



3195 - Are M-Type asteroids the remnant core fragments of the planetesimals?

Cycle: 2, Proposal Category: GO

INVESTIGATORS

<i>Name</i>	<i>Institution</i>
Prof. Katherine de Kleer (PI)	California Institute of Technology
Prof. Bethany L. Ehlmann (CoI)	California Institute of Technology
Dr. Seth Andrew Jacobson (CoI)	Michigan State University

OBSERVATIONS

<i>Folder</i>	<i>Observation</i>	<i>Label</i>	<i>Observing Template</i>	<i>Science Target</i>
Observation Folder				
	1	MIRI MRS Holda	MIRI Medium Resolution Spectroscopy	(1) HOLDA
	51	MIRI MRS Holda	MIRI Medium Resolution Spectroscopy	(1) HOLDA
	101	MIRI MRS Holda Back ground	MIRI Medium Resolution Spectroscopy	(10) HOLDA-BKGD
	151	MIRI MRS Holda Back ground	MIRI Medium Resolution Spectroscopy	(10) HOLDA-BKGD
	2	MIRI MRS Alemannia	MIRI Medium Resolution Spectroscopy	(2) ALEMANNIA
	102	MIRI MRS Alemannia Background	MIRI Medium Resolution Spectroscopy	(11) ALEMANNIA-BKGD
	5	MIRI MRS Quintilla	MIRI Medium Resolution Spectroscopy	(3) QUINTILLA
	105	MIRI MRS Quintilla Background	MIRI Medium Resolution Spectroscopy	(12) QUINTILLA-BKGD
	6	MIRI MRS Ursina	MIRI Medium Resolution Spectroscopy	(4) URSINA
	106	MIRI MRS Ursina Background	MIRI Medium Resolution Spectroscopy	(13) URSINA-BKGD
	7	MIRI MRS Suevia	MIRI Medium Resolution Spectroscopy	(5) SUEVIA
	107	MIRI MRS Suevia Background	MIRI Medium Resolution Spectroscopy	(14) SUEVIA-BKGD

<i>Folder</i>	<i>Observation</i>	<i>Label</i>	<i>Observing Template</i>	<i>Science Target</i>
	8	MIRI MRS Botolphia	MIRI Medium Resolution Spectroscopy	(6) BOTOLPHIA
	108	MIRI MRS Botolphia Background	MIRI Medium Resolution Spectroscopy	(15) BOTOLPHIA-BKGD
	9	MIRI MRS Biarmia	MIRI Medium Resolution Spectroscopy	(8) BIARMIA
	109	MIRI MRS Biarmia Background	MIRI Medium Resolution Spectroscopy	(17) BIARMIA-BKGD
	4	MIRI MRS Magoeba	MIRI Medium Resolution Spectroscopy	(9) MAGOEBA
	104	MIRI MRS Magoeba Background	MIRI Medium Resolution Spectroscopy	(18) MAGOEBA-BKGD
	10	MIRI MRS Stroobantia	MIRI Medium Resolution Spectroscopy	(7) STROOBANTIA
	110	MIRI MRS Stroobantia Background	MIRI Medium Resolution Spectroscopy	(16) STROOBANTIA-BKGD
	59	MIRI MRS Biarmia	MIRI Medium Resolution Spectroscopy	(8) BIARMIA
	159	MIRI MRS Biarmia Background	MIRI Medium Resolution Spectroscopy	(17) BIARMIA-BKGD

ABSTRACT

The existence of iron and stony-iron meteorites, as well as our current understanding of planet formation, indicate that many of the early planetesimals must have been sufficiently heated to have undergone differentiation and core formation. The remnants of this process – the parent bodies of the iron meteorites - should be present in the asteroid belt in the form of large core and core/mantle fragments. The M-type asteroids have been hypothesized to represent such objects, but results the past decade continue to reveal that the reality is more complicated than this simple picture. The compositional information that can be obtained from the ground is limited because M-type asteroids are (by definition) lacking distinctive spectral features in the visible and near-infrared, and the diagnostic mid-IR bands are blocked by telluric absorptions. We propose to obtain 5-28 micron spectra of a representative set of M-type with MIRI/MRS; numerous diagnostic spectral features are present in this range that will differentiate between the candidate hypotheses for the surface mineralogy of these bodies and identify the best spectral match with meteorite classes. The proposed program will address the outstanding question of the composition of the M-type asteroids and whether they are the parent bodies of the iron meteorites.

OBSERVING DESCRIPTION

We will obtain 5-28 micron spectra of nine M-Type asteroids using the MIRI/MRS instrument over all spectral channels, in order to determine their mineralogical make-up and their closest spectroscopic match among the meteorite classes. This study will reveal whether any subset of the M class is

spectrally similar to iron and stony-iron meteorites, and will shed light on the range of true compositions hidden behind dark featureless vis-NIR spectra.

Proposal 3195 - Targets - Are M-Type asteroids the remnant core fragments of the planetesimals?

#	Name	Level 1	Level 2	Level 3
(1)	HOLDA	TYPE=ASTEROID,A=2.732547321428403,E=0.0800 6482662309454,I=7.370025266435508 .O=194.7581423004134,W=17.74971064288761,M=2 95.3253870885155,EQUINOX=J2000,EPOCH=02- SEP-2015:00:00:00,EpochTimeScale=TDB		
<i>Comments: Extended=NO</i>				
(2)	ALEMANNIA	TYPE=ASTEROID,A=2.594589394093831,E=0.1182 36912274843,I=6.813677187883187 .O=248.9095959085321,W=126.6028784461994,M=1 33.7731785043608,EQUINOX=J2000,EPOCH=08- JUN-2015:00:00:00,EpochTimeScale=TDB		
<i>Comments: Extended=NO</i>				
(3)	QUINTILLA	TYPE=ASTEROID,A=3.183468484537089,E=0.1385 76558397723,I=3.239657942226262 .O=176.7182068990238,W=43.13609396927108,M=2 97.8437644849384,EQUINOX=J2000,EPOCH=14- OCT-2014:00:00:00,EpochTimeScale=TDB		
<i>Comments: Extended=NO</i>				
(4)	URSINA	TYPE=ASTEROID,A=2.795439177474047,E=0.1064 713843956609,I=13.32127429862965 .O=309.4600487450747,W=19.79916813202437,M=6 8.69305230438636,EQUINOX=J2000,EPOCH=25- MAR-2014:00:00:00,EpochTimeScale=TDB		
<i>Comments: Extended=NO</i>				
(5)	SUEVIA	TYPE=ASTEROID,A=2.80028997644555,E=0.13475 39379797723,I=6.647542135702428 .O=199.5365264717026,W=349.2095776983517,M=1 07.3767141559413,EQUINOX=J2000,EPOCH=17- JUL-2014:00:00:00,EpochTimeScale=TDB		
<i>Comments: Extended=NO</i>				
(6)	BOTOLPHIA	TYPE=ASTEROID,A=2.718906744586502,E=0.0702 542583457323,I=8.414779187097556 .O=100.7840279200813,W=62.98913815064985,M=2 24.653001397839,EQUINOX=J2000,EPOCH=17- OCT-2014:00:00:00,EpochTimeScale=TDB		
<i>Comments: Extended=NO</i>				
(7)	STROOBANTIA	TYPE=ASTEROID,A=2.925835343746621,E=0.0327 0466819845383,I=7.78699724180235 .O=22.32262091870075,W=262.7758406579853,M=1 46.022170211183,EQUINOX=J2000,EPOCH=28- OCT-2014:00:00:00,EpochTimeScale=TDB		
<i>Comments: Extended=NO</i>				
(8)	BIARMIA	TYPE=ASTEROID,A=3.046112871188259,E=0.2545 565111254665,I=17.06298321450888 .O=213.8902044639836,W=63.87575832438802,M=5 3.41695471973095,EQUINOX=J2000,EPOCH=29- SEP-2015:00:00:00,EpochTimeScale=TDB		
<i>Comments: Extended=NO</i>				
(9)	MAGOEBA	TYPE=ASTEROID,A=1.85349616405902,E=0.04470 926121874684,I=22.82594447964681 .O=225.2572185912489,W=340.1342796554532,M=8. 262917555957364,EQUINOX=J2000,EPOCH=04- JAN-2016:00:00:00,EpochTimeScale=TDB		
<i>Comments: Extended=NO</i>				

Proposal 3195 - Targets - Are M-Type asteroids the remnant core fragments of the planetesimals?

