



7429 - Unraveling Effects of Different Modes of AGN Feedback via PAH Features

Cycle: 4, Proposal Category: GO

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<i>Name</i>	<i>Institution</i>
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Dr. Steph Campbell (CoI) (ESA Member)	Newcastle University
Mr. John Schneider (CoI)	University of Texas at San Antonio

OBSERVATIONS

<i>Folder</i>	<i>Observation</i>	<i>Label</i>	<i>Observing Template</i>	<i>Science Target</i>
Observation Folder				
	1	NGC-4253-BKG	MIRI Medium Resolution Spectroscopy	(2) NGC-4253-BKG
	2	NGC-4253-MRS	MIRI Medium Resolution Spectroscopy	(1) NGC-4253-MRS
	3	NGC-4253-NIRSpec	NIRSpec IFU Spectroscopy	(7) NGC-4253-NIRSpec
	4	NGC-7314-BKG	MIRI Medium Resolution Spectroscopy	(4) NGC-7314-BKG
	5	NGC-7314-MRS	MIRI Medium Resolution Spectroscopy	(3) NGC-7314-MRS
	6	NGC-7314-NIRSpec	NIRSpec IFU Spectroscopy	(8) NGC-7314-NIRSpec
	7	IRAS-18325-5926-BKG	MIRI Medium Resolution Spectroscopy	(6) IRAS-18325-5926-BKG
	8	IRAS-18325-5926-MRS	MIRI Medium Resolution Spectroscopy	(5) IRAS-18325-5926-MRS
	9	IRAS-8325-5926-NIRSpec	NIRSpec IFU Spectroscopy	(9) IRAS-18325-5926-NIRSpec

ABSTRACT

Widely regarded to coevolve with their galaxies, supermassive black holes can influence their hosts and large-scale surroundings via different feedback effects. Inspired by some recent studies of Polycyclic Aromatic Hydrocarbons (PAHs), we propose to observe a sample of nearby Seyferts sharing the similar PAH properties to those of quasars to explore the capability of PAH features in diagnosing the radiative effects of the quasar mode AGN feedback. With the spatially resolved NIRSpec/IFU and MIRI/MRS spectroscopy, we will combine the observed PAH characteristics and modeled PAH grids, to ascertain the changing trend of PAH sizes and ionization fractions in the central regions of our target Seyferts. Meanwhile, the emission line measurements will be fitted to corresponding excitation models to constrain the fundamental physical parameters and input energetics, essentially explaining the changing trend of PAH sizes and ionization fractions. We can then use PAH characteristics to quantify the

impact of AGN feedback, via the calibration between derived fundamental physical parameters and input energetics with derived PAH properties, i.e., PAH sizes and ionization fractions. Additionally, archived JWST observations specifically for very low luminosity AGN, especially the low-ionization nuclear emission-line regions (LINERs), will be combined as the supplementary sample, to explore the capability of PAH features in diagnosing the mechanical effects of the radio mode feedback. The significance of this proposal lies in that it will provide an easily observable and practical method in the infrared band to quantify the impact of AGN feedback effects.

OBSERVING DESCRIPTION

We propose to obtain the NIRSpec/IFU 2.9-5.1 micron spectroscopy using the G395H/F290LP filter and the full MIRI/MRS 4.9-28.5 micron spectroscopy (Channels 1-4) for the central regions of 3 nearby Seyferts. For both the NIRSpec/IFU and MIRI/MRS spectroscopy, we request a single pointing centered on each Seyfert, with the 4-point dither pattern used. We also request a recommended 2-point dither background observation with the same other configurations for the MIRI/MRS spectroscopy of each target. No background observation is requested for the NIRSpec/IFU spectroscopy, but we request specific 1 point no dither observation with the same other configurations for the leakage correction of the NIRSpec/IFU spectroscopy of each target. We use NRSIRS2RAPID and FASTR1 readout modes for NIRSpec/IFU and MIRI/MRS observations, respectively, to avoid saturation considering the bright nuclei of these Seyferts. For each dither point, the group number of each integration are 5-12 for the NIRSpec/IFU spectroscopy and 40-120 for the MIRI/MRS spectroscopy, and we request 1 integration for the exposure of each target. The total integration times of our targets are 365–880s for NIRSpec/IFU exposures and 1344–4008s for MIRI/MRS exposures. In addition, we will also obtain the simultaneously conducted imaging using filters of F560W, F770W, and F1130W.

