



3655 - Investigating the impact of quasar-driven outflows on recent star formation

Cycle: 2, 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	J1509-0434-BCK	MIRI Medium Resolution Spectroscopy	(1) J1509+0434-BCK
	2	J1509+0434	MIRI Medium Resolution Spectroscopy	(2) J1509+0434
	3	J1100+0846-BCK	MIRI Medium Resolution Spectroscopy	(3) J1100+0846-BCK
	4	J1100+0846	MIRI Medium Resolution Spectroscopy	(4) J1100+0846
	5	J1356+1026-BCK	MIRI Medium Resolution Spectroscopy	(5) J1356+1026-BCK

<i>Folder</i>	<i>Observation</i>	<i>Label</i>	<i>Observing Template</i>	<i>Science Target</i>
	11	J1356+1026-BCK-repeat	MIRI Medium Resolution Spectroscopy	(5) J1356+1026-BCK
	6	J1356+1026	MIRI Medium Resolution Spectroscopy	(6) J1356+1026
	12	J1356+1026-repeat	MIRI Medium Resolution Spectroscopy	(6) J1356+1026
	7	J1430+1339-BCK	MIRI Medium Resolution Spectroscopy	(7) J1430+1339-BCK
	8	J1430+1339	MIRI Medium Resolution Spectroscopy	(8) J1430+1339
	9	J1010+0612-BCK	MIRI Medium Resolution Spectroscopy	(9) J1010+0612-BCK
	10	J1010+0612	MIRI Medium Resolution Spectroscopy	(10) J1010+0612

ABSTRACT

Active galactic nuclei (AGN) drive gas outflows that can affect the galaxies' interstellar medium (ISM) by sweeping out, heating, and/or mixing the gas needed to form new stars. Indeed, cosmological simulations require AGN feedback to regulate star formation and produce realistic numbers of massive galaxies. However, we are still far from understanding how AGN feedback couples with the host galaxies, which is what ultimately determines its efficiency. The goal of this proposal is to measure the impact of quasar-driven outflows in different locations of the host galaxies by comparing their 3D properties with the spatial distribution of PAHs, which probe recent star formation (ages < 10 Myr). To do so we request MIRI/MRS observations of a sample of 5 nearby obscured quasars with well-characterized ionized and cold molecular outflows. By comparing the 3D outflow and recent star formation properties we will investigate under which circumstances quasar-driven outflows affect star formation in the host galaxies and, in particular, the importance of the coupling between the outflows and the ISM. This will be the first spatial comparison of outflows and PAH/star formation done for a sample of nearby luminous type-2 quasars.

OBSERVING DESCRIPTION

We request MIRI/MRS observations over the full 4.9-27.9 micron range of 5 luminous obscured quasars (QSO2s) at $z \sim 0.1$. We require one pointing per target, which will cover the inner $\sim 10 \times 10$ kpc² of the galaxies. This will allow us to study the spatial distribution of PAH features (i.e. recent star formation) and of different emission line profiles (ionized and molecular emission lines).

We chose a 4-point dither pattern for the target observations, in order to have a better sampling of the PSF, and 2-point dither pattern in the dedicated background observations. Considering the on-source integrations required to achieve the necessary signal-to-noise in the emission features of interest, we originally selected the FASTR1 readout mode. We chose one integration of 50 groups for each dither point for J1100, 2 integrations of 60 and 75 groups for J1430 and J1010, and 3 integrations of 100 groups for J1356 and J1509. The total science time of the proposal is 12.78 hours, which corresponds to a total charged time of 22.59 hours.

After accounting for the sensitivity losses in Ch4, we selected either the FASTR1 or SLOWR1 readout mode depending on the source. The total science time of the proposal is 18.83 hours, which corresponds to a total charged time of 29.85 hours.

