



2538 - Using JWST to search for Planetary Sculptors in an ALMA-Selected Sample of Debris Disks

Cycle: 1, Proposal Category: GO

INVESTIGATORS

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OBSERVATIONS

<i>Folder</i>	<i>Observation</i>	<i>Label</i>	<i>Observing Template</i>	<i>Science Target</i>
GJ14				
	1	Background-GJ14	MIRI Coronagraphic Imaging	(7) BKG-GJ14
	2	GJ14-Roll1	MIRI Coronagraphic Imaging	(1) GJ14
	3	GJ14-Roll2	MIRI Coronagraphic Imaging	(1) GJ14
	4	PSF-GJ14	MIRI Coronagraphic Imaging	(4) PSF-GJ14
	5	Background-PSF-GJ14	MIRI Coronagraphic Imaging	(10) BKG-PSF-GJ14
HD202628				
	6	Background-HD202628	MIRI Coronagraphic Imaging	(8) BKG-HD202628
	7	HD202628-roll1	MIRI Coronagraphic Imaging	(2) HD202628

JWST Proposal 2538 (Created: Tuesday, October 17, 2023 at 4:02:10 PM Eastern Standard Time) - Overview

<i>Folder</i>	<i>Observation</i>	<i>Label</i>	<i>Observing Template</i>	<i>Science Target</i>
	8	HD202628-roll2	MIRI Coronagraphic Imaging	(2) HD202628
	9	PSF-HD202628	MIRI Coronagraphic Imaging	(5) PSF-HD202628
	10	Background-PSF-HD202628	MIRI Coronagraphic Imaging	(11) BKG-PSF-HD202628
HD21997				
	11	Background-HD21997	MIRI Coronagraphic Imaging	(9) BKG-HD21997
	12	HD21997-roll1	MIRI Coronagraphic Imaging	(3) HD21997
	13	HD21997-roll2	MIRI Coronagraphic Imaging	(3) HD21997
	14	PSF-HD21997	MIRI Coronagraphic Imaging	(6) PSF-HD21997
	15	Background-PSF-HD21997	MIRI Coronagraphic Imaging	(12) BKG-PSF-HD21997
	111	Background-HD21997	MIRI Coronagraphic Imaging	(9) BKG-HD21997
	112	HD21997-roll1	MIRI Coronagraphic Imaging	(3) HD21997
	113	HD21997-roll2	MIRI Coronagraphic Imaging	(3) HD21997
	114	PSF-HD21997	MIRI Coronagraphic Imaging	(6) PSF-HD21997
	115	Background-PSF-HD21997	MIRI Coronagraphic Imaging	(12) BKG-PSF-HD21997

ABSTRACT

Using the MIRI Four-Quadrant Phase Mask Coronagraph operating with the F1550C filter, we will directly image the massive planets that are responsible for sculpting the sharp inner edges of nearby debris disk systems that have been imaged with ALMA. We use semi-analytical models to derive a lower limit on the planet mass, as well as an outer estimate to the planet orbital separation. To estimate our sensitivity to planets, we use the most up-to-date simulations of MIRI coronagraphic performance to generate detection probability maps for our observations. Comparing these estimates of our expected sensitivity with MIRI to the predicted mass and separations of the planet in the system allows us to identify three systems (GJ14, HD207129, and HD202628) in which we will have a high confidence of detecting a planet in each of the three systems with expected masses ranging from ~ 0.3 to 1.0 Jupiter masses. Not only will the identification of these planetary mass companions provide clear evidence that they are indeed responsible for sculpting the dust disk, but such objects will be ideal for subsequent follow-up observations for atmospheric characterization using the suite of wavelengths afforded by JWST.

OBSERVING DESCRIPTION

JWST Proposal 2538 (Created: Tuesday, October 17, 2023 at 4:02:10 PM Eastern Standard Time) - Overview

We will observe three nearby stars (GJ14, HD207129, and HD202628) using the MIRI four-quadrant phase mask (4QPM) coronagraph operating with the F1550C filter to search for gaseous planets responsible for sculpting sharp inner debris identified through ALMA imaging.

We will observe each of our science targets at two roll angles with an observation of a PSF reference star immediately adjacent to an observation of our target star. All our observations of science targets and PSF reference images share a timing link to achieve a higher overall correlation between the science and PSF reference images, translating to a better PSF subtraction, and better sensitivity to planets. To benefit from the best calibration strategies, in addition to reducing observatory overheads, all observations of our target and reference stars will be executed in a non-interruptible sequence.

Furthermore, two of our science targets (HD207129 and HD202628) have less than a 10 degree separation on the sky, and therefore they can be observed in sequence with a single reference star observation (HD201647) in between them. This configuration allows the two science targets to share a single reference star, resulting in a more efficient program. For this reference star, we have chosen a nine-point dither observation to generate more reference PSF images. Our third target, GJ14 will have its own reference star (HD5431) and use a five-point dither.

Proposal 2538 - Targets - Using JWST to search for Planetary Sculptors in an ALMA-Selected Sample of Debris Disks

#	Name	Target Coordinates	Targ. Coord. Corrections	Miscellaneous
(1)	GJ14	RA: 00 17 7.1501 (4.2797921d) Dec: +40 56 55.16 (40.94866d) Equinox: J2000	Proper Motion RA: 0.050078743123279 sec of time/yr Proper Motion Dec: 0.083564 arcsec/yr Epoch of Position: 2015.5	
<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> <i>Category=Star</i> <i>Description=[Circumstellar disks]</i>				
(2)	HD202628	RA: 21 18 27.6134 (319.6150558d) Dec: -43 20 4.41 (-43.33456d) Equinox: J2000	Proper Motion RA: 0.022198117762582445 sec of time/yr Proper Motion Dec: 0.021633 arcsec/yr Epoch of Position: 2015.5	
<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> <i>Category=Star</i> <i>Description=[Circumstellar disks]</i>				
(3)	HD21997	RA: 03 31 53.7089 (52.9737871d) Dec: -25 36 51.17 (-25.61421d) Equinox: J2000	Proper Motion RA: 0.003992198789777471 sec of time/yr Proper Motion Dec: -0.01494200009801716 arcsec/yr Epoch of Position: 2015.5	
<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> <i>Category=Star</i> <i>Description=[A stars]</i>				
(4)	PSF-GJ14	RA: 00 56 30.6685 (14.1277854d) Dec: +42 58 43.49 (42.97875d) Equinox: J2000	Proper Motion RA: -6.636535427089393E-4 sec of time/yr Proper Motion Dec: -0.009332999934485997 arcsec/yr Epoch of Position: 2015.5	
<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> <i>Category=Star</i> <i>Description=[K dwarfs]</i>				
(5)	PSF-HD202628	RA: 21 13 48.5961 (318.4524837d) Dec: -43 07 48.25 (-43.13007d) Equinox: J2000	Proper Motion RA: 0.0068381870266894925 sec of time/yr Proper Motion Dec: -0.04055299998526607 arcsec/yr Epoch of Position: 2015.5	
<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> <i>Category=Star</i> <i>Description=[K stars]</i>				
(6)	PSF-HD21997	RA: 03 34 52.4646 (53.7186025d) Dec: -25 34 57.67 (-25.58269d) Equinox: J2000	Proper Motion RA: 0.0037901774017721126 sec of time/yr Proper Motion Dec: 0.03279 arcsec/yr Epoch of Position: 2015.5	
<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> <i>Category=Star</i> <i>Description=[K stars]</i>				
(7)	BKG-GJ14	RA: 00 17 19.6000 (4.3316667d) Dec: +40 58 54.00 (40.98167d) Equinox: J2000		
<i>Comments:</i> <i>Category=Calibration</i> <i>Description=[Photometric]</i>				