Proposal 7429 - Targets - Unraveling Effects of Different Modes of AGN Feedback via PAH Features

#	Name	Target Coordinates	Targ. Coord. Corrections	Miscellaneous
Fixed Targets	(1)	NGC-4253-MRS RA: 12 18 26.5164 (184.6104850d) Dec: +29 48 46.53 (29.81292d) Equinox: J2000	Proper Motion RA: -0.355 mas/yr Proper Motion Dec: -0.15700004496466136 mas/yr Parallax: 5.76E-5" Epoch of Position: 2000	
	<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i>			
	<i>SIMBAD listed proper motion for this target. When retrieving targets with PM from SIMBAD, APT requests the coordinates be calculated with an epoch of the year 2000. Do not modify this epoch. Always review coordinates using the Target Confirmation tool, which graphically displays the PM.</i>			
	<i>Category=Galaxy</i>			
	<i>Description=[Active galactic nuclei, Seyfert galaxies]</i>			
	<i>Extended=YES</i>			
(2)	NGC-4253-BKG RA: 12 18 35.1459 (184.6464413d) Dec: +29 48 44.03 (29.81223d) Equinox: J2000	Epoch of Position: 2000		
<i>Comments:</i>				
<i>Category=Unidentified</i>				
<i>Description=[Blank field]</i>				
<i>Extended=YES</i>				
(3)	NGC-7314-MRS RA: 22 35 46.1985 (338.9424937d) Dec: -26 03 1.56 (-26.05043d) Equinox: J2000	Proper Motion RA: 1.007 mas/yr Proper Motion Dec: -0.9780000937098521 mas/yr Parallax: 4.014E-4" Epoch of Position: 2000		
<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i>				
<i>SIMBAD listed proper motion for this target. When retrieving targets with PM from SIMBAD, APT requests the coordinates be calculated with an epoch of the year 2000. Do not modify this epoch. Always review coordinates using the Target Confirmation tool, which graphically displays the PM.</i>				
<i>Category=Galaxy</i>				
<i>Description=[Active galactic nuclei, Seyfert galaxies]</i>				
<i>Extended=YES</i>				
(4)	NGC-7314-BKG RA: 22 35 50.3678 (338.9598658d) Dec: -26 01 18.08 (-26.02169d) Equinox: J2000	Epoch of Position: 2000		
<i>Comments:</i>				
<i>Category=Unidentified</i>				
<i>Description=[Blank field]</i>				
<i>Extended=YES</i>				
(5)	IRAS-18325-5926-MRS RA: 18 36 58.2336 (279.2426400d) Dec: -59 24 8.28 (-59.40230d) Equinox: J2000	Proper Motion RA: -0.3 mas/yr Proper Motion Dec: 0.365 mas/yr Epoch of Position: 2000		
<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i>				
<i>SIMBAD listed proper motion for this target. When retrieving targets with PM from SIMBAD, APT requests the coordinates be calculated with an epoch of the year 2000. Do not modify this epoch. Always review coordinates using the Target Confirmation tool, which graphically displays the PM.</i>				
<i>Category=Galaxy</i>				
<i>Description=[Active galactic nuclei, Seyfert galaxies]</i>				
<i>Extended=YES</i>				
(6)	IRAS-18325-5926-BKG RA: 18 37 0.5316 (279.2522150d) Dec: -59 22 16.46 (-59.37124d) Equinox: J2000	Epoch of Position: 2000		
<i>Comments:</i>				
<i>Category=Unidentified</i>				
<i>Description=[Blank field]</i>				
<i>Extended=YES</i>				

Proposal 7429 - Targets - Unraveling Effects of Different Modes of AGN Feedback via PAH Features

