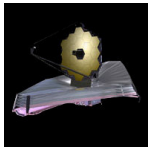

4532 - Spectroscopy of SBS0335-052

Cycle: 3, Proposal Category: GTO

INVESTIGATORS

Name	*Institution*
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OBSERVATIONS

Folder	*Observation*	*Label*	*Observing Template*	*Science Target*
Observation Folder				
	1	MRS-target	MIRI Medium Resolution Spectroscopy	(4) SBS-0335-052-MIRI
	2	MRS-sky	MIRI Medium Resolution Spectroscopy	(3) SBS-0335-052-MIRI-sky
	3	NIRSPec IFU	NIRSpec IFU Spectroscopy	(5) SBS-0335-052-NIRSPEC

ABSTRACT

We will obtain MIRI/MRS and NIRSpec/IFU spectroscopy from ~1 to ~25 microns of the local very metal-poor starburst galaxy SBS0335-052 to characterise the ISM properties and look for signatures of a massive black hole or hidden AGN.

OBSERVING DESCRIPTION

A 4 point dither is used for MIRI/MRS observations of the primary target, to obtain identical exposures in all 3 settings (A, B and C) . Simulatneous imaging in F770W will be obtained to improve astrometry as recommended.

A 2-point dither with otherwise identical exposure parameters is used for obtaining a background estimate. Depednding on the actual time of

observation (setting the instrument PA angle) the coordinates of the sky target will be fine-tuned so that the primary target (and its companion if feasable) is obtained in the simultaneous imaging, which will use filters F560W, F770W and F1280W.

The NIRSPEC/IFU spectroscopy will be obtained in the G140H/F100LP, G237H/F170LP, G395H/F290LP configurations, all with a 4 point dither

All the observations are to be obtained in a non-interuptable sequence.

Proposal 4532 - Targets - Spectroscopy of SBS0335-052

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Miscellaneous
(3)	SBS-0335-052-MIRI-sky	RA: 03 37 39.2000 (54.4133333d) Dec: -05 03 31.00 (-5.05861d) Equinox: J2000		
Comments: This object was generated by the targetselector and retrieved from the NED database. *Category=Unidentified* *Description=[Blank field]*				
(4)	SBS-0335-052-MIRI	RA: 03 37 43.9800 (54.4332500d) Dec: -05 02 38.70 (-5.04408d) Equinox: J2000		
Comments: This object was generated by the targetselector and retrieved from the NED database. *Category=Galaxy* *Description=[Dwarf galaxies, Emission line galaxies]* *Extended=YES*				
(5)	SBS-0335-052-NIRSPEC	RA: 03 37 43.9800 (54.4332500d) Dec: -05 02 38.70 (-5.04408d) Equinox: J2000		
Comments: This object was generated by the targetselector and retrieved from the NED database. *Category=Galaxy* *Description=[Dwarf galaxies, Emission line galaxies]* *Extended=YES*				

Observation

Proposal 4532, Observation 1: MRS-target Mon Jun 24 13:00:22 GMT 2024

Diagnostic Status: Warning

Observing Template: MIRI Medium Resolution Spectroscopy

Background Observations:[MRS-sky (Obs 2)]

Diagnostics

(MRS-target (Obs 1)) Warning (Form): Filter mismatch between science and background observations may result in incorrect background subtraction.

(Visit 1:1) Warning (Form): Data Excess over lower threshold

(Visit 1:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.

(MRS-target (Obs 1)) Informational (Form): The Visit Planner and Spike may produce different schedulability results.

(Visit 1:1) Informational (Form): Visit schedulable, but most scheduling windows are when JWST is pointed in direction of greatest micrometeoroid impact risk. This is likely due to scheduling special requirements.

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Miscellaneous
(4)	SBS-0335-052-MIRI	RA: 03 37 43.9800 (54.4332500d) Dec: -05 02 38.70 (-5.04408d) Equinox: J2000		

Comments: This object was generated by the targetselector and retrieved from the NED database.
Category=Galaxy
Description=[Dwarf galaxies, Emission line galaxies]
Extended=YES

Acquisition

#	Target
1	NONE

Template

AcqFilter	Primary Channel	Simultaneous Imaging	Imager Subarray	Grating Wheel Direction
F560W	All MRS	YES	FULL	NEUTRAL