Fixed Targets

Proposal 2538 - Targets - Using JWST to search for Planetary Sculptors in an ALMA-Selected Sample of Debris Disks

(8)	BKG-HD202628	RA: 21 18 36.0000 (319.6500000d) Dec: -43 18 22.00 (-43.30611d) Equinox: J2000
<p><i>Comments:</i> <i>Category=Calibration</i> <i>Description=[Photometric]</i></p>		
(9)	BKG-HD21997	RA: 03 31 41.5000 (52.9229167d) Dec: -25 36 48.00 (-25.61333d) Equinox: J2000
<p><i>Comments:</i> <i>Category=Calibration</i> <i>Description=[Coronagraphic, Photometric]</i></p>		
(10)	BKG-PSF-GJ14	RA: 00 56 40.9000 (14.1704167d) Dec: +42 56 46.00 (42.94611d) Equinox: J2000
<p><i>Comments:</i> <i>Category=Calibration</i> <i>Description=[Coronagraphic, Photometric]</i></p>		
(11)	BKG-PSF-HD202628	RA: 21 13 57.4000 (318.4891667d) Dec: -43 06 17.00 (-43.10472d) Equinox: J2000
<p><i>Comments:</i> <i>Category=Calibration</i> <i>Description=[Coronagraphic, Photometric]</i></p>		
(12)	BKG-PSF-HD21997	RA: 03 35 3.0000 (53.7625000d) Dec: -25 35 13.00 (-25.58694d) Equinox: J2000
<p><i>Comments:</i> <i>Category=Calibration</i> <i>Description=[Coronagraphic, Photometric]</i></p>		

Proposal 2538 - Observation 1 - Using JWST to search for Planetary Sculptors in an ALMA-Selected Sample of Debris Disks

Tue Oct 17 21:02:10 GMT 2023

Observation	Proposal 2538, Observation 1: Background-GJ14 Diagnostic Status: Warning Observing Template: MIRI Coronagraphic Imaging Background Observation For: [GJ14-Roll1 (Obs 2), GJ14-Roll2 (Obs 3)]												
	(Visit 1:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.												
Diagnosics													
Fixed Targets	#	Name	Target Coordinates				Targ. Coord. Corrections			Miscellaneous			
	(7)	BKG-GJ14	RA: 00 17 19.6000 (4.3316667d) Dec: +40 58 54.00 (40.98167d) Equinox: J2000										
<i>Comments:</i> <i>Category=Calibration</i> <i>Description=/Photometric]</i>													
Acquisition	#	Target											
	1	NONE											
Template	AcqFilter	Repeat observation					Background Quadrant						
		YES					1						
Dithers	#	Dither Type											
	1	BACKGROUND											
Spectral Elements	#	Coron Mask/Filter	Subarray	Mask	Filter	Readout Pattern	Groups/Int	Integrations/E xp	Exposures/Dit h	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
	1	4QPM/F1140C	MASK1140	4QPM	F1140C	FASTR1	1251	6	1	2	12	3600.473	155662
PSF References	Additional Justification: false												

Proposal 2538 - Observation 1 - Using JWST to search for Planetary Sculptors in an ALMA-Selected Sample of Debris Disks

Special Requirements

No Parallel Attachments

Sequence Observations 1, 2, 3, 4, 5, Non-interruptible

Proposal 2538 - Observation 2 - Using JWST to search for Planetary Sculptors in an ALMA-Selected Sample of Debris Disks

Tue Oct 17 21:02:10 GMT 2023

Observation	Proposal 2538, Observation 2: GJ14-Roll1 Diagnostic Status: Warning Observing Template: MIRI Coronagraphic Imaging Background Observations:[Background-GJ14 (Obs 1), GJ14-Roll2 (Obs 3)]												
	(Visit 2:1) Warning (Form): Overheads are provisional until the Visit Planner has been run. (GJ14-Roll1 (Obs 2)) Informational (Form): The Visit Planner and Spike may produce different schedulability results.												
Fixed Targets	#	Name	Target Coordinates			Targ. Coord. Corrections			Miscellaneous				
	(1)	GJ14	RA: 00 17 7.1501 (4.2797921d) Dec: +40 56 55.16 (40.94866d) Equinox: J2000			Proper Motion RA: 0.050078743123279 sec of time/yr Proper Motion Dec: 0.083564 arcsec/yr Epoch of Position: 2015.5							
<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> <i>Category=Star</i> <i>Description=/Circumstellar disks]</i>													
Acquisition	#	Target	Filter	Quadrant	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID			
	1	SAME	FND	1	FAST	36	1	1	8.628	155662			
Template	Repeat observation												
	NO												
Dithers	#	Dither Type											
	1	NONE											
Spectral Elements	#	Coron Mask/Filter	Subarray	Mask	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Exposures/Dit	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
	1	4QPM/F1140C	MASK1140	4QPM	F1140C	FASTR1	1251	6	1	1	6	1800.236	155662
PSF References	PSF-GJ14 (Obs 4) (PSF Reference; Filters [F1140C])												
	Additional Justification: false												

Proposal 2538 - Observation 2 - Using JWST to search for Planetary Sculptors in an ALMA-Selected Sample of Debris Disks

Special Requirements

No Parallel Attachments

Sequence Observations 1, 2, 3, 4, 5, Non-interruptible

Aperture PA Offset 2 from 3 by 10 to 14 Degrees (Same offsets in V3)

Proposal 2538 - Observation 3 - Using JWST to search for Planetary Sculptors in an ALMA-Selected Sample of Debris Disks

