



3158 - JWST/MIRI unravels the impact of AGN feedback on star-formation at cosmic noon

Cycle: 2, Proposal Category: GO

INVESTIGATORS

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JWST Proposal 3158 (Created: Tuesday, September 5, 2023 at 3:00:20 AM Eastern Standard Time) - Overview

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Dr. Jan Scholtz (CoI) (ESA Member)	University of Cambridge, Kavli Institute for Cosmology

OBSERVATIONS

<i>Folder</i>	<i>Observation</i>	<i>Label</i>	<i>Observing Template</i>	<i>Science Target</i>
Observation Folder				
	1	cid346_PAH	MIRI Medium Resolution Spectroscopy	(1) CID346
	5	cid346_background	MIRI Medium Resolution Spectroscopy	(5) CID346-BACKGROUND
	2	XID36_PAH	MIRI Medium Resolution Spectroscopy	(2) XID36
	6	XID36_background	MIRI Medium Resolution Spectroscopy	(6) XID36-BACKGROUND
	3	XN8144_PAH	MIRI Medium Resolution Spectroscopy	(3) XN8144
	7	XN8144_background	MIRI Medium Resolution Spectroscopy	(7) XN8144-BACKGROUND
	4	XN11523_PAH	MIRI Medium Resolution Spectroscopy	(4) XN11523
	8	XN11523_background	MIRI Medium Resolution Spectroscopy	(8) XN11523-BACKGROUND

ABSTRACT

Detailed 3D zoom-in hydrodynamical simulations predicted a wide range of possible effects that energetic AGN-driven outflows have on their galaxy host's gas content: from no impact on to significant destruction of dense gas clouds in the nucleus and rapid suppression of star-formation. Observations are therefore key to determine which theoretical scenario is correct; however, they have been severely limited, prior of the JWST era,

by their inability to have a reliable tracer of recent (<10 Myr) star-formation in luminous ($\log(L_{\text{bol}})=45-46$ erg s $^{-1}$) AGN at $z\sim 2$.

With JWST/MIRI, we will overcome this limitation by using the PAH[6.2 micron] emission to reliably trace, in a spatially resolved fashion, the recent star-formation. We target four AGN at $z\sim 2$ with already identified ~ 6 kpc wide ionized outflows based on deep SINFONI-AO observations. We will combine the MIRI PAH maps with the already available ionized outflow maps, as traced by [OIII], and ALMA maps tracing star-formation on ~ 100 My timescales (from rest-frame FIR continuum observations). This unique set of observations will allow us to answer the following questions: 1) are these AGN outflows able to rapidly suppress star-formation? 2) are these AGN outflows driven by radiation pressure on dust or are thermally driven?

OBSERVING DESCRIPTION

The targets of these observations are four AGN at $z\sim 2$ with well established ionized outflows on kpc scales.

We will use MIRI MRS to sample the PAH6.2 micron feature with the Short configuration in CH-4

We will not perform Target Acquisition, since the absolute JWST pointing accuracy of 0.1arcsec is more than sufficient given the size of our targets (~ 1 arcsec diameter) and the fov of Channel-4.

CID436

No target acquisition procedure needed

4-point dither pattern

38 groups and 3 exposures per dither position

Readout mode: SLOW

Total exposure time on source: 3.05 hours

XID36

No target acquisition procedure needed

4-point dither pattern

38 groups and 3 exposures per dither position

Readout mode: SLOW

Total exposure time on source: 3.05 hours

JWST Proposal 3158 (Created: Tuesday, September 5, 2023 at 3:00:20 AM Eastern Standard Time) - Overview

XN8144

No target acquisition procedure needed

4-point dither pattern

38 groups and 3 exposures per dither position

Readout mode: SLOW

Total exposure time on source: 3.05 hours

XN11523

No target acquisition procedure needed

4-point dither pattern

38 groups and 3 exposures per dither position

Readout mode: SLOW

Total exposure time on source: 3.05 hours

Total requested time: 12.2 hours of science time, 19.3 hours including overheads and background observations.