(7)	NGC-4253-NIRSpec	RA: 12 18 26.5164 (184.6104850d) Dec: +29 48 46.53 (29.81292d) Equinox: J2000	Proper Motion RA: -0.355 mas/yr Proper Motion Dec: -0.15700004496466136 mas/yr Epoch of Position: 2000
<p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i></p> <p><i>SIMBAD listed proper motion for this target. When retrieving targets with PM from SIMBAD, APT requests the coordinates be calculated with an epoch of the year 2000. Do not modify this epoch. Always review coordinates using the Target Confirmation tool, which graphically displays the PM.</i></p> <p><i>Category=Galaxy</i> <i>Description=[Active galactic nuclei, Seyfert galaxies]</i> <i>Extended=YES</i></p>			
(8)	NGC-7314-NIRSpec	RA: 22 35 46.1985 (338.9424937d) Dec: -26 03 1.56 (-26.05043d) Equinox: J2000	Proper Motion RA: 1.007 mas/yr Proper Motion Dec: -0.9780000937098521 mas/yr Parallax: 4.014E-4" Epoch of Position: 2000
<p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i></p> <p><i>SIMBAD listed proper motion for this target. When retrieving targets with PM from SIMBAD, APT requests the coordinates be calculated with an epoch of the year 2000. Do not modify this epoch. Always review coordinates using the Target Confirmation tool, which graphically displays the PM.</i></p> <p><i>Category=Galaxy</i> <i>Description=[Active galactic nuclei, Seyfert galaxies]</i> <i>Extended=YES</i></p>			
(9)	IRAS-18325-5926-NIRSpec	RA: 18 36 58.2336 (279.2426400d) Dec: -59 24 8.28 (-59.40230d) Equinox: J2000	Proper Motion RA: -0.3 mas/yr Proper Motion Dec: 0.365 mas/yr Epoch of Position: 2000
<p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i></p> <p><i>SIMBAD listed proper motion for this target. When retrieving targets with PM from SIMBAD, APT requests the coordinates be calculated with an epoch of the year 2000. Do not modify this epoch. Always review coordinates using the Target Confirmation tool, which graphically displays the PM.</i></p> <p><i>Category=Galaxy</i> <i>Description=[Active galactic nuclei, Seyfert galaxies]</i> <i>Extended=YES</i></p>			

Proposal 7429 - Observation 1 - Unraveling Effects of Different Modes of AGN Feedback via PAH Features

Sun Aug 24 00:00:12 GMT 2025

Observation	Proposal 7429, Observation 1: NGC-4253-BKG Diagnostic Status: Warning Observing Template: MIRI Medium Resolution Spectroscopy Background Observation For: [NGC-4253-MRS (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				
	(2)	NGC-4253-BKG	RA: 12 18 35.1459 (184.6464413d) Dec: +29 48 44.03 (29.81223d) Equinox: J2000			Epoch of Position: 2000							
<i>Comments:</i> Category=Unidentified Description=[Blank field] Extended=YES													
Acquisition	#	Target											
	1	NONE											
Template	AcqFilter	Primary Channel			Simultaneous Imaging			Imager Subarray		Grating Wheel Direction			
		All MRS			YES			SUB256		Allow Auto Reorder			
Dithers	#	Dither Type			Optimized For			Direction					
	1	2-Point			BACKGROUND			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	Optional ETC ID
	1		IMAGER	F560W	FASTR1	6	14	1	Dither 1	2	28	58.107	
	1	SHORT(A)	MRSLONG		FASTR1	60	1	1	Dither 1	2	2	333.005	
	1	SHORT(A)	MRSSHORT		FASTR1	60	1	1	Dither 1	2	2	333.005	
	2		IMAGER	F770W	FASTR1	6	6	1	Dither 1	2	12	24.561	
	2	MEDIUM(B)	MRSLONG		FASTR1	60	1	1	Dither 1	2	2	333.005	
	2	MEDIUM(B)	MRSSHORT		FASTR1	60	1	1	Dither 1	2	2	333.005	
	3		IMAGER	F1130W	FASTR1	6	10	1	Dither 1	2	20	41.334	
	3	LONG(C)	MRSLONG		FASTR1	60	1	1	Dither 1	2	2	333.005	
	3	LONG(C)	MRSSHORT		FASTR1	60	1	1	Dither 1	2	2	333.005	

Proposal 7429 - Observation 1 - Unraveling Effects of Different Modes of AGN Feedback via PAH Features

Special Requirements

Aperture PA Range 120.0 to 130.0 Degrees (V3 120.0 to 130.0)

Sequence Observations 1, 2, Non-interruptible

Proposal 7429 - Observation 2 - Unraveling Effects of Different Modes of AGN Feedback via PAH Features

