



1701 - Dissecting the Prototypical Starbursts NGC 253 and M 82 and Their Cool Galactic Winds

Cycle: 1, Proposal Category: GO

INVESTIGATORS

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JWST Proposal 1701 (Created: Wednesday, November 6, 2024, 4:00:14PM Eastern Standard Time) - Overview

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OBSERVATIONS

<i>Folder</i>	<i>Observation</i>	<i>Label</i>	<i>Observing Template</i>	<i>Science Target</i>
NGC253 MIRI Imaging				
	1	Outflow-Imaging NGC 253	MIRI Imaging	(24) NGC-253-MIRIMOS
	2	Center NGC253	MIRI Imaging	(21) NGC-253-IM-CENTER
NGC253 MIRI MRS				
	11	MRS-SSCs-EAST	MIRI Medium Resolution Spectroscopy	(3) NGC-253-MRS-EAST
	12	MRS-SSCs-CENTER	MIRI Medium Resolution Spectroscopy	(4) NGC-253-MRS-CENTER
	13	MRS-SSCs-WEST	MIRI Medium Resolution Spectroscopy	(5) NGC-253-MRS-WEST
	14	MRS-SSCs-SOUTHWEST	MIRI Medium Resolution Spectroscopy	(25) NGC-253-MRS-SOUTHWEST
	15	Background: MRS-SSCs-BACKGROUND	MIRI Medium Resolution Spectroscopy	(6) NGC-253-BKGD
NGC253 NIRCcam Imaging				
	21	NGC253 NIRCcam Window	NIRCcam Imaging	(21) NGC-253-IM-CENTER
	53	NGC253 NIRCcam Window repeat obs 21	NIRCcam Imaging	(21) NGC-253-IM-CENTER
	55	NGC253 NIRCcam Window repeat 53:5	NIRCcam Imaging	(21) NGC-253-IM-CENTER

JWST Proposal 1701 (Created: Wednesday, November 6, 2024, 4:00:14PM Eastern Standard Time) - Overview

<i>Folder</i>	<i>Observation</i>	<i>Label</i>	<i>Observing Template</i>	<i>Science Target</i>
	56	NGC253 NIRCам Wind repeat 53:3	NIRCам Imaging	(21) NGC-253-IM-CENTER
	57	NGC253 NIRCам Wind 53:2 new PA	NIRCам Imaging	(21) NGC-253-IM-CENTER
	59	NGC253 NIRCам Wind 53:2 new PA	NIRCам Imaging	(21) NGC-253-IM-CENTER
	22	NGC253 NIRCам Center	NIRCам Imaging	(21) NGC-253-IM-CENTER
	54	NGC253 NIRCам Center repeat obs 22	NIRCам Imaging	(21) NGC-253-IM-CENTER
M82 MIRI Imaging				
	31	Center M82	MIRI Imaging	(7) M-82-IM-CENTER
	32	Outflow-Imaging M82	MIRI Imaging	(7) M-82-IM-CENTER
M82 MIRI MRS				
	41	MRS-SSCs-EAST	MIRI Medium Resolution Spectroscopy	(12) M-82-MRS-EAST
	42	MRS-SSCs-far-EAST	MIRI Medium Resolution Spectroscopy	(26) M-82-MRS-FAR-EAST
	43	MRS-SSCs-CENTER-EAST	MIRI Medium Resolution Spectroscopy	(13) M-82-MRS-CENTER-EAST
	44	MRS-SSCs-WEST	MIRI Medium Resolution Spectroscopy	(14) M-82-MRS-WEST
	45	MRS-SSCs-CENTER-WEST	MIRI Medium Resolution Spectroscopy	(15) M-82-MRS-CENTER-WEST
	46	MRS-SSCs-CENTER-NORTH	MIRI Medium Resolution Spectroscopy	(16) M-82-MRS-CENTER-NORTH
	47	MRS-SSCs-CENTER-SOUTH	MIRI Medium Resolution Spectroscopy	(17) M-82-MRS-CENTER-SOUTH
	48	Background: MRS-SSCs-BACKGROUND	MIRI Medium Resolution Spectroscopy	(18) M-82-BKGD
	58	Background: MRS-SSCs-BACKGROUND	MIRI Medium Resolution Spectroscopy	(18) M-82-BKGD
M82 NIRCам Imaging				
	51	M82 NIRCам Wind	NIRCам Imaging	(7) M-82-IM-CENTER
	52	M82 NIRCам Center	NIRCам Imaging	(7) M-82-IM-CENTER

ABSTRACT

Starbursts, their galactic winds, and the physical mechanisms regulating them, are key to understand the evolution of galaxies through cosmic time. We propose to use the unparalleled capabilities of JWST to perform imaging and spectroscopic observations of NGC253 and M82, the nearest archetypal examples of the starburst phenomenon and the hosts of notable starburst-driven multi-phase winds. We will obtain MIRI MRS spectroscopy of their cores and MIRI/NIRCam imaging of their multi-phase outflows. Infrared and millimeter/radio imaging have revealed the presence of super star clusters (SSCs) in both objects -- the engines of the starbursts -- the youngest of which are still in formation and highly obscured. MIRI MRS spectroscopy of these starburst regions is our best tool to study these SSCs, enabling determination of their physical conditions, stellar populations, and feedback on their surroundings. We will also obtain MIRI and NIRCam imaging to trace dust and shocks in the cool, mass-dominant component of the outflowing gas through PAHs bands and band-ratios and the [FeII] and H2 $v=1-0$ transitions. At the unprecedented spatial resolution enabled by JWST, these data will reveal the details of the massive stellar clusters, the physics of the launching mechanisms of the cool wind, and the evolution of the neutral and molecular material as it is entrained by the hot galactic wind. The comparison of NGC253 (a nuclear bar-driven starburst in a large spiral galaxy) with M82 (an interaction-driven starburst in a dwarf galaxy) will allow us to characterize and compare the physics of SSC formation and wind launching in two distinctly different starburst environments.

OBSERVING DESCRIPTION

For both galaxies we carry out 3 types of observations:

- 1) MRS spectroscopy covering the area of the starburst and nascent clusters as determined from mm-wave spectroscopy and IR observations, as well as the base of the molecular wind. This requires 4 pointings in NGC253 and 7 pointings in M82. We enable simultaneous MIRI imaging in the same filters as described below. IRAC 8 μm images have been used to select background positions which avoid bright emission but are still close to the galaxies. MRS and MIRI imager observations are sequenced, sharing a single MIRI MRS+Imager background.
- 2) MIRI imaging in 1130W and 770W, with 560W as the "off PAH" filter for continuum subtraction. Full array observations are obtained along the outflow, in a 4x1 mosaic with PA constraints, as the most efficient way of covering the required area. The PA constraints are designed to allow a reasonably wide scheduling window (1 and 1.5 months, respectively). The central region corresponding to the starburst is imaged in a second observation with the SUB128 sub-array in the same filters, to avoid saturation problems on the starburst. The background observations for MIRI are obtained with the simultaneous imaging turned on during the MRS background. For this reason the MRS-MRS background, and MIRI imaging are sequenced.
- 3) NIRCam imaging in the F164N, F212N, and F335M ([FeII], H2 $v=1-0$, and 3.3 μm PAH) with F140M, F250M, and F360M as "continuum" filters

JWST Proposal 1701 (Created: Wednesday, November 6, 2024, 4:00:14PM Eastern Standard Time) - Overview

bracketing the observations and enabling continuum color corrections. Full array observations are obtained along the outflow, in a 4x1 mosaic with PA constraints, as the most efficient way of covering the required area. The PA constraints are designed to allow a reasonably wide scheduling window (1 and 1.5 months, respectively). The central region corresponding to the starburst is imaged in a second unconstrained observation with the SUB640 array and RAPID readout to avoid saturation problems. Care was taken to keep the data rate for the large mosaic within the guideline of 0.68 MB/s using a MEDIUM8 readout pattern. No background observation is needed for NIRCcam.

Proposal 1701 - Targets - Dissecting the Prototypical Starbursts NGC 253 and M 82 and Their Cool Galactic Winds

#	Name	Target Coordinates	Targ. Coord. Corrections	Miscellaneous
(3)	NGC-253-MRS-EAST	RA: 00 47 33.2423 (11.8885096d) Dec: -25 17 16.04 (-25.28779d) Equinox: J2000		
<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> Category=Galaxy Description=[Disk galaxies, Starburst galaxies] Extended=YES				
(4)	NGC-253-MRS-CENTER	RA: 00 47 33.0653 (11.8877721d) Dec: -25 17 18.40 (-25.28844d) Equinox: J2000		
<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> Category=Galaxy Description=[Disk galaxies, Starburst galaxies] Extended=YES				
(5)	NGC-253-MRS-WEST	RA: 00 47 32.8796 (11.8869983d) Dec: -25 17 20.69 (-25.28908d) Equinox: J2000		
<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> Category=Galaxy Description=[Disk galaxies, Starburst galaxies] Extended=YES				
(6)	NGC-253-BKGD	RA: 00 48 1.3315 (12.0055479d) Dec: -25 22 52.15 (-25.38115d) Equinox: J2000		
<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> Category=Calibration Description=[Telescope/sky background] Extended=NO				
(7)	M-82-IM-CENTER	RA: 09 55 51.5949 (148.9649788d) Dec: +69 40 45.78 (69.67938d) Equinox: J2000		
<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> Category=Galaxy Description=[Starburst galaxies] Extended=YES				
(12)	M-82-MRS-EAST	RA: 09 55 53.7509 (148.9739621d) Dec: +69 40 49.48 (69.68041d) Equinox: J2000		
<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> Category=Galaxy Description=[Starburst galaxies] Extended=YES				
(13)	M-82-MRS-CENTER-EAST	RA: 09 55 52.1463 (148.9672762d) Dec: +69 40 47.46 (69.67985d) Equinox: J2000		
<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> Category=Galaxy Description=[Starburst galaxies] Extended=YES				

Fixed Targets

Proposal 1701 - Targets - Dissecting the Prototypical Starbursts NGC 253 and M 82 and Their Cool Galactic Winds