Proposal 3158 - Targets - JWST/MIRI unravels the impact of AGN feedback on star-formation at cosmic noon

#	Name	Target Coordinates	Targ. Coord. Corrections	Miscellaneous
Fixed Targets	(1)	CID346 RA: 09 59 43.4100 (149.9308750d) Dec: +02 07 7.44 (2.11873d) Equinox: J2000 <i>Comments: Type-1 AGN, z=2.219</i> <i>Category=Galaxy</i> <i>Description=[Active galactic nuclei, Active galaxies, Quasars]</i> <i>Extended=YES</i>	Epoch of Position: 2000	
	(2)	XID36 RA: 03 31 50.7700 (52.9615417d) Dec: -27 47 3.41 (-27.78428d) Equinox: J2000 <i>Comments: Type-2 AGN, z=2.259</i> <i>Category=Galaxy</i> <i>Description=[Active galactic nuclei, Active galaxies, Quasars]</i> <i>Extended=YES</i>	Epoch of Position: 2000	
	(3)	XN8144 RA: 02 17 30.9500 (34.3789583d) Dec: -04 18 23.66 (-4.30657d) Equinox: J2000 <i>Comments: Type-1 AGN, z=2.311</i> <i>Category=Galaxy</i> <i>Description=[Active galactic nuclei, Active galaxies, Quasars]</i> <i>Extended=YES</i>	Epoch of Position: 2000	
	(4)	XN11523 RA: 02 30 5.6600 (37.5235833d) Dec: -05 08 14.10 (-5.13725d) Equinox: J2000 <i>Comments: Type-1 AGN, z=2.342</i> <i>Category=Galaxy</i> <i>Description=[Active galactic nuclei, Active galaxies, Quasars]</i> <i>Extended=YES</i>	Epoch of Position: 2000	
	(5)	CID346-BACKGROUND RA: 09 59 41.8228 (149.9242617d) Dec: +02 07 7.35 (2.11871d) Equinox: J2000 <i>Comments: Background observation for a Type-1 AGN, z=2.219</i> <i>Category=Galaxy</i> <i>Description=[Active galactic nuclei, Active galaxies, Quasars]</i> <i>Extended=YES</i>	Epoch of Position: 2000	
	(6)	XID36-BACKGROUND RA: 03 31 51.6257 (52.9651071d) Dec: -27 47 24.38 (-27.79011d) Equinox: J2000 <i>Comments: Background observations of a Type-2 AGN, z=2.259</i> <i>Category=Galaxy</i> <i>Description=[Active galactic nuclei, Active galaxies, Quasars]</i> <i>Extended=YES</i>	Epoch of Position: 2000	
	(7)	XN8144-BACKGROUND RA: 02 17 29.9500 (34.3747917d) Dec: -04 18 23.66 (-4.30657d) Equinox: J2000 <i>Comments: Background observations of a Type-1 AGN, z=2.311</i> <i>Category=Galaxy</i> <i>Description=[Active galactic nuclei, Active galaxies, Quasars]</i> <i>Extended=YES</i>	Epoch of Position: 2000	

Proposal 3158 - Targets - JWST/MIRI unravels the impact of AGN feedback on star-formation at cosmic noon

(8)	XN11523-BACKGROUND	RA: 02 30 4.6600 (37.5194167d)	Epoch of Position: 2000
		Dec: -05 08 14.10 (-5.13725d)	
		Equinox: J2000	

Comments: Background observations of a Type-1 AGN, $z=2.342$

Category=Galaxy

Description=[Active galactic nuclei, Active galaxies, Quasars]

Extended=YES

Proposal 3158 - Observation 1 - JWST/MIRI unravels the impact of AGN feedback on star-formation at cosmic noon

Tue Sep 05 08:00:20 GMT 2023

Observation	Proposal 3158, Observation 1: cid346_PAH Diagnostic Status: Warning Observing Template: MIRI Medium Resolution Spectroscopy Background Observations:[cid346_background (Obs 5)]												
	(Visit 1:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.												
Fixed Targets	#	Name	Target Coordinates				Targ. Coord. Corrections			Miscellaneous			
	(1)	CID346	RA: 09 59 43.4100 (149.9308750d) Dec: +02 07 7.44 (2.11873d) Equinox: J2000				Epoch of Position: 2000						
<i>Comments: Type-1 AGN, z=2.219</i> <i>Category=Galaxy</i> <i>Description=[Active galactic nuclei, Active galaxies, 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		NEUTRAL		
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	38	1	1	Dither 1	4	4	3631.268	
	1	SHORT(A)	MRSSHORT		SLOWR1	38	1	1	Dither 1	4	4	3631.268	
	2	SHORT(A)	MRSLONG		SLOWR1	38	1	1	Dither 1	4	4	3631.268	
	2	SHORT(A)	MRSSHORT		SLOWR1	38	1	1	Dither 1	4	4	3631.268	
	3	SHORT(A)	MRSLONG		SLOWR1	38	1	1	Dither 1	4	4	3631.268	
	3	SHORT(A)	MRSSHORT		SLOWR1	38	1	1	Dither 1	4	4	3631.268	
	4	SHORT(A)	MRSLONG		SLOWR1	38	1	1	Dither 1	4	4	3631.268	
	4	SHORT(A)	MRSSHORT		SLOWR1	38	1	1	Dither 1	4	4	3631.268	