(10)	HOLDA-BKGD	TYPE=ASTEROID,A=2.732547321428403,E=0.0800 6482662309454,I=7.370025266435508 .O=194.7581423004134,W=17.74971064288761,M=2 95.3253870885155,EQUINOX=J2000,EPOCH=02- SEP-2015:00:00:00,EpochTimeScale=TDB	TYPE=POS_ANGLE,RAD=90,ANG=0,REF=NORTH
<i>Comments: Extended=YES</i>			
(11)	ALEMANNIA-BKGD	TYPE=ASTEROID,A=2.594589394093831,E=0.1182 36912274843,I=6.813677187883187 .O=248.9095959085321,W=126.6028784461994,M=1 33.7731785043608,EQUINOX=J2000,EPOCH=08- JUN-2015:00:00:00,EpochTimeScale=TDB	TYPE=POS_ANGLE,RAD=90,ANG=0,REF=NORTH
<i>Comments: Extended=YES</i>			
(12)	QUINTILLA-BKGD	TYPE=ASTEROID,A=3.183468484537089,E=0.1385 76558397723,I=3.239657942226262 .O=176.7182068990238,W=43.13609396927108,M=2 97.8437644849384,EQUINOX=J2000,EPOCH=14- OCT-2014:00:00:00,EpochTimeScale=TDB	TYPE=POS_ANGLE,RAD=90,ANG=0,REF=NORTH
<i>Comments: Extended=YES</i>			
(13)	URSINA-BKGD	TYPE=ASTEROID,A=2.795439177474047,E=0.1064 713843956609,I=13.32127429862965 .O=309.4600487450747,W=19.79916813202437,M=6 8.69305230438636,EQUINOX=J2000,EPOCH=25- MAR-2014:00:00:00,EpochTimeScale=TDB	TYPE=POS_ANGLE,RAD=90,ANG=0,REF=NORTH
<i>Comments: Extended=YES</i>			
(14)	SUEVIA-BKGD	TYPE=ASTEROID,A=2.80028997644555,E=0.13475 39379797723,I=6.647542135702428 .O=199.5365264717026,W=349.2095776983517,M=1 07.3767141559413,EQUINOX=J2000,EPOCH=17- JUL-2014:00:00:00,EpochTimeScale=TDB	TYPE=POS_ANGLE,RAD=90,ANG=0,REF=NORTH
<i>Comments: Extended=YES</i>			
(15)	BOTOLPHIA-BKGD	TYPE=ASTEROID,A=2.718906744586502,E=0.0702 542583457323,I=8.414779187097556 .O=100.7840279200813,W=62.98913815064985,M=2 24.653001397839,EQUINOX=J2000,EPOCH=17- OCT-2014:00:00:00,EpochTimeScale=TDB	TYPE=POS_ANGLE,RAD=90,ANG=0,REF=NORTH
<i>Comments: Extended=YES</i>			
(16)	STROOBANTIA-BKGD	TYPE=ASTEROID,A=2.925835343746621,E=0.0327 0466819845383,I=7.78699724180235 .O=22.32262091870075,W=262.7758406579853,M=1 46.022170211183,EQUINOX=J2000,EPOCH=28- OCT-2014:00:00:00,EpochTimeScale=TDB	TYPE=POS_ANGLE,RAD=90,ANG=0,REF=NORTH
<i>Comments: Extended=YES</i>			
(17)	BIARMIA-BKGD	TYPE=ASTEROID,A=3.046112871188259,E=0.2545 565111254665,I=17.06298321450888 .O=213.8902044639836,W=63.87575832438802,M=5 3.41695471973095,EQUINOX=J2000,EPOCH=29- SEP-2015:00:00:00,EpochTimeScale=TDB	TYPE=POS_ANGLE,RAD=90,ANG=0,REF=NORTH
<i>Comments: Extended=YES</i>			
(18)	MAGOEBA-BKGD	TYPE=ASTEROID,A=1.85349616405902,E=0.04470 926121874684,I=22.82594447964681 .O=225.2572185912489,W=340.1342796554532,M=8. 262917555957364,EQUINOX=J2000,EPOCH=04- JAN-2016:00:00:00,EpochTimeScale=TDB	TYPE=POS_ANGLE,RAD=90,ANG=0,REF=NORTH
<i>Comments: Extended=YES</i>			

Proposal 3195 - Observation 1 - Are M-Type asteroids the remnant core fragments of the planetesimals?

Thu Jan 30 01:00:10 GMT 2025

Observation	Proposal 3195, Observation 1: MIRI MRS Holda Diagnostic Status: Warning Observing Template: MIRI Medium Resolution Spectroscopy Background Observations:[MIRI MRS Holda Background (Obs 101)]												
	(MIRI MRS Holda (Obs 1)) Warning (Form): The science and background exposures are not consistent and may result in non-optimal science output. (Visit 1:1) Warning (Form): Overheads are provisional until the Visit Planner has been run. (MIRI MRS Holda (Obs 1)) Informational (Form): The Visit Planner and Spike may produce different schedulability results.												
Diagnosics													
Solar System Targets	#	Name	Level 1				Level 2				Level 3		
	(1)	HOLDA	TYPE=ASTEROID,A=2.732547321428403,E=0.0800 6482662309454,I=7.370025266435508 .O=194.7581423004134,W=17.74971064288761,M=2 95.3253870885155,EQUINOX=J2000,EPOCH=02- SEP-2015:00:00:00,EpochTimeScale=TDB										
Comments: 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				POINT 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	5	16	1	Dither 1	4	64	1054.515	
	1	SHORT(A)	MRSLONG		FASTR1	5	16	1	Dither 1	4	64	1054.515	
	1	SHORT(A)	MRSSHORT		FASTR1	5	16	1	Dither 1	4	64	1054.515	144643.6
	2		IMAGER	F560W	FASTR1	5	16	1	Dither 1	4	64	1054.515	
	2	MEDIUM(B)	MRSLONG		FASTR1	5	16	1	Dither 1	4	64	1054.515	
	2	MEDIUM(B)	MRSSHORT		FASTR1	5	16	1	Dither 1	4	64	1054.515	
	3		IMAGER	F560W	FASTR1	5	16	1	Dither 1	4	64	1054.515	
	3	LONG(C)	MRSLONG		FASTR1	5	16	1	Dither 1	4	64	1054.515	
	3	LONG(C)	MRSSHORT		FASTR1	5	16	1	Dither 1	4	64	1054.515	

Proposal 3195 - Observation 1 - Are M-Type asteroids the remnant core fragments of the planetesimals?

Special Requirements

No Parallel Attachments

Sequence Observations 1, 101, Non-interruptible

DEFAULT WINDOW: ANGULAR RATE HOLDA FROM JWST LESS THAN 0.075

Proposal 3195 - Observation 51 - Are M-Type asteroids the remnant core fragments of the planetesimals?

Thu Jan 30 01:00:10 GMT 2025

Observation	Proposal 3195, Observation 51: MIRI MRS Holda Diagnostic Status: Warning Observing Template: MIRI Medium Resolution Spectroscopy Background Observations:[MIRI MRS Holda Background (Obs 151)]												
	(MIRI MRS Holda (Obs 51)) Warning (Form): The science and background exposures are not consistent and may result in non-optimal science output. (Visit 51:1) Warning (Form): Overheads are provisional until the Visit Planner has been run. (MIRI MRS Holda (Obs 51)) Informational (Form): The Visit Planner and Spike may produce different schedulability results.												
Diagnostics													
Solar System Targets	#	Name	Level 1				Level 2				Level 3		
	(1)	HOLDA	TYPE=ASTEROID,A=2.732547321428403,E=0.0800 6482662309454,I=7.370025266435508 ,O=194.7581423004134,W=17.74971064288761,M=2 95.3253870885155,EQUINOX=J2000,EPOCH=02- SEP-2015:00:00:00,EpochTimeScale=TDB Comments: Extended=NO										
Acquisition	#											Target	
	1											NONE	
Template	AcqFilter	Primary Channel				Simultaneous Imaging				Imager Subarray		Grating Wheel Direction	
		All MRS				YES				FULL		Disallow Auto Reorder	
Dithers	#	Dither Type				Optimized For				Direction			
	1	4-Point				POINT 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	5	16	1	Dither 1	4	64	1054.515	
	1	SHORT(A)	MRSLONG		FASTR1	5	16	1	Dither 1	4	64	1054.515	
	1	SHORT(A)	MRSSHORT		FASTR1	5	16	1	Dither 1	4	64	1054.515	144643.6
	2		IMAGER	F560W	FASTR1	5	16	1	Dither 1	4	64	1054.515	
	2	MEDIUM(B)	MRSLONG		FASTR1	5	16	1	Dither 1	4	64	1054.515	
	2	MEDIUM(B)	MRSSHORT		FASTR1	5	16	1	Dither 1	4	64	1054.515	
	3		IMAGER	F560W	FASTR1	5	16	1	Dither 1	4	64	1054.515	
	3	LONG(C)	MRSLONG		FASTR1	5	16	1	Dither 1	4	64	1054.515	
	3	LONG(C)	MRSSHORT		FASTR1	5	16	1	Dither 1	4	64	1054.515	

Proposal 3195 - Observation 51 - Are M-Type asteroids the remnant core fragments of the planetesimals?

Special Requirements

No Parallel Attachments

Sequence Observations 51, 151, Non-interruptible

DEFAULT WINDOW: ANGULAR RATE HOLDA FROM JWST LESS THAN 0.075

Proposal 3195 - Observation 101 - Are M-Type asteroids the remnant core fragments of the planetesimals?