Proposal 3655 - Targets - Investigating the impact of quasar-driven outflows on recent star formation

#	Name	Target Coordinates	Targ. Coord. Corrections	Miscellaneous
(1)	J1509+0434-BCK	RA: 15 09 3.2192 (227.2634133d) Dec: +04 34 53.00 (4.58139d) Equinox: J2000		
<i>Comments: This object was generated by the targetselector and retrieved from the NED database.</i> Category=Galaxy Description=[Active galactic nuclei, Radio quiet quasars]				
(2)	J1509+0434	RA: 15 09 4.2192 (227.2675800d) Dec: +04 34 41.81 (4.57828d) Equinox: J2000		
<i>Comments: This object was generated by the targetselector and retrieved from the NED database.</i> Category=Galaxy Description=[Active galactic nuclei, Radio quiet quasars] Extended=YES				
(3)	J1100+0846-BCK	RA: 11 00 11.7000 (165.0487500d) Dec: +08 46 33.00 (8.77583d) Equinox: J2000		
<i>Comments: This object was generated by the targetselector and retrieved from the NED database.</i> Category=Galaxy Description=[Active galactic nuclei, Radio quiet quasars]				
(4)	J1100+0846	RA: 11 00 12.3840 (165.0516000d) Dec: +08 46 16.32 (8.77120d) Equinox: J2000		
<i>Comments: This object was generated by the targetselector and retrieved from the NED database.</i> Category=Galaxy Description=[Active galactic nuclei, Radio quiet quasars] Extended=YES				
(5)	J1356+1026-BCK	RA: 13 56 45.0000 (209.1875000d) Dec: +10 25 53.00 (10.43139d) Equinox: J2000	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, Radio quiet quasars]				
(6)	J1356+1026	RA: 13 56 46.1060 (209.1921083d) Dec: +10 26 9.09 (10.43586d) Equinox: J2000	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, Radio quiet quasars] Extended=YES				
(7)	J1430+1339-BCK	RA: 14 30 28.0000 (217.6166667d) Dec: +13 38 45.00 (13.64583d) Equinox: J2000	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, Radio quiet quasars]				

Fixed Targets

Proposal 3655 - Targets - Investigating the impact of quasar-driven outflows on recent star formation

(8)	J1430+1339	RA: 14 30 29.8800 (217.6245000d) Dec: +13 39 12.03 (13.65334d) 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, Radio quiet quasars]</i> <i>Extended=YES</i>			
(9)	J1010+0612-BCK	RA: 10 10 42.0000 (152.6750000d) Dec: +06 12 25.00 (6.20694d) Equinox: J2000	
<i>Comments: This object was generated by the targetselector and retrieved from the NED database.</i> <i>Category=Galaxy</i> <i>Description=[Active galactic nuclei, Radio quiet quasars]</i> <i>Extended=YES</i>			
(10)	J1010+0612	RA: 10 10 43.3656 (152.6806900d) Dec: +06 12 1.48 (6.20041d) Equinox: J2000	
<i>Comments: This object was generated by the targetselector and retrieved from the NED database.</i> <i>Category=Galaxy</i> <i>Description=[Active galactic nuclei, Radio quiet quasars]</i> <i>Extended=YES</i>			

Proposal 3655 - Observation 1 - Investigating the impact of quasar-driven outflows on recent star formation