Proposal 3158 - Observation 1 - JWST/MIRI unravels the impact of AGN feedback on star-formation at cosmic noon

Special Requirements

Sequence Observations 1, 5, Non-interruptible

Proposal 3158 - Observation 5 - JWST/MIRI unravels the impact of AGN feedback on star-formation at cosmic noon

Tue Sep 05 08:00:20 GMT 2023

Observation	Proposal 3158, Observation 5: cid346_background Diagnostic Status: Warning Observing Template: MIRI Medium Resolution Spectroscopy Background Observation For: [cid346_PAH (Obs 1)]												
	(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)	CID346-BACKGROUND	RA: 09 59 41.8228 (149.9242617d) Dec: +02 07 7.35 (2.11871d) Equinox: J2000				Epoch of Position: 2000						
<i>Comments: Background observation for a Type-1 AGN, z=2.219</i> <i>Category=Galaxy</i> <i>Description=[Active galactic nuclei, Active galaxies, 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		NEUTRAL			
Dithers	#	Dither Type				Optimized For				Direction			
	1	4-Point				EXTENDED 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	38	1	1	Dither 2	2	2	1815.634	
	1	SHORT(A)	MRSSHORT		SLOWR1	38	1	1	Dither 2	2	2	1815.634	

Proposal 3158 - Observation 5 - JWST/MIRI unravels the impact of AGN feedback on star-formation at cosmic noon

Special Requirements

Sequence Observations 1, 5, Non-interruptible

Proposal 3158 - Observation 2 - JWST/MIRI unravels the impact of AGN feedback on star-formation at cosmic noon

Tue Sep 05 08:00:20 GMT 2023

Observation	Proposal 3158, Observation 2: XID36_PAH Diagnostic Status: Warning Observing Template: MIRI Medium Resolution Spectroscopy Background Observations:[XID36_background (Obs 6)]												
	(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)	XID36	RA: 03 31 50.7700 (52.9615417d) Dec: -27 47 3.41 (-27.78428d) Equinox: J2000				Epoch of Position: 2000						
<i>Comments: Type-2 AGN, z=2.259</i> <i>Category=Galaxy</i> <i>Description=[Active galactic nuclei, Active galaxies, 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		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	SHORT(A)	MRSLONG		SLOWR1	38	1	1	Dither 1	4	4	3631.268	
	1	SHORT(A)	MRSSHORT		SLOWR1	38	1	1	Dither 1	4	4	3631.268	
	2	SHORT(A)	MRSLONG		SLOWR1	38	1	1	Dither 1	4	4	3631.268	
	2	SHORT(A)	MRSSHORT		SLOWR1	38	1	1	Dither 1	4	4	3631.268	
	3	SHORT(A)	MRSLONG		SLOWR1	38	1	1	Dither 1	4	4	3631.268	
	3	SHORT(A)	MRSSHORT		SLOWR1	38	1	1	Dither 1	4	4	3631.268	
	4	SHORT(A)	MRSLONG		SLOWR1	38	1	1	Dither 1	4	4	3631.268	
	4	SHORT(A)	MRSSHORT		SLOWR1	38	1	1	Dither 1	4	4	3631.268	

Proposal 3158 - Observation 2 - JWST/MIRI unravels the impact of AGN feedback on star-formation at cosmic noon

Special Requirements

Sequence Observations 2, 6, Non-interruptible

Proposal 3158 - Observation 6 - JWST/MIRI unravels the impact of AGN feedback on star-formation at cosmic noon

Tue Sep 05 08:00:20 GMT 2023

Observation	Proposal 3158, Observation 6: XID36_background Diagnostic Status: Warning Observing Template: MIRI Medium Resolution Spectroscopy Background Observation For: [XID36_PAH (Obs 2)]												
	(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)	XID36-BACKGROUND	RA: 03 31 51.6257 (52.9651071d) Dec: -27 47 24.38 (-27.79011d) Equinox: J2000 <i>Comments: Background observations of a Type-2 AGN, z=2.259</i> <i>Category=Galaxy</i> <i>Description=[Active galactic nuclei, Active galaxies, Quasars]</i> <i>Extended=YES</i>				Epoch of Position: 2000						
Acquisition	#	Target											
	1	NONE											
Template	AcqFilter	Primary Channel			Simultaneous Imaging			Imager Subarray		Grating Wheel Direction			
		All MRS			NO			FULL		NEUTRAL			
Dithers	#	Dither Type				Optimized For				Direction			
	1	4-Point				EXTENDED 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	38	1	1	Dither 2	2	2	1815.634	
	1	SHORT(A)	MRSSHORT		SLOWR1	38	1	1	Dither 2	2	2	1815.634	