Sun Aug 24 00:00:12 GMT 2025

Observation	Proposal 7429, Observation 2: NGC-4253-MRS Diagnostic Status: Warning Observing Template: MIRI Medium Resolution Spectroscopy Background Observations:[NGC-4253-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-4253-MRS	RA: 12 18 26.5164 (184.6104850d) Dec: +29 48 46.53 (29.81292d) Equinox: J2000			Proper Motion RA: -0.355 mas/yr Proper Motion Dec: -0.15700004496466136 mas/yr Parallax: 5.76E-5" Epoch of Position: 2000			Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. SIMBAD listed proper motion for this target. When retrieving targets with PM from SIMBAD, APT requests the coordinates be calculated with an epoch of the year 2000. Do not modify this epoch. Always review coordinates using the Target Confirmation tool, which graphically displays the PM. Category=Galaxy Description=[Active galactic nuclei, Seyfert galaxies] Extended=YES				
Acquisition	#	Target											
	1	NONE											
Template	AcqFilter	Primary Channel			Simultaneous Imaging			Imager Subarray		Grating Wheel Direction			
		All MRS			YES			SUB256		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	Optional ETC ID
	1		IMAGER	F560W	FASTR1	6	14	1	Dither 1	4	56	116.214	
	1	SHORT(A)	MRSLONG		FASTR1	60	1	1	Dither 1	4	4	666.01	
	1	SHORT(A)	MRSSHORT		FASTR1	60	1	1	Dither 1	4	4	666.01	
	2		IMAGER	F770W	FASTR1	6	6	1	Dither 1	4	24	49.121	
	2	MEDIUM(B)	MRSLONG		FASTR1	60	1	1	Dither 1	4	4	666.01	
	2	MEDIUM(B)	MRSSHORT		FASTR1	60	1	1	Dither 1	4	4	666.01	
	3		IMAGER	F1130W	FASTR1	6	10	1	Dither 1	4	40	82.668	
	3	LONG(C)	MRSLONG		FASTR1	60	1	1	Dither 1	4	4	666.01	
	3	LONG(C)	MRSSHORT		FASTR1	60	1	1	Dither 1	4	4	666.01	

Proposal 7429 - Observation 2 - Unraveling Effects of Different Modes of AGN Feedback via PAH Features

Special Requirements

Sequence Observations 1, 2, Non-interruptible

Proposal 7429 - Observation 3 - Unraveling Effects of Different Modes of AGN Feedback via PAH Features

Sun Aug 24 00:00:12 GMT 2025

Observation	<p>Proposal 7429, Observation 3: NGC-4253-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-4253-NIRSpec	RA: 12 18 26.5164 (184.6104850d) Dec: +29 48 46.53 (29.81292d) Equinox: J2000			Proper Motion RA: -0.355 mas/yr Proper Motion Dec: -0.15700004496466136 mas/yr Epoch of Position: 2000						
	<p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i></p> <p><i>SIMBAD listed proper motion for this target. When retrieving targets with PM from SIMBAD, APT requests the coordinates be calculated with an epoch of the year 2000. Do not modify this epoch. Always review coordinates using the Target Confirmation tool, which graphically displays the PM.</i></p> <p><i>Category=Galaxy</i> <i>Description=[Active galactic nuclei, Seyfert galaxies]</i> <i>Extended=YES</i></p>											
Template	TA Method						HFF Readout Mode					
	NONE						false					
Dithers	#	Dither Type		Size	Starting Point		Number of Points		Points			
	1	4-POINT-DITHER										
Spectral Elements	#	Grating/Filter	Readout Pattern	Groups/Int	Integrations/Exp	Leakcal	Dither	Autocal	Total Dithers	Total Integrations	Total Exposure Time	Optional ETC ID
	1	G395H/F290LP	NRSIRS2RAPI D	8	1	false	true	NONE	4	4	525.2	
	2	G395H/F290LP	NRSIRS2RAPI D	8	1	true	false	NONE	1	1	131.3	

Proposal 7429 - Observation 4 - Unraveling Effects of Different Modes of AGN Feedback via PAH Features