Tue Dec 03 17:00:11 GMT 2024

Observation	Proposal 3655, Observation 1: J1509-0434-BCK Diagnostic Status: Warning Observing Template: MIRI Medium Resolution Spectroscopy Background Observation For: [J1509+0434 (Obs 2)]												
	(Visit 1:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.												
Diagnosics													
Fixed Targets	#	Name	Target Coordinates				Targ. Coord. Corrections			Miscellaneous			
	(1)	J1509+0434-BCK	RA: 15 09 3.2192 (227.2634133d) Dec: +04 34 53.00 (4.58139d) Equinox: J2000										
<i>Comments: This object was generated by the targetselector and retrieved from the NED database.</i> <i>Category=Galaxy</i> <i>Description=[Active galactic nuclei, Radio quiet quasars]</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			
	2	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	SHORT(A)	MRSLONG		SLOWR1	26	2	1	Dither 2	2	4	2532.332	187465
	1	SHORT(A)	MRSSHORT		SLOWR1	26	2	1	Dither 2	2	4	2532.332	187465
	2	MEDIUM(B)	MRSLONG		SLOWR1	35	1	1	Dither 2	2	2	1672.294	187465
	2	MEDIUM(B)	MRSSHORT		SLOWR1	35	1	1	Dither 2	2	2	1672.294	187465
	3	LONG(C)	MRSLONG		SLOWR1	35	2	1	Dither 2	2	4	3392.369	187465
	3	LONG(C)	MRSSHORT		SLOWR1	35	2	1	Dither 2	2	4	3392.369	187465

Proposal 3655 - Observation 1 - Investigating the impact of quasar-driven outflows on recent star formation

Special Requirements

Sequence Observations 1, 2, Non-interruptible

Proposal 3655 - Observation 2 - Investigating the impact of quasar-driven outflows on recent star formation

Tue Dec 03 17:00:11 GMT 2024

Observation	Proposal 3655, Observation 2: J1509+0434 Diagnostic Status: Warning Observing Template: MIRI Medium Resolution Spectroscopy Background Observations:[J1509-0434-BCK (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				
	(2)	J1509+0434	RA: 15 09 4.2192 (227.2675800d) Dec: +04 34 41.81 (4.57828d) Equinox: J2000										
Comments: This object was generated by the targetselector and retrieved from the NED database. Category=Galaxy Description=[Active galactic nuclei, Radio quiet quasars] Extended=YES													
Acquisition	#	Target											
	1	NONE											
Template	AcqFilter	Primary Channel			Simultaneous Imaging			Imager Subarray		Grating Wheel Direction			
	F1000W	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		SLOWR1	26	2	1	Dither 1	4	8	5064.663	187465
	1	SHORT(A)	MRSSHORT		SLOWR1	26	2	1	Dither 1	4	8	5064.663	187465
	2	MEDIUM(B)	MRSLONG		SLOWR1	35	1	1	Dither 1	4	4	3344.589	187465
	2	MEDIUM(B)	MRSSHORT		SLOWR1	35	1	1	Dither 1	4	4	3344.589	187465
	3	LONG(C)	MRSLONG		SLOWR1	35	2	1	Dither 1	4	8	6784.737	187465
	3	LONG(C)	MRSSHORT		SLOWR1	35	2	1	Dither 1	4	8	6784.737	187465

Proposal 3655 - Observation 2 - Investigating the impact of quasar-driven outflows on recent star formation

Special Requirements

Sequence Observations 1, 2, Non-interruptible

Proposal 3655 - Observation 3 - Investigating the impact of quasar-driven outflows on recent star formation

Tue Dec 03 17:00:11 GMT 2024

Observation	Proposal 3655, Observation 3: J1100+0846-BCK Diagnostic Status: Warning Observing Template: MIRI Medium Resolution Spectroscopy Background Observation For: [J1100+0846 (Obs 4)]												
	(Visit 3:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.												
Diagnosics													
Fixed Targets	#	Name	Target Coordinates				Targ. Coord. Corrections			Miscellaneous			
	(3)	J1100+0846-BCK	RA: 11 00 11.7000 (165.0487500d) Dec: +08 46 33.00 (8.77583d) Equinox: J2000										
<i>Comments: This object was generated by the targetselector and retrieved from the NED database.</i> <i>Category=Galaxy</i> <i>Description=[Active galactic nuclei, Radio quiet quasars]</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			
	2	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	SHORT(A)	MRSLONG		FASTR1	60	1	1	Dither 2	2	2	333.005	170219
	1	SHORT(A)	MRSSHORT		FASTR1	60	1	1	Dither 2	2	2	333.005	170219
	2	MEDIUM(B)	MRSLONG		FASTR1	50	1	1	Dither 2	2	2	277.504	170219
	2	MEDIUM(B)	MRSSHORT		FASTR1	50	1	1	Dither 2	2	2	277.504	170219
	3	LONG(C)	MRSLONG		FASTR1	115	1	1	Dither 2	2	2	638.259	170219
	3	LONG(C)	MRSSHORT		FASTR1	115	1	1	Dither 2	2	2	638.259	170219