Dithers

#	Dither Type	Optimized For	Direction
1	4-Point	EXTENDED SOURCE	NEGATIVE

Spectral Elements

#	Wavelength Range	Detector	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Exposures/Dith	Dither	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
1		IMAGER	F770W	FASTR1	90	2	1	Dither 1	4	8	2009.129	
1	SHORT(A)	MRSLONG		FASTR1	90	2	1	Dither 1	4	8	2009.129	
1	SHORT(A)	MRSSHORT		FASTR1	90	2	1	Dither 1	4	8	2009.129	
2		IMAGER	F770W	FASTR1	30	1	1	Dither 1	4	4	333.005	
2	MEDIUM(B)	MRSLONG		FASTR1	90	2	1	Dither 1	4	8	2009.129	
2	MEDIUM(B)	MRSSHORT		FASTR1	90	2	1	Dither 1	4	8	2009.129	
3		IMAGER	F770W	FASTR1	30	1	1	Dither 1	4	4	333.005	
3	LONG(C)	MRSLONG		FASTR1	90	2	1	Dither 1	4	8	2009.129	
3	LONG(C)	MRSSHORT		FASTR1	90	2	1	Dither 1	4	8	2009.129	

Special Requirements	
	Aperture PA Range 251.0 to 286.0 Degrees (V3 251.0 to 286.0) Sequence Observations 1, 2, 3, Non-interruptible Same Aperture PA 1, 2

Observation

Proposal 4532, Observation 2: MRS-sky Mon Jun 24 13:00:22 GMT 2024

Diagnostic Status: Warning

Observing Template: MIRI Medium Resolution Spectroscopy

Background Observation For: [MRS-target (Obs 1)]

Diagnostics

(MRS-sky (Obs 2)) Warning (Form): Imager Filter overlap.

(Visit 2:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.

(MRS-sky (Obs 2)) Informational (Form): The Visit Planner and Spike may produce different schedulability results.

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Miscellaneous
(3)	SBS-0335-052-MIRI-sky	RA: 03 37 39.2000 (54.4133333d) Dec: -05 03 31.00 (-5.05861d) Equinox: J2000		

Comments: This object was generated by the targetselector and retrieved from the NED database.
Category=Unidentified
Description=[Blank field]

Acquisition

#	Target
1	NONE

Template

AcqFilter	Primary Channel	Simultaneous Imaging	Imager Subarray	Grating Wheel Direction
F560W	All MRS	YES	FULL	NEUTRAL

Dithers

#	Dither Type	Optimized For	Direction
1	2-Point	BACKGROUND	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	F770W	FASTR1	90	2	1	Dither 1	2	4	1004.564	
1	LONG(C)	MRSLONG		FASTR1	90	2	1	Dither 1	2	4	1004.564	
1	LONG(C)	MRSSHORT		FASTR1	90	2	1	Dither 1	2	4	1004.564	
2		IMAGER	F560W	FASTR1	90	2	1	Dither 1	2	4	1004.564	
2	MEDIUM(B)	MRSLONG		FASTR1	90	2	1	Dither 1	2	4	1004.564	
2	MEDIUM(B)	MRSSHORT		FASTR1	90	2	1	Dither 1	2	4	1004.564	
3		IMAGER	F1280W	FASTR1	90	2	1	Dither 1	2	4	1004.564	
3	SHORT(A)	MRSLONG		FASTR1	90	2	1	Dither 1	2	4	1004.564	
3	SHORT(A)	MRSSHORT		FASTR1	90	2	1	Dither 1	2	4	1004.564	

Special Requirements	
	Sequence Observations 1, 2, 3, Non-interruptible Same Aperture PA 1, 2

Observation

Proposal 4532, Observation 3: NIRSPec IFU Mon Jun 24 13:00:22 GMT 2024

Diagnostic Status: Warning

Observing Template: NIRSpec IFU Spectroscopy

Diagnostics

(Visit 3:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Miscellaneous
(5)	SBS-0335-052-NIRSPEC	RA: 03 37 43.9800 (54.4332500d) Dec: -05 02 38.70 (-5.04408d) Equinox: J2000		

Comments: This object was generated by the targetselector and retrieved from the NED database.
Category=Galaxy
Description=[Dwarf galaxies, Emission line galaxies]
Extended=YES

Template

TA Method
NONE

Dithers

#	Dither Type	Size	Starting Point	Number of Points	Points
1	4-POINT-DITHER				

Spectral Elements

#	Grating/Filter	Readout Pattern	Groups/Int	Integrations/Exp	Leakcal	Dither	Autocal	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
1	G140H/F100LP	NRSIRS2RAPID	17	1	false	true	NONE	4	4	1050.4	
2	G235H/F170LP	NRSIRS2RAPID	17	1	false	true	NONE	4	4	1050.4	
3	G395H/F290LP	NRSIRS2RAPID	17	1	false	true	NONE	4	4	1050.4	

Special Requirements

Sequence Observations 1, 2, 3, Non-interruptible