Sun Aug 24 00:00:12 GMT 2025

Observation	Proposal 7429, Observation 4: NGC-7314-BKG Diagnostic Status: Warning Observing Template: MIRI Medium Resolution Spectroscopy Background Observation For: [NGC-7314-MRS (Obs 5)]												
	(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-7314-BKG	RA: 22 35 50.3678 (338.9598658d) Dec: -26 01 18.08 (-26.02169d) Equinox: J2000			Epoch of Position: 2000							
<i>Comments:</i> Category=Unidentified Description=[Blank field] Extended=YES													
Acquisition	#	Target											
	1	NONE											
Template	AcqFilter	Primary Channel			Simultaneous Imaging		Imager Subarray		Grating Wheel Direction				
		All MRS			YES		SUB256		Allow Auto Reorder				
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	Optional ETC ID
	1		IMAGER	F560W	FASTR1	8	14	1	Dither 1	2	28	74.88	
	1	SHORT(A)	MRSLONG		FASTR1	120	1	1	Dither 1	2	2	666.01	
	1	SHORT(A)	MRSSHORT		FASTR1	120	1	1	Dither 1	2	2	666.01	
	2		IMAGER	F770W	FASTR1	8	6	1	Dither 1	2	12	31.749	
	2	MEDIUM(B)	MRSLONG		FASTR1	120	1	1	Dither 1	2	2	666.01	
	2	MEDIUM(B)	MRSSHORT		FASTR1	120	1	1	Dither 1	2	2	666.01	
	3		IMAGER	F1130W	FASTR1	8	10	1	Dither 1	2	20	53.315	
	3	LONG(C)	MRSLONG		FASTR1	120	1	1	Dither 1	2	2	666.01	
	3	LONG(C)	MRSSHORT		FASTR1	120	1	1	Dither 1	2	2	666.01	

Proposal 7429 - Observation 4 - Unraveling Effects of Different Modes of AGN Feedback via PAH Features

Special Requirements

Aperture PA Range 55.0 to 70.0 Degrees (V3 55.0 to 70.0)

Sequence Observations 4, 5, Non-interruptible

Proposal 7429 - Observation 5 - Unraveling Effects of Different Modes of AGN Feedback via PAH Features

Sun Aug 24 00:00:12 GMT 2025

Observation	Proposal 7429, Observation 5: NGC-7314-MRS Diagnostic Status: Warning Observing Template: MIRI Medium Resolution Spectroscopy Background Observations:[NGC-7314-BKG (Obs 4)]												
	(Visit 5:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.												
Diagnosics													
Fixed Targets	#	Name	Target Coordinates			Targ. Coord. Corrections			Miscellaneous				
	(3)	NGC-7314-MRS	RA: 22 35 46.1985 (338.9424937d) Dec: -26 03 1.56 (-26.05043d) Equinox: J2000			Proper Motion RA: 1.007 mas/yr Proper Motion Dec: -0.9780000937098521 mas/yr Parallax: 4.014E-4" Epoch of Position: 2000							
<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> SIMBAD listed proper motion for this target. When retrieving targets with PM from SIMBAD, APT requests the coordinates be calculated with an epoch of the year 2000. Do not modify this epoch. Always review coordinates using the Target Confirmation tool, which graphically displays the PM. Category=Galaxy Description=[Active galactic nuclei, Seyfert galaxies] Extended=YES													
Acquisition	#	Target											
	1	NONE											
Template	AcqFilter	Primary Channel			Simultaneous Imaging			Imager Subarray		Grating Wheel Direction			
		All MRS			YES			SUB256		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	Optional ETC ID
	1		IMAGER	F560W	FASTR1	8	14	1	Dither 1	4	56	149.76	
	1	SHORT(A)	MRSLONG		FASTR1	120	1	1	Dither 1	4	4	1332.019	
	1	SHORT(A)	MRSSHORT		FASTR1	120	1	1	Dither 1	4	4	1332.019	
	2		IMAGER	F770W	FASTR1	8	6	1	Dither 1	4	24	63.498	
	2	MEDIUM(B)	MRSLONG		FASTR1	120	1	1	Dither 1	4	4	1332.019	
	2	MEDIUM(B)	MRSSHORT		FASTR1	120	1	1	Dither 1	4	4	1332.019	
	3		IMAGER	F1130W	FASTR1	8	10	1	Dither 1	4	40	106.629	
	3	LONG(C)	MRSLONG		FASTR1	120	1	1	Dither 1	4	4	1332.019	
	3	LONG(C)	MRSSHORT		FASTR1	120	1	1	Dither 1	4	4	1332.019	

Proposal 7429 - Observation 5 - Unraveling Effects of Different Modes of AGN Feedback via PAH Features