Proposal 3655 - Observation 3 - Investigating the impact of quasar-driven outflows on recent star formation

Special Requirements

Sequence Observations 3, 4, Non-interruptible

Proposal 3655 - Observation 4 - Investigating the impact of quasar-driven outflows on recent star formation

Tue Dec 03 17:00:11 GMT 2024

Observation	Proposal 3655, Observation 4: J1100+0846 Diagnostic Status: Warning Observing Template: MIRI Medium Resolution Spectroscopy Background Observations:[J1100+0846-BCK (Obs 3)]												
	(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)	J1100+0846	RA: 11 00 12.3840 (165.0516000d) Dec: +08 46 16.32 (8.77120d) Equinox: J2000			<i>Comments: This object was generated by the targetselector and retrieved from the NED database.</i> Category=Galaxy Description=[Active galactic nuclei, Radio quiet quasars] Extended=YES							
Acquisition	#	Target											
	1	NONE											
Template	AcqFilter	Primary Channel			Simultaneous Imaging		Imager Subarray		Grating Wheel Direction				
	FND	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	60	1	1	Dither 1	4	4	666.01	170219
	1	SHORT(A)	MRSSHORT		FASTR1	60	1	1	Dither 1	4	4	666.01	170219
	2	MEDIUM(B)	MRSLONG		FASTR1	50	1	1	Dither 1	4	4	555.008	170219
	2	MEDIUM(B)	MRSSHORT		FASTR1	50	1	1	Dither 1	4	4	555.008	170219
	3	LONG(C)	MRSLONG		FASTR1	115	1	1	Dither 1	4	4	1276.518	170219
	3	LONG(C)	MRSSHORT		FASTR1	115	1	1	Dither 1	4	4	1276.518	170219

Proposal 3655 - Observation 4 - Investigating the impact of quasar-driven outflows on recent star formation

Special Requirements

Sequence Observations 3, 4, Non-interruptible

Proposal 3655 - Observation 5 - Investigating the impact of quasar-driven outflows on recent star formation

Tue Dec 03 17:00:11 GMT 2024

Observation	Proposal 3655, Observation 5: J1356+1026-BCK Diagnostic Status: Warning Observing Template: MIRI Medium Resolution Spectroscopy Background Observation For: [J1356+1026 (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)	J1356+1026-BCK	RA: 13 56 45.0000 (209.1875000d) Dec: +10 25 53.00 (10.43139d) 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, Radio quiet quasars]</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			
	2	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	SHORT(A)	MRSLONG		SLOWR1	26	2	1	Dither 2	2	4	2532.332	187466
	1	SHORT(A)	MRSSHORT		SLOWR1	26	2	1	Dither 2	2	4	2532.332	187466
	2	MEDIUM(B)	MRSLONG		SLOWR1	35	1	1	Dither 2	2	2	1672.294	187466
	2	MEDIUM(B)	MRSSHORT		SLOWR1	35	1	1	Dither 2	2	2	1672.294	187466
	3	LONG(C)	MRSLONG		SLOWR1	35	2	1	Dither 2	2	4	3392.369	187466
	3	LONG(C)	MRSSHORT		SLOWR1	35	2	1	Dither 2	2	4	3392.369	187466

Proposal 3655 - Observation 5 - Investigating the impact of quasar-driven outflows on recent star formation