Thu Jan 30 01:00:10 GMT 2025

Observation	Proposal 3195, Observation 101: MIRI MRS Holda Background Diagnostic Status: Warning Observing Template: MIRI Medium Resolution Spectroscopy Background Observation For: [MIRI MRS Holda (Obs 1)]												
	(Visit 101:1) Warning (Form): Overheads are provisional until the Visit Planner has been run. (MIRI MRS Holda Background (Obs 101)) Informational (Form): The Visit Planner and Spike may produce different schedulability results.												
Diagnosics													
Solar System Targets	#	Name	Level 1				Level 2				Level 3		
	(10)	HOLDA-BKGD	TYPE=ASTEROID,A=2.732547321428403,E=0.0800 6482662309454,I=7.370025266435508 ,O=194.7581423004134,W=17.74971064288761,M=2 95.3253870885155,EQUINOX=J2000,EPOCH=02- SEP-2015:00:00:00,EpochTimeScale=TDB Comments: Extended=YES				TYPE=POS_ANGLE,RAD=90,ANG=0,REF=NORTH						
Acquisition	#											Target	
	1											NONE	
Template	AcqFilter	Primary Channel				Simultaneous Imaging				Imager Subarray		Grating Wheel Direction	
		All MRS				NO				FULL		Allow Auto Reorder	
Dithers	#	Dither Type				Optimized For				Direction			
	1	4-Point				POINT SOURCE				NEGATIVE			
Spectral Elements	#	Wavelength Range	Detector	Filter	Readout Pattern	Groups/Int	Integrations/E xp	Exposures/Dit h	Dither	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
	1	SHORT(A)	MRSLONG		FASTR1	5	1	1	None	1	1	13.875	
	1	SHORT(A)	MRSSHORT		FASTR1	5	1	1	None	1	1	13.875	
	2	MEDIUM(B)	MRSLONG		FASTR1	5	1	1	None	1	1	13.875	
	2	MEDIUM(B)	MRSSHORT		FASTR1	5	1	1	None	1	1	13.875	
	3	LONG(C)	MRSLONG		FASTR1	5	1	1	None	1	1	13.875	
	3	LONG(C)	MRSSHORT		FASTR1	5	1	1	None	1	1	13.875	

Proposal 3195 - Observation 101 - Are M-Type asteroids the remnant core fragments of the planetesimals?

Special Requirements

No Parallel Attachments

Sequence Observations 1, 101, Non-interruptible

DEFAULT WINDOW: ANGULAR RATE HOLDA-BKGD FROM JWST LESS THAN 0.075

Proposal 3195 - Observation 151 - Are M-Type asteroids the remnant core fragments of the planetesimals?

Thu Jan 30 01:00:10 GMT 2025

Observation	Proposal 3195, Observation 151: MIRI MRS Holda Background Diagnostic Status: Warning Observing Template: MIRI Medium Resolution Spectroscopy Background Observation For: [MIRI MRS Holda (Obs 51)]												
	(Visit 151:1) Warning (Form): Overheads are provisional until the Visit Planner has been run. (MIRI MRS Holda Background (Obs 151)) Informational (Form): The Visit Planner and Spike may produce different schedulability results.												
Solar System Targets	#	Name	Level 1				Level 2				Level 3		
	(10)	HOLDA-BKGD	TYPE=ASTEROID,A=2.732547321428403,E=0.0800 6482662309454,I=7.370025266435508 ,O=194.7581423004134,W=17.74971064288761,M=2 95.3253870885155,EQUINOX=J2000,EPOCH=02- SEP-2015:00:00:00,EpochTimeScale=TDB <i>Comments: Extended=YES</i>				TYPE=POS_ANGLE,RAD=90,ANG=0,REF=NORTH						
Acquisition	#											Target	
	1											NONE	
Template	AcqFilter	Primary Channel			Simultaneous Imaging			Imager Subarray		Grating Wheel Direction			
		All MRS			NO			FULL		Disallow Auto Reorder			
Dithers	#	Dither Type				Optimized For				Direction			
	1	4-Point				POINT SOURCE				NEGATIVE			
Spectral Elements	#	Wavelength Range	Detector	Filter	Readout Pattern	Groups/Int	Integrations/E xp	Exposures/Dit h	Dither	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
	1	SHORT(A)	MRSLONG		FASTR1	5	1	1	None	1	1	13.875	
	1	SHORT(A)	MRSSHORT		FASTR1	5	1	1	None	1	1	13.875	
	2	MEDIUM(B)	MRSLONG		FASTR1	5	1	1	None	1	1	13.875	
	2	MEDIUM(B)	MRSSHORT		FASTR1	5	1	1	None	1	1	13.875	
	3	LONG(C)	MRSLONG		FASTR1	5	1	1	None	1	1	13.875	
	3	LONG(C)	MRSSHORT		FASTR1	5	1	1	None	1	1	13.875	

Proposal 3195 - Observation 151 - Are M-Type asteroids the remnant core fragments of the planetesimals?

Special Requirements

No Parallel Attachments

Sequence Observations 51, 151, Non-interruptible

DEFAULT WINDOW: ANGULAR RATE HOLDA-BKGD FROM JWST LESS THAN 0.075

Proposal 3195 - Observation 2 - Are M-Type asteroids the remnant core fragments of the planetesimals?

Thu Jan 30 01:00:10 GMT 2025

Observation	Proposal 3195, Observation 2: MIRI MRS Alemannia Diagnostic Status: Warning Observing Template: MIRI Medium Resolution Spectroscopy Background Observations:[MIRI MRS Alemannia Background (Obs 102)]												
	(MIRI MRS Alemannia (Obs 2)) Warning (Form): The science and background exposures are not consistent and may result in non-optimal science output. (Visit 2:1) Warning (Form): Overheads are provisional until the Visit Planner has been run. (MIRI MRS Alemannia (Obs 2)) Informational (Form): The Visit Planner and Spike may produce different schedulability results.												
Diagnostics													
Solar System Targets	#	Name	Level 1			Level 2			Level 3				
	(2)	ALEMANNIA	TYPE=ASTEROID,A=2.594589394093831,E=0.1182 36912274843,I=6.813677187883187 .O=248.9095959085321,W=126.6028784461994,M=1 33.7731785043608,EQUINOX=J2000,EPOCH=08- JUN-2015:00:00:00,EpochTimeScale=TDB										
Comments: Extended=NO													
Acquisition	#	Target											
	1	NONE											
Template	AcqFilter	Primary Channel			Simultaneous Imaging			Imager Subarray		Grating Wheel Direction			
	F560W	All MRS			YES			FULL		Allow Auto Reorder			
Dithers	#	Dither Type			Optimized For			Direction					
	1	4-Point			POINT 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	5	4	1	Dither 1	4	16	255.304	144643.16
	1	SHORT(A)	MRSLONG		FASTR1	5	4	1	Dither 1	4	16	255.304	
	1	SHORT(A)	MRSSHORT		FASTR1	5	4	1	Dither 1	4	16	255.304	144643.7
	2		IMAGER	F560W	FASTR1	5	4	1	Dither 1	4	16	255.304	144643.16
	2	MEDIUM(B)	MRSLONG		FASTR1	5	4	1	Dither 1	4	16	255.304	
	2	MEDIUM(B)	MRSSHORT		FASTR1	5	4	1	Dither 1	4	16	255.304	
	3		IMAGER	F560W	FASTR1	5	4	1	Dither 1	4	16	255.304	144643.16
	3	LONG(C)	MRSLONG		FASTR1	5	4	1	Dither 1	4	16	255.304	
	3	LONG(C)	MRSSHORT		FASTR1	5	4	1	Dither 1	4	16	255.304	

Proposal 3195 - Observation 2 - Are M-Type asteroids the remnant core fragments of the planetesimals?

Special Requirements

No Parallel Attachments

Sequence Observations 2, 102, Non-interruptible

DEFAULT WINDOW: ANGULAR RATE ALEMANNIA FROM JWST LESS THAN 0.075

Proposal 3195 - Observation 102 - Are M-Type asteroids the remnant core fragments of the planetesimals?