Tue Oct 17 21:02:10 GMT 2023

Observation	Proposal 2538, Observation 3: GJ14-Roll2 Diagnostic Status: Warning Observing Template: MIRI Coronagraphic Imaging Background Observations:[Background-GJ14 (Obs 1), GJ14-Roll1 (Obs 2)]												
	(Visit 3:1) Warning (Form): Overheads are provisional until the Visit Planner has been run. (GJ14-Roll2 (Obs 3)) Informational (Form): The Visit Planner and Spike may produce different schedulability results.												
Fixed Targets	#	Name	Target Coordinates				Targ. Coord. Corrections			Miscellaneous			
	(1)	GJ14	RA: 00 17 7.1501 (4.2797921d) Dec: +40 56 55.16 (40.94866d) Equinox: J2000				Proper Motion RA: 0.050078743123279 sec of time/yr Proper Motion Dec: 0.083564 arcsec/yr Epoch of Position: 2015.5						
<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> <i>Category=Star</i> <i>Description=[Circumstellar disks]</i>													
Acquisition	#	Target	Filter	Quadrant	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID			
	1	SAME	FND	1	FAST	36	1	1	8.628	155662			
Template	Repeat observation												
	NO												
Dithers	#	Dither Type											
	1	NONE											
Spectral Elements	#	Coron Mask/Filter	Subarray	Mask	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Exposures/Dit	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
	1	4QPM/F1140C	MASK1140	4QPM	F1140C	FASTR1	1251	6	1	1	6	1800.236	155662
PSF References	PSF-GJ14 (Obs 4) (PSF Reference; Filters [F1140C])												
	Additional Justification: false												

Proposal 2538 - Observation 3 - Using JWST to search for Planetary Sculptors in an ALMA-Selected Sample of Debris Disks

Special Requirements

No Parallel Attachments

Sequence Observations 1, 2, 3, 4, 5, Non-interruptible

Aperture PA Offset 2 from 3 by 10 to 14 Degrees (Same offsets in V3)

Proposal 2538 - Observation 4 - Using JWST to search for Planetary Sculptors in an ALMA-Selected Sample of Debris Disks

Tue Oct 17 21:02:10 GMT 2023

Observation	<p>Proposal 2538, Observation 4: PSF-GJ14</p> <p>Diagnostic Status: Warning</p> <p>Observing Template: MIRI Coronagraphic Imaging</p> <p>Background Observations:[Background-PSF-GJ14 (Obs 5)]</p>																																					
Diagnostics	(Visit 4:1) 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>(4)</td> <td>PSF-GJ14</td> <td>RA: 00 56 30.6685 (14.1277854d) Dec: +42 58 43.49 (42.97875d) Equinox: J2000</td> <td>Proper Motion RA: -6.636535427089393E-4 sec of time/yr Proper Motion Dec: -0.009332999934485997 arcsec/yr Epoch of Position: 2015.5</td> <td></td> </tr> </tbody> </table> <p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i></p> <p>Category=Star Description=[K dwarfs]</p>												#	Name	Target Coordinates	Targ. Coord. Corrections	Miscellaneous	(4)	PSF-GJ14	RA: 00 56 30.6685 (14.1277854d) Dec: +42 58 43.49 (42.97875d) Equinox: J2000	Proper Motion RA: -6.636535427089393E-4 sec of time/yr Proper Motion Dec: -0.009332999934485997 arcsec/yr Epoch of Position: 2015.5																	
#	Name	Target Coordinates	Targ. Coord. Corrections	Miscellaneous																																		
(4)	PSF-GJ14	RA: 00 56 30.6685 (14.1277854d) Dec: +42 58 43.49 (42.97875d) Equinox: J2000	Proper Motion RA: -6.636535427089393E-4 sec of time/yr Proper Motion Dec: -0.009332999934485997 arcsec/yr Epoch of Position: 2015.5																																			
Acquisition	<table border="1"> <thead> <tr> <th>#</th> <th>Target</th> <th>Filter</th> <th>Quadrant</th> <th>Readout Pattern</th> <th>Groups/Int</th> <th>Integrations/Exp</th> <th>Total Integrations</th> <th>Total Exposure Time</th> <th>ETC Wkbk.Calc ID</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>SAME</td> <td>FND</td> <td>1</td> <td>FAST</td> <td>36</td> <td>1</td> <td>1</td> <td>8.628</td> <td>155662</td> </tr> </tbody> </table>												#	Target	Filter	Quadrant	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID	1	SAME	FND	1	FAST	36	1	1	8.628	155662						
#	Target	Filter	Quadrant	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID																													
1	SAME	FND	1	FAST	36	1	1	8.628	155662																													
Template	<p>Repeat observation</p> <p>NO</p>																																					
Dithers	<table border="1"> <thead> <tr> <th>#</th> <th>Dither Type</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>9-POINT-SMALL-GRID</td> </tr> </tbody> </table>												#	Dither Type	1	9-POINT-SMALL-GRID																						
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1	9-POINT-SMALL-GRID																																					
Spectral Elements	<table border="1"> <thead> <tr> <th>#</th> <th>Coron Mask/Filter</th> <th>Subarray</th> <th>Mask</th> <th>Filter</th> <th>Readout Pattern</th> <th>Groups/Int</th> <th>Integrations/Exp</th> <th>Exposures/Dith</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>4QPM/F1140C</td> <td>MASK1140</td> <td>4QPM</td> <td>F1140C</td> <td>FASTR1</td> <td>701</td> <td>4</td> <td>1</td> <td>9</td> <td>36</td> <td>6055.036</td> <td>155662</td> </tr> </tbody> </table>												#	Coron Mask/Filter	Subarray	Mask	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Exposures/Dith	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID	1	4QPM/F1140C	MASK1140	4QPM	F1140C	FASTR1	701	4	1	9	36	6055.036	155662
#	Coron Mask/Filter	Subarray	Mask	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Exposures/Dith	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID																										
1	4QPM/F1140C	MASK1140	4QPM	F1140C	FASTR1	701	4	1	9	36	6055.036	155662																										
PSF References	PSF Reference: true																																					

Proposal 2538 - Observation 4 - Using JWST to search for Planetary Sculptors in an ALMA-Selected Sample of Debris Disks

Special Requirements

No Parallel Attachments

Sequence Observations 1, 2, 3, 4, 5, Non-interruptible

Proposal 2538 - Observation 5 - Using JWST to search for Planetary Sculptors in an ALMA-Selected Sample of Debris Disks

Tue Oct 17 21:02:10 GMT 2023

Observation	<p>Proposal 2538, Observation 5: Background-PSF-GJ14</p> <p>Diagnostic Status: Warning</p> <p>Observing Template: MIRI Coronagraphic Imaging</p> <p>Background Observation For: [PSF-GJ14 (Obs 4)]</p>												
Diagnostics	(Visit 5:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.												
Fixed Targets	#	Name	Target Coordinates				Targ. Coord. Corrections			Miscellaneous			
	(10)	BKG-PSF-GJ14	RA: 00 56 40.9000 (14.1704167d) Dec: +42 56 46.00 (42.94611d) Equinox: J2000										
	<p><i>Comments:</i> <i>Category=Calibration</i> <i>Description= Coronagraphic, Photometric </i></p>												
Acquisition	#	Target											
	1	NONE											
Template	AcqFilter	Repeat observation					Background Quadrant						
		YES					1						
Dithers	#	Dither Type											
	1	BACKGROUND											
Spectral Elements	#	Coron Mask/Filter	Subarray	Mask	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Exposures/Dith	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
	1	4QPM/F1140C	MASK1140	4QPM	F1140C	FASTR1	701	4	1	2	8	1345.564	155662
PSF References	Additional Justification: false												