Special Requirements

Sequence Observations 5, 6, Non-interruptible

Proposal 3655 - Observation 11 - Investigating the impact of quasar-driven outflows on recent star formation

Tue Dec 03 17:00:11 GMT 2024

Observation	Proposal 3655, Observation 11: J1356+1026-BCK-repeat Diagnostic Status: Warning Observing Template: MIRI Medium Resolution Spectroscopy Background Observation For: [J1356+1026-repeat (Obs 12)]												
	(Visit 11:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.												
Fixed Targets	#	Name	Target Coordinates				Targ. Coord. Corrections			Miscellaneous			
	(5)	J1356+1026-BCK	RA: 13 56 45.0000 (209.1875000d) Dec: +10 25 53.00 (10.43139d) 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, Radio quiet quasars]</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	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	SHORT(A)	MRSLONG		SLOWR1	26	2	1	Dither 1	2	4	2532.332	232595
	1	SHORT(A)	MRSSHORT		SLOWR1	26	2	1	Dither 1	2	4	2532.332	232595
	2	MEDIUM(B)	MRSLONG		SLOWR1	17	2	1	Dither 1	2	4	1672.294	232595
	2	MEDIUM(B)	MRSSHORT		SLOWR1	17	2	1	Dither 1	2	4	1672.294	232595
	3	LONG(C)	MRSLONG		SLOWR1	23	3	1	Dither 1	2	6	3392.369	232595
	3	LONG(C)	MRSSHORT		SLOWR1	23	3	1	Dither 1	2	6	3392.369	232595

Proposal 3655 - Observation 11 - Investigating the impact of quasar-driven outflows on recent star formation

Special Requirements

Sequence Observations 11, 12, Non-interruptible

Proposal 3655 - Observation 6 - Investigating the impact of quasar-driven outflows on recent star formation

Tue Dec 03 17:00:11 GMT 2024

Observation	Proposal 3655, Observation 6: J1356+1026 Diagnostic Status: Warning Observing Template: MIRI Medium Resolution Spectroscopy Background Observations:[J1356+1026-BCK (Obs 5)]												
	(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)	J1356+1026	RA: 13 56 46.1060 (209.1921083d) Dec: +10 26 9.09 (10.43586d) Equinox: J2000			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, Radio quiet quasars] Extended=YES													
Acquisition	#	Target											
	1	NONE											
Template	AcqFilter	Primary Channel			Simultaneous Imaging			Imager Subarray		Grating Wheel Direction			
	FND	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		SLOWR1	26	2	1	Dither 1	4	8	5064.663	187466
	1	SHORT(A)	MRSSHORT		SLOWR1	26	2	1	Dither 1	4	8	5064.663	187466
	2	MEDIUM(B)	MRSLONG		SLOWR1	35	1	1	Dither 1	4	4	3344.589	187466
	2	MEDIUM(B)	MRSSHORT		SLOWR1	35	1	1	Dither 1	4	4	3344.589	187466
	3	LONG(C)	MRSLONG		SLOWR1	35	2	1	Dither 1	4	8	6784.737	187466
	3	LONG(C)	MRSSHORT		SLOWR1	35	2	1	Dither 1	4	8	6784.737	187466

Proposal 3655 - Observation 6 - Investigating the impact of quasar-driven outflows on recent star formation

Special Requirements

Sequence Observations 5, 6, Non-interruptible

Proposal 3655 - Observation 12 - Investigating the impact of quasar-driven outflows on recent star formation