Thu Jan 30 01:00:10 GMT 2025

Observation	Proposal 3195, Observation 102: MIRI MRS Alemannia Background Diagnostic Status: Warning Observing Template: MIRI Medium Resolution Spectroscopy Background Observation For: [MIRI MRS Alemannia (Obs 2)]												
	(Visit 102:1) Warning (Form): Overheads are provisional until the Visit Planner has been run. (MIRI MRS Alemannia Background (Obs 102)) Informational (Form): The Visit Planner and Spike may produce different schedulability results.												
Diagnosics													
Solar System Targets	#	Name	Level 1				Level 2				Level 3		
	(11)	ALEMANNIA-BKGD	TYPE=ASTEROID,A=2.594589394093831,E=0.1182 36912274843,I=6.813677187883187 ,O=248.9095959085321,W=126.6028784461994,M=1 33.7731785043608,EQUINOX=J2000,EPOCH=08- JUN-2015:00:00:00,EpochTimeScale=TDB <i>Comments: Extended=YES</i>				TYPE=POS_ANGLE,RAD=90,ANG=0,REF=NORTH						
Acquisition	#											Target	
	1											NONE	
Template	AcqFilter	Primary Channel			Simultaneous Imaging			Imager Subarray		Grating Wheel Direction			
		All MRS			NO			FULL		Allow Auto Reorder			
Dithers	#	Dither Type				Optimized For				Direction			
	1	4-Point				POINT SOURCE				NEGATIVE			
Spectral Elements	#	Wavelength Range	Detector	Filter	Readout Pattern	Groups/Int	Integrations/E xp	Exposures/Dit h	Dither	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
	1	SHORT(A)	MRSLONG		FASTR1	5	1	1	None	1	1	13.875	
	1	SHORT(A)	MRSSHORT		FASTR1	5	1	1	None	1	1	13.875	
	2	MEDIUM(B)	MRSLONG		FASTR1	5	1	1	None	1	1	13.875	
	2	MEDIUM(B)	MRSSHORT		FASTR1	5	1	1	None	1	1	13.875	
	3	LONG(C)	MRSLONG		FASTR1	5	1	1	None	1	1	13.875	
	3	LONG(C)	MRSSHORT		FASTR1	5	1	1	None	1	1	13.875	

Proposal 3195 - Observation 102 - Are M-Type asteroids the remnant core fragments of the planetesimals?

Special Requirements

No Parallel Attachments

Sequence Observations 2, 102, Non-interruptible

DEFAULT WINDOW: ANGULAR RATE ALEMANNIA-BKGD FROM JWST LESS THAN 0.075

Proposal 3195 - Observation 5 - Are M-Type asteroids the remnant core fragments of the planetesimals?

Thu Jan 30 01:00:10 GMT 2025

Observation	Proposal 3195, Observation 5: MIRI MRS Quintilla Diagnostic Status: Warning Observing Template: MIRI Medium Resolution Spectroscopy Background Observations:[MIRI MRS Quintilla Background (Obs 105)]												
	(MIRI MRS Quintilla (Obs 5)) Warning (Form): The science and background exposures are not consistent and may result in non-optimal science output. (Visit 5:1) Warning (Form): Overheads are provisional until the Visit Planner has been run. (MIRI MRS Quintilla (Obs 5)) Informational (Form): The Visit Planner and Spike may produce different schedulability results.												
Diagnostics													
Solar System Targets	#	Name	Level 1				Level 2				Level 3		
	(3)	QUINTILLA	TYPE=ASTEROID,A=3.183468484537089,E=0.138576558397723,I=3.239657942226262,O=176.7182068990238,W=43.13609396927108,M=297.8437644849384,EQUINOX=J2000,EPOCH=14-OCT-2014:00:00:00,EpochTimeScale=TDB										
Comments: Extended=NO													
Acquisition	#	Target											
	1	NONE											
Template	AcqFilter	Primary Channel				Simultaneous Imaging			Imager Subarray		Grating Wheel Direction		
	F560W	All MRS				YES			FULL		Allow Auto Reorder		
Dithers	#	Dither Type				Optimized For				Direction			
	1	4-Point				POINT 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	5	20	1	Dither 1	4	80	1320.919	
	1	LONG(C)	MRSLONG		FASTR1	5	20	1	Dither 1	4	80	1320.919	
	1	LONG(C)	MRSSHORT		FASTR1	5	20	1	Dither 1	4	80	1320.919	
	2		IMAGER	F560W	FASTR1	5	20	1	Dither 1	4	80	1320.919	
	2	MEDIUM(B)	MRSLONG		FASTR1	5	20	1	Dither 1	4	80	1320.919	
	2	MEDIUM(B)	MRSSHORT		FASTR1	5	20	1	Dither 1	4	80	1320.919	
	3		IMAGER	F560W	FASTR1	5	20	1	Dither 1	4	80	1320.919	
	3	SHORT(A)	MRSLONG		FASTR1	5	20	1	Dither 1	4	80	1320.919	
	3	SHORT(A)	MRSSHORT		FASTR1	5	20	1	Dither 1	4	80	1320.919	144643.8

Proposal 3195 - Observation 5 - Are M-Type asteroids the remnant core fragments of the planetesimals?

Special Requirements

No Parallel Attachments

Sequence Observations 5, 105, Non-interruptible

DEFAULT WINDOW: ANGULAR RATE QUINTILLA FROM JWST LESS THAN 0.075

Proposal 3195 - Observation 105 - Are M-Type asteroids the remnant core fragments of the planetesimals?

Thu Jan 30 01:00:10 GMT 2025

Observation	Proposal 3195, Observation 105: MIRI MRS Quintilla Background Diagnostic Status: Warning Observing Template: MIRI Medium Resolution Spectroscopy Background Observation For: [MIRI MRS Quintilla (Obs 5)]												
	(Visit 105:1) Warning (Form): Overheads are provisional until the Visit Planner has been run. (MIRI MRS Quintilla Background (Obs 105)) Informational (Form): The Visit Planner and Spike may produce different schedulability results.												
Diagnosics													
Solar System Targets	#	Name	Level 1				Level 2				Level 3		
	(12)	QUINTILLA-BKGD	TYPE=ASTEROID,A=3.183468484537089,E=0.1385 76558397723,I=3.239657942226262 ,O=176.7182068990238,W=43.13609396927108,M=2 97.8437644849384,EQUINOX=J2000,EPOCH=14- OCT-2014:00:00:00,EpochTimeScale=TDB Comments: Extended=YES				TYPE=POS_ANGLE,RAD=90,ANG=0,REF=NORTH						
Acquisition	#											Target	
	1											NONE	
Template	AcqFilter	Primary Channel				Simultaneous Imaging				Imager Subarray		Grating Wheel Direction	
		All MRS				NO				FULL		Allow Auto Reorder	
Dithers	#	Dither Type				Optimized For				Direction			
	1	4-Point				POINT 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	LONG(C)	MRSLONG		FASTR1	5	1	1	None	1	1	13.875	
	1	LONG(C)	MRSSHORT		FASTR1	5	1	1	None	1	1	13.875	
	2	MEDIUM(B)	MRSLONG		FASTR1	5	1	1	None	1	1	13.875	
	2	MEDIUM(B)	MRSSHORT		FASTR1	5	1	1	None	1	1	13.875	
	3	SHORT(A)	MRSLONG		FASTR1	5	1	1	None	1	1	13.875	
	3	SHORT(A)	MRSSHORT		FASTR1	5	1	1	None	1	1	13.875	

Proposal 3195 - Observation 105 - Are M-Type asteroids the remnant core fragments of the planetesimals?

Special Requirements

No Parallel Attachments

Sequence Observations 5, 105, Non-interruptible

DEFAULT WINDOW: ANGULAR RATE QUINTILLA-BKGD FROM JWST LESS THAN 0.075

Proposal 3195 - Observation 6 - Are M-Type asteroids the remnant core fragments of the planetesimals?

Thu Jan 30 01:00:10 GMT 2025

Observation	Proposal 3195, Observation 6: MIRI MRS Ursina Diagnostic Status: Warning Observing Template: MIRI Medium Resolution Spectroscopy Background Observations:[MIRI MRS Ursina Background (Obs 106)]												
	(MIRI MRS Ursina (Obs 6)) Warning (Form): The science and background exposures are not consistent and may result in non-optimal science output. (Visit 6:1) Warning (Form): Overheads are provisional until the Visit Planner has been run. (MIRI MRS Ursina (Obs 6)) Informational (Form): The Visit Planner and Spike may produce different schedulability results.												
Solar System Targets	#	Name	Level 1				Level 2				Level 3		
	(4)	URSINA	TYPE=ASTEROID,A=2.795439177474047,E=0.1064 713843956609,I=13.32127429862965 ,O=309.4600487450747,W=19.79916813202437,M=6 8.69305230438636,EQUINOX=J2000,EPOCH=25- MAR-2014:00:00:00,EpochTimeScale=TDB Comments: Extended=NO										
Acquisition	#	Target											
	1	NONE											
Template	AcqFilter	Primary Channel				Simultaneous Imaging			Imager Subarray		Grating Wheel Direction		
	F560W	All MRS				YES			FULL		Allow Auto Reorder		
Dithers	#	Dither Type				Optimized For				Direction			
	1	4-Point				POINT 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	5	10	1	Dither 1	4	40	654.909	
	1	SHORT(A)	MRSLONG		FASTR1	5	10	1	Dither 1	4	40	654.909	
	1	SHORT(A)	MRSSHORT		FASTR1	5	10	1	Dither 1	4	40	654.909	144643.9
	2		IMAGER	F560W	FASTR1	5	10	1	Dither 1	4	40	654.909	
	2	MEDIUM(B)	MRSLONG		FASTR1	5	10	1	Dither 1	4	40	654.909	
	2	MEDIUM(B)	MRSSHORT		FASTR1	5	10	1	Dither 1	4	40	654.909	
	3		IMAGER	F560W	FASTR1	5	10	1	Dither 1	4	40	654.909	
	3	LONG(C)	MRSLONG		FASTR1	5	10	1	Dither 1	4	40	654.909	
	3	LONG(C)	MRSSHORT		FASTR1	5	10	1	Dither 1	4	40	654.909	

Proposal 3195 - Observation 6 - Are M-Type asteroids the remnant core fragments of the planetesimals?

