



1236 - Protostellar Binaries

Cycle: 1, Proposal Category: GTO

INVESTIGATORS

<i>Name</i>	<i>Institution</i>
Dr. Michael E. Ressler (PI)	Jet Propulsion Laboratory
Dr. Thomas P. Greene (CoI)	NASA Ames Research Center
Dr. Ewine F. Van Dishoeck (CoI) (ESA Member)	Universiteit Leiden
Dr. Ryan M Lau (CoI)	NOIRLab - (AZ)
Dr. Mary Barsony (CoI)	SETI Institute
Dr. John Tobin (CoI)	Associated Universities, Inc.
Dr. Liton Majumdar (CoI)	Jet Propulsion Laboratory

OBSERVATIONS

<i>Folder</i>	<i>Observation</i>	<i>Label</i>	<i>Observing Template</i>	<i>Science Target</i>
Perseus				
	1	L1448IRS1	MIRI Medium Resolution Spectroscopy	(1) L1448IRS1
	2	Emb 22	MIRI Medium Resolution Spectroscopy	(2) PER-EMB-22
	3	Emb 33	MIRI Medium Resolution Spectroscopy	(3) PER-EMB-33
	4	Background	MIRI Medium Resolution Spectroscopy	(4) PER-BACKGROUND
	5	Emb 35	MIRI Medium Resolution Spectroscopy	(5) PER-EMB-35
	6	ASR 106	MIRI Medium Resolution Spectroscopy	(6) EDJ2009-183
	7	Emb 27	MIRI Medium Resolution Spectroscopy	(7) PER-EMB-27
	8	Emb 12	MIRI Medium Resolution Spectroscopy	(8) PER-EMB-12
	9	Emb 11	MIRI Medium Resolution Spectroscopy	(9) PER-EMB-11
	10	Emb 55	MIRI Medium Resolution Spectroscopy	(10) PER-EMB-55
rho Oph				
	11	WL 20	MIRI Medium Resolution Spectroscopy	(11) WL20

ABSTRACT

We will observe a small sample of protostellar binaries primarily in the Perseus star forming region and one in the rho Oph cloud with the MIRI spectrometer to gain new insights into the formation and composition of these youngest stellar systems. We have selected known binaries with separations from 0.6 to 3.2 arcseconds, wide enough to be resolved over a reasonable wavelength range, but close enough to be observed in a single pointing.

For each source, spectra with all three grating positions will be obtained, with a 2-point dither for each. Spatial reconstruction is not important (thus 4-point dithers is not necessary); our chief concern is filling in bad pixels and CR removal. There is one dedicated background region that will be used to subtract the background from all targets. The simultaneous images are primarily for precisely locating our targets, not for science per se; the image overlap warnings are thus not important.

There is one uninterrupted sequence of objects in Perseus in order in order to make best use of a designated background target. See the Observations comment boxes. Because these sources are binaries where it is not trivial to optimize the position of both on the IFU and because of the significant amount of nebulosity surrounding these sources, we prefer to not do a target acquisition before each source. Current pointing models indicate that the blind pointing capability is 0.1", more than adequate to ensure our binaries are within the MRS FOV.

This program is being done in conjunction with Perseus observations by Ewine van Dishoeck (MIRI EC, PID 1290) and her team.

OBSERVING DESCRIPTION

Recent millimeter surveys of young, Class 0, protostars reveal that nearly 2/3 are in binary/multiple systems (e.g. Chen et al., 2013; Tobin et al., 2016a). This high observed multiplicity frequency suggests that most stars are born as binaries or multiples. The formation of multiple systems is thought to arise from three mechanisms (summarized in Tobin et al.): 1) turbulent fragmentation of the parent molecular cloud; 2) thermal fragmentation of a strongly perturbed, rotating, and infalling core; and 3) fragmentation of a gravitationally unstable circumstellar disk. Processes 1 and 2 will lead to systems with separations of hundreds to thousands of AU, while the third will produce separations of hundreds of AU or less.