Proposal 2538 - Observation 5 - Using JWST to search for Planetary Sculptors in an ALMA-Selected Sample of Debris Disks

Special Requirements

No Parallel Attachments

Sequence Observations 1, 2, 3, 4, 5, Non-interruptible

Proposal 2538 - Observation 6 - Using JWST to search for Planetary Sculptors in an ALMA-Selected Sample of Debris Disks

Tue Oct 17 21:02:10 GMT 2023

Observation	Proposal 2538, Observation 6: Background-HD202628 Diagnostic Status: Warning Observing Template: MIRI Coronagraphic Imaging Background Observation For: [HD202628-roll1 (Obs 7), HD202628-roll2 (Obs 8)]												
Diagnostics	(Visit 6:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.												
Fixed Targets	#	Name	Target Coordinates				Targ. Coord. Corrections			Miscellaneous			
	(8)	BKG-HD202628	RA: 21 18 36.0000 (319.6500000d) Dec: -43 18 22.00 (-43.30611d) Equinox: J2000										
	Comments: Category=Calibration Description=/Photometric]												
Acquisition	#	Target											
	1	NONE											
Template	AcqFilter	Repeat observation					Background Quadrant						
		YES					1						
Dithers	#	Dither Type											
	1	BACKGROUND											
Spectral Elements	#	Coron Mask/Filter	Subarray	Mask	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Exposures/Dith	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
	1	4QPM/F1140C	MASK1140	4QPM	F1140C	FASTR1	1251	6	1	2	12	3600.473	155662
PSF References	Additional Justification: false												

Proposal 2538 - Observation 6 - Using JWST to search for Planetary Sculptors in an ALMA-Selected Sample of Debris Disks

Special Requirements

No Parallel Attachments

Sequence Observations 6, 7, 8, 9, 10, Non-interruptible

Proposal 2538 - Observation 7 - Using JWST to search for Planetary Sculptors in an ALMA-Selected Sample of Debris Disks

Tue Oct 17 21:02:10 GMT 2023

Observation	Proposal 2538, Observation 7: HD202628-roll1 Diagnostic Status: Warning Observing Template: MIRI Coronagraphic Imaging Background Observations:[Background-HD202628 (Obs 6), HD202628-roll2 (Obs 8)]																																					
	(HD202628-roll1 (Obs 7)) Warning (Form): The order of link [PA Offset 7 from 8] combined with the order of the SEQ NON-INT reduces scheduling flexibility. (Visit 7:1) Warning (Form): Overheads are provisional until the Visit Planner has been run. (HD202628-roll1 (Obs 7)) Informational (Form): The Visit Planner and Spike may produce different schedulability results.																																					
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Template	Repeat observation																																					
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Dithers	#																																					
	1 Dither Type: NONE																																					
Spectral Elements	<table border="1"> <thead> <tr> <th>#</th> <th>Coron Mask/Filter</th> <th>Subarray</th> <th>Mask</th> <th>Filter</th> <th>Readout Pattern</th> <th>Groups/Int</th> <th>Integrations/Exp</th> <th>Exposures/Dith</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>4QPM/F1140C</td> <td>MASK1140</td> <td>4QPM</td> <td>F1140C</td> <td>FASTR1</td> <td>1251</td> <td>6</td> <td>1</td> <td>1</td> <td>6</td> <td>1800.236</td> <td>155662</td> </tr> </tbody> </table>												#	Coron Mask/Filter	Subarray	Mask	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Exposures/Dith	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID	1	4QPM/F1140C	MASK1140	4QPM	F1140C	FASTR1	1251	6	1	1	6	1800.236	155662
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1	4QPM/F1140C	MASK1140	4QPM	F1140C	FASTR1	1251	6	1	1	6	1800.236	155662																										
PSF References	PSF-HD202628 (Obs 9) (PSF Reference; Filters [F1140C])																																					
	Additional Justification: false																																					

Proposal 2538 - Observation 7 - Using JWST to search for Planetary Sculptors in an ALMA-Selected Sample of Debris Disks

Special Requirements

No Parallel Attachments

Sequence Observations 6, 7, 8, 9, 10, Non-interruptible

Aperture PA Offset 7 from 8 by 10 to 14 Degrees (Same offsets in V3)

Proposal 2538 - Observation 8 - Using JWST to search for Planetary Sculptors in an ALMA-Selected Sample of Debris Disks

Tue Oct 17 21:02:10 GMT 2023

Observation	Proposal 2538, Observation 8: HD202628-roll2 Diagnostic Status: Warning Observing Template: MIRI Coronagraphic Imaging Background Observations:[Background-HD202628 (Obs 6), HD202628-roll1 (Obs 7)]																																					
	(HD202628-roll2 (Obs 8)) Warning (Form): The order of link [PA Offset 7 from 8] combined with the order of the SEQ NON-INT reduces scheduling flexibility. (Visit 8:1) Warning (Form): Overheads are provisional until the Visit Planner has been run. (HD202628-roll2 (Obs 8)) Informational (Form): The Visit Planner and Spike may produce different schedulability results.																																					
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Template	Repeat observation																																					
	NO																																					
Dithers	#																																					
	1																																					
Spectral Elements	Dither Type																																					
	NONE																																					
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	#	Coron Mask/Filter	Subarray	Mask	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Exposures/Dith	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID																									
1	4QPM/F1140C	MASK1140	4QPM	F1140C	FASTR1	1251	6	1	1	6	1800.236	155662																										
PSF References	PSF-HD202628 (Obs 9) (PSF Reference; Filters [F1140C])																																					
	Additional Justification: false																																					

Proposal 2538 - Observation 8 - Using JWST to search for Planetary Sculptors in an ALMA-Selected Sample of Debris Disks

Special Requirements

No Parallel Attachments

Sequence Observations 6, 7, 8, 9, 10, Non-interruptible

Aperture PA Offset 7 from 8 by 10 to 14 Degrees (Same offsets in V3)

Proposal 2538 - Observation 9 - Using JWST to search for Planetary Sculptors in an ALMA-Selected Sample of Debris Disks