Special Requirements

No Parallel Attachments

Sequence Observations 6, 106, Non-interruptible

DEFAULT WINDOW: ANGULAR RATE URSINA FROM JWST LESS THAN 0.075

Proposal 3195 - Observation 106 - Are M-Type asteroids the remnant core fragments of the planetesimals?

Thu Jan 30 01:00:10 GMT 2025

Observation	Proposal 3195, Observation 106: MIRI MRS Ursina Background Diagnostic Status: Warning Observing Template: MIRI Medium Resolution Spectroscopy Background Observation For: [MIRI MRS Ursina (Obs 6)]												
	(Visit 106:1) Warning (Form): Overheads are provisional until the Visit Planner has been run. (MIRI MRS Ursina Background (Obs 106)) Informational (Form): The Visit Planner and Spike may produce different schedulability results.												
Solar System Targets	#	Name	Level 1				Level 2				Level 3		
	(13)	URSINA-BKGD	TYPE=ASTEROID,A=2.795439177474047,E=0.1064 713843956609,I=13.32127429862965 ,O=309.4600487450747,W=19.79916813202437,M=6 8.69305230438636,EQUINOX=J2000,EPOCH=25- MAR-2014:00:00:00,EpochTimeScale=TDB <i>Comments: Extended=YES</i>				TYPE=POS_ANGLE,RAD=90,ANG=0,REF=NORTH						
Acquisition	#											Target	
	1											NONE	
Template	AcqFilter	Primary Channel				Simultaneous Imaging			Imager Subarray		Grating Wheel Direction		
		All MRS				NO			FULL		Allow Auto Reorder		
Dithers	#	Dither Type				Optimized For				Direction			
	1	4-Point				POINT SOURCE				NEGATIVE			
Spectral Elements	#	Wavelength Range	Detector	Filter	Readout Pattern	Groups/Int	Integrations/E xp	Exposures/Dit h	Dither	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
	1	SHORT(A)	MRSLONG		FASTR1	5	1	1	None	1	1	13.875	
	1	SHORT(A)	MRSSHORT		FASTR1	5	1	1	None	1	1	13.875	
	2	MEDIUM(B)	MRSLONG		FASTR1	5	1	1	None	1	1	13.875	
	2	MEDIUM(B)	MRSSHORT		FASTR1	5	1	1	None	1	1	13.875	
	3	LONG(C)	MRSLONG		FASTR1	5	1	1	None	1	1	13.875	
	3	LONG(C)	MRSSHORT		FASTR1	5	1	1	None	1	1	13.875	

Proposal 3195 - Observation 106 - Are M-Type asteroids the remnant core fragments of the planetesimals?

Special Requirements

No Parallel Attachments

Sequence Observations 6, 106, Non-interruptible

DEFAULT WINDOW: ANGULAR RATE URSINA-BKGD FROM JWST LESS THAN 0.075

Proposal 3195 - Observation 7 - Are M-Type asteroids the remnant core fragments of the planetesimals?

Thu Jan 30 01:00:10 GMT 2025

Observation	Proposal 3195, Observation 7: MIRI MRS Suevia Diagnostic Status: Warning Observing Template: MIRI Medium Resolution Spectroscopy Background Observations:[MIRI MRS Suevia Background (Obs 107)]												
	(MIRI MRS Suevia (Obs 7)) Warning (Form): The science and background exposures are not consistent and may result in non-optimal science output. (Visit 7:1) Warning (Form): Overheads are provisional until the Visit Planner has been run. (MIRI MRS Suevia (Obs 7)) Informational (Form): The Visit Planner and Spike may produce different schedulability results.												
Solar System Targets	#	Name	Level 1				Level 2				Level 3		
	(5)	SUEVIA	TYPE=ASTEROID,A=2.80028997644555,E=0.1347539379797723,I=6.647542135702428,O=199.5365264717026,W=349.2095776983517,M=107.3767141559413,EQUINOX=J2000,EPOCH=17-JUL-2014:00:00:00,EpochTimeScale=TDB										
Comments: Extended=NO													
Acquisition	#	Target											
	1	NONE											
Template	AcqFilter	Primary Channel				Simultaneous Imaging			Imager Subarray		Grating Wheel Direction		
	F560W	All MRS				YES			FULL		Allow Auto Reorder		
Dithers	#	Dither Type				Optimized For				Direction			
	1	4-Point				POINT 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	5	10	1	Dither 1	4	40	654.909	
	1	SHORT(A)	MRSLONG		FASTR1	5	10	1	Dither 1	4	40	654.909	144643.10
	1	SHORT(A)	MRSSHORT		FASTR1	5	10	1	Dither 1	4	40	654.909	
	2		IMAGER	F560W	FASTR1	5	10	1	Dither 1	4	40	654.909	
	2	MEDIUM(B)	MRSLONG		FASTR1	5	10	1	Dither 1	4	40	654.909	
	2	MEDIUM(B)	MRSSHORT		FASTR1	5	10	1	Dither 1	4	40	654.909	
	3		IMAGER	F560W	FASTR1	5	10	1	Dither 1	4	40	654.909	
	3	LONG(C)	MRSLONG		FASTR1	5	10	1	Dither 1	4	40	654.909	
	3	LONG(C)	MRSSHORT		FASTR1	5	10	1	Dither 1	4	40	654.909	

Proposal 3195 - Observation 7 - Are M-Type asteroids the remnant core fragments of the planetesimals?

Special Requirements

No Parallel Attachments

Sequence Observations 7, 107, Non-interruptible

DEFAULT WINDOW: ANGULAR RATE SUEVIA FROM JWST LESS THAN 0.075

Proposal 3195 - Observation 107 - Are M-Type asteroids the remnant core fragments of the planetesimals?

Thu Jan 30 01:00:10 GMT 2025

Observation	Proposal 3195, Observation 107: MIRI MRS Suevia Background Diagnostic Status: Warning Observing Template: MIRI Medium Resolution Spectroscopy Background Observation For: [MIRI MRS Suevia (Obs 7)]												
	(Visit 107:1) Warning (Form): Overheads are provisional until the Visit Planner has been run. (MIRI MRS Suevia Background (Obs 107)) Informational (Form): The Visit Planner and Spike may produce different schedulability results.												
Diagnosics													
Solar System Targets	#	Name	Level 1				Level 2				Level 3		
	(14)	SUEVIA-BKGD	TYPE=ASTEROID,A=2.80028997644555,E=0.13475 39379797723,I=6.647542135702428 ,O=199.5365264717026,W=349.2095776983517,M=1 07.3767141559413,EQUINOX=J2000,EPOCH=17- JUL-2014:00:00:00,EpochTimeScale=TDB Comments: Extended=YES				TYPE=POS_ANGLE,RAD=90,ANG=0,REF=NORTH						
Acquisition	#											Target	
	1											NONE	
Template	AcqFilter	Primary Channel			Simultaneous Imaging			Imager Subarray		Grating Wheel Direction			
		All MRS			NO			FULL		Allow Auto Reorder			
Dithers	#	Dither Type				Optimized For				Direction			
	1	4-Point				POINT SOURCE				NEGATIVE			
Spectral Elements	#	Wavelength Range	Detector	Filter	Readout Pattern	Groups/Int	Integrations/E xp	Exposures/Dit h	Dither	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
	1	SHORT(A)	MRSLONG		FASTR1	5	1	1	None	1	1	13.875	
	1	SHORT(A)	MRSSHORT		FASTR1	5	1	1	None	1	1	13.875	
	2	MEDIUM(B)	MRSLONG		FASTR1	5	1	1	None	1	1	13.875	
	2	MEDIUM(B)	MRSSHORT		FASTR1	5	1	1	None	1	1	13.875	
	3	LONG(C)	MRSLONG		FASTR1	5	1	1	None	1	1	13.875	
	3	LONG(C)	MRSSHORT		FASTR1	5	1	1	None	1	1	13.875	

Proposal 3195 - Observation 107 - Are M-Type asteroids the remnant core fragments of the planetesimals?

Special Requirements

No Parallel Attachments

Sequence Observations 7, 107, Non-interruptible

DEFAULT WINDOW: ANGULAR RATE SUEVIA-BKGD FROM JWST LESS THAN 0.075

Proposal 3195 - Observation 8 - Are M-Type asteroids the remnant core fragments of the planetesimals?