We will observe a small sample of protostellar binaries (Class 0 and I young stellar objects) in the Perseus star forming region along with one prototypical triple system in rho Oph with the MIRI spectrometer to gain new insights into the formation and composition of these youngest stellar systems. The sources we have chosen are known binaries (or triples) from the Tobin et al. lists (i.e. Tables 3 and 4), with separations from 0.5" to

3.2" so that they are resolvable by the MIRI MRS yet still fit within a single MRS field-of-view. These object separations also bridge the transition between the first two formation processes and the third, which is of order 1"-2" at the 230 pc distance to Perseus. A spectacular example is the ALMA image of the hierarchical triple system of L1448 IRS3B (Tobin et al. 2016b). While we are unlikely to resolve the closer pair (at 0.27" , 61 AU, separation), we will be able to separate the tertiary, 0.8" (183 AU) away, and perhaps obtain information on the dust spirals intertwining the entire system. Some of the issues we hope to address with these spatially-resolved mid-infrared spectra include: the evolutionary state of each member of the pair; differences in extinction and accretion markers between the members; the composition of the circumbinary disk; the prevalence of ices in these systems; and the energetics of these systems---even though MIRI's formal spectral resolution is of order 100 km s⁻¹ , we should be able to see Doppler shifts that are $\sim < 10$ km s⁻¹ in isolated lines. While this study stands on its own, it is also being undertaken as a part of a larger, coordinated effort to characterize the protostellar population of the Perseus star forming region.

References

Chen, X., Arce, H. G., Zhang, Q., et al. 2013, ApJ, 768, 110

Tobin, J. J., Looney, L. W., Li, Z.-Y., et al. 2016a, ApJ, 818, 73

Tobin, J. J., Kratter, K. M., Persson, M. V., et al. 2016b, Nature, 538, 483

Proposal 1236 - Targets - Protostellar Binaries

#	Name	Target Coordinates	Targ. Coord. Corrections	Miscellaneous	
(1)	L1448IRS1	RA: 03 25 9.4310 (51.2892958d) Dec: +30 46 21.27 (30.77257d) Equinox: J2000			
<i>Comments: 1.424 arcsec, Class 1</i> <i>Category=Star</i> <i>Description=[Protostars]</i> <i>Extended=YES</i>					
(2)	PER-EMB-22	RA: 03 25 22.3810 (51.3432542d) Dec: +30 45 13.20 (30.75367d) Equinox: J2000			
<i>Comments: 0.751 arcsec, L1448-IRS2, Class 0</i> <i>Category=Star</i> <i>Description=[Protostars]</i> <i>Extended=YES</i>					
(3)	PER-EMB-33	RA: 03 25 36.3460 (51.4014417d) Dec: +30 45 14.94 (30.75415d) Equinox: J2000			
<i>Comments: 0.795 arcsec, L1448IRS3B L1448N, Class 0</i> <i>Category=Star</i> <i>Description=[Protostars]</i> <i>Extended=YES</i>					
Fixed Targets	(4)	PER-BACKGROUND	RA: 03 27 54.9600 (51.9790000d) Dec: +30 45 48.32 (30.76342d) Equinox: J2000		
	<i>Comments:</i> <i>Category=Unidentified</i> <i>Description=[Blank field]</i>				
	(5)	PER-EMB-35	RA: 03 28 37.1550 (52.1548125d) Dec: +31 13 31.27 (31.22535d) Equinox: J2000		
	<i>Comments: 1.908 arcsec, NGC 1333 IRAS1, Class 1</i> <i>Category=Star</i> <i>Description=[Protostars]</i> <i>Extended=YES</i>				
	(6)	EDJ2009-183	RA: 03 28 59.3350 (52.2472292d) Dec: +31 15 48.40 (31.26344d) Equinox: J2000		
	<i>Comments: 1.025 arcsec, ASR 106, Class 1</i> <i>Category=Star</i> <i>Description=[Protostars]</i> <i>Extended=YES</i>				
	(7)	PER-EMB-27	RA: 03 28 55.5660 (52.2315250d) Dec: +31 14 36.72 (31.24353d) Equinox: J2000		
<i>Comments: 0.620 arcsec, NGC 1333 IRAS2A, Class 0</i> <i>Category=Star</i> <i>Description=[Protostars]</i> <i>Extended=YES</i>					