(14)	M-82-MRS-WEST	RA: 09 55 49.9046 (148.9579358d) Dec: +69 40 42.48 (69.67847d) Equinox: J2000
<p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> Category=Galaxy Description=[Starburst galaxies] Extended=YES</p>		
(15)	M-82-MRS-CENTER-WEST	RA: 09 55 50.4903 (148.9603762d) Dec: +69 40 43.87 (69.67885d) Equinox: J2000
<p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> Category=Galaxy Description=[Starburst galaxies] Extended=YES</p>		
(16)	M-82-MRS-CENTER-NORTH	RA: 09 55 51.3064 (148.9637767d) Dec: +69 40 45.97 (69.67944d) Equinox: J2000
<p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> Category=Galaxy Description=[Starburst galaxies] Extended=YES</p>		
(17)	M-82-MRS-CENTER-SOUTH	RA: 09 55 52.9583 (148.9706596d) Dec: +69 40 48.22 (69.68006d) Equinox: J2000
<p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> Category=Galaxy Description=[Starburst galaxies] Extended=YES</p>		
(18)	M-82-BKGD	RA: 09 50 43.0000 (147.6791667d) Dec: +69 49 50.00 (69.83056d) Equinox: J2000
<p><i>Comments: Empty region selected based on WISE W4/W3 images and HI observations</i> Category=Galaxy Description=[Starburst galaxies] Extended=NO</p>		
(21)	NGC-253-IM-CENTER	RA: 00 47 33.1721 (11.8882171d) Dec: -25 17 16.56 (-25.28793d) Equinox: J2000
<p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> Category=Galaxy Description=[Disk galaxies, Starburst galaxies] Extended=YES</p>		
(24)	NGC-253-MIRIMOS	RA: 00 47 33.0654 (11.8877725d) Dec: -25 17 17.52 (-25.28820d) Equinox: J2000
<p><i>Comments:</i> Category=Galaxy Description=[Starburst galaxies]</p>		

Proposal 1701 - Targets - Dissecting the Prototypical Starbursts NGC 253 and M 82 and Their Cool Galactic Winds

(25) NGC-253-MRS- SOUTHWEST RA: 00 47 32.8884 (11.8870350d)
Dec: -25 17 24.64 (-25.29018d)
Equinox: J2000

Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.
Category=Galaxy
Description=[Disk galaxies, Starburst galaxies]
Extended=YES

(26) M-82-MRS-FAR-EAST RA: 09 55 54.3272 (148.9763633d)
Dec: +69 40 51.65 (69.68101d)
Equinox: J2000

Comments:
Category=Galaxy
Description=[Starburst galaxies]
Extended=YES

Proposal 1701 - Observation 1 - Dissecting the Prototypical Starbursts NGC 253 and M 82 and Their Cool Galactic Winds

Wed Nov 06 21:00:14 GMT 2024

Observation	Proposal 1701, Observation 1: Outflow-Imaging NGC253 Diagnostic Status: Warning Observing Template: MIRI Imaging <i>Comments: full array imaging along the minor axis/outflow axis to measure PAH bands in the outflow. PA is constrained to optimize mosaic along outflow axis. Observations will use as background the imager data acquired with the MRS background, so they are linked in a non-interruptable sequence.</i>																																																					
	(Visit 1:1) Warning (Form): Overheads are provisional until the Visit Planner has been run. (Visit 1:2) Warning (Form): Overheads are provisional until the Visit Planner has been run. (Visit 1:3) Warning (Form): Overheads are provisional until the Visit Planner has been run. (Visit 1:4) Warning (Form): Overheads are provisional until the Visit Planner has been run.																																																					
Diagnostics																																																						
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<i>Comments: Category=Galaxy Description=Starburst galaxies</i>																																																						
Template	Subarray FULL																																																					
Mosaic	<table border="1"> <thead> <tr> <th>Rows</th> <th>Columns</th> <th>Row Overlap %</th> <th>Column Overlap %</th> <th>Row shift (deg)</th> <th>Column shift (deg)</th> <th>Tile Order</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>4</td> <td>10.0</td> <td>10.0</td> <td>0.0</td> <td>0.0</td> <td>DEFAULT</td> </tr> </tbody> </table>										Rows	Columns	Row Overlap %	Column Overlap %	Row shift (deg)	Column shift (deg)	Tile Order	1	4	10.0	10.0	0.0	0.0	DEFAULT																														
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Spectral Elements	<table border="1"> <thead> <tr> <th>#</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>F560W</td> <td>FASTR1</td> <td>60</td> <td>1</td> <td>1</td> <td>Dither 1</td> <td>4</td> <td>4</td> <td>666.01</td> <td>60961</td> </tr> <tr> <td>2</td> <td>F770W</td> <td>FASTR1</td> <td>60</td> <td>1</td> <td>1</td> <td>Dither 1</td> <td>4</td> <td>4</td> <td>666.01</td> <td>60961</td> </tr> <tr> <td>3</td> <td>F1130W</td> <td>FASTR1</td> <td>60</td> <td>1</td> <td>1</td> <td>Dither 1</td> <td>4</td> <td>4</td> <td>666.01</td> <td>60961</td> </tr> </tbody> </table>										#	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Exposures/Dith	Dither	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID	1	F560W	FASTR1	60	1	1	Dither 1	4	4	666.01	60961	2	F770W	FASTR1	60	1	1	Dither 1	4	4	666.01	60961	3	F1130W	FASTR1	60	1	1	Dither 1	4	4	666.01	60961
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3	F1130W	FASTR1	60	1	1	Dither 1	4	4	666.01	60961																																												
Special Requirements	Group Visits within 53.0 Days Aperture PA Range 40 to 60 Degrees (V3 35.16455103 to 55.16455103) Visits Same PA Sequence Observations 1, 2, 11, 12, 13, 14, 15, Non-interruptible																																																					

Proposal 1701 - Observation 2 - Dissecting the Prototypical Starbursts NGC 253 and M 82 and Their Cool Galactic Winds

Wed Nov 06 21:00:14 GMT 2024

Observation	Proposal 1701, Observation 2: Center NGC253 Diagnostic Status: Warning Observing Template: MIRI Imaging <i>Comments: fast subarray imaging in the center of the starburst to prevent saturation effects. Observations will use as background the imager data acquired with the MRS background, so they are linked in a non-interruptable sequence.</i>										
	(Visit 2:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.										
Fixed Targets	#	Name	Target Coordinates			Targ. Coord. Corrections		Miscellaneous			
	(21)	NGC-253-IM-CENTER	RA: 00 47 33.1721 (11.8882171d) Dec: -25 17 16.56 (-25.28793d) Equinox: J2000								
<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> Category=Galaxy Description=[Disk galaxies, Starburst galaxies] Extended=YES											
Template	Subarray										
	SUB128										
Mosaic	Rows	Columns	Row Overlap %	Column Overlap %	Row shift (deg)	Column shift (deg)	Tile Order				
	2	2	20.0	20.0	0.0	0.0	DEFAULT				
Dithers	#	Dither Type	Starting Point	Number of Points	Points	Starting Set	Number of Sets	Optimized For	Direction	Pattern Size	
	1	4-Point-Sets				1	1	EXTENDED SOURCE	POSITIVE	DEFAULT	
Spectral Elements	#	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Exposures/Dith	Dither	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
	1	F560W	FASTR1	5	1	1	Dither 1	4	4	2.381	60961
	2	F770W	FASTR1	5	1	1	Dither 1	4	4	2.381	60961
	3	F1130W	FASTR1	5	1	1	Dither 1	4	4	2.381	60961

Proposal 1701 - Observation 2 - Dissecting the Prototypical Starbursts NGC 253 and M 82 and Their Cool Galactic Winds

Special Requirements

Sequence Observations 1, 2, 11, 12, 13, 14, 15, Non-interruptible

Proposal 1701 - Observation 11 - Dissecting the Prototypical Starbursts NGC 253 and M 82 and Their Cool Galactic Winds

Wed Nov 06 21:00:14 GMT 2024

Observation	Proposal 1701, Observation 11: MRS-SSCs-EAST Diagnostic Status: Warning Observing Template: MIRI Medium Resolution Spectroscopy Background Observations:[Background: MRS-SSCs-BACKGROUND (Obs 15)] <i>Comments: covering submm clusters in starburst center. Observations will use MRS background observation, so they are linked in a non-interruptable sequence.</i>																																																																																																																																													
Diagnostics	(Visit 11:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.																																																																																																																																													
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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>YES</td> <td>FULL</td> <td>Allow Auto Reorder</td> </tr> </tbody> </table>												AcqFilter	Primary Channel	Simultaneous Imaging	Imager Subarray	Grating Wheel Direction		All MRS	YES	FULL	Allow Auto Reorder																																																																																																																								
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Proposal 1701 - Observation 11 - Dissecting the Prototypical Starbursts NGC 253 and M 82 and Their Cool Galactic Winds

Special Requirements

Sequence Observations 1, 2, 11, 12, 13, 14, 15, Non-interruptible

Proposal 1701 - Observation 12 - Dissecting the Prototypical Starbursts NGC 253 and M 82 and Their Cool Galactic Winds

Wed Nov 06 21:00:14 GMT 2024

Observation	Proposal 1701, Observation 12: MRS-SSCs-CENTER Diagnostic Status: Warning Observing Template: MIRI Medium Resolution Spectroscopy Background Observations:[Background: MRS-SSCs-BACKGROUND (Obs 15)] <i>Comments: covering submm clusters in starburst center. Observations will use MRS background observation, so they are linked in a non-interruptable sequence.</i>												
	(Visit 12:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.												
Fixed Targets	#	Name	Target Coordinates		Targ. Coord. Corrections				Miscellaneous				
	(4)	NGC-253-MRS-CENTER	RA: 00 47 33.0653 (11.8877721d) Dec: -25 17 18.40 (-25.28844d) Equinox: J2000										
<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> Category=Galaxy Description=[Disk galaxies, Starburst galaxies] Extended=YES													
Acquisition	#	Target											
	1	NONE											
Template	AcqFilter	Primary Channel		Simultaneous Imaging		Imager Subarray		Grating Wheel Direction					
		All MRS		YES		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		IMAGER	F1130W	FASTR1	30	1	1	Dither 1	4	4	333.005	60963
	1	LONG(C)	MRSLONG		FASTR1	30	1	1	Dither 1	4	4	333.005	60963
	1	LONG(C)	MRSSSHORT		FASTR1	30	1	1	Dither 1	4	4	333.005	60963
	2		IMAGER	F770W	FASTR1	30	1	1	Dither 1	4	4	333.005	60963
	2	MEDIUM(B)	MRSLONG		FASTR1	30	1	1	Dither 1	4	4	333.005	60963
	2	MEDIUM(B)	MRSSSHORT		FASTR1	30	1	1	Dither 1	4	4	333.005	60963
	3		IMAGER	F560W	FASTR1	30	1	1	Dither 1	4	4	333.005	60963
	3	SHORT(A)	MRSLONG		FASTR1	30	1	1	Dither 1	4	4	333.005	60963
	3	SHORT(A)	MRSSSHORT		FASTR1	30	1	1	Dither 1	4	4	333.005	60963

