



8427 - CAL-MIRI-435 MIRI LRS wavelength calibration

Cycle: 4, Proposal Category: CAL/MIRI

INVESTIGATORS

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OBSERVATIONS

<i>Folder</i>	<i>Observation</i>	<i>Label</i>	<i>Observing Template</i>	<i>Science Target</i>
Observation Folder				
	1	HD 76534 slit	MIRI Low Resolution Spectroscopy	(1) HD76534-slit
	2	HD 76534 background	MIRI Low Resolution Spectroscopy	(3) HD76534-background
	3	HD 76534 slitless	MIRI Low Resolution Spectroscopy	(2) HD76534-slitless

ABSTRACT

We will observe the Be star HD 76534 as a wavelength standard in the LRS slit and in the LRS slitless mode in order to monitor the current wavelength solutions for the LRS and improve them by increasing the S/N from previous observations.

This calibration program may change in response to system developments and the final Cycle 4 science program.

OBSERVING DESCRIPTION

Obs 1 - along-slit nod observation of the Be star HD 76534

Obs 2 - background for Obs 3

Obs 3 - slitless observtaion of the Be star HD 76534

Proposal 8427 - Targets - CAL-MIRI-435 MIRI LRS wavelength calibration

#	Name	Target Coordinates	Targ. Coord. Corrections	Miscellaneous
(1)	HD76534-slit	RA: 08 55 8.7067 (133.7862779d) Dec: -43 27 59.89 (-43.46664d) Equinox: J2000	Proper Motion RA: -6.98 mas/yr Proper Motion Dec: 4.03 mas/yr Parallax: 0.00102" Epoch of Position: 2000.0	
<p><i>Comments: Position from Hipparcos (Leeuwen 2007)</i> <i>Category=Star</i> <i>Description=[B stars, Emission line stars]</i> <i>Extended=NO</i></p>				
(2)	HD76534-slitless	RA: 08 55 8.7067 (133.7862779d) Dec: -43 27 59.89 (-43.46664d) Equinox: J2000	Proper Motion RA: -6.98 mas/yr Proper Motion Dec: 4.03 mas/yr Parallax: 0.00102" Epoch of Position: 2000.0	
<p><i>Comments: Position from Hipparcos (Leeuwen 2007)</i> <i>Category=Star</i> <i>Description=[B stars, Emission line stars]</i> <i>Extended=NO</i></p>				
(3)	HD76534-background	RA: 08 55 8.7067 (133.7862779d) Dec: -43 27 29.89 (-43.45830d) Equinox: J2000	Proper Motion RA: -6.98 mas/yr Proper Motion Dec: 4.03 mas/yr Parallax: 0.00102" Epoch of Position: 2000.0	
<p><i>Comments: Position from Hipparcos (Leeuwen 2007), offset 30" south</i> <i>Category=Star</i> <i>Description=[B stars, Emission line stars]</i> <i>Extended=NO</i></p>				

Fixed Targets

Proposal 8427 - Observation 1 - CAL-MIRI-435 MIRI LRS wavelength calibration

Fri Mar 14 00:00:08 GMT 2025

Observation	<p>Proposal 8427, Observation 1: HD 76534 slit</p> <p>Diagnostic Status: Warning</p> <p>Observing Template: MIRI Low Resolution Spectroscopy</p>									
Diagnostics	(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)	HD76534-slit	RA: 08 55 8.7067 (133.7862779d) Dec: -43 27 59.89 (-43.46664d) Equinox: J2000	Proper Motion RA: -6.98 mas/yr Proper Motion Dec: 4.03 mas/yr Parallax: 0.00102" Epoch of Position: 2000.0						
	<p><i>Comments: Position from Hipparcos (Leeuwen 2007)</i></p> <p><i>Category=Star</i></p> <p><i>Description=[B stars, Emission line stars]</i></p> <p><i>Extended=NO</i></p>									
Acquisition	#	Target	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID	
	1	SAME	F1500W	FAST	6	1	1	16.65	242609.10	
Template	Subarray				Obtain Verification Image?					
	FULL				true					
Dithers	#	Dither Type	No. Spectral Steps	Spectral Step Offset	No. Spatial Steps	Spatial Step Offset				
	1	ALONG SLIT NOD								
Pointing Verification	#	PV Readout Pattern	PV Groups/Int	PV Integrations/Exp	PV Total Integrations	PV Exposures/Dith	PV Total Dithers	PV Total Exposure Time	PV ETC Wkbk.Calc ID	Filter
	1	FASTR1	6	1	1	1	1	16.65		F1500W