Proposal 1236 - Targets - Protostellar Binaries

(8)	PER-EMB-12	RA: 03 29 10.4820 (52.2936750d) Dec: +31 13 31.51 (31.22542d) Equinox: J2000
<p><i>Comments: 1.830 arcsec, NGC 1333 IRAS4A, Class 0</i> <i>Category=Star</i> <i>Description=[Protostars]</i> <i>Extended=YES</i></p>		
(9)	PER-EMB-11	RA: 03 43 56.9730 (55.9873875d) Dec: +32 03 3.88 (32.05108d) Equinox: J2000
<p><i>Comments: 2.951 arcsec, IC348MMS, Class 0</i> <i>Category=Star</i> <i>Description=[Protostars]</i> <i>Extended=YES</i></p>		
(10)	PER-EMB-55	RA: 03 44 43.3160 (56.1804833d) Dec: +32 01 31.43 (32.02540d) Equinox: J2000
<p><i>Comments: 0.618 arcsec, IRAS 03415+3152, Class 1</i> <i>Category=Star</i> <i>Description=[Protostars]</i> <i>Extended=YES</i></p>		
(11)	WL20	RA: 16 27 15.7666 (246.8156942d) Dec: -24 38 44.27 (-24.64563d) Equinox: J2000
<p><i>Comments: 3.66, 3.17, 2.26 arcsec, Class 1 + 2 Class 2</i> <i>Category=Star</i> <i>Description=[Multiple stars, Young stellar objects]</i></p>		

Proposal 1236 - Observation 1 - Protostellar Binaries

Thu Mar 30 21:03:15 GMT 2023

Observation	Proposal 1236, Observation 1: L1448IRS1 Diagnostic Status: Warning Observing Template: MIRI Medium Resolution Spectroscopy Background Observations:[Background (Obs 4)]																																																																																																																																													
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Proposal 1236 - Observation 1 - Protostellar Binaries

Special Requirements

Background Limited. Background no more than 20th percentile above minimum

Sequence Observations 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, Non-interruptible

Proposal 1236 - Observation 2 - Protostellar Binaries

Thu Mar 30 21:03:15 GMT 2023

Observation	Proposal 1236, Observation 2: Emb 22 Diagnostic Status: Warning Observing Template: MIRI Medium Resolution Spectroscopy Background Observations:[Background (Obs 4)]																																																																																																																																													
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Proposal 1236 - Observation 2 - Protostellar Binaries

Special Requirements

Background Limited. Background no more than 20th percentile above minimum

Sequence Observations 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, Non-interruptible

Proposal 1236 - Observation 3 - Protostellar Binaries

Thu Mar 30 21:03:15 GMT 2023

Observation	Proposal 1236, Observation 3: Emb 33 Diagnostic Status: Warning Observing Template: MIRI Medium Resolution Spectroscopy Background Observations:[Background (Obs 4)]																																																																																																																																													
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Proposal 1236 - Observation 3 - Protostellar Binaries

Special Requirements

Background Limited. Background no more than 20th percentile above minimum

Sequence Observations 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, Non-interruptible

Proposal 1236 - Observation 4 - Protostellar Binaries

Special Requirements

Background Limited. Background no more than 20th percentile above minimum

Sequence Observations 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, Non-interruptible

Proposal 1236 - Observation 5 - Protostellar Binaries

Thu Mar 30 21:03:15 GMT 2023

Observation	Proposal 1236, Observation 5: Emb 35 Diagnostic Status: Warning Observing Template: MIRI Medium Resolution Spectroscopy Background Observations:[Background (Obs 4)]																																																																																																																																													
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Proposal 1236 - Observation 5 - Protostellar Binaries

Special Requirements

Background Limited. Background no more than 20th percentile above minimum

Sequence Observations 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, Non-interruptible

Proposal 1236 - Observation 6 - Protostellar Binaries

Thu Mar 30 21:03:15 GMT 2023

Observation	Proposal 1236, Observation 6: ASR 106 Diagnostic Status: Warning Observing Template: MIRI Medium Resolution Spectroscopy Background Observations:[Background (Obs 4)]																																																																																																																																													
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Proposal 1236 - Observation 6 - Protostellar Binaries

Special Requirements

Background Limited. Background no more than 20th percentile above minimum

Sequence Observations 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, Non-interruptible

Proposal 1236 - Observation 7 - Protostellar Binaries

Thu Mar 30 21:03:15 GMT 2023

Observation	Proposal 1236, Observation 7: Emb 27 Diagnostic Status: Warning Observing Template: MIRI Medium Resolution Spectroscopy Background Observations:[Background (Obs 4)]																																																																																																																																													
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Proposal 1236 - Observation 7 - Protostellar Binaries

Special Requirements

Background Limited. Background no more than 20th percentile above minimum

Sequence Observations 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, Non-interruptible