Thu Jan 30 01:00:10 GMT 2025

Observation	Proposal 3195, Observation 8: MIRI MRS Botolphia Diagnostic Status: Warning Observing Template: MIRI Medium Resolution Spectroscopy Background Observations:[MIRI MRS Botolphia Background (Obs 108)]												
	(MIRI MRS Botolphia (Obs 8)) Warning (Form): The science and background exposures are not consistent and may result in non-optimal science output. (Visit 8:1) Warning (Form): Overheads are provisional until the Visit Planner has been run. (MIRI MRS Botolphia (Obs 8)) Informational (Form): The Visit Planner and Spike may produce different schedulability results.												
Solar System Targets	#	Name	Level 1				Level 2				Level 3		
	(6)	BOTOLPHIA	TYPE=ASTEROID,A=2.718906744586502,E=0.0702 542583457323,I=8,414779187097556 ,O=100.7840279200813,W=62.98913815064985,M=2 24.653001397839,EQUINOX=J2000,EPOCH=17- OCT-2014:00:00:00,EpochTimeScale=TDB Comments: Extended=NO										
Acquisition	#											Target	
	1											NONE	
Template	AcqFilter	Primary Channel				Simultaneous Imaging				Imager Subarray		Grating Wheel Direction	
	F560W	All MRS				YES				FULL		Allow Auto Reorder	
Dithers	#	Dither Type				Optimized For				Direction			
	1	4-Point				POINT 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	5	4	1	Dither 1	4	16	255.304	
	1	SHORT(A)	MRSLONG		FASTR1	5	4	1	Dither 1	4	16	255.304	144643.11
	1	SHORT(A)	MRSSHORT		FASTR1	5	4	1	Dither 1	4	16	255.304	
	2		IMAGER	F560W	FASTR1	5	4	1	Dither 1	4	16	255.304	
	2	MEDIUM(B)	MRSLONG		FASTR1	5	4	1	Dither 1	4	16	255.304	
	2	MEDIUM(B)	MRSSHORT		FASTR1	5	4	1	Dither 1	4	16	255.304	
	3		IMAGER	F560W	FASTR1	5	4	1	Dither 1	4	16	255.304	
	3	LONG(C)	MRSLONG		FASTR1	5	4	1	Dither 1	4	16	255.304	
	3	LONG(C)	MRSSHORT		FASTR1	5	4	1	Dither 1	4	16	255.304	

Proposal 3195 - Observation 8 - Are M-Type asteroids the remnant core fragments of the planetesimals?

Special Requirements

No Parallel Attachments

Sequence Observations 8, 108, Non-interruptible

DEFAULT WINDOW: ANGULAR RATE BOTOLPHIA FROM JWST LESS THAN 0.075

Proposal 3195 - Observation 108 - Are M-Type asteroids the remnant core fragments of the planetesimals?

Thu Jan 30 01:00:10 GMT 2025

Observation	Proposal 3195, Observation 108: MIRI MRS Botolphia Background Diagnostic Status: Warning Observing Template: MIRI Medium Resolution Spectroscopy Background Observation For: [MIRI MRS Botolphia (Obs 8)]												
	(Visit 108:1) Warning (Form): Overheads are provisional until the Visit Planner has been run. (MIRI MRS Botolphia Background (Obs 108)) Informational (Form): The Visit Planner and Spike may produce different schedulability results.												
Diagnosics													
Solar System Targets	#	Name	Level 1				Level 2				Level 3		
	(15)	BOTOLPHIA-BKGD	TYPE=ASTEROID,A=2.718906744586502,E=0.0702 542583457323,I=8,414779187097556 ,O=100.7840279200813,W=62.98913815064985,M=2 24.653001397839,EQUINOX=J2000,EPOCH=17- OCT-2014:00:00:00,EpochTimeScale=TDB <i>Comments: Extended=YES</i>				TYPE=POS_ANGLE,RAD=90,ANG=0,REF=NORTH						
Acquisition	#											Target	
	1											NONE	
Template	AcqFilter	Primary Channel			Simultaneous Imaging			Imager Subarray		Grating Wheel Direction			
		All MRS			NO			FULL		Allow Auto Reorder			
Dithers	#	Dither Type				Optimized For				Direction			
	1	4-Point				POINT SOURCE				NEGATIVE			
Spectral Elements	#	Wavelength Range	Detector	Filter	Readout Pattern	Groups/Int	Integrations/E xp	Exposures/Dit h	Dither	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
	1	SHORT(A)	MRSLONG		FASTR1	5	1	1	None	1	1	13.875	
	1	SHORT(A)	MRSSHORT		FASTR1	5	1	1	None	1	1	13.875	
	2	MEDIUM(B)	MRSLONG		FASTR1	5	1	1	None	1	1	13.875	
	2	MEDIUM(B)	MRSSHORT		FASTR1	5	1	1	None	1	1	13.875	
	3	LONG(C)	MRSLONG		FASTR1	5	1	1	None	1	1	13.875	
	3	LONG(C)	MRSSHORT		FASTR1	5	1	1	None	1	1	13.875	

Proposal 3195 - Observation 108 - Are M-Type asteroids the remnant core fragments of the planetesimals?

Special Requirements

No Parallel Attachments

Sequence Observations 8, 108, Non-interruptible

DEFAULT WINDOW: ANGULAR RATE BOTOLPHIA-BKGD FROM JWST LESS THAN 0.075

Proposal 3195 - Observation 9 - Are M-Type asteroids the remnant core fragments of the planetesimals?

Thu Jan 30 01:00:10 GMT 2025

Observation	Proposal 3195, Observation 9: MIRI MRS Biarmia Diagnostic Status: Warning Observing Template: MIRI Medium Resolution Spectroscopy Background Observations:[MIRI MRS Biarmia Background (Obs 109)]												
	(MIRI MRS Biarmia (Obs 9)) Warning (Form): The science and background exposures are not consistent and may result in non-optimal science output. (Visit 9:1) Warning (Form): Data Excess over lower threshold (Visit 9:1) Warning (Form): Overheads are provisional until the Visit Planner has been run. (MIRI MRS Biarmia (Obs 9)) Informational (Form): The Visit Planner and Spike may produce different schedulability results.												
Diagnosics													
Solar System Targets	#	Name	Level 1				Level 2				Level 3		
	(8)	BIARMIA	TYPE=ASTEROID,A=3.046112871188259,E=0.2545 565111254665,I=17.06298321450888 .O=213.8902044639836,W=63.87575832438802,M=5 3.41695471973095,EQUINOX=J2000,EPOCH=29- SEP-2015:00:00:00,EpochTimeScale=TDB										
Comments: Extended=NO													
Acquisition	#	Target											
	1	NONE											
Template	AcqFilter	Primary Channel				Simultaneous Imaging			Imager Subarray		Grating Wheel Direction		
	F560W	All MRS				YES			FULL		Allow Auto Reorder		
Dithers	#	Dither Type				Optimized For				Direction			
	1	4-Point				POINT 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	5	40	1	Dither 1	4	160	2652.938	
	1	SHORT(A)	MRSLONG		FASTR1	5	40	1	Dither 1	4	160	2652.938	144643.13
	1	SHORT(A)	MRSSHORT		FASTR1	5	40	1	Dither 1	4	160	2652.938	
	2		IMAGER	F560W	FASTR1	5	40	1	Dither 1	4	160	2652.938	
	2	MEDIUM(B)	MRSLONG		FASTR1	5	40	1	Dither 1	4	160	2652.938	
	2	MEDIUM(B)	MRSSHORT		FASTR1	5	40	1	Dither 1	4	160	2652.938	
	3		IMAGER	F560W	FASTR1	5	40	1	Dither 1	4	160	2652.938	
	3	LONG(C)	MRSLONG		FASTR1	5	40	1	Dither 1	4	160	2652.938	
	3	LONG(C)	MRSSHORT		FASTR1	5	40	1	Dither 1	4	160	2652.938	

Proposal 3195 - Observation 9 - Are M-Type asteroids the remnant core fragments of the planetesimals?

Special Requirements

No Parallel Attachments

Sequence Observations 9, 109, Non-interruptible

DEFAULT WINDOW: ANGULAR RATE BIARMIA FROM JWST LESS THAN 0.075

Proposal 3195 - Observation 109 - Are M-Type asteroids the remnant core fragments of the planetesimals?