Tue Oct 17 21:02:10 GMT 2023

Observation	Proposal 2538, Observation 9: PSF-HD202628 Diagnostic Status: Warning Observing Template: MIRI Coronagraphic Imaging Background Observations:[Background-PSF-HD202628 (Obs 10)]																																					
	(Visit 9:1) 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>(5)</td> <td>PSF-HD202628</td> <td>RA: 21 13 48.5961 (318.4524837d) Dec: -43 07 48.25 (-43.13007d) Equinox: J2000</td> <td>Proper Motion RA: 0.0068381870266894925 sec of time/yr Proper Motion Dec: -0.04055299998526607 arcsec/yr Epoch of Position: 2015.5</td> <td></td> </tr> </tbody> </table>	#	Name	Target Coordinates	Targ. Coord. Corrections	Miscellaneous	(5)	PSF-HD202628	RA: 21 13 48.5961 (318.4524837d) Dec: -43 07 48.25 (-43.13007d) Equinox: J2000	Proper Motion RA: 0.0068381870266894925 sec of time/yr Proper Motion Dec: -0.04055299998526607 arcsec/yr Epoch of Position: 2015.5		<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> Category=Star Description=[K stars]																										
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Template	Repeat observation																																					
	NO																																					
Dithers	#																																					
	1	9-POINT-SMALL-GRID																																				
Spectral Elements	<table border="1"> <thead> <tr> <th>#</th> <th>Coron Mask/Filter</th> <th>Subarray</th> <th>Mask</th> <th>Filter</th> <th>Readout Pattern</th> <th>Groups/Int</th> <th>Integrations/Exp</th> <th>Exposures/Dith</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>4QPM/F1140C</td> <td>MASK1140</td> <td>4QPM</td> <td>F1140C</td> <td>FASTR1</td> <td>600</td> <td>4</td> <td>1</td> <td>9</td> <td>36</td> <td>5183.559</td> <td>155662</td> </tr> </tbody> </table>	#	Coron Mask/Filter	Subarray	Mask	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Exposures/Dith	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID	1	4QPM/F1140C	MASK1140	4QPM	F1140C	FASTR1	600	4	1	9	36	5183.559	155662											
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PSF References	PSF Reference: true																																					

Proposal 2538 - Observation 9 - Using JWST to search for Planetary Sculptors in an ALMA-Selected Sample of Debris Disks

Special Requirements

No Parallel Attachments

Sequence Observations 6, 7, 8, 9, 10, Non-interruptible

Proposal 2538 - Observation 10 - Using JWST to search for Planetary Sculptors in an ALMA-Selected Sample of Debris Disks

Tue Oct 17 21:02:10 GMT 2023

Observation	Proposal 2538, Observation 10: Background-PSF-HD202628 Diagnostic Status: Warning Observing Template: MIRI Coronagraphic Imaging Background Observation For: [PSF-HD202628 (Obs 9)]												
Diagnostics	(Visit 10:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.												
Fixed Targets	#	Name	Target Coordinates		Targ. Coord. Corrections				Miscellaneous				
	(11)	BKG-PSF-HD202628	RA: 21 13 57.4000 (318.4891667d) Dec: -43 06 17.00 (-43.10472d) Equinox: J2000										
	Comments: Category=Calibration Description=[Coronagraphic, Photometric]												
Acquisition	#	Target											
	1	NONE											
Template	AcqFilter	Repeat observation				Background Quadrant							
		YES				1							
Dithers	#	Dither Type											
	1	BACKGROUND											
Spectral Elements	#	Coron Mask/Filter	Subarray	Mask	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Exposures/Dith	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
	1	4QPM/F1140C	MASK1140	4QPM	F1140C	FASTR1	600	4	1	2	8	1151.902	155662
PSF References	Additional Justification: false												

Proposal 2538 - Observation 10 - Using JWST to search for Planetary Sculptors in an ALMA-Selected Sample of Debris Disks

Special Requirements

No Parallel Attachments

Sequence Observations 6, 7, 8, 9, 10, Non-interruptible

Proposal 2538 - Observation 11 - Using JWST to search for Planetary Sculptors in an ALMA-Selected Sample of Debris Disks

Tue Oct 17 21:02:10 GMT 2023

Observation	<p>Proposal 2538, Observation 11: Background-HD21997</p> <p>Diagnostic Status: Warning</p> <p>Observing Template: MIRI Coronagraphic Imaging</p> <p>Background Observation For: [HD21997-roll1 (Obs 12), HD21997-roll2 (Obs 13)]</p>												
Diagnostics	(Visit 11:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.												
Fixed Targets	#	Name	Target Coordinates				Targ. Coord. Corrections			Miscellaneous			
	(9)	BKG-HD21997	RA: 03 31 41.5000 (52.9229167d) Dec: -25 36 48.00 (-25.61333d) Equinox: J2000										
	<p>Comments: Category=Calibration Description=[Coronagraphic, Photometric]</p>												
Acquisition	#	Target											
	1	NONE											
Template	AcqFilter	Repeat observation					Background Quadrant						
		YES					1						
Dithers	#	Dither Type											
	1	BACKGROUND											
Spectral Elements	#	Coron Mask/Filter	Subarray	Mask	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Exposures/Dith	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
	1	4QPM/F1140C	MASK1140	4QPM	F1140C	FASTR1	1251	12	1	2	24	7201.425	155662
PSF References	Additional Justification: false												

Proposal 2538 - Observation 11 - Using JWST to search for Planetary Sculptors in an ALMA-Selected Sample of Debris Disks

Special Requirements

No Parallel Attachments

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

Proposal 2538 - Observation 12 - Using JWST to search for Planetary Sculptors in an ALMA-Selected Sample of Debris Disks

Tue Oct 17 21:02:10 GMT 2023

Observation	Proposal 2538, Observation 12: HD21997-roll1 Diagnostic Status: Warning Observing Template: MIRI Coronagraphic Imaging Background Observations:[Background-HD21997 (Obs 11), HD21997-roll2 (Obs 13)]																																					
	(HD21997-roll1 (Obs 12)) Warning (Form): The order of link [PA Offset 12 from 13] combined with the order of the SEQ NON-INT reduces scheduling flexibility. (Visit 12:1) Warning (Form): Overheads are provisional until the Visit Planner has been run. (HD21997-roll1 (Obs 12)) Informational (Form): The Visit Planner and Spike may produce different schedulability results.																																					
Fixed Targets	<table border="1"> <thead> <tr> <th>#</th> <th>Name</th> <th colspan="3">Target Coordinates</th> <th colspan="3">Targ. Coord. Corrections</th> <th colspan="4">Miscellaneous</th> </tr> </thead> <tbody> <tr> <td>(3)</td> <td>HD21997</td> <td colspan="3">RA: 03 31 53.7089 (52.9737871d) Dec: -25 36 51.17 (-25.61421d) Equinox: J2000</td> <td colspan="3">Proper Motion RA: 0.003992198789777471 sec of time/yr Proper Motion Dec: -0.01494200009801716 arcsec/yr Epoch of Position: 2015.5</td> <td colspan="4"></td> </tr> </tbody> </table> <p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> Category=Star Description=[A stars]</p>												#	Name	Target Coordinates			Targ. Coord. Corrections			Miscellaneous				(3)	HD21997	RA: 03 31 53.7089 (52.9737871d) Dec: -25 36 51.17 (-25.61421d) Equinox: J2000			Proper Motion RA: 0.003992198789777471 sec of time/yr Proper Motion Dec: -0.01494200009801716 arcsec/yr Epoch of Position: 2015.5								
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	#	Coron Mask/Filter	Subarray	Mask	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Exposures/Dith	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID																									
1	4QPM/F1140C	MASK1140	4QPM	F1140C	FASTR1	1251	12	1	1	12	3600.713	155662																										
PSF References	PSF-HD21997 (Obs 14) (PSF Reference; Filters [F1140C])																																					
	Additional Justification: false																																					