Proposal 1236 - Observation 8 - Protostellar Binaries

Thu Mar 30 21:03:15 GMT 2023

Observation	Proposal 1236, Observation 8: Emb 12 Diagnostic Status: Warning Observing Template: MIRI Medium Resolution Spectroscopy Background Observations:[Background (Obs 4)]																																																																																																																																													
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Proposal 1236 - Observation 8 - Protostellar Binaries

Special Requirements

Background Limited. Background no more than 20th percentile above minimum

Sequence Observations 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, Non-interruptible

Proposal 1236 - Observation 9 - Protostellar Binaries

Thu Mar 30 21:03:15 GMT 2023

Observation	Proposal 1236, Observation 9: Emb 11 Diagnostic Status: Warning Observing Template: MIRI Medium Resolution Spectroscopy Background Observations:[Background (Obs 4)]												
	(Emb 11 (Obs 9)) Warning (Form): Imager Filter overlap. (Emb 11 (Obs 9)) Warning (Form): Imager Filter overlap. (Emb 11 (Obs 9)) Warning (Form): Imager Filter overlap. (Visit 9:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.												
Fixed Targets	#	Name	Target Coordinates				Targ. Coord. Corrections			Miscellaneous			
	(9)	PER-EMB-11	RA: 03 43 56.9730 (55.9873875d) Dec: +32 03 3.88 (32.05108d) Equinox: J2000 <i>Comments: 2.951 arcsec, IC348MMS, Class 0</i> <i>Category=Star</i> <i>Description=[Protostars]</i> <i>Extended=YES</i>										
Acquisition	#	Target											
	1	NONE											
Template	AcqFilter	Primary Channel				Simultaneous Imaging			Imager Subarray				
	F1500W	ALL				YES			FULL				
Dithers	#	Dither Type				Optimized For			Direction				
	1	2-Point				EXTENDED SOURCE			NEGATIVE				
Spectral Elements	#	Wavelength Range	Detector	Filter	Readout Pattern	Groups/Int	Integrations/E xp	Exposures/Dit h	Dither	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
	1		IMAGER	F1500W	FASTR1	46	4	1	Dither 1	2	8	1037.865	
	1	SHORT(A)	MRSLONG		FASTR1	188	1	1	Dither 1	2	2	1043.415	39212
	1	SHORT(A)	MRSSSHORT		FASTR1	188	1	1	Dither 1	2	2	1043.415	
	2		IMAGER	F1500W	FASTR1	46	4	1	Dither 1	2	8	1037.865	
	2	MEDIUM(B)	MRSLONG		FASTR1	188	1	1	Dither 1	2	2	1043.415	
	2	MEDIUM(B)	MRSSSHORT		FASTR1	188	1	1	Dither 1	2	2	1043.415	
	3		IMAGER	F1500W	FASTR1	46	4	1	Dither 1	2	8	1037.865	
	3	LONG(C)	MRSLONG		FASTR1	188	1	1	Dither 1	2	2	1043.415	
	3	LONG(C)	MRSSSHORT		FASTR1	188	1	1	Dither 1	2	2	1043.415	

Proposal 1236 - Observation 9 - Protostellar Binaries

Special Requirements

Background Limited. Background no more than 20th percentile above minimum

Sequence Observations 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, Non-interruptible

Proposal 1236 - Observation 10 - Protostellar Binaries

Thu Mar 30 21:03:15 GMT 2023

Observation	Proposal 1236, Observation 10: Emb 55 Diagnostic Status: Warning Observing Template: MIRI Medium Resolution Spectroscopy Background Observations:[Background (Obs 4)]																																																																																																																																													
	(Emb 55 (Obs 10)) Warning (Form): Imager Filter overlap. (Emb 55 (Obs 10)) Warning (Form): Imager Filter overlap. (Emb 55 (Obs 10)) Warning (Form): Imager Filter overlap. (Visit 10:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.																																																																																																																																													
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Proposal 1236 - Observation 10 - Protostellar Binaries

Special Requirements

Background Limited. Background no more than 20th percentile above minimum

Sequence Observations 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, Non-interruptible

Proposal 1236 - Observation 11 - Protostellar Binaries

Thu Mar 30 21:03:15 GMT 2023

Observation	Proposal 1236, Observation 11: WL 20 Diagnostic Status: Warning Observing Template: MIRI Medium Resolution Spectroscopy