Thu Jan 30 01:00:10 GMT 2025

Observation	Proposal 3195, Observation 109: MIRI MRS Biarmia Background Diagnostic Status: Warning Observing Template: MIRI Medium Resolution Spectroscopy Background Observation For: [MIRI MRS Biarmia (Obs 9)]												
	(Visit 109:1) Warning (Form): Overheads are provisional until the Visit Planner has been run. (MIRI MRS Biarmia Background (Obs 109)) Informational (Form): The Visit Planner and Spike may produce different schedulability results.												
Diagnosics													
Solar System Targets	#	Name	Level 1				Level 2				Level 3		
	(17)	BIARMIA-BKGD	TYPE=ASTEROID,A=3.046112871188259,E=0.2545 565111254665,I=17.06298321450888 ,O=213.8902044639836,W=63.87575832438802,M=5 3.41695471973095,EQUINOX=J2000,EPOCH=29- SEP-2015:00:00:00,EpochTimeScale=TDB Comments: Extended=YES				TYPE=POS_ANGLE,RAD=90,ANG=0,REF=NORTH						
Acquisition	#											Target	
	1											NONE	
Template	AcqFilter	Primary Channel			Simultaneous Imaging			Imager Subarray		Grating Wheel Direction			
		All MRS			NO			FULL		Allow Auto Reorder			
Dithers	#	Dither Type				Optimized For				Direction			
	1	4-Point				POINT SOURCE				NEGATIVE			
Spectral Elements	#	Wavelength Range	Detector	Filter	Readout Pattern	Groups/Int	Integrations/E xp	Exposures/Dit h	Dither	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
	1	SHORT(A)	MRSLONG		FASTR1	5	1	1	None	1	1	13.875	
	1	SHORT(A)	MRSSHORT		FASTR1	5	1	1	None	1	1	13.875	
	2	MEDIUM(B)	MRSLONG		FASTR1	5	1	1	None	1	1	13.875	
	2	MEDIUM(B)	MRSSHORT		FASTR1	5	1	1	None	1	1	13.875	
	3	LONG(C)	MRSLONG		FASTR1	5	1	1	None	1	1	13.875	
	3	LONG(C)	MRSSHORT		FASTR1	5	1	1	None	1	1	13.875	

Proposal 3195 - Observation 109 - Are M-Type asteroids the remnant core fragments of the planetesimals?

Special Requirements

No Parallel Attachments

Sequence Observations 9, 109, Non-interruptible

DEFAULT WINDOW: ANGULAR RATE BIARMIA-BKGD FROM JWST LESS THAN 0.075

Proposal 3195 - Observation 4 - Are M-Type asteroids the remnant core fragments of the planetesimals?

Thu Jan 30 01:00:10 GMT 2025

Observation	Proposal 3195, Observation 4: MIRI MRS Magoeba Diagnostic Status: Warning Observing Template: MIRI Medium Resolution Spectroscopy Background Observations:[MIRI MRS Magoeba Background (Obs 104)]												
	(MIRI MRS Magoeba (Obs 4)) Warning (Form): The science and background exposures are not consistent and may result in non-optimal science output. (Visit 4:1) Warning (Form): Overheads are provisional until the Visit Planner has been run. (MIRI MRS Magoeba (Obs 4)) Informational (Form): The Visit Planner and Spike may produce different schedulability results.												
Solar System Targets	#	Name	Level 1				Level 2				Level 3		
	(9)	MAGOEBA	TYPE=ASTEROID,A=1.85349616405902,E=0.04470 926121874684,I=22.82594447964681 ,O=225.2572185912489,W=340.1342796554532,M=8. 262917555957364,EQUINOX=J2000,EPOCH=04- JAN-2016:00:00:00,EpochTimeScale=TDB Comments: Extended=NO										
Acquisition	#	Target											
	1	NONE											
Template	AcqFilter	Primary Channel				Simultaneous Imaging			Imager Subarray		Grating Wheel Direction		
	F560W	All MRS				YES			FULL		Allow Auto Reorder		
Dithers	#	Dither Type				Optimized For				Direction			
	1	4-Point				POINT 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	5	4	1	Dither 1	4	16	255.304	
	1	SHORT(A)	MRSLONG		FASTR1	5	4	1	Dither 1	4	16	255.304	144643.14
	1	SHORT(A)	MRSSHORT		FASTR1	5	4	1	Dither 1	4	16	255.304	
	2		IMAGER	F560W	FASTR1	5	4	1	Dither 1	4	16	255.304	
	2	MEDIUM(B)	MRSLONG		FASTR1	5	4	1	Dither 1	4	16	255.304	
	2	MEDIUM(B)	MRSSHORT		FASTR1	5	4	1	Dither 1	4	16	255.304	
	3		IMAGER	F560W	FASTR1	5	4	1	Dither 1	4	16	255.304	
	3	LONG(C)	MRSLONG		FASTR1	5	4	1	Dither 1	4	16	255.304	
	3	LONG(C)	MRSSHORT		FASTR1	5	4	1	Dither 1	4	16	255.304	

Proposal 3195 - Observation 4 - Are M-Type asteroids the remnant core fragments of the planetesimals?

Special Requirements

No Parallel Attachments

Sequence Observations 4, 104, Non-interruptible

DEFAULT WINDOW: ANGULAR RATE MAGOEBA FROM JWST LESS THAN 0.075

Proposal 3195 - Observation 104 - Are M-Type asteroids the remnant core fragments of the planetesimals?

Thu Jan 30 01:00:10 GMT 2025

Observation	Proposal 3195, Observation 104: MIRI MRS Magoeba Background Diagnostic Status: Warning Observing Template: MIRI Medium Resolution Spectroscopy Background Observation For: [MIRI MRS Magoeba (Obs 4)]												
	(Visit 104:1) Warning (Form): Overheads are provisional until the Visit Planner has been run. (MIRI MRS Magoeba Background (Obs 104)) Informational (Form): The Visit Planner and Spike may produce different schedulability results.												
Diagnosics													
Solar System Targets	#	Name	Level 1				Level 2				Level 3		
	(18)	MAGOEBA-BKGD	TYPE=ASTEROID,A=1.85349616405902,E=0.04470 926121874684,I=22.82594447964681 ,O=225.2572185912489,W=340.1342796554532,M=8. 262917555957364,EQUINOX=J2000,EPOCH=04- JAN-2016:00:00:00,EpochTimeScale=TDB <i>Comments: Extended=YES</i>				TYPE=POS_ANGLE,RAD=90,ANG=0,REF=NORTH						
Acquisition	#											Target	
	1											NONE	
Template	AcqFilter	Primary Channel			Simultaneous Imaging			Imager Subarray		Grating Wheel Direction			
		All MRS			NO			FULL		Allow Auto Reorder			
Dithers	#	Dither Type				Optimized For				Direction			
	1	4-Point				POINT SOURCE				NEGATIVE			
Spectral Elements	#	Wavelength Range	Detector	Filter	Readout Pattern	Groups/Int	Integrations/E xp	Exposures/Dit h	Dither	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
	1	SHORT(A)	MRSLONG		FASTR1	5	1	1	None	1	1	13.875	
	1	SHORT(A)	MRSSHORT		FASTR1	5	1	1	None	1	1	13.875	
	2	MEDIUM(B)	MRSLONG		FASTR1	5	1	1	None	1	1	13.875	
	2	MEDIUM(B)	MRSSHORT		FASTR1	5	1	1	None	1	1	13.875	
	3	LONG(C)	MRSLONG		FASTR1	5	1	1	None	1	1	13.875	
	3	LONG(C)	MRSSHORT		FASTR1	5	1	1	None	1	1	13.875	

Proposal 3195 - Observation 104 - Are M-Type asteroids the remnant core fragments of the planetesimals?

Special Requirements

No Parallel Attachments

Sequence Observations 4, 104, Non-interruptible

DEFAULT WINDOW: ANGULAR RATE MAGOEBA-BKGD FROM JWST LESS THAN 0.075

Proposal 3195 - Observation 10 - Are M-Type asteroids the remnant core fragments of the planetesimals?

Thu Jan 30 01:00:10 GMT 2025

Observation	Proposal 3195, Observation 10: MIRI MRS Stroobantia Diagnostic Status: Warning Observing Template: MIRI Medium Resolution Spectroscopy Background Observations:[MIRI MRS Stroobantia Background (Obs 110)]												
	(MIRI MRS Stroobantia (Obs 10)) Warning (Form): The science and background exposures are not consistent and may result in non-optimal science output. (Visit 10:1) Warning (Form): Overheads are provisional until the Visit Planner has been run. (MIRI MRS Stroobantia (Obs 10)) Informational (Form): The Visit Planner and Spike may produce different schedulability results.												
Solar System Targets	#	Name	Level 1			Level 2			Level 3				
	(7)	STROOBANTIA	TYPE=ASTEROID,A=2.925835343746621,E=0.0327 0466819845383,I=7.78699724180235 .O=22.32262091870075,W=262.7758406579853,M=1 46.022170211183,EQUINOX=J2000,EPOCH=28- OCT-2014:00:00:00,EpochTimeScale=TDB										
<i>Comments: Extended=NO</i>													
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				POINT 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	5	10	1	Dither 1	4	40	654.909	
	1	LONG(C)	MRSLONG		FASTR1	5	10	1	Dither 1	4	40	654.909	
	1	LONG(C)	MRSSHORT		FASTR1	5	10	1	Dither 1	4	40	654.909	
	2		IMAGER	F560W	FASTR1	5	10	1	Dither 1	4	40	654.909	
	2	MEDIUM(B)	MRSLONG		FASTR1	5	10	1	Dither 1	4	40	654.909	
	2	MEDIUM(B)	MRSSHORT		FASTR1	5	10	1	Dither 1	4	40	654.909	
	3		IMAGER	F560W	FASTR1	5	10	1	Dither 1	4	40	654.909	
	3	SHORT(A)	MRSLONG		FASTR1	5	10	1	Dither 1	4	40	654.909	
	3	SHORT(A)	MRSSHORT		FASTR1	5	10	1	Dither 1	4	40	654.909	6144643.12

Proposal 3195 - Observation 10 - Are M-Type asteroids the remnant core fragments of the planetesimals?