Special Requirements

Sequence Observations 4, 5, Non-interruptible

Proposal 7429 - Observation 6 - Unraveling Effects of Different Modes of AGN Feedback via PAH Features

Sun Aug 24 00:00:12 GMT 2025

Observation	<p>Proposal 7429, Observation 6: NGC-7314-NIRSpec</p> <p>Diagnostic Status: Warning</p> <p>Observing Template: NIRSpec IFU Spectroscopy</p>											
	<p>(Visit 6:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.</p>											
Diagnostics												
Fixed Targets	#	Name	Target Coordinates			Targ. Coord. Corrections			Miscellaneous			
	(8)	NGC-7314-NIRSpec	RA: 22 35 46.1985 (338.9424937d) Dec: -26 03 1.56 (-26.05043d) Equinox: J2000			Proper Motion RA: 1.007 mas/yr Proper Motion Dec: -0.9780000937098521 mas/yr Parallax: 4.014E-4" Epoch of Position: 2000						
<p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i></p> <p><i>SIMBAD listed proper motion for this target. When retrieving targets with PM from SIMBAD, APT requests the coordinates be calculated with an epoch of the year 2000. Do not modify this epoch. Always review coordinates using the Target Confirmation tool, which graphically displays the PM.</i></p> <p><i>Category=Galaxy</i> <i>Description=[Active galactic nuclei, Seyfert galaxies]</i> <i>Extended=YES</i></p>												
Template	TA Method					HFF Readout Mode						
	NONE					false						
Dithers	#	Dither Type		Size	Starting Point		Number of Points		Points			
	1	4-POINT-DITHER										
Spectral Elements	#	Grating/Filter	Readout Pattern	Groups/Int	Integrations/Exp	Leakcal	Dither	Autocal	Total Dithers	Total Integrations	Total Exposure Time	Optional ETC ID
	1	G395H/F290LP	NRSIRS2RAPI D	12	1	false	true	NONE	4	4	758.622	
	2	G395H/F290LP	NRSIRS2RAPI D	12	1	true	false	NONE	1	1	189.656	

Proposal 7429 - Observation 7 - Unraveling Effects of Different Modes of AGN Feedback via PAH Features

Sun Aug 24 00:00:12 GMT 2025

Observation	Proposal 7429, Observation 7: IRAS-18325-5926-BKG Diagnostic Status: Warning Observing Template: MIRI Medium Resolution Spectroscopy Background Observation For: [IRAS-18325-5926-MRS (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				
	(6)	IRAS-18325-5926-BKG	RA: 18 37 0.5316 (279.2522150d) Dec: -59 22 16.46 (-59.37124d) Equinox: J2000			Epoch of Position: 2000							
<i>Comments:</i> Category=Unidentified Description=[Blank field] Extended=YES													
Acquisition	#	Target											
	1	NONE											
Template	AcqFilter	Primary Channel			Simultaneous Imaging		Imager Subarray		Grating Wheel Direction				
		All MRS			YES		SUB256		Allow Auto Reorder				
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	Optional ETC ID
	1		IMAGER	F560W	FASTR1	6	8	1	Dither 1	2	16	32.947	
	1	SHORT(A)	MRSLONG		FASTR1	40	1	1	Dither 1	2	2	222.003	
	1	SHORT(A)	MRSSHORT		FASTR1	40	1	1	Dither 1	2	2	222.003	
	2		IMAGER	F770W	FASTR1	6	4	1	Dither 1	2	8	16.174	
	2	MEDIUM(B)	MRSLONG		FASTR1	40	1	1	Dither 1	2	2	222.003	
	2	MEDIUM(B)	MRSSHORT		FASTR1	40	1	1	Dither 1	2	2	222.003	
	3		IMAGER	F1130W	FASTR1	6	6	1	Dither 1	2	12	24.561	
	3	LONG(C)	MRSLONG		FASTR1	40	1	1	Dither 1	2	2	222.003	
	3	LONG(C)	MRSSHORT		FASTR1	40	1	1	Dither 1	2	2	222.003	

Proposal 7429 - Observation 7 - Unraveling Effects of Different Modes of AGN Feedback via PAH Features

Special Requirements

Aperture PA Range 36.0 to 50.0 Degrees (V3 36.0 to 50.0)