Tue Dec 03 17:00:11 GMT 2024

Observation	Proposal 3655, Observation 12: J1356+1026-repeat Diagnostic Status: Warning Observing Template: MIRI Medium Resolution Spectroscopy Background Observations:[J1356+1026-BCK-repeat (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				
	(6)	J1356+1026	RA: 13 56 46.1060 (209.1921083d) Dec: +10 26 9.09 (10.43586d) Equinox: J2000			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, Radio quiet quasars] Extended=YES													
Acquisition	#	Target											
	1	NONE											
Template	AcqFilter	Primary Channel			Simultaneous Imaging			Imager Subarray		Grating Wheel Direction			
	FND	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		SLOWR1	26	2	1	Dither 1	4	8	5064.663	232595
	1	SHORT(A)	MRSSHORT		SLOWR1	26	2	1	Dither 1	4	8	5064.663	232595
	2	MEDIUM(B)	MRSLONG		SLOWR1	17	2	1	Dither 1	4	8	3344.589	232595
	2	MEDIUM(B)	MRSSHORT		SLOWR1	17	2	1	Dither 1	4	8	3344.589	232595
	3	LONG(C)	MRSLONG		SLOWR1	23	3	1	Dither 1	4	12	6784.737	232595
	3	LONG(C)	MRSSHORT		SLOWR1	23	3	1	Dither 1	4	12	6784.737	232595

Proposal 3655 - Observation 12 - Investigating the impact of quasar-driven outflows on recent star formation

Special Requirements

Sequence Observations 11, 12, Non-interruptible

Proposal 3655 - Observation 7 - Investigating the impact of quasar-driven outflows on recent star formation

Tue Dec 03 17:00:11 GMT 2024

Observation	Proposal 3655, Observation 7: J1430+1339-BCK Diagnostic Status: Warning Observing Template: MIRI Medium Resolution Spectroscopy Background Observation For: [J1430+1339 (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)	J1430+1339-BCK	RA: 14 30 28.0000 (217.6166667d) Dec: +13 38 45.00 (13.64583d) 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, Radio quiet quasars]</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			
	2	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	SHORT(A)	MRSLONG		SLOWR1	15	1	1	Dither 2	2	2	716.698	193028
	1	SHORT(A)	MRSSHORT		SLOWR1	15	1	1	Dither 2	2	2	716.698	193028
	2	MEDIUM(B)	MRSLONG		SLOWR1	15	1	1	Dither 2	2	2	716.698	193028
	2	MEDIUM(B)	MRSSHORT		SLOWR1	15	1	1	Dither 2	2	2	716.698	193028
	3	LONG(C)	MRSLONG		SLOWR1	35	1	1	Dither 2	2	2	1672.294	193028
	3	LONG(C)	MRSSHORT		SLOWR1	35	1	1	Dither 2	2	2	1672.294	193028

Proposal 3655 - Observation 7 - Investigating the impact of quasar-driven outflows on recent star formation

Special Requirements

Sequence Observations 7, 8, Non-interruptible

Proposal 3655 - Observation 8 - Investigating the impact of quasar-driven outflows on recent star formation

Tue Dec 03 17:00:11 GMT 2024

Observation	Proposal 3655, Observation 8: J1430+1339 Diagnostic Status: Warning Observing Template: MIRI Medium Resolution Spectroscopy Background Observations:[J1430+1339-BCK (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					
	(8)	J1430+1339	RA: 14 30 29.8800 (217.6245000d) Dec: +13 39 12.03 (13.65334d) Equinox: J2000		Epoch of Position: 2015.5								
Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. Category=Galaxy Description=[Active galactic nuclei, Radio quiet quasars] Extended=YES													
Acquisition	#	Target											
	1	NONE											
Template	AcqFilter	Primary Channel		Simultaneous Imaging		Imager Subarray		Grating Wheel Direction					
	FND	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		SLOWR1	15	1	1	Dither 1	4	4	1433.395	193028
	1	SHORT(A)	MRSSHORT		SLOWR1	15	1	1	Dither 1	4	4	1433.395	193028
	2	MEDIUM(B)	MRSLONG		SLOWR1	15	1	1	Dither 1	4	4	1433.395	193028
	2	MEDIUM(B)	MRSSHORT		SLOWR1	15	1	1	Dither 1	4	4	1433.395	193028
	3	LONG(C)	MRSLONG		SLOWR1	35	1	1	Dither 1	4	4	3344.589	193028
	3	LONG(C)	MRSSHORT		SLOWR1	35	1	1	Dither 1	4	4	3344.589	193028