Proposal 2538 - Observation 12 - Using JWST to search for Planetary Sculptors in an ALMA-Selected Sample of Debris Disks

Special Requirements

No Parallel Attachments

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

Aperture PA Offset 12 from 13 by 10 to 14 Degrees (Same offsets in V3)

Proposal 2538 - Observation 13 - Using JWST to search for Planetary Sculptors in an ALMA-Selected Sample of Debris Disks

Tue Oct 17 21:02:10 GMT 2023

Observation	Proposal 2538, Observation 13: HD21997-roll2 Diagnostic Status: Warning Observing Template: MIRI Coronagraphic Imaging Background Observations:[Background-HD21997 (Obs 11), HD21997-roll1 (Obs 12)]																																					
	(HD21997-roll2 (Obs 13)) Warning (Form): The order of link [PA Offset 12 from 13] combined with the order of the SEQ NON-INT reduces scheduling flexibility. (Visit 13:1) Warning (Form): Overheads are provisional until the Visit Planner has been run. (HD21997-roll2 (Obs 13)) Informational (Form): The Visit Planner and Spike may produce different schedulability results.																																					
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Acquisition	<table border="1"> <thead> <tr> <th>#</th> <th>Target</th> <th>Filter</th> <th>Quadrant</th> <th>Readout Pattern</th> <th>Groups/Int</th> <th>Integrations/Exp</th> <th>Total Integrations</th> <th>Total Exposure Time</th> <th colspan="3">ETC Wkbk.Calc ID</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>SAME</td> <td>FND</td> <td>1</td> <td>FAST</td> <td>36</td> <td>1</td> <td>1</td> <td>8.628</td> <td colspan="3">155662</td> </tr> </tbody> </table>												#	Target	Filter	Quadrant	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID			1	SAME	FND	1	FAST	36	1	1	8.628	155662				
	#	Target	Filter	Quadrant	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID																												
1	SAME	FND	1	FAST	36	1	1	8.628	155662																													
Template	Repeat observation																																					
	NO																																					
Dithers	#																																					
	1 Dither Type NONE																																					
Spectral Elements	<table border="1"> <thead> <tr> <th>#</th> <th>Coron Mask/Filter</th> <th>Subarray</th> <th>Mask</th> <th>Filter</th> <th>Readout Pattern</th> <th>Groups/Int</th> <th>Integrations/Exp</th> <th>Exposures/Dith</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>4QPM/F1140C</td> <td>MASK1140</td> <td>4QPM</td> <td>F1140C</td> <td>FASTR1</td> <td>1251</td> <td>12</td> <td>1</td> <td>1</td> <td>12</td> <td>3600.713</td> <td>155662</td> </tr> </tbody> </table>												#	Coron Mask/Filter	Subarray	Mask	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Exposures/Dith	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID	1	4QPM/F1140C	MASK1140	4QPM	F1140C	FASTR1	1251	12	1	1	12	3600.713	155662
	#	Coron Mask/Filter	Subarray	Mask	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Exposures/Dith	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID																									
1	4QPM/F1140C	MASK1140	4QPM	F1140C	FASTR1	1251	12	1	1	12	3600.713	155662																										
PSF References	PSF-HD21997 (Obs 14) (PSF Reference; Filters [F1140C])																																					
	Additional Justification: false																																					

Proposal 2538 - Observation 13 - Using JWST to search for Planetary Sculptors in an ALMA-Selected Sample of Debris Disks

Special Requirements

No Parallel Attachments

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

Aperture PA Offset 12 from 13 by 10 to 14 Degrees (Same offsets in V3)

Proposal 2538 - Observation 14 - Using JWST to search for Planetary Sculptors in an ALMA-Selected Sample of Debris Disks

Tue Oct 17 21:02:10 GMT 2023

Observation	Proposal 2538, Observation 14: PSF-HD21997 Diagnostic Status: Warning Observing Template: MIRI Coronagraphic Imaging Background Observations:[Background-PSF-HD21997 (Obs 15)]																																					
	(Visit 14:1) 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>(6)</td> <td>PSF-HD21997</td> <td>RA: 03 34 52.4646 (53.7186025d) Dec: -25 34 57.67 (-25.58269d) Equinox: J2000</td> <td>Proper Motion RA: 0.0037901774017721126 sec of time/yr Proper Motion Dec: 0.03279 arcsec/yr Epoch of Position: 2015.5</td> <td></td> </tr> </tbody> </table> <p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> Category=Star Description=[K stars]</p>												#	Name	Target Coordinates	Targ. Coord. Corrections	Miscellaneous	(6)	PSF-HD21997	RA: 03 34 52.4646 (53.7186025d) Dec: -25 34 57.67 (-25.58269d) Equinox: J2000	Proper Motion RA: 0.0037901774017721126 sec of time/yr Proper Motion Dec: 0.03279 arcsec/yr Epoch of Position: 2015.5																	
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(6)	PSF-HD21997	RA: 03 34 52.4646 (53.7186025d) Dec: -25 34 57.67 (-25.58269d) Equinox: J2000	Proper Motion RA: 0.0037901774017721126 sec of time/yr Proper Motion Dec: 0.03279 arcsec/yr Epoch of Position: 2015.5																																			
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1	SAME	FND	1	FAST	36	1	1	8.628	155662																													
Template	Repeat observation																																					
	NO																																					
Dithers	#																																					
	1 9-POINT-SMALL-GRID																																					
Spectral Elements	<table border="1"> <thead> <tr> <th>#</th> <th>Coron Mask/Filter</th> <th>Subarray</th> <th>Mask</th> <th>Filter</th> <th>Readout Pattern</th> <th>Groups/Int</th> <th>Integrations/Exp</th> <th>Exposures/Dith</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>4QPM/F1140C</td> <td>MASK1140</td> <td>4QPM</td> <td>F1140C</td> <td>FASTR1</td> <td>623</td> <td>4</td> <td>1</td> <td>9</td> <td>36</td> <td>5382.014</td> <td>155662</td> </tr> </tbody> </table>												#	Coron Mask/Filter	Subarray	Mask	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Exposures/Dith	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID	1	4QPM/F1140C	MASK1140	4QPM	F1140C	FASTR1	623	4	1	9	36	5382.014	155662
	#	Coron Mask/Filter	Subarray	Mask	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Exposures/Dith	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID																									
1	4QPM/F1140C	MASK1140	4QPM	F1140C	FASTR1	623	4	1	9	36	5382.014	155662																										
PSF References	PSF Reference: true																																					