Proposal 1701 - Observation 12 - Dissecting the Prototypical Starbursts NGC 253 and M 82 and Their Cool Galactic Winds

Special Requirements

Sequence Observations 1, 2, 11, 12, 13, 14, 15, Non-interruptible

Proposal 1701 - Observation 13 - Dissecting the Prototypical Starbursts NGC 253 and M 82 and Their Cool Galactic Winds

Wed Nov 06 21:00:14 GMT 2024

Observation	<p>Proposal 1701, Observation 13: MRS-SSCs-WEST</p> <p>Diagnostic Status: Warning</p> <p>Observing Template: MIRI Medium Resolution Spectroscopy</p> <p>Background Observations:[Background: MRS-SSCs-BACKGROUND (Obs 15)]</p> <p><i>Comments: covering submm clusters in starburst center. Observations will use MRS background observation, so they are linked in a non-interruptable sequence.</i></p>																																																																																																																																													
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Proposal 1701 - Observation 13 - Dissecting the Prototypical Starbursts NGC 253 and M 82 and Their Cool Galactic Winds

Special Requirements

Sequence Observations 1, 2, 11, 12, 13, 14, 15, Non-interruptible

Proposal 1701 - Observation 14 - Dissecting the Prototypical Starbursts NGC 253 and M 82 and Their Cool Galactic Winds

Wed Nov 06 21:00:14 GMT 2024

Observation	<p>Proposal 1701, Observation 14: MRS-SSCs-SOUTHWEST</p> <p>Diagnostic Status: Warning</p> <p>Observing Template: MIRI Medium Resolution Spectroscopy</p> <p>Background Observations:[Background: MRS-SSCs-BACKGROUND (Obs 15)]</p> <p><i>Comments: covering submm clusters in starburst center. Observations will use MRS background observation, so they are linked in a non-interruptable sequence.</i></p>																																																																																																																																													
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Spectral Elements	<table border="1"> <thead> <tr> <th>#</th> <th>Wavelength Range</th> <th>Detector</th> <th>Filter</th> <th>Readout Pattern</th> <th>Groups/Int</th> <th>Integrations/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></td> <td>IMAGER</td> <td>F1130W</td> <td>FASTR1</td> <td>30</td> <td>1</td> <td>1</td> <td>Dither 1</td> <td>4</td> <td>4</td> <td>333.005</td> <td>60963</td> </tr> <tr> <td>1</td> <td>LONG(C)</td> <td>MRSLONG</td> <td></td> <td>FASTR1</td> <td>30</td> <td>1</td> <td>1</td> <td>Dither 1</td> <td>4</td> <td>4</td> <td>333.005</td> <td>60963</td> </tr> <tr> <td>1</td> <td>LONG(C)</td> <td>MRSSHORT</td> <td></td> <td>FASTR1</td> <td>30</td> <td>1</td> <td>1</td> <td>Dither 1</td> <td>4</td> <td>4</td> <td>333.005</td> <td>60963</td> </tr> <tr> <td>2</td> <td></td> <td>IMAGER</td> <td>F770W</td> <td>FASTR1</td> <td>30</td> <td>1</td> <td>1</td> <td>Dither 1</td> <td>4</td> <td>4</td> <td>333.005</td> <td>60963</td> </tr> <tr> <td>2</td> <td>MEDIUM(B)</td> <td>MRSLONG</td> <td></td> <td>FASTR1</td> <td>30</td> <td>1</td> <td>1</td> <td>Dither 1</td> <td>4</td> <td>4</td> <td>333.005</td> <td>60963</td> </tr> <tr> <td>2</td> <td>MEDIUM(B)</td> <td>MRSSHORT</td> <td></td> <td>FASTR1</td> <td>30</td> <td>1</td> <td>1</td> <td>Dither 1</td> <td>4</td> <td>4</td> <td>333.005</td> <td>60963</td> </tr> <tr> <td>3</td> <td></td> <td>IMAGER</td> <td>F560W</td> <td>FASTR1</td> <td>30</td> <td>1</td> <td>1</td> <td>Dither 1</td> <td>4</td> <td>4</td> <td>333.005</td> <td>60963</td> </tr> <tr> <td>3</td> <td>SHORT(A)</td> <td>MRSLONG</td> <td></td> <td>FASTR1</td> <td>30</td> <td>1</td> <td>1</td> <td>Dither 1</td> <td>4</td> <td>4</td> <td>333.005</td> <td>60963</td> </tr> <tr> <td>3</td> <td>SHORT(A)</td> <td>MRSSHORT</td> <td></td> <td>FASTR1</td> <td>30</td> <td>1</td> <td>1</td> <td>Dither 1</td> <td>4</td> <td>4</td> <td>333.005</td> <td>60963</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		IMAGER	F1130W	FASTR1	30	1	1	Dither 1	4	4	333.005	60963	1	LONG(C)	MRSLONG		FASTR1	30	1	1	Dither 1	4	4	333.005	60963	1	LONG(C)	MRSSHORT		FASTR1	30	1	1	Dither 1	4	4	333.005	60963	2		IMAGER	F770W	FASTR1	30	1	1	Dither 1	4	4	333.005	60963	2	MEDIUM(B)	MRSLONG		FASTR1	30	1	1	Dither 1	4	4	333.005	60963	2	MEDIUM(B)	MRSSHORT		FASTR1	30	1	1	Dither 1	4	4	333.005	60963	3		IMAGER	F560W	FASTR1	30	1	1	Dither 1	4	4	333.005	60963	3	SHORT(A)	MRSLONG		FASTR1	30	1	1	Dither 1	4	4	333.005	60963	3	SHORT(A)	MRSSHORT		FASTR1	30	1	1	Dither 1	4	4	333.005	60963
#	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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3		IMAGER	F560W	FASTR1	30	1	1	Dither 1	4	4	333.005	60963																																																																																																																																		
3	SHORT(A)	MRSLONG		FASTR1	30	1	1	Dither 1	4	4	333.005	60963																																																																																																																																		
3	SHORT(A)	MRSSHORT		FASTR1	30	1	1	Dither 1	4	4	333.005	60963																																																																																																																																		

Proposal 1701 - Observation 14 - Dissecting the Prototypical Starbursts NGC 253 and M 82 and Their Cool Galactic Winds

Special Requirements

Sequence Observations 1, 2, 11, 12, 13, 14, 15, Non-interruptible

Proposal 1701 - Observation 15 - Dissecting the Prototypical Starbursts NGC 253 and M 82 and Their Cool Galactic Winds

Wed Nov 06 21:00:14 GMT 2024

Observation	Proposal 1701, Observation 15: Background: MRS-SSCs-BACKGROUND												
	Diagnostic Status: Warning Observing Template: MIRI Medium Resolution Spectroscopy Background Observation For: [MRS-SSCs-EAST (Obs 11), MRS-SSCs-CENTER (Obs 12), MRS-SSCs-WEST (Obs 13), MRS-SSCs-SOUTHWEST (Obs 14)] Comments: background observation usable for MRS and for the imager, far away from the galaxy but within existing 8um IRAC image, no bright sources/emission												
Diagnostics	(Visit 15:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.												
Fixed Targets	#	Name	Target Coordinates		Targ. Coord. Corrections				Miscellaneous				
	(6)	NGC-253-BKGD	RA: 00 48 1.3315 (12.0055479d) Dec: -25 22 52.15 (-25.38115d) Equinox: J2000										
Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. Category=Calibration Description=[Telescope/sky background] Extended=NO													
Acquisition	#	Target											
	1	NONE											
Template	AcqFilter	Primary Channel			Simultaneous Imaging			Imager Subarray		Grating Wheel Direction			
		All MRS			YES			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		IMAGER	F1130W	FASTR1	30	1	1	Dither 1	4	4	333.005	
	1	LONG(C)	MRSLONG		FASTR1	30	1	1	Dither 1	4	4	333.005	
	1	LONG(C)	MRSSHORT		FASTR1	30	1	1	Dither 1	4	4	333.005	
	2		IMAGER	F770W	FASTR1	30	1	1	Dither 1	4	4	333.005	
	2	MEDIUM(B)	MRSLONG		FASTR1	30	1	1	Dither 1	4	4	333.005	
	2	MEDIUM(B)	MRSSHORT		FASTR1	30	1	1	Dither 1	4	4	333.005	
	3		IMAGER	F560W	FASTR1	30	1	1	Dither 1	4	4	333.005	
	3	SHORT(A)	MRSLONG		FASTR1	30	1	1	Dither 1	4	4	333.005	
	3	SHORT(A)	MRSSHORT		FASTR1	30	1	1	Dither 1	4	4	333.005	

Proposal 1701 - Observation 15 - Dissecting the Prototypical Starbursts NGC 253 and M 82 and Their Cool Galactic Winds

Special Requirements

Sequence Observations 1, 2, 11, 12, 13, 14, 15, Non-interruptible

Proposal 1701 - Observation 21 - Dissecting the Prototypical Starbursts NGC 253 and M 82 and Their Cool Galactic Winds

Wed Nov 06 21:00:14 GMT 2024

Observation	Proposal 1701, Observation 21: NGC253 NIRCam Wind Diagnostic Status: Warning Observing Template: NIRCam Imaging <i>Comments: full array imaging along the minor axis/outflow axis to measure PAH/H2 in the outflow</i>																																																	
Diagnostics	(NGC253 NIRCam Wind (Obs 21)) Warning (Form): This observation is split across multiple visits using multiple filters. Not selecting the sequence option may result in execution of the visits in a non-numerical order and is not recommended. (Visit 21:1) Warning (Form): Overheads are provisional until the Visit Planner has been run. (Visit 21:2) Warning (Form): Overheads are provisional until the Visit Planner has been run. (Visit 21:3) Warning (Form): Overheads are provisional until the Visit Planner has been run. (Visit 21:4) Warning (Form): Overheads are provisional until the Visit Planner has been run. (Visit 21:5) Warning (Form): Overheads are provisional until the Visit Planner has been run. (Visit 21:6) 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>(21)</td> <td>NGC-253-IM-CENTER</td> <td>RA: 00 47 33.1721 (11.8882171d) Dec: -25 17 16.56 (-25.28793d) Equinox: J2000</td> <td></td> <td></td> </tr> </tbody> </table> <i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> Category=Galaxy Description=[Disk galaxies, Starburst galaxies] Extended=YES										#	Name	Target Coordinates	Targ. Coord. Corrections	Miscellaneous	(21)	NGC-253-IM-CENTER	RA: 00 47 33.1721 (11.8882171d) Dec: -25 17 16.56 (-25.28793d) Equinox: J2000																																
#	Name	Target Coordinates	Targ. Coord. Corrections	Miscellaneous																																														
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2	F140M	F360M	MEDIUM8	4	1	12	12	4895.967	60962																																									
3	F164N+F150W2	F250M	MEDIUM8	4	1	12	12	4895.967	60962																																									
Special Requirements	Group Visits within 53.0 Days Aperture PA Range 35 to 65 Degrees (V3 35.07457694 to 65.07457694) Aperture PA Range 215 to 245 Degrees (V3 215.07457694 to 245.07457694) Visits Same PA																																																	

