Leakcal	Dither	Autocal	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
	1	G395H/F290LP	NRSRAPID	3	7	false	true	NONE	4	28	1202.518	
	2	G395H/F290LP	NRSRAPID	3	7	true	true	NONE	4	28	1202.518	