Proposal 3158 - Observation 6 - JWST/MIRI unravels the impact of AGN feedback on star-formation at cosmic noon

Special Requirements

Sequence Observations 2, 6, Non-interruptible

Proposal 3158 - Observation 3 - JWST/MIRI unravels the impact of AGN feedback on star-formation at cosmic noon

Tue Sep 05 08:00:20 GMT 2023

Observation	Proposal 3158, Observation 3: XN8144_PAH Diagnostic Status: Warning Observing Template: MIRI Medium Resolution Spectroscopy Background Observations:[XN8144_background (Obs 7)]												
	(Visit 3:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.												
Fixed Targets	#	Name	Target Coordinates				Targ. Coord. Corrections			Miscellaneous			
	(3)	XN8144	RA: 02 17 30.9500 (34.3789583d) Dec: -04 18 23.66 (-4.30657d) Equinox: J2000				Epoch of Position: 2000						
<i>Comments: Type-1 AGN, z=2.311</i> <i>Category=Galaxy</i> <i>Description=[Active galactic nuclei, Active galaxies, 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		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	SHORT(A)	MRSLONG		SLOWR1	38	1	1	Dither 1	4	4	3631.268	
	1	SHORT(A)	MRSSHORT		SLOWR1	38	1	1	Dither 1	4	4	3631.268	
	2	SHORT(A)	MRSLONG		SLOWR1	38	1	1	Dither 1	4	4	3631.268	
	2	SHORT(A)	MRSSHORT		SLOWR1	38	1	1	Dither 1	4	4	3631.268	
	3	SHORT(A)	MRSLONG		SLOWR1	38	1	1	Dither 1	4	4	3631.268	
	3	SHORT(A)	MRSSHORT		SLOWR1	38	1	1	Dither 1	4	4	3631.268	
	4	SHORT(A)	MRSLONG		SLOWR1	38	1	1	Dither 1	4	4	3631.268	
	4	SHORT(A)	MRSSHORT		SLOWR1	38	1	1	Dither 1	4	4	3631.268	

Proposal 3158 - Observation 3 - JWST/MIRI unravels the impact of AGN feedback on star-formation at cosmic noon

Special Requirements

Sequence Observations 3, 7, Non-interruptible

Proposal 3158 - Observation 7 - JWST/MIRI unravels the impact of AGN feedback on star-formation at cosmic noon

Tue Sep 05 08:00:20 GMT 2023

Observation	Proposal 3158, Observation 7: XN8144_background Diagnostic Status: Warning Observing Template: MIRI Medium Resolution Spectroscopy Background Observation For: [XN8144_PAH (Obs 3)]																																																		
	(Visit 7:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.																																																		
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>(7)</td> <td>XN8144-BACKGROUND</td> <td>RA: 02 17 29.9500 (34.3747917d) Dec: -04 18 23.66 (-4.30657d) Equinox: J2000</td> <td>Epoch of Position: 2000</td> <td></td> </tr> </tbody> </table> <p><i>Comments: Background observations of a Type-1 AGN, z=2.311</i> <i>Category=Galaxy</i> <i>Description=[Active galactic nuclei, Active galaxies, Quasars]</i> <i>Extended=YES</i></p>												#	Name	Target Coordinates	Targ. Coord. Corrections	Miscellaneous	(7)	XN8144-BACKGROUND	RA: 02 17 29.9500 (34.3747917d) Dec: -04 18 23.66 (-4.30657d) Equinox: J2000	Epoch of Position: 2000																														
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Template	<table border="1"> <thead> <tr> <th>AcqFilter</th> <th>Primary Channel</th> <th>Simultaneous Imaging</th> <th>Imager Subarray</th> <th>Grating Wheel Direction</th> </tr> </thead> <tbody> <tr> <td></td> <td>All MRS</td> <td>NO</td> <td>FULL</td> <td>NEUTRAL</td> </tr> </tbody> </table>												AcqFilter	Primary Channel	Simultaneous Imaging	Imager Subarray	Grating Wheel Direction		All MRS	NO	FULL	NEUTRAL																													
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	#	Dither Type	Optimized For	Direction																																															
1	4-Point	EXTENDED SOURCE	NEGATIVE																																																
2	2-Point	EXTENDED SOURCE	NEGATIVE																																																
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/Exp</th> <th>Exposures/Dith</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>SHORT(A)</td> <td>MRSLONG</td> <td></td> <td>SLOWR1</td> <td>38</td> <td>1</td> <td>1</td> <td>Dither 2</td> <td>2</td> <td>2</td> <td>1815.634</td> <td></td> </tr> <tr> <td>1</td> <td>SHORT(A)</td> <td>MRSSHORT</td> <td></td> <td>SLOWR1</td> <td>38</td> <td>1</td> <td>1</td> <td>Dither 2</td> <td>2</td> <td>2</td> <td>1815.634</td> <td></td> </tr> </tbody> </table>												#	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	38	1	1	Dither 2	2	2	1815.634		1	SHORT(A)	MRSSHORT		SLOWR1	38	1	1	Dither 2	2	2	1815.634	
	#	Wavelength Range	Detector	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Exposures/Dith	Dither	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID																																						
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1	SHORT(A)	MRSSHORT		SLOWR1	38	1	1	Dither 2	2	2	1815.634																																								