Proposal 1701 - Observation 53 - Dissecting the Prototypical Starbursts NGC 253 and M 82 and Their Cool Galactic Winds

Wed Nov 06 21:00:14 GMT 2024

Observation	Proposal 1701, Observation 53: NGC253 NIRCam Wind repeat obs 21 Diagnostic Status: Error Observing Template: NIRCam Imaging <i>Comments: full array imaging along the minor axis/outflow axis to measure PAH/H2 in the outflow</i>																																																	
Diagnostics	(NGC253 NIRCam Wind repeat obs 21 (Obs 53)) Error (Form): Permission has not been granted for this program to use Special Requirement 'Guide Star in Guider 1'. (NGC253 NIRCam Wind repeat obs 21 (Obs 53)) Warning (Form): This observation is split across multiple visits using multiple filters. Not selecting the sequence option may result in execution of the visits in a non-numerical order and is not recommended. (Visit 53:1) Warning (Form): Overheads are provisional until the Visit Planner has been run. (Visit 53:2) Warning (Form): Overheads are provisional until the Visit Planner has been run. (Visit 53:3) Warning (Form): Overheads are provisional until the Visit Planner has been run. (Visit 53:4) Warning (Form): Overheads are provisional until the Visit Planner has been run. (Visit 53:5) Warning (Form): Overheads are provisional until the Visit Planner has been run. (Visit 53:6) Warning (Form): Overheads are provisional until the Visit Planner has been run.																																																	
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2	F140M	F360M	MEDIUM8	4	1	12	12	4895.967	60962																																									
3	F164N+F150W2	F250M	MEDIUM8	4	1	12	12	4895.967	60962																																									

Proposal 1701 - Observation 53 - Dissecting the Prototypical Starbursts NGC 253 and M 82 and Their Cool Galactic Winds

Special Requirements

Group Visits within 53.0 Days
Aperture PA Range 35 to 43.5 Degrees (V3 35.07457694 to 43.57457694)
Aperture PA Range 215 to 230 Degrees (V3 215.07457694 to 230.07457694)
Visits Same PA
Guide Star in Guider 1

Proposal 1701 - Observation 55 - Dissecting the Prototypical Starbursts NGC 253 and M 82 and Their Cool Galactic Winds

Wed Nov 06 21:00:14 GMT 2024

Observation	<p>Proposal 1701, Observation 55: NGC253 NIRCam Wind repeat 53:5</p> <p>Diagnostic Status: Error</p> <p>Observing Template: NIRCam Imaging</p> <p><i>Comments: full array imaging along the minor axis/outflow axis to measure PAH/H2 in the outflow</i></p>									
Diagnostics	<p>(NGC253 NIRCam Wind repeat 53:5 (Obs 55)) Error (Form): Permission has not been granted for this program to use Special Requirement 'Guide Star in Guider 1'.</p> <p>(Visit 55:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.</p>									
Fixed Targets	#	Name	Target Coordinates		Targ. Coord. Corrections			Miscellaneous		
(21)	NGC-253-IM-CENTER	RA: 00 47 33.1721 (11.8882171d) Dec: -25 17 16.56 (-25.28793d) Equinox: J2000								
<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=[Disk galaxies, Starburst galaxies]</i></p> <p><i>Extended=YES</i></p>										
Template	Module		Subarray				Target Placement			
ALL		FULL				Module Gap				
Mosaic	Rows	Columns	Row Overlap %	Column Overlap %	Row shift (deg)	Column shift (deg)	Tile Order			
2	1	80.0	10.0	0.0	0.0	DEFAULT				
Dithers	#	Primary Dither Type		Primary Dithers		Subpixel Dither Type		Dither Size	Subpixel Positions	
1	NONE				SMALL-GRID-DITHER			3		
Spectral Elements	#	Short Filter	Long Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Dithers	Total Exposure Time	ETC Wkbk.Calc ID
1	F164N+F150W2	F250M	MEDIUM8	4	1	3	3	1223.992	60962	

Proposal 1701 - Observation 55 - Dissecting the Prototypical Starbursts NGC 253 and M 82 and Their Cool Galactic Winds

Special Requirements

Aperture PA Range 37.5 to 53.6 Degrees (V3 37.57457694 to 53.67457694)
Offset -23.89242302915229 arcsec, 0.0 arcsec
Guide Star in Guider 1

Proposal 1701 - Observation 56 - Dissecting the Prototypical Starbursts NGC 253 and M 82 and Their Cool Galactic Winds

Wed Nov 06 21:00:14 GMT 2024

Observation	Proposal 1701, Observation 56: NGC253 NIRCam Wind repeat 53:3 Diagnostic Status: Error Observing Template: NIRCam Imaging <i>Comments: full array imaging along the minor axis/outflow axis to measure PAH/H2 in the outflow</i>										
	(NGC253 NIRCam Wind repeat 53:3 (Obs 56)) Error (Form): Permission has not been granted for this program to use Special Requirement 'Guide Star in Guider 1'. (Visit 56:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.										
Diagnosics											
Fixed Targets	#	Name	Target Coordinates		Targ. Coord. Corrections			Miscellaneous			
	(21)	NGC-253-IM-CENTER	RA: 00 47 33.1721 (11.8882171d) Dec: -25 17 16.56 (-25.28793d) Equinox: J2000								
<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> Category=Galaxy Description=[Disk galaxies, Starburst galaxies] Extended=YES											
Template	Module		Subarray				Target Placement				
	ALL		FULL				Module Gap				
Mosaic	Rows	Columns	Row Overlap %	Column Overlap %	Row shift (deg)	Column shift (deg)	Tile Order				
	2	1	80.0	10.0	0.0	0.0	DEFAULT				
Dithers	#	Primary Dither Type	Primary Dithers		Subpixel Dither Type	Dither Size	Subpixel Positions				
	1	NONE			SMALL-GRID-DITHER		3				
Spectral Elements	#	Short Filter	Long Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Dithers	Total Exposure Time	ETC Wkbk.Calc ID	
	1	F140M	F360M	MEDIUM8	4	1	3	3	1223.992	60962	

Proposal 1701 - Observation 56 - Dissecting the Prototypical Starbursts NGC 253 and M 82 and Their Cool Galactic Winds

Special Requirements

Aperture PA Range 37.5 to 53.6 Degrees (V3 37.57457694 to 53.67457694)
Offset -23.89242302915229 arcsec, 0.0 arcsec
Guide Star in Guider 1

Proposal 1701 - Observation 57 - Dissecting the Prototypical Starbursts NGC 253 and M 82 and Their Cool Galactic Winds

Wed Nov 06 21:00:14 GMT 2024

Observation	<p>Proposal 1701, Observation 57: NGC253 NIRCam Wind 53:2 new PA</p> <p>Diagnostic Status: Error</p> <p>Observing Template: NIRCam Imaging</p> <p><i>Comments: full array imaging along the minor axis/outflow axis to measure PAH/H2 in the outflow</i></p>									
Diagnostics	<p>(NGC253 NIRCam Wind 53:2 new PA (Obs 57)) Error (Form): Permission has not been granted for this program to use Special Requirement 'Guide Star in Guider 1'.</p> <p>(Visit 57:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.</p>									
Fixed Targets	#	Name	Target Coordinates		Targ. Coord. Corrections			Miscellaneous		
(21)	NGC-253-IM-CENTER	RA: 00 47 33.1721 (11.8882171d)								
		Dec: -25 17 16.56 (-25.28793d)								
		Equinox: J2000								
	<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=[Disk galaxies, Starburst galaxies]</i></p> <p><i>Extended=YES</i></p>									
Template	Module		Subarray			Target Placement				
ALL		FULL			Module Gap					
Mosaic	Rows	Columns	Row Overlap %	Column Overlap %	Row shift (deg)	Column shift (deg)	Tile Order			
2	1	80.0	10.0	0.0	0.0	DEFAULT				
Dithers	#	Primary Dither Type	Primary Dithers		Subpixel Dither Type	Dither Size	Subpixel Positions			
1	NONE			SMALL-GRID-DITHER		3				
Spectral Elements	#	Short Filter	Long Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Dithers	Total Exposure Time	ETC Wkbk.Calc ID
1	F212N	F335M	MEDIUM8	4	1	3	3	1223.992	60962	

Proposal 1701 - Observation 57 - Dissecting the Prototypical Starbursts NGC 253 and M 82 and Their Cool Galactic Winds

Special Requirements

Aperture PA Range 37.5 to 53.6 Degrees (V3 37.57457694 to 53.67457694)
Offset 23.96424627302847 arcsec, 0.0 arcsec
Guide Star in Guider 1

Proposal 1701 - Observation 59 - Dissecting the Prototypical Starbursts NGC 253 and M 82 and Their Cool Galactic Winds

Wed Nov 06 21:00:14 GMT 2024

Observation	<p>Proposal 1701, Observation 59: NGC253 NIRCам Wind 53:2 new PA</p> <p>Diagnostic Status: Error</p> <p>Observing Template: NIRCам Imaging</p> <p><i>Comments: full array imaging along the minor axis/outflow axis to measure PAH/H2 in the outflow</i></p>									
Diagnostics	<p>(NGC253 NIRCам Wind 53:2 new PA (Obs 59)) Error (Form): Permission has not been granted for this program to use Special Requirement 'Guide Star in Guider 1'.</p> <p>(Visit 59:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.</p>									
Fixed Targets	#	Name	Target Coordinates		Targ. Coord. Corrections			Miscellaneous		
(21)	NGC-253-IM-CENTER	RA: 00 47 33.1721 (11.8882171d) Dec: -25 17 16.56 (-25.28793d) Equinox: J2000								
<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=[Disk galaxies, Starburst galaxies]</i></p> <p><i>Extended=YES</i></p>										
Template	Module		Subarray			Target Placement				
ALL		FULL			Module Gap					
Mosaic	Rows	Columns	Row Overlap %	Column Overlap %	Row shift (deg)	Column shift (deg)	Tile Order			
2	1	80.0	10.0	0.0	0.0	DEFAULT				
Dithers	#	Primary Dither Type	Primary Dithers		Subpixel Dither Type	Dither Size	Subpixel Positions			
1	NONE			SMALL-GRID-DITHER		3				
Spectral Elements	#	Short Filter	Long Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Dithers	Total Exposure Time	ETC Wkbk.Calc ID
1	F212N	F335M	MEDIUM8	4	1	3	3	1223.992	60962	