Proposal 2538 - Observation 14 - Using JWST to search for Planetary Sculptors in an ALMA-Selected Sample of Debris Disks

Special Requirements

No Parallel Attachments

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

Proposal 2538 - Observation 15 - Using JWST to search for Planetary Sculptors in an ALMA-Selected Sample of Debris Disks

Tue Oct 17 21:02:10 GMT 2023

Observation	Proposal 2538, Observation 15: Background-PSF-HD21997 Diagnostic Status: Warning Observing Template: MIRI Coronagraphic Imaging Background Observation For: [PSF-HD21997 (Obs 14)]												
	(Visit 15:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.												
Fixed Targets	#	Name	Target Coordinates				Targ. Coord. Corrections			Miscellaneous			
	(12)	BKG-PSF-HD21997	RA: 03 35 3.0000 (53.7625000d) Dec: -25 35 13.00 (-25.58694d) Equinox: J2000										
<i>Comments:</i> Category=Calibration Description= Coronagraphic, Photometric													
Acquisition	#	Target											
	1	NONE											
Template	AcqFilter	Repeat observation					Background Quadrant						
		YES					1						
Dithers	#	Dither Type											
	1	BACKGROUND											
Spectral Elements	#	Coron Mask/Filter	Subarray	Mask	Filter	Readout Pattern	Groups/Int	Integrations/E xp	Exposures/Dit h	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
	1	4QPM/F1140C	MASK1140	4QPM	F1140C	FASTR1	623	4	1	2	8	1196.003	155662
PSF References	Additional Justification: false												

Proposal 2538 - Observation 15 - Using JWST to search for Planetary Sculptors in an ALMA-Selected Sample of Debris Disks

Special Requirements

No Parallel Attachments

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

Proposal 2538 - Observation 111 - Using JWST to search for Planetary Sculptors in an ALMA-Selected Sample of Debris Disks

Tue Oct 17 21:02:10 GMT 2023

Observation	Proposal 2538, Observation 111: Background-HD21997 Diagnostic Status: Warning Observing Template: MIRI Coronagraphic Imaging Background Observation For: [HD21997-roll1 (Obs 112), HD21997-roll2 (Obs 113)]												
	(Visit 111:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.												
Diagnosics													
Fixed Targets	#	Name	Target Coordinates				Targ. Coord. Corrections			Miscellaneous			
	(9)	BKG-HD21997	RA: 03 31 41.5000 (52.9229167d) Dec: -25 36 48.00 (-25.61333d) Equinox: J2000										
<i>Comments:</i> Category=Calibration Description=[Coronagraphic, Photometric]													
Acquisition	#	Target											
	1	NONE											
Template	AcqFilter	Repeat observation					Background Quadrant						
		YES					1						
Dithers	#	Dither Type											
	1	BACKGROUND											
Spectral Elements	#	Coron Mask/Filter	Subarray	Mask	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Exposures/Dith	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
	1	4QPM/F1140C	MASK1140	4QPM	F1140C	FASTR1	1251	12	1	2	24	7201.425	155662
PSF References	Additional Justification: false												

Proposal 2538 - Observation 111 - Using JWST to search for Planetary Sculptors in an ALMA-Selected Sample of Debris Disks

Special Requirements

No Parallel Attachments

Sequence Observations 111, 112, 113, 114, 115, Non-interruptible

Proposal 2538 - Observation 112 - Using JWST to search for Planetary Sculptors in an ALMA-Selected Sample of Debris Disks

Tue Oct 17 21:02:10 GMT 2023

Observation	Proposal 2538, Observation 112: HD21997-roll1 Diagnostic Status: Warning Observing Template: MIRI Coronagraphic Imaging Background Observations:[Background-HD21997 (Obs 111), HD21997-roll2 (Obs 113)]																																					
	(HD21997-roll1 (Obs 112)) Warning (Form): PSF Reference observations should be SEQ NON-INT. (HD21997-roll1 (Obs 112)) Warning (Form): The order of link [PA Offset 112 from 113] combined with the order of the SEQ NON-INT reduces scheduling flexibility. (Visit 112:1) Warning (Form): Overheads are provisional until the Visit Planner has been run. (HD21997-roll1 (Obs 112)) Informational (Form): The Visit Planner and Spike may produce different schedulability results.																																					
Fixed Targets	<table border="1"> <thead> <tr> <th>#</th> <th>Name</th> <th colspan="3">Target Coordinates</th> <th colspan="3">Targ. Coord. Corrections</th> <th colspan="4">Miscellaneous</th> </tr> </thead> <tbody> <tr> <td>(3)</td> <td>HD21997</td> <td colspan="3">RA: 03 31 53.7089 (52.9737871d) Dec: -25 36 51.17 (-25.61421d) Equinox: J2000</td> <td colspan="3">Proper Motion RA: 0.003992198789777471 sec of time/yr Proper Motion Dec: -0.01494200009801716 arcsec/yr Epoch of Position: 2015.5</td> <td colspan="4"></td> </tr> </tbody> </table> <p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> Category=Star Description=[A stars]</p>												#	Name	Target Coordinates			Targ. Coord. Corrections			Miscellaneous				(3)	HD21997	RA: 03 31 53.7089 (52.9737871d) Dec: -25 36 51.17 (-25.61421d) Equinox: J2000			Proper Motion RA: 0.003992198789777471 sec of time/yr Proper Motion Dec: -0.01494200009801716 arcsec/yr Epoch of Position: 2015.5								
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Dithers	#																																					
	1 Dither Type: NONE																																					
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1	4QPM/F1140C	MASK1140	4QPM	F1140C	FASTR1	1251	12	1	1	12	3600.713	155662																										
PSF References	PSF-HD21997 (Obs 14) (PSF Reference; Filters [F1140C])																																					
	Additional Justification: false																																					

Proposal 2538 - Observation 112 - Using JWST to search for Planetary Sculptors in an ALMA-Selected Sample of Debris Disks

Special Requirements

No Parallel Attachments

Sequence Observations 111, 112, 113, 114, 115, Non-interruptible

Aperture PA Offset 112 from 113 by 10 to 14 Degrees (Same offsets in V3)

Proposal 2538 - Observation 113 - Using JWST to search for Planetary Sculptors in an ALMA-Selected Sample of Debris Disks