Special Requirements

No Parallel Attachments

Sequence Observations 10, 110, Non-interruptible

DEFAULT WINDOW: ANGULAR RATE STROOBANTIA FROM JWST LESS THAN 0.075

Proposal 3195 - Observation 110 - Are M-Type asteroids the remnant core fragments of the planetesimals?

Thu Jan 30 01:00:10 GMT 2025

Observation	Proposal 3195, Observation 110: MIRI MRS Stroobantia Background Diagnostic Status: Warning Observing Template: MIRI Medium Resolution Spectroscopy Background Observation For: [MIRI MRS Stroobantia (Obs 10)]												
	(Visit 110:1) Warning (Form): Overheads are provisional until the Visit Planner has been run. (MIRI MRS Stroobantia Background (Obs 110)) Informational (Form): The Visit Planner and Spike may produce different schedulability results.												
Diagnosics													
Solar System Targets	#	Name	Level 1				Level 2				Level 3		
	(16)	STROOBANTIA-BKGD	TYPE=ASTEROID,A=2.925835343746621,E=0.0327 0466819845383,I=7.78699724180235 ,O=22.32262091870075,W=262.7758406579853,M=1 46.022170211183,EQUINOX=J2000,EPOCH=28- OCT-2014:00:00:00,EpochTimeScale=TDB Comments: Extended=YES				TYPE=POS_ANGLE,RAD=90,ANG=0,REF=NORTH						
Acquisition	#											Target	
	1											NONE	
Template	AcqFilter	Primary Channel			Simultaneous Imaging			Imager Subarray		Grating Wheel Direction			
		All MRS			NO			FULL		Allow Auto Reorder			
Dithers	#	Dither Type				Optimized For				Direction			
	1	4-Point				POINT 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	LONG(C)	MRSLONG		FASTR1	5	1	1	None	1	1	13.875	
	1	LONG(C)	MRSSHORT		FASTR1	5	1	1	None	1	1	13.875	
	2	MEDIUM(B)	MRSLONG		FASTR1	5	1	1	None	1	1	13.875	
	2	MEDIUM(B)	MRSSHORT		FASTR1	5	1	1	None	1	1	13.875	
	3	SHORT(A)	MRSLONG		FASTR1	5	1	1	None	1	1	13.875	
	3	SHORT(A)	MRSSHORT		FASTR1	5	1	1	None	1	1	13.875	

Proposal 3195 - Observation 110 - Are M-Type asteroids the remnant core fragments of the planetesimals?

Special Requirements

No Parallel Attachments

Sequence Observations 10, 110, Non-interruptible

DEFAULT WINDOW: ANGULAR RATE STROOBANTIA-BKGD FROM JWST LESS THAN 0.075

Proposal 3195 - Observation 59 - Are M-Type asteroids the remnant core fragments of the planetesimals?

Thu Jan 30 01:00:10 GMT 2025

Observation	Proposal 3195, Observation 59: MIRI MRS Biarmia Diagnostic Status: Warning Observing Template: MIRI Medium Resolution Spectroscopy Background Observations:[MIRI MRS Biarmia Background (Obs 159)]												
	(MIRI MRS Biarmia (Obs 59)) Warning (Form): The science and background exposures are not consistent and may result in non-optimal science output. (Visit 59:1) Warning (Form): Data Excess over lower threshold (Visit 59:1) Warning (Form): Overheads are provisional until the Visit Planner has been run. (MIRI MRS Biarmia (Obs 59)) Informational (Form): The Visit Planner and Spike may produce different schedulability results.												
Diagnostics													
Solar System Targets	#	Name	Level 1				Level 2				Level 3		
	(8)	BIARMIA	TYPE=ASTEROID,A=3.046112871188259,E=0.2545 565111254665,I=17.06298321450888 .O=213.8902044639836,W=63.87575832438802,M=5 3.41695471973095,EQUINOX=J2000,EPOCH=29- SEP-2015:00:00:00,EpochTimeScale=TDB										
Comments: Extended=NO													
Acquisition	#	Target											
	1	NONE											
Template	AcqFilter	Primary Channel				Simultaneous Imaging			Imager Subarray		Grating Wheel Direction		
	F560W	All MRS				YES			FULL		Allow Auto Reorder		
Dithers	#	Dither Type				Optimized For				Direction			
	1	4-Point				POINT 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	5	40	1	Dither 1	4	160	2652.938	
	1	SHORT(A)	MRSLONG		FASTR1	5	40	1	Dither 1	4	160	2652.938	144643.13
	1	SHORT(A)	MRSSHORT		FASTR1	5	40	1	Dither 1	4	160	2652.938	
	2		IMAGER	F560W	FASTR1	5	40	1	Dither 1	4	160	2652.938	
	2	MEDIUM(B)	MRSLONG		FASTR1	5	40	1	Dither 1	4	160	2652.938	
	2	MEDIUM(B)	MRSSHORT		FASTR1	5	40	1	Dither 1	4	160	2652.938	
	3		IMAGER	F560W	FASTR1	5	40	1	Dither 1	4	160	2652.938	
	3	LONG(C)	MRSLONG		FASTR1	5	40	1	Dither 1	4	160	2652.938	
	3	LONG(C)	MRSSHORT		FASTR1	5	40	1	Dither 1	4	160	2652.938	

Proposal 3195 - Observation 59 - Are M-Type asteroids the remnant core fragments of the planetesimals?

Special Requirements

No Parallel Attachments

Sequence Observations 59, 159, Non-interruptible

DEFAULT WINDOW: ANGULAR RATE BIARMIA FROM JWST LESS THAN 0.075

Proposal 3195 - Observation 159 - Are M-Type asteroids the remnant core fragments of the planetesimals?

Thu Jan 30 01:00:10 GMT 2025

Observation	Proposal 3195, Observation 159: MIRI MRS Biarmia Background Diagnostic Status: Warning Observing Template: MIRI Medium Resolution Spectroscopy Background Observation For: [MIRI MRS Biarmia (Obs 59)]												
	(Visit 159:1) Warning (Form): Overheads are provisional until the Visit Planner has been run. (MIRI MRS Biarmia Background (Obs 159)) Informational (Form): The Visit Planner and Spike may produce different schedulability results.												
Diagnosics													
Solar System Targets	#	Name	Level 1				Level 2				Level 3		
	(17)	BIARMIA-BKGD	TYPE=ASTEROID,A=3.046112871188259,E=0.2545 565111254665,I=17.06298321450888 ,O=213.8902044639836,W=63.87575832438802,M=5 3.41695471973095,EQUINOX=J2000,EPOCH=29- SEP-2015:00:00:00,EpochTimeScale=TDB <i>Comments: Extended=YES</i>				TYPE=POS_ANGLE,RAD=90,ANG=0,REF=NORTH						
Acquisition	#											Target	
	1											NONE	
Template	AcqFilter	Primary Channel			Simultaneous Imaging			Imager Subarray		Grating Wheel Direction			
		All MRS			NO			FULL		Allow Auto Reorder			
Dithers	#	Dither Type				Optimized For				Direction			
	1	4-Point				POINT SOURCE				NEGATIVE			
Spectral Elements	#	Wavelength Range	Detector	Filter	Readout Pattern	Groups/Int	Integrations/E xp	Exposures/Dit h	Dither	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
	1	SHORT(A)	MRSLONG		FASTR1	5	1	1	None	1	1	13.875	
	1	SHORT(A)	MRSSHORT		FASTR1	5	1	1	None	1	1	13.875	
	2	MEDIUM(B)	MRSLONG		FASTR1	5	1	1	None	1	1	13.875	
	2	MEDIUM(B)	MRSSHORT		FASTR1	5	1	1	None	1	1	13.875	
	3	LONG(C)	MRSLONG		FASTR1	5	1	1	None	1	1	13.875	
	3	LONG(C)	MRSSHORT		FASTR1	5	1	1	None	1	1	13.875	

Proposal 3195 - Observation 159 - Are M-Type asteroids the remnant core fragments of the planetesimals?

Special Requirements

No Parallel Attachments

Sequence Observations 59, 159, Non-interruptible

DEFAULT WINDOW: ANGULAR RATE BIARMIA-BKGD FROM JWST LESS THAN 0.075