Proposal 1701 - Observation 59 - Dissecting the Prototypical Starbursts NGC 253 and M 82 and Their Cool Galactic Winds

Special Requirements

Aperture PA Range 48.52542306 to 48.52542306 Degrees (V3 48.6 to 48.6)
Offset 23.96424627302847 arcsec, 0.0 arcsec
Guide Star in Guider 1

Proposal 1701 - Observation 22 - Dissecting the Prototypical Starbursts NGC 253 and M 82 and Their Cool Galactic Winds

Wed Nov 06 21:00:14 GMT 2024

Observation	Proposal 1701, Observation 22: NGC253 NIRCam Center Diagnostic Status: Warning Observing Template: NIRCam Imaging <i>Comments: fast subarray imaging in the center of the starburst to prevent saturation effects</i>									
	(Visit 22:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.									
Diagnostics										
Fixed Targets	#	Name	Target Coordinates		Targ. Coord. Corrections			Miscellaneous		
	(21)	NGC-253-IM-CENTER	RA: 00 47 33.1721 (11.8882171d) Dec: -25 17 16.56 (-25.28793d) Equinox: J2000							
<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> Category=Galaxy Description=[Disk galaxies, Starburst galaxies] Extended=YES										
Template	Module					Subarray				
	B					SUB640				
Dithers	#	Primary Dither Type		Primary Dithers	Subpixel Dither Type		Dither Size	Subpixel Positions		
	1	INTRAMODULEBOX		4	SMALL-GRID-DITHER			4		
Spectral Elements	#	Short Filter	Long Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Dithers	Total Exposure Time	ETC Wkbk.Calc ID
	1	F212N	F335M	RAPID	6	1	16	16	469.142	60962
	2	F140M	F360M	RAPID	6	1	16	16	469.142	60962
	3	F164N+F150W2	F250M	RAPID	6	1	16	16	469.142	60962

Proposal 1701 - Observation 54 - Dissecting the Prototypical Starbursts NGC 253 and M 82 and Their Cool Galactic Winds

Wed Nov 06 21:00:14 GMT 2024

Observation	<p>Proposal 1701, Observation 54: NGC253 NIRCcam Center repeat obs 22</p> <p>Diagnostic Status: Error</p> <p>Observing Template: NIRCcam Imaging</p> <p><i>Comments: fast subarray imaging in the center of the starburst to prevent saturation effects</i></p>									
Diagnostics	<p>(NGC253 NIRCcam Center repeat obs 22 (Obs 54)) Error (Form): Permission has not been granted for this program to use Special Requirement 'Guide Star in Guider 1'.</p> <p>(Visit 54:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.</p>									
Fixed Targets	#	Name	Target Coordinates		Targ. Coord. Corrections			Miscellaneous		
	(21)	NGC-253-IM-CENTER	RA: 00 47 33.1721 (11.8882171d)							
			Dec: -25 17 16.56 (-25.28793d)							
			Equinox: J2000							
	<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=[Disk galaxies, Starburst galaxies]</i></p> <p><i>Extended=YES</i></p>									
Template	Module					Subarray				
	B					SUB640				
Dithers	#	Primary Dither Type		Primary Dithers	Subpixel Dither Type		Dither Size	Subpixel Positions		
	1	INTRAMODULEBOX		4	SMALL-GRID-DITHER			4		
Spectral Elements	#	Short Filter	Long Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Dithers	Total Exposure Time	ETC Wkbk.Calc ID
	1	F212N	F335M	RAPID	6	1	16	16	469.142	60962
	2	F140M	F360M	RAPID	6	1	16	16	469.142	60962
	3	F164N+F150W2	F250M	RAPID	6	1	16	16	469.142	60962
Special Requirements	<p>Aperture PA Range 147.5 to 244.0 Degrees (V3 147.48490479 to 243.98490479)</p> <p>Aperture PA Range 330.2 to 61.89 Degrees (V3 330.18490479 to 61.87490479)</p> <p>Guide Star in Guider 1</p>									

Proposal 1701 - Observation 31 - Dissecting the Prototypical Starbursts NGC 253 and M 82 and Their Cool Galactic Winds

Wed Nov 06 21:00:14 GMT 2024

Observation	Proposal 1701, Observation 31: Center M82 Diagnostic Status: Warning Observing Template: MIRI Imaging										
	(Visit 31:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.										
Fixed Targets	#	Name	Target Coordinates			Targ. Coord. Corrections		Miscellaneous			
	(7)	M-82-IM-CENTER	RA: 09 55 51.5949 (148.9649788d) Dec: +69 40 45.78 (69.67938d) Equinox: J2000								
<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> <i>Category=Galaxy</i> <i>Description=[Starburst galaxies]</i> <i>Extended=YES</i>											
Template	Subarray										
	SUB128										
Mosaic	Rows	Columns	Row Overlap %	Column Overlap %	Row shift (deg)	Column shift (deg)	Tile Order				
	2	2	20.0	20.0	0.0	0.0	DEFAULT				
Dithers	#	Dither Type	Starting Point	Number of Points	Points	Starting Set	Number of Sets	Optimized For	Direction	Pattern Size	
	1	4-Point-Sets				1	1	EXTENDED SOURCE	POSITIVE	DEFAULT	
Spectral Elements	#	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Exposures/Dith	Dither	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
	1	F560W	FASTR1	5	1	1	Dither 1	4	4	2.381	61060
	2	F770W	FASTR1	5	1	1	Dither 1	4	4	2.381	61060
	3	F1130W	FASTR1	5	1	1	Dither 1	4	4	2.381	61060

Proposal 1701 - Observation 31 - Dissecting the Prototypical Starbursts NGC 253 and M 82 and Their Cool Galactic Winds

Special Requirements

Sequence Observations 31, 32, 41, 42, 43, 44, 45, 46, 47, 48, Non-interruptible

Proposal 1701 - Observation 32 - Dissecting the Prototypical Starbursts NGC 253 and M 82 and Their Cool Galactic Winds

Wed Nov 06 21:00:14 GMT 2024

Observation	Proposal 1701, Observation 32: Outflow-Imaging M82 Diagnostic Status: Warning Observing Template: MIRI Imaging <i>Comments: There should be some optimization to the mosaic geometry once we know a bit better the PA for the observation</i>																																																					
Diagnostics	(Visit 32:1) Warning (Form): Overheads are provisional until the Visit Planner has been run. (Visit 32:2) Warning (Form): Overheads are provisional until the Visit Planner has been run. (Visit 32:3) Warning (Form): Overheads are provisional until the Visit Planner has been run. (Visit 32:4) 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 colspan="3">Targ. Coord. Corrections</th> <th colspan="4">Miscellaneous</th> </tr> </thead> <tbody> <tr> <td>(7)</td> <td>M-82-IM-CENTER</td> <td>RA: 09 55 51.5949 (148.9649788d) Dec: +69 40 45.78 (69.67938d) Equinox: J2000</td> <td colspan="3"></td> <td colspan="4"></td> </tr> <tr> <td colspan="10"> <i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> Category=Galaxy Description=[Starburst galaxies] Extended=YES </td> </tr> </tbody> </table>										#	Name	Target Coordinates	Targ. Coord. Corrections			Miscellaneous				(7)	M-82-IM-CENTER	RA: 09 55 51.5949 (148.9649788d) Dec: +69 40 45.78 (69.67938d) Equinox: J2000								<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> Category=Galaxy Description=[Starburst galaxies] Extended=YES																							
#	Name	Target Coordinates	Targ. Coord. Corrections			Miscellaneous																																																
(7)	M-82-IM-CENTER	RA: 09 55 51.5949 (148.9649788d) Dec: +69 40 45.78 (69.67938d) Equinox: J2000																																																				
<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> Category=Galaxy Description=[Starburst galaxies] Extended=YES																																																						
Template	Subarray FULL																																																					
Mosaic	<table border="1"> <thead> <tr> <th>Rows</th> <th>Columns</th> <th>Row Overlap %</th> <th>Column Overlap %</th> <th>Row shift (deg)</th> <th>Column shift (deg)</th> <th colspan="4">Tile Order</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>4</td> <td>10.0</td> <td>10.0</td> <td>0.0</td> <td>-20.0</td> <td colspan="4">DEFAULT</td> </tr> </tbody> </table>										Rows	Columns	Row Overlap %	Column Overlap %	Row shift (deg)	Column shift (deg)	Tile Order				1	4	10.0	10.0	0.0	-20.0	DEFAULT																											
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Dithers	<table border="1"> <thead> <tr> <th>#</th> <th>Dither Type</th> <th>Starting Point</th> <th>Number of Points</th> <th>Points</th> <th>Starting Set</th> <th>Number of Sets</th> <th>Optimized For</th> <th>Direction</th> <th>Pattern Size</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>CYCLING</td> <td>1</td> <td>4</td> <td></td> <td>5</td> <td>1</td> <td></td> <td></td> <td>DEFAULT</td> </tr> </tbody> </table>										#	Dither Type	Starting Point	Number of Points	Points	Starting Set	Number of Sets	Optimized For	Direction	Pattern Size	1	CYCLING	1	4		5	1			DEFAULT																								
#	Dither Type	Starting Point	Number of Points	Points	Starting Set	Number of Sets	Optimized For	Direction	Pattern Size																																													
1	CYCLING	1	4		5	1			DEFAULT																																													
Spectral Elements	<table border="1"> <thead> <tr> <th>#</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>F560W</td> <td>FASTR1</td> <td>30</td> <td>1</td> <td>1</td> <td>Dither 1</td> <td>4</td> <td>4</td> <td>333.005</td> <td>61060</td> </tr> <tr> <td>2</td> <td>F770W</td> <td>FASTR1</td> <td>30</td> <td>1</td> <td>1</td> <td>Dither 1</td> <td>4</td> <td>4</td> <td>333.005</td> <td>61060</td> </tr> <tr> <td>3</td> <td>F1130W</td> <td>FASTR1</td> <td>30</td> <td>1</td> <td>1</td> <td>Dither 1</td> <td>4</td> <td>4</td> <td>333.005</td> <td>61060</td> </tr> </tbody> </table>										#	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Exposures/Dith	Dither	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID	1	F560W	FASTR1	30	1	1	Dither 1	4	4	333.005	61060	2	F770W	FASTR1	30	1	1	Dither 1	4	4	333.005	61060	3	F1130W	FASTR1	30	1	1	Dither 1	4	4	333.005	61060
#	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Exposures/Dith	Dither	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID																																												
1	F560W	FASTR1	30	1	1	Dither 1	4	4	333.005	61060																																												
2	F770W	FASTR1	30	1	1	Dither 1	4	4	333.005	61060																																												
3	F1130W	FASTR1	30	1	1	Dither 1	4	4	333.005	61060																																												