Tue Oct 17 21:02:10 GMT 2023

Observation	Proposal 2538, Observation 113: HD21997-roll2 Diagnostic Status: Warning Observing Template: MIRI Coronagraphic Imaging Background Observations:[Background-HD21997 (Obs 111), HD21997-roll1 (Obs 112)]																																					
	(HD21997-roll2 (Obs 113)) Warning (Form): PSF Reference observations should be SEQ NON-INT. (HD21997-roll2 (Obs 113)) Warning (Form): The order of link [PA Offset 112 from 113] combined with the order of the SEQ NON-INT reduces scheduling flexibility. (Visit 113:1) Warning (Form): Overheads are provisional until the Visit Planner has been run. (HD21997-roll2 (Obs 113)) Informational (Form): The Visit Planner and Spike may produce different schedulability results.																																					
Fixed Targets	<table border="1"> <thead> <tr> <th>#</th> <th>Name</th> <th colspan="3">Target Coordinates</th> <th colspan="3">Targ. Coord. Corrections</th> <th colspan="4">Miscellaneous</th> </tr> </thead> <tbody> <tr> <td>(3)</td> <td>HD21997</td> <td colspan="3">RA: 03 31 53.7089 (52.9737871d) Dec: -25 36 51.17 (-25.61421d) Equinox: J2000</td> <td colspan="3">Proper Motion RA: 0.003992198789777471 sec of time/yr Proper Motion Dec: -0.01494200009801716 arcsec/yr Epoch of Position: 2015.5</td> <td colspan="4"></td> </tr> </tbody> </table> <p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> Category=Star Description=[A stars]</p>												#	Name	Target Coordinates			Targ. Coord. Corrections			Miscellaneous				(3)	HD21997	RA: 03 31 53.7089 (52.9737871d) Dec: -25 36 51.17 (-25.61421d) Equinox: J2000			Proper Motion RA: 0.003992198789777471 sec of time/yr Proper Motion Dec: -0.01494200009801716 arcsec/yr Epoch of Position: 2015.5								
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	#	Coron Mask/Filter	Subarray	Mask	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Exposures/Dith	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID																									
1	4QPM/F1140C	MASK1140	4QPM	F1140C	FASTR1	1251	12	1	1	12	3600.713	155662																										
PSF References	PSF-HD21997 (Obs 14) (PSF Reference; Filters [F1140C])																																					
	Additional Justification: false																																					

Proposal 2538 - Observation 113 - Using JWST to search for Planetary Sculptors in an ALMA-Selected Sample of Debris Disks

Special Requirements

No Parallel Attachments

Sequence Observations 111, 112, 113, 114, 115, Non-interruptible

Aperture PA Offset 112 from 113 by 10 to 14 Degrees (Same offsets in V3)

Proposal 2538 - Observation 114 - Using JWST to search for Planetary Sculptors in an ALMA-Selected Sample of Debris Disks

Tue Oct 17 21:02:10 GMT 2023

Observation	Proposal 2538, Observation 114: PSF-HD21997 Diagnostic Status: Warning Observing Template: MIRI Coronagraphic Imaging Background Observations:[Background-PSF-HD21997 (Obs 115)]																																					
	(Visit 114:1) 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 colspan="4">Targ. Coord. Corrections</th> <th colspan="5">Miscellaneous</th> </tr> </thead> <tbody> <tr> <td>(6)</td> <td>PSF-HD21997</td> <td>RA: 03 34 52.4646 (53.7186025d) Dec: -25 34 57.67 (-25.58269d) Equinox: J2000</td> <td colspan="4">Proper Motion RA: 0.0037901774017721126 sec of time/yr Proper Motion Dec: 0.03279 arcsec/yr Epoch of Position: 2015.5</td> <td colspan="5"></td> </tr> </tbody> </table> <p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> Category=Star Description=[K stars]</p>												#	Name	Target Coordinates	Targ. Coord. Corrections				Miscellaneous					(6)	PSF-HD21997	RA: 03 34 52.4646 (53.7186025d) Dec: -25 34 57.67 (-25.58269d) Equinox: J2000	Proper Motion RA: 0.0037901774017721126 sec of time/yr Proper Motion Dec: 0.03279 arcsec/yr Epoch of Position: 2015.5										
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#	Target	Filter	Quadrant	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID																													
1	SAME	FND	1	FAST	36	1	1	8.628	155662																													
Template	Repeat observation																																					
	NO																																					
Dithers	#																																					
	1 9-POINT-SMALL-GRID																																					
Spectral Elements	<table border="1"> <thead> <tr> <th>#</th> <th>Coron Mask/Filter</th> <th>Subarray</th> <th>Mask</th> <th>Filter</th> <th>Readout Pattern</th> <th>Groups/Int</th> <th>Integrations/Exp</th> <th>Exposures/Dith</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>4QPM/F1140C</td> <td>MASK1140</td> <td>4QPM</td> <td>F1140C</td> <td>FASTR1</td> <td>623</td> <td>4</td> <td>1</td> <td>9</td> <td>36</td> <td>5382.014</td> <td>155662</td> </tr> </tbody> </table>												#	Coron Mask/Filter	Subarray	Mask	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Exposures/Dith	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID	1	4QPM/F1140C	MASK1140	4QPM	F1140C	FASTR1	623	4	1	9	36	5382.014	155662
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1	4QPM/F1140C	MASK1140	4QPM	F1140C	FASTR1	623	4	1	9	36	5382.014	155662																										
PSF References	PSF Reference: true																																					

Proposal 2538 - Observation 114 - Using JWST to search for Planetary Sculptors in an ALMA-Selected Sample of Debris Disks

Special Requirements

No Parallel Attachments

Sequence Observations 111, 112, 113, 114, 115, Non-interruptible

Proposal 2538 - Observation 115 - Using JWST to search for Planetary Sculptors in an ALMA-Selected Sample of Debris Disks

Tue Oct 17 21:02:10 GMT 2023

Observation	Proposal 2538, Observation 115: Background-PSF-HD21997 Diagnostic Status: Warning Observing Template: MIRI Coronagraphic Imaging Background Observation For: [PSF-HD21997 (Obs 114)]												
	(Visit 115:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.												
Diagnosics													
Fixed Targets	#	Name	Target Coordinates				Targ. Coord. Corrections			Miscellaneous			
	(12)	BKG-PSF-HD21997	RA: 03 35 3.0000 (53.7625000d) Dec: -25 35 13.00 (-25.58694d) Equinox: J2000										
<i>Comments:</i> Category=Calibration Description=[Coronagraphic, Photometric]													
Acquisition	#	Target											
	1	NONE											
Template	AcqFilter	Repeat observation					Background Quadrant						
		YES					1						
Dithers	#	Dither Type											
	1	BACKGROUND											
Spectral Elements	#	Coron Mask/Filter	Subarray	Mask	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Exposures/Dith	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
	1	4QPM/F1140C	MASK1140	4QPM	F1140C	FASTR1	623	4	1	2	8	1196.003	155662
PSF References	Additional Justification: false												

Proposal 2538 - Observation 115 - Using JWST to search for Planetary Sculptors in an ALMA-Selected Sample of Debris Disks

Special Requirements

No Parallel Attachments

Sequence Observations 111, 112, 113, 114, 115, Non-interruptible