Sequence Observations 7, 8, Non-interruptible

Proposal 7429 - Observation 8 - Unraveling Effects of Different Modes of AGN Feedback via PAH Features

Sun Aug 24 00:00:12 GMT 2025

Observation	Proposal 7429, Observation 8: IRAS-18325-5926-MRS Diagnostic Status: Warning Observing Template: MIRI Medium Resolution Spectroscopy Background Observations:[IRAS-18325-5926-BKG (Obs 7)]												
	(Visit 8:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.												
Fixed Targets	#	Name	Target Coordinates			Target Coord. Corrections			Miscellaneous				
	(5)	IRAS-18325-5926-MRS	RA: 18 36 58.2336 (279.2426400d) Dec: -59 24 8.28 (-59.40230d) Equinox: J2000			Proper Motion RA: -0.3 mas/yr Proper Motion Dec: 0.365 mas/yr Epoch of Position: 2000							
<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> <i>SIMBAD listed proper motion for this target. When retrieving targets with PM from SIMBAD, APT requests the coordinates be calculated with an epoch of the year 2000. Do not modify this epoch. Always review coordinates using the Target Confirmation tool, which graphically displays the PM.</i> Category=Galaxy Description=[Active galactic nuclei, Seyfert galaxies] Extended=YES													
Acquisition	#	Target											
	1	NONE											
Template	AcqFilter	Primary Channel			Simultaneous Imaging			Imager Subarray		Grating Wheel Direction			
		All MRS			YES			SUB256		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	Optional ETC ID
	1		IMAGER	F560W	FASTR1	6	8	1	Dither 1	4	32	65.894	
	1	SHORT(A)	MRSLONG		FASTR1	40	1	1	Dither 1	4	4	444.006	
	1	SHORT(A)	MRSSHORT		FASTR1	40	1	1	Dither 1	4	4	444.006	
	2		IMAGER	F770W	FASTR1	6	4	1	Dither 1	4	16	32.348	
	2	MEDIUM(B)	MRSLONG		FASTR1	40	1	1	Dither 1	4	4	444.006	
	2	MEDIUM(B)	MRSSHORT		FASTR1	40	1	1	Dither 1	4	4	444.006	
	3		IMAGER	F1130W	FASTR1	6	6	1	Dither 1	4	24	49.121	
	3	LONG(C)	MRSLONG		FASTR1	40	1	1	Dither 1	4	4	444.006	
	3	LONG(C)	MRSSHORT		FASTR1	40	1	1	Dither 1	4	4	444.006	

Proposal 7429 - Observation 8 - Unraveling Effects of Different Modes of AGN Feedback via PAH Features

Special Requirements

Sequence Observations 7, 8, Non-interruptible

Proposal 7429 - Observation 9 - Unraveling Effects of Different Modes of AGN Feedback via PAH Features

Sun Aug 24 00:00:12 GMT 2025

Observation	<p>Proposal 7429, Observation 9: IRAS-8325-5926-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)	IRAS-18325-5926-NIRSpec	RA: 18 36 58.2336 (279.2426400d) Dec: -59 24 8.28 (-59.40230d) Equinox: J2000			Proper Motion RA: -0.3 mas/yr Proper Motion Dec: 0.365 mas/yr Epoch of Position: 2000						
	<p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i></p> <p><i>SIMBAD listed proper motion for this target. When retrieving targets with PM from SIMBAD, APT requests the coordinates be calculated with an epoch of the year 2000. Do not modify this epoch. Always review coordinates using the Target Confirmation tool, which graphically displays the PM.</i></p> <p><i>Category=Galaxy</i> <i>Description=[Active galactic nuclei, Seyfert galaxies]</i> <i>Extended=YES</i></p>											
Template	TA Method						HFF Readout Mode					
	NONE						false					
Dithers	#	Dither Type		Size	Starting Point		Number of Points		Points			
	1	4-POINT-DITHER										
Spectral Elements	#	Grating/Filter	Readout Pattern	Groups/Int	Integrations/Exp	Leakcal	Dither	Autocal	Total Dithers	Total Integrations	Total Exposure Time	Optional ETC ID
	1	G395H/F290LP	NRSIRS2RAPI D	5	1	false	true	NONE	4	4	350.133	
	2	G395H/F290LP	NRSIRS2RAPI D	5	1	true	false	NONE	1	1	87.533	