Proposal 1701 - Observation 32 - Dissecting the Prototypical Starbursts NGC 253 and M 82 and Their Cool Galactic Winds

Special Requirements

Group Visits within 53.0 Days
Aperture PA Range 30 to 60 Degrees (V3 25.16455103 to 55.16455103)
Aperture PA Range 210 to 240 Degrees (V3 205.16455103 to 235.16455103)
Visits Same PA

Sequence Observations 31, 32, 41, 42, 43, 44, 45, 46, 47, 48, Non-interruptible

Proposal 1701 - Observation 41 - Dissecting the Prototypical Starbursts NGC 253 and M 82 and Their Cool Galactic Winds

Wed Nov 06 21:00:14 GMT 2024

Observation	Proposal 1701, Observation 41: MRS-SSCs-EAST Diagnostic Status: Warning Observing Template: MIRI Medium Resolution Spectroscopy Background Observations:[Background: MRS-SSCs-BACKGROUND (Obs 48)]												
	(Visit 41:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.												
Fixed Targets	#	Name	Target Coordinates		Targ. Coord. Corrections				Miscellaneous				
	(12)	M-82-MRS-EAST	RA: 09 55 53.7509 (148.9739621d) Dec: +69 40 49.48 (69.68041d) Equinox: J2000										
<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> Category=Galaxy Description=[Starburst galaxies] Extended=YES													
Acquisition	#	Target											
	1	NONE											
Template	AcqFilter	Primary Channel		Simultaneous Imaging		Imager Subarray		Grating Wheel Direction					
		All MRS		YES		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		IMAGER	F560W	FASTR1	30	1	1	Dither 1	4	4	333.005	61062
	1	SHORT(A)	MRSLONG		FASTR1	30	1	1	Dither 1	4	4	333.005	61062
	1	SHORT(A)	MRSSHORT		FASTR1	30	1	1	Dither 1	4	4	333.005	61062
	2		IMAGER	F770W	FASTR1	30	1	1	Dither 1	4	4	333.005	61062
	2	MEDIUM(B)	MRSLONG		FASTR1	30	1	1	Dither 1	4	4	333.005	61062
	2	MEDIUM(B)	MRSSHORT		FASTR1	30	1	1	Dither 1	4	4	333.005	61062
	3		IMAGER	F1130W	FASTR1	30	1	1	Dither 1	4	4	333.005	61062
	3	LONG(C)	MRSLONG		FASTR1	30	1	1	Dither 1	4	4	333.005	61062
	3	LONG(C)	MRSSHORT		FASTR1	30	1	1	Dither 1	4	4	333.005	61062

Proposal 1701 - Observation 41 - Dissecting the Prototypical Starbursts NGC 253 and M 82 and Their Cool Galactic Winds

Special Requirements

Sequence Observations 31, 32, 41, 42, 43, 44, 45, 46, 47, 48, Non-interruptible

Proposal 1701 - Observation 42 - Dissecting the Prototypical Starbursts NGC 253 and M 82 and Their Cool Galactic Winds

Wed Nov 06 21:00:14 GMT 2024

Observation	Proposal 1701, Observation 42: MRS-SSCs-far-EAST Diagnostic Status: Warning Observing Template: MIRI Medium Resolution Spectroscopy												
	(Visit 42:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.												
Diagnosics													
Fixed Targets	#	Name	Target Coordinates				Targ. Coord. Corrections			Miscellaneous			
	(26)	M-82-MRS-FAR-EAST	RA: 09 55 54.3272 (148.9763633d) Dec: +69 40 51.65 (69.68101d) Equinox: J2000										
<i>Comments:</i> Category=Galaxy Description=[Starburst galaxies] Extended=YES													
Acquisition	#	Target											
	1	NONE											
Template	AcqFilter	Primary Channel			Simultaneous Imaging			Imager Subarray		Grating Wheel Direction			
		All MRS			YES			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		IMAGER	F560W	FASTR1	30	1	1	Dither 1	4	4	333.005	61062
	1	SHORT(A)	MRSLONG		FASTR1	30	1	1	Dither 1	4	4	333.005	61062
	1	SHORT(A)	MRSSHORT		FASTR1	30	1	1	Dither 1	4	4	333.005	61062
	2		IMAGER	F770W	FASTR1	30	1	1	Dither 1	4	4	333.005	61062
	2	MEDIUM(B)	MRSLONG		FASTR1	30	1	1	Dither 1	4	4	333.005	61062
	2	MEDIUM(B)	MRSSHORT		FASTR1	30	1	1	Dither 1	4	4	333.005	61062
	3		IMAGER	F1130W	FASTR1	30	1	1	Dither 1	4	4	333.005	61062
	3	LONG(C)	MRSLONG		FASTR1	30	1	1	Dither 1	4	4	333.005	61062
	3	LONG(C)	MRSSHORT		FASTR1	30	1	1	Dither 1	4	4	333.005	61062

Proposal 1701 - Observation 42 - Dissecting the Prototypical Starbursts NGC 253 and M 82 and Their Cool Galactic Winds

Special Requirements

Sequence Observations 31, 32, 41, 42, 43, 44, 45, 46, 47, 48, Non-interruptible

Proposal 1701 - Observation 43 - Dissecting the Prototypical Starbursts NGC 253 and M 82 and Their Cool Galactic Winds

Wed Nov 06 21:00:14 GMT 2024

Observation	Proposal 1701, Observation 43: MRS-SSCs-CENTER-EAST Diagnostic Status: Warning Observing Template: MIRI Medium Resolution Spectroscopy Background Observations:[Background: MRS-SSCs-BACKGROUND (Obs 48)]												
	(Visit 43:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.												
Fixed Targets	#	Name	Target Coordinates		Targ. Coord. Corrections				Miscellaneous				
	(13)	M-82-MRS-CENTER-EAST	RA: 09 55 52.1463 (148.9672762d) Dec: +69 40 47.46 (69.67985d) Equinox: J2000										
<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> Category=Galaxy Description=[Starburst galaxies] Extended=YES													
Acquisition	#	Target											
	1	NONE											
Template	AcqFilter	Primary Channel		Simultaneous Imaging		Imager Subarray		Grating Wheel Direction					
		All MRS		YES		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		IMAGER	F560W	FASTR1	30	1	1	Dither 1	4	4	333.005	61062
	1	SHORT(A)	MRSLONG		FASTR1	30	1	1	Dither 1	4	4	333.005	61062
	1	SHORT(A)	MRSSSHORT		FASTR1	30	1	1	Dither 1	4	4	333.005	61062
	2		IMAGER	F770W	FASTR1	30	1	1	Dither 1	4	4	333.005	61062
	2	MEDIUM(B)	MRSLONG		FASTR1	30	1	1	Dither 1	4	4	333.005	61062
	2	MEDIUM(B)	MRSSSHORT		FASTR1	30	1	1	Dither 1	4	4	333.005	61062
	3		IMAGER	F1130W	FASTR1	30	1	1	Dither 1	4	4	333.005	61062
	3	LONG(C)	MRSLONG		FASTR1	30	1	1	Dither 1	4	4	333.005	61062
	3	LONG(C)	MRSSSHORT		FASTR1	30	1	1	Dither 1	4	4	333.005	61062

Proposal 1701 - Observation 43 - Dissecting the Prototypical Starbursts NGC 253 and M 82 and Their Cool Galactic Winds

Special Requirements

Sequence Observations 31, 32, 41, 42, 43, 44, 45, 46, 47, 48, Non-interruptible

Proposal 1701 - Observation 44 - Dissecting the Prototypical Starbursts NGC 253 and M 82 and Their Cool Galactic Winds

Wed Nov 06 21:00:14 GMT 2024

Observation	Proposal 1701, Observation 44: MRS-SSCs-WEST Diagnostic Status: Warning Observing Template: MIRI Medium Resolution Spectroscopy Background Observations:[Background: MRS-SSCs-BACKGROUND (Obs 48)]												
	(Visit 44:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.												
Fixed Targets	#	Name	Target Coordinates		Targ. Coord. Corrections				Miscellaneous				
	(14)	M-82-MRS-WEST	RA: 09 55 49.9046 (148.9579358d) Dec: +69 40 42.48 (69.67847d) Equinox: J2000										
Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. Category=Galaxy Description=[Starburst galaxies] Extended=YES													
Acquisition	#	Target											
	1	NONE											
Template	AcqFilter	Primary Channel		Simultaneous Imaging		Imager Subarray		Grating Wheel Direction					
		All MRS		YES		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		IMAGER	F560W	FASTR1	30	1	1	Dither 1	4	4	333.005	61062
	1	SHORT(A)	MRSLONG		FASTR1	30	1	1	Dither 1	4	4	333.005	61062
	1	SHORT(A)	MRSSHORT		FASTR1	30	1	1	Dither 1	4	4	333.005	61062
	2		IMAGER	F770W	FASTR1	30	1	1	Dither 1	4	4	333.005	61062
	2	MEDIUM(B)	MRSLONG		FASTR1	30	1	1	Dither 1	4	4	333.005	61062
	2	MEDIUM(B)	MRSSHORT		FASTR1	30	1	1	Dither 1	4	4	333.005	61062
	3		IMAGER	F1130W	FASTR1	30	1	1	Dither 1	4	4	333.005	61062
	3	LONG(C)	MRSLONG		FASTR1	30	1	1	Dither 1	4	4	333.005	61062
	3	LONG(C)	MRSSHORT		FASTR1	30	1	1	Dither 1	4	4	333.005	61062