Proposal 8427 - Observation 1 - CAL-MIRI-435 MIRI LRS wavelength calibration

Spectral Elements	#	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Exposures/Dith	Total Dithers	Total Exposure Time	ETC Wkbk.Calc ID
	1	FASTR1	5	5	10	1	2	160.952	

Proposal 8427 - Observation 2 - CAL-MIRI-435 MIRI LRS wavelength calibration

Fri Mar 14 00:00:08 GMT 2025

Observation	<p>Proposal 8427, Observation 2: HD 76534 background</p> <p>Diagnostic Status: Warning</p> <p>Observing Template: MIRI Low Resolution Spectroscopy</p> <p>Background Observation For: [HD 76534 slitless (Obs 3)]</p>							
Diagnostics	(Visit 2:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.							
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections			Miscellaneous	
	(3)	HD76534-background	RA: 08 55 8.7067 (133.7862779d) Dec: -43 27 29.89 (-43.45830d) Equinox: J2000	Proper Motion RA: -6.98 mas/yr Proper Motion Dec: 4.03 mas/yr Parallax: 0.00102" Epoch of Position: 2000.0				
	<p><i>Comments: Position from Hipparcos (Leeuwen 2007), offset 30" south</i></p> <p><i>Category=Star</i></p> <p><i>Description=[B stars, Emission line stars]</i></p> <p><i>Extended=NO</i></p>							
Acquisition	#	Target						
	1	NONE						
Template	AcqFilter	Subarray				Obtain Verification Image?		
	F1000W	SLITLESSPRISM				false		
Dithers	#	Dither Type	No. Spectral Steps	Spectral Step Offset	No. Spatial Steps	Spatial Step Offset		
	1	NONE						
Spectral Elements	#	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Exposures/Dith	Total Dithers	Total Exposure Time ETC Wkbk.Calc ID
	1	FASTR1	16	36	36	1	1	97.173

Proposal 8427 - Observation 2 - CAL-MIRI-435 MIRI LRS wavelength calibration

Special Requirements

Time Series Observation
No Parallel Attachments

Sequence Observations 2, 3, Non-interruptible

Proposal 8427 - Observation 3 - CAL-MIRI-435 MIRI LRS wavelength calibration

Fri Mar 14 00:00:08 GMT 2025

Observation	Proposal 8427, Observation 3: HD 76534 slitless Diagnostic Status: Warning Observing Template: MIRI Low Resolution Spectroscopy Background Observations:[HD 76534 background (Obs 2)]									
	(Visit 3:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.									
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections			Miscellaneous			
	(2)	HD76534-slitless	RA: 08 55 8.7067 (133.7862779d) Dec: -43 27 59.89 (-43.46664d) Equinox: J2000	Proper Motion RA: -6.98 mas/yr Proper Motion Dec: 4.03 mas/yr Parallax: 0.00102" Epoch of Position: 2000.0						
<i>Comments: Position from Hipparcos (Leeuwen 2007)</i> <i>Category=Star</i> <i>Description=[B stars, Emission line stars]</i> <i>Extended=NO</i>										
Acquisition	#	Target	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID	
	1	SAME	F1000W	FAST	4	1	1	0.636	242609.04	
Template	Subarray				Obtain Verification Image?					
	SLITLESSPRISM				true					
Dithers	#	Dither Type	No. Spectral Steps	Spectral Step Offset	No. Spatial Steps	Spatial Step Offset				
	1	NONE								
Pointing Verification	#	PV Readout Pattern	PV Groups/Int	PV Integrations/Exp	PV Total Integrations	PV Exposures/Dith	PV Total Dithers	PV Total Exposure Time	PV ETC Wkbk.Calc ID	Filter
	1	FASTR1	5	1	1	1	1	0.795		F1000W

Proposal 8427 - Observation 3 - CAL-MIRI-435 MIRI LRS wavelength calibration

Spectral Elements	#	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Exposures/Dith	Total Dithers	Total Exposure Time	ETC Wkbk.Calc ID
	Special Requirements	1	FASTR1	16	144	144	1	1	389.171
	Time Series Observation No Parallel Attachments Sequence Observations 2, 3, Non-interruptible								