Proposal 3655 - Observation 8 - Investigating the impact of quasar-driven outflows on recent star formation

Special Requirements

Sequence Observations 7, 8, Non-interruptible

Proposal 3655 - Observation 9 - Investigating the impact of quasar-driven outflows on recent star formation

Tue Dec 03 17:00:11 GMT 2024

Observation	Proposal 3655, Observation 9: J1010+0612-BCK Diagnostic Status: Warning Observing Template: MIRI Medium Resolution Spectroscopy Background Observation For: [J1010+0612 (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)	J1010+0612-BCK	RA: 10 10 42.0000 (152.6750000d) Dec: +06 12 25.00 (6.20694d) Equinox: J2000										
<i>Comments: This object was generated by the targetselector and retrieved from the NED database.</i> <i>Category=Galaxy</i> <i>Description=[Active galactic nuclei, Radio quiet quasars]</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			POINT SOURCE				NEGATIVE				
	2	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	SHORT(A)	MRSLONG		SLOWR1	18	1	1	Dither 2	2	2	860.037	193025
	1	SHORT(A)	MRSSHORT		SLOWR1	18	1	1	Dither 2	2	2	860.037	193025
	2	MEDIUM(B)	MRSLONG		SLOWR1	18	1	1	Dither 2	2	2	860.037	193025
	2	MEDIUM(B)	MRSSHORT		SLOWR1	18	1	1	Dither 2	2	2	860.037	193025
	3	LONG(C)	MRSLONG		SLOWR1	35	1	1	Dither 2	2	2	1672.294	193025
	3	LONG(C)	MRSSHORT		SLOWR1	35	1	1	Dither 2	2	2	1672.294	193025

Proposal 3655 - Observation 9 - Investigating the impact of quasar-driven outflows on recent star formation

Special Requirements

Sequence Observations 9, 10, Non-interruptible

Proposal 3655 - Observation 10 - Investigating the impact of quasar-driven outflows on recent star formation

Tue Dec 03 17:00:11 GMT 2024

Observation	Proposal 3655, Observation 10: J1010+0612 Diagnostic Status: Warning Observing Template: MIRI Medium Resolution Spectroscopy Background Observations:[J1010+0612-BCK (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)	J1010+0612	RA: 10 10 43.3656 (152.6806900d) Dec: +06 12 1.48 (6.20041d) Equinox: J2000 <i>Comments: This object was generated by the targetselector and retrieved from the NED database.</i> <i>Category=Galaxy</i> <i>Description=[Active galactic nuclei, Radio quiet quasars]</i> <i>Extended=YES</i>										
Acquisition	#	Target											
	1	NONE											
Template	AcqFilter	Primary Channel			Simultaneous Imaging			Imager Subarray		Grating Wheel Direction			
	FND	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		SLOWR1	18	1	1	Dither 1	4	4	1720.074	193025
	1	SHORT(A)	MRSSHORT		SLOWR1	18	1	1	Dither 1	4	4	1720.074	193025
	2	MEDIUM(B)	MRSLONG		SLOWR1	18	1	1	Dither 1	4	4	1720.074	193025
	2	MEDIUM(B)	MRSSHORT		SLOWR1	18	1	1	Dither 1	4	4	1720.074	193025
	3	LONG(C)	MRSLONG		SLOWR1	35	1	1	Dither 1	4	4	3344.589	193025
	3	LONG(C)	MRSSHORT		SLOWR1	35	1	1	Dither 1	4	4	3344.589	193025

Proposal 3655 - Observation 10 - Investigating the impact of quasar-driven outflows on recent star formation

Special Requirements

Sequence Observations 9, 10, Non-interruptible