Proposal 3158 - Observation 7 - JWST/MIRI unravels the impact of AGN feedback on star-formation at cosmic noon

Special Requirements

Sequence Observations 3, 7, Non-interruptible

Proposal 3158 - Observation 4 - JWST/MIRI unravels the impact of AGN feedback on star-formation at cosmic noon

Tue Sep 05 08:00:20 GMT 2023

Observation	Proposal 3158, Observation 4: XN11523_PAH Diagnostic Status: Warning Observing Template: MIRI Medium Resolution Spectroscopy Background Observations:[XN11523_background (Obs 8)]												
	(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)	XN11523	RA: 02 30 5.6600 (37.5235833d) Dec: -05 08 14.10 (-5.13725d) Equinox: J2000				Epoch of Position: 2000						
<i>Comments: Type-1 AGN, z=2.342</i> <i>Category=Galaxy</i> <i>Description=[Active galactic nuclei, Active galaxies, 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		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	SHORT(A)	MRSLONG		SLOWR1	38	1	1	Dither 1	4	4	3631.268	
	1	SHORT(A)	MRSSHORT		SLOWR1	38	1	1	Dither 1	4	4	3631.268	
	2	SHORT(A)	MRSLONG		SLOWR1	38	1	1	Dither 1	4	4	3631.268	
	2	SHORT(A)	MRSSHORT		SLOWR1	38	1	1	Dither 1	4	4	3631.268	
	3	SHORT(A)	MRSLONG		SLOWR1	38	1	1	Dither 1	4	4	3631.268	
	3	SHORT(A)	MRSSHORT		SLOWR1	38	1	1	Dither 1	4	4	3631.268	
	4	SHORT(A)	MRSLONG		SLOWR1	38	1	1	Dither 1	4	4	3631.268	
	4	SHORT(A)	MRSSHORT		SLOWR1	38	1	1	Dither 1	4	4	3631.268	

Proposal 3158 - Observation 4 - JWST/MIRI unravels the impact of AGN feedback on star-formation at cosmic noon

Special Requirements

Sequence Observations 4, 8, Non-interruptible

Proposal 3158 - Observation 8 - JWST/MIRI unravels the impact of AGN feedback on star-formation at cosmic noon

Tue Sep 05 08:00:20 GMT 2023

Observation	Proposal 3158, Observation 8: XN11523_background Diagnostic Status: Warning Observing Template: MIRI Medium Resolution Spectroscopy Background Observation For: [XN11523_PAH (Obs 4)]												
	(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)	XN11523-BACKGROUND	RA: 02 30 4.6600 (37.5194167d) Dec: -05 08 14.10 (-5.13725d) Equinox: J2000				Epoch of Position: 2000						
<i>Comments: Background observations of a Type-1 AGN, z=2.342</i> <i>Category=Galaxy</i> <i>Description=[Active galactic nuclei, Active galaxies, 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		NEUTRAL		
Dithers	#	Dither Type				Optimized For				Direction			
	1	4-Point				EXTENDED 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	38	1	1	Dither 2	2	2	1815.634	
	1	SHORT(A)	MRSSHORT		SLOWR1	38	1	1	Dither 2	2	2	1815.634	

Proposal 3158 - Observation 8 - JWST/MIRI unravels the impact of AGN feedback on star-formation at cosmic noon

Special Requirements

Sequence Observations 4, 8, Non-interruptible