Proposal 1701 - Observation 44 - Dissecting the Prototypical Starbursts NGC 253 and M 82 and Their Cool Galactic Winds

Special Requirements

Offset -0.09996276059444098 arcsec, 0.7500000653957649 arcsec

Sequence Observations 31, 32, 41, 42, 43, 44, 45, 46, 47, 48, Non-interruptible

Proposal 1701 - Observation 45 - Dissecting the Prototypical Starbursts NGC 253 and M 82 and Their Cool Galactic Winds

Wed Nov 06 21:00:14 GMT 2024

Observation	Proposal 1701, Observation 45: MRS-SSCs-CENTER-WEST Diagnostic Status: Warning Observing Template: MIRI Medium Resolution Spectroscopy Background Observations:[Background: MRS-SSCs-BACKGROUND (Obs 48)]												
	(Visit 45:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.												
Fixed Targets	#	Name	Target Coordinates		Targ. Coord. Corrections				Miscellaneous				
	(15)	M-82-MRS-CENTER-WEST	RA: 09 55 50.4903 (148.9603762d) Dec: +69 40 43.87 (69.67885d) Equinox: J2000										
Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. Category=Galaxy Description=[Starburst galaxies] Extended=YES													
Acquisition	#	Target											
	1	NONE											
Template	AcqFilter	Primary Channel		Simultaneous Imaging		Imager Subarray		Grating Wheel Direction					
		All MRS		YES		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		IMAGER	F560W	FASTR1	30	1	1	Dither 1	4	4	333.005	61062
	1	SHORT(A)	MRSLONG		FASTR1	30	1	1	Dither 1	4	4	333.005	61062
	1	SHORT(A)	MRSSHORT		FASTR1	30	1	1	Dither 1	4	4	333.005	61062
	2		IMAGER	F770W	FASTR1	30	1	1	Dither 1	4	4	333.005	61062
	2	MEDIUM(B)	MRSLONG		FASTR1	30	1	1	Dither 1	4	4	333.005	61062
	2	MEDIUM(B)	MRSSHORT		FASTR1	30	1	1	Dither 1	4	4	333.005	61062
	3		IMAGER	F1130W	FASTR1	30	1	1	Dither 1	4	4	333.005	61062
	3	LONG(C)	MRSLONG		FASTR1	30	1	1	Dither 1	4	4	333.005	61062
	3	LONG(C)	MRSSHORT		FASTR1	30	1	1	Dither 1	4	4	333.005	61062

Proposal 1701 - Observation 45 - Dissecting the Prototypical Starbursts NGC 253 and M 82 and Their Cool Galactic Winds

Special Requirements

Offset -0.0999604834511678 arcsec, 1.1500000653514153 arcsec

Sequence Observations 31, 32, 41, 42, 43, 44, 45, 46, 47, 48, Non-interruptible

Proposal 1701 - Observation 46 - Dissecting the Prototypical Starbursts NGC 253 and M 82 and Their Cool Galactic Winds

Wed Nov 06 21:00:14 GMT 2024

Observation	Proposal 1701, Observation 46: MRS-SSCs-CENTER-NORTH Diagnostic Status: Warning Observing Template: MIRI Medium Resolution Spectroscopy Background Observations:[Background: MRS-SSCs-BACKGROUND (Obs 48)]												
	(Visit 46:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.												
Diagnosics													
Fixed Targets	#	Name	Target Coordinates		Targ. Coord. Corrections				Miscellaneous				
	(16)	M-82-MRS-CENTER-NORTH	RA: 09 55 51.3064 (148.9637767d) Dec: +69 40 45.97 (69.67944d) Equinox: J2000										
<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> Category=Galaxy Description=[Starburst galaxies] Extended=YES													
Acquisition	#	Target											
	1	NONE											
Template	AcqFilter	Primary Channel		Simultaneous Imaging		Imager Subarray		Grating Wheel Direction					
		All MRS		YES		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		IMAGER	F560W	FASTR1	30	1	1	Dither 1	4	4	333.005	61062
	1	SHORT(A)	MRSLONG		FASTR1	30	1	1	Dither 1	4	4	333.005	61062
	1	SHORT(A)	MRSSSHORT		FASTR1	30	1	1	Dither 1	4	4	333.005	61062
	2		IMAGER	F770W	FASTR1	30	1	1	Dither 1	4	4	333.005	61062
	2	MEDIUM(B)	MRSLONG		FASTR1	30	1	1	Dither 1	4	4	333.005	61062
	2	MEDIUM(B)	MRSSSHORT		FASTR1	30	1	1	Dither 1	4	4	333.005	61062
	3		IMAGER	F1130W	FASTR1	30	1	1	Dither 1	4	4	333.005	61062
	3	LONG(C)	MRSLONG		FASTR1	30	1	1	Dither 1	4	4	333.005	61062
	3	LONG(C)	MRSSSHORT		FASTR1	30	1	1	Dither 1	4	4	333.005	61062

Proposal 1701 - Observation 46 - Dissecting the Prototypical Starbursts NGC 253 and M 82 and Their Cool Galactic Winds

Special Requirements

Sequence Observations 31, 32, 41, 42, 43, 44, 45, 46, 47, 48, Non-interruptible

Proposal 1701 - Observation 47 - Dissecting the Prototypical Starbursts NGC 253 and M 82 and Their Cool Galactic Winds

Wed Nov 06 21:00:14 GMT 2024

Observation	Proposal 1701, Observation 47: MRS-SSCs-CENTER-SOUTH Diagnostic Status: Warning Observing Template: MIRI Medium Resolution Spectroscopy Background Observations:[Background: MRS-SSCs-BACKGROUND (Obs 48)]																																																																																																																																													
	(Visit 47:1) 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>(17)</td> <td>M-82-MRS-CENTER-SOUTH</td> <td>RA: 09 55 52.9583 (148.9706596d) Dec: +69 40 48.22 (69.68006d) Equinox: J2000</td> <td></td> <td></td> </tr> </tbody> </table> <p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> Category=Galaxy Description=[Starburst galaxies] Extended=YES</p>												#	Name	Target Coordinates	Targ. Coord. Corrections	Miscellaneous	(17)	M-82-MRS-CENTER-SOUTH	RA: 09 55 52.9583 (148.9706596d) Dec: +69 40 48.22 (69.68006d) Equinox: J2000																																																																																																																										
	#	Name	Target Coordinates	Targ. Coord. Corrections	Miscellaneous																																																																																																																																									
(17)	M-82-MRS-CENTER-SOUTH	RA: 09 55 52.9583 (148.9706596d) Dec: +69 40 48.22 (69.68006d) Equinox: J2000																																																																																																																																												
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1	NONE																																																																																																																																													
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>YES</td> <td>FULL</td> <td>Allow Auto Reorder</td> </tr> </tbody> </table>												AcqFilter	Primary Channel	Simultaneous Imaging	Imager Subarray	Grating Wheel Direction		All MRS	YES	FULL	Allow Auto Reorder																																																																																																																								
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Dithers	<table border="1"> <thead> <tr> <th>#</th> <th>Dither Type</th> <th>Optimized For</th> <th>Direction</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>4-Point</td> <td>EXTENDED SOURCE</td> <td>NEGATIVE</td> </tr> </tbody> </table>												#	Dither Type	Optimized For	Direction	1	4-Point	EXTENDED SOURCE	NEGATIVE																																																																																																																										
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Spectral Elements	<table border="1"> <thead> <tr> <th>#</th> <th>Wavelength Range</th> <th>Detector</th> <th>Filter</th> <th>Readout Pattern</th> <th>Groups/Int</th> <th>Integrations/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></td> <td>IMAGER</td> <td>F560W</td> <td>FASTR1</td> <td>30</td> <td>1</td> <td>1</td> <td>Dither 1</td> <td>4</td> <td>4</td> <td>333.005</td> <td>61062</td> </tr> <tr> <td>1</td> <td>SHORT(A)</td> <td>MRSLONG</td> <td></td> <td>FASTR1</td> <td>30</td> <td>1</td> <td>1</td> <td>Dither 1</td> <td>4</td> <td>4</td> <td>333.005</td> <td>61062</td> </tr> <tr> <td>1</td> <td>SHORT(A)</td> <td>MRSSHORT</td> <td></td> <td>FASTR1</td> <td>30</td> <td>1</td> <td>1</td> <td>Dither 1</td> <td>4</td> <td>4</td> <td>333.005</td> <td>61062</td> </tr> <tr> <td>2</td> <td></td> <td>IMAGER</td> <td>F770W</td> <td>FASTR1</td> <td>30</td> <td>1</td> <td>1</td> <td>Dither 1</td> <td>4</td> <td>4</td> <td>333.005</td> <td>61062</td> </tr> <tr> <td>2</td> <td>MEDIUM(B)</td> <td>MRSLONG</td> <td></td> <td>FASTR1</td> <td>30</td> <td>1</td> <td>1</td> <td>Dither 1</td> <td>4</td> <td>4</td> <td>333.005</td> <td>61062</td> </tr> <tr> <td>2</td> <td>MEDIUM(B)</td> <td>MRSSHORT</td> <td></td> <td>FASTR1</td> <td>30</td> <td>1</td> <td>1</td> <td>Dither 1</td> <td>4</td> <td>4</td> <td>333.005</td> <td>61062</td> </tr> <tr> <td>3</td> <td></td> <td>IMAGER</td> <td>F1130W</td> <td>FASTR1</td> <td>30</td> <td>1</td> <td>1</td> <td>Dither 1</td> <td>4</td> <td>4</td> <td>333.005</td> <td>61062</td> </tr> <tr> <td>3</td> <td>LONG(C)</td> <td>MRSLONG</td> <td></td> <td>FASTR1</td> <td>30</td> <td>1</td> <td>1</td> <td>Dither 1</td> <td>4</td> <td>4</td> <td>333.005</td> <td>61062</td> </tr> <tr> <td>3</td> <td>LONG(C)</td> <td>MRSSHORT</td> <td></td> <td>FASTR1</td> <td>30</td> <td>1</td> <td>1</td> <td>Dither 1</td> <td>4</td> <td>4</td> <td>333.005</td> <td>61062</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		IMAGER	F560W	FASTR1	30	1	1	Dither 1	4	4	333.005	61062	1	SHORT(A)	MRSLONG		FASTR1	30	1	1	Dither 1	4	4	333.005	61062	1	SHORT(A)	MRSSHORT		FASTR1	30	1	1	Dither 1	4	4	333.005	61062	2		IMAGER	F770W	FASTR1	30	1	1	Dither 1	4	4	333.005	61062	2	MEDIUM(B)	MRSLONG		FASTR1	30	1	1	Dither 1	4	4	333.005	61062	2	MEDIUM(B)	MRSSHORT		FASTR1	30	1	1	Dither 1	4	4	333.005	61062	3		IMAGER	F1130W	FASTR1	30	1	1	Dither 1	4	4	333.005	61062	3	LONG(C)	MRSLONG		FASTR1	30	1	1	Dither 1	4	4	333.005	61062	3	LONG(C)	MRSSHORT		FASTR1	30	1	1	Dither 1	4	4	333.005	61062
	#	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	30	1	1	Dither 1	4	4	333.005	61062																																																																																																																																	
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	1	SHORT(A)	MRSSHORT		FASTR1	30	1	1	Dither 1	4	4	333.005	61062																																																																																																																																	
	2		IMAGER	F770W	FASTR1	30	1	1	Dither 1	4	4	333.005	61062																																																																																																																																	
	2	MEDIUM(B)	MRSLONG		FASTR1	30	1	1	Dither 1	4	4	333.005	61062																																																																																																																																	
	2	MEDIUM(B)	MRSSHORT		FASTR1	30	1	1	Dither 1	4	4	333.005	61062																																																																																																																																	
	3		IMAGER	F1130W	FASTR1	30	1	1	Dither 1	4	4	333.005	61062																																																																																																																																	
	3	LONG(C)	MRSLONG		FASTR1	30	1	1	Dither 1	4	4	333.005	61062																																																																																																																																	
3	LONG(C)	MRSSHORT		FASTR1	30	1	1	Dither 1	4	4	333.005	61062																																																																																																																																		

Proposal 1701 - Observation 47 - Dissecting the Prototypical Starbursts NGC 253 and M 82 and Their Cool Galactic Winds

Special Requirements

Sequence Observations 31, 32, 41, 42, 43, 44, 45, 46, 47, 48, Non-interruptible

Proposal 1701 - Observation 48 - Dissecting the Prototypical Starbursts NGC 253 and M 82 and Their Cool Galactic Winds

Wed Nov 06 21:00:14 GMT 2024

Observation	Proposal 1701, Observation 48: Background: MRS-SSCs-BACKGROUND Diagnostic Status: Warning Observing Template: MIRI Medium Resolution Spectroscopy Background Observation For: [MRS-SSCs-EAST (Obs 41), MRS-SSCs-CENTER-EAST (Obs 43), MRS-SSCs-WEST (Obs 44), MRS-SSCs-CENTER-WEST (Obs 45), MRS-SSCs-CENTER-NORTH (Obs 46), MRS-SSCs-CENTER-SOUTH (Obs 47)]												
	(Visit 48:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.												
Fixed Targets	#	Name	Target Coordinates		Targ. Coord. Corrections				Miscellaneous				
	(18)	M-82-BKGD	RA: 09 50 43.0000 (147.6791667d) Dec: +69 49 50.00 (69.83056d) Equinox: J2000										
Comments: Empty region selected based on WISE W4/W3 images and HI observations Category=Galaxy Description=[Starburst galaxies] Extended=NO													
Acquisition	#	Target											
	1	NONE											
Template	AcqFilter	Primary Channel		Simultaneous Imaging		Imager Subarray		Grating Wheel Direction					
		All MRS		YES		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		IMAGER	F560W	FASTR1	30	1	1	Dither 1	4	4	333.005	
	1	SHORT(A)	MRSLONG		FASTR1	30	1	1	Dither 1	4	4	333.005	
	1	SHORT(A)	MRSSHORT		FASTR1	30	1	1	Dither 1	4	4	333.005	
	2		IMAGER	F770W	FASTR1	30	1	1	Dither 1	4	4	333.005	
	2	MEDIUM(B)	MRSLONG		FASTR1	30	1	1	Dither 1	4	4	333.005	
	2	MEDIUM(B)	MRSSHORT		FASTR1	30	1	1	Dither 1	4	4	333.005	
	3		IMAGER	F1130W	FASTR1	30	1	1	Dither 1	4	4	333.005	
	3	LONG(C)	MRSLONG		FASTR1	30	1	1	Dither 1	4	4	333.005	
	3	LONG(C)	MRSSHORT		FASTR1	30	1	1	Dither 1	4	4	333.005	

Proposal 1701 - Observation 48 - Dissecting the Prototypical Starbursts NGC 253 and M 82 and Their Cool Galactic Winds

Special Requirements

Sequence Observations 31, 32, 41, 42, 43, 44, 45, 46, 47, 48, Non-interruptible

Proposal 1701 - Observation 58 - Dissecting the Prototypical Starbursts NGC 253 and M 82 and Their Cool Galactic Winds

Wed Nov 06 21:00:14 GMT 2024

Observation	Proposal 1701, Observation 58: Background: MRS-SSCs-BACKGROUND Diagnostic Status: Warning Observing Template: MIRI Medium Resolution Spectroscopy Background Observation For: []												
	(Visit 58:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.												
Fixed Targets	#	Name	Target Coordinates		Targ. Coord. Corrections				Miscellaneous				
	(18)	M-82-BKGD	RA: 09 50 43.0000 (147.6791667d) Dec: +69 49 50.00 (69.83056d) Equinox: J2000										
Comments: Empty region selected based on WISE W4/W3 images and HI observations Category=Galaxy Description=[Starburst galaxies] Extended=NO													
Acquisition	#	Target											
	1	NONE											
Template	AcqFilter	Primary Channel		Simultaneous Imaging		Imager Subarray		Grating Wheel Direction					
		All MRS		YES		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		IMAGER	F1130W	FASTR1	30	1	1	Dither 1	4	4	333.005	
	1	LONG(C)	MRSLONG		FASTR1	30	1	1	Dither 1	4	4	333.005	
	1	LONG(C)	MRSSHORT		FASTR1	30	1	1	Dither 1	4	4	333.005	
	2		IMAGER	F770W	FASTR1	30	1	1	Dither 1	4	4	333.005	
	2	MEDIUM(B)	MRSLONG		FASTR1	30	1	1	Dither 1	4	4	333.005	
	2	MEDIUM(B)	MRSSHORT		FASTR1	30	1	1	Dither 1	4	4	333.005	
	3		IMAGER	F560W	FASTR1	30	1	1	Dither 1	4	4	333.005	
	3	SHORT(A)	MRSLONG		FASTR1	30	1	1	Dither 1	4	4	333.005	
	3	SHORT(A)	MRSSHORT		FASTR1	30	1	1	Dither 1	4	4	333.005	

Proposal 1701 - Observation 51 - Dissecting the Prototypical Starbursts NGC 253 and M 82 and Their Cool Galactic Winds

Wed Nov 06 21:00:14 GMT 2024

Observation	Proposal 1701, Observation 51: M82 NIRCcam Wind Diagnostic Status: Error Observing Template: NIRCcam Imaging <i>Comments: Specifying guide star in guider 1 to avoid possible failure to acquire guide star with FGS2 which is on M82 disk</i>																																																	
	(M82 NIRCcam Wind (Obs 51)) Error (Form): Permission has not been granted for this program to use Special Requirement 'Guide Star in Guider 1'. (M82 NIRCcam Wind (Obs 51)) Warning (Form): This observation is split across multiple visits using multiple filters. Not selecting the sequence option may result in execution of the visits in a non-numerical order and is not recommended. (Visit 51:1) Warning (Form): Overheads are provisional until the Visit Planner has been run. (Visit 51:2) Warning (Form): Overheads are provisional until the Visit Planner has been run. (Visit 51:3) Warning (Form): Overheads are provisional until the Visit Planner has been run. (Visit 51:4) Warning (Form): Overheads are provisional until the Visit Planner has been run. (Visit 51:5) Warning (Form): Overheads are provisional until the Visit Planner has been run. (Visit 51:6) Warning (Form): Overheads are provisional until the Visit Planner has been run.																																																	
Diagnostics																																																		
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>M-82-IM-CENTER</td> <td>RA: 09 55 51.5949 (148.9649788d) Dec: +69 40 45.78 (69.67938d) Equinox: J2000</td> <td></td> <td></td> </tr> </tbody> </table>										#	Name	Target Coordinates	Targ. Coord. Corrections	Miscellaneous	(7)	M-82-IM-CENTER	RA: 09 55 51.5949 (148.9649788d) Dec: +69 40 45.78 (69.67938d) Equinox: J2000																																
	#	Name	Target Coordinates	Targ. Coord. Corrections	Miscellaneous																																													
(7)	M-82-IM-CENTER	RA: 09 55 51.5949 (148.9649788d) Dec: +69 40 45.78 (69.67938d) Equinox: J2000																																																
<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> Category=Galaxy Description=[Starburst galaxies] Extended=YES																																																		
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Proposal 1701 - Observation 51 - Dissecting the Prototypical Starbursts NGC 253 and M 82 and Their Cool Galactic Winds

Special Requirements

Group Visits within 53.0 Days
Aperture PA Range 45 to 85 Degrees (V3 45.07457694 to 85.07457694)
Aperture PA Range 225 to 265 Degrees (V3 225.07457694 to 265.07457694)
Visits Same PA
Guide Star in Guider 1

Proposal 1701 - Observation 52 - Dissecting the Prototypical Starbursts NGC 253 and M 82 and Their Cool Galactic Winds

Wed Nov 06 21:00:14 GMT 2024

Observation	Proposal 1701, Observation 52: M82 NIRCcam Center Diagnostic Status: Warning Observing Template: NIRCcam Imaging									
Diagnostics	(Visit 52:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.									
Fixed Targets	#	Name	Target Coordinates		Targ. Coord. Corrections			Miscellaneous		
	(7)	M-82-IM-CENTER	RA: 09 55 51.5949 (148.9649788d) Dec: +69 40 45.78 (69.67938d) Equinox: J2000							
	<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> Category=Galaxy Description=[Starburst galaxies] Extended=YES									
Template	Module				Subarray					
	B				SUB640					
Dithers	#	Primary Dither Type		Primary Dithers	Subpixel Dither Type		Dither Size	Subpixel Positions		
	1	INTRAMODULEBOX		4	SMALL-GRID-DITHER			4		
Spectral Elements	#	Short Filter	Long Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Dithers	Total Exposure Time	ETC Wkbk.Calc ID
	1	F212N	F335M	RAPID	6	1	16	16	469.142	61061
	2	F140M	F360M	RAPID	6	1	16	16	469.142	61061
	3	F164N+F150W2	F250M	RAPID	6	1	16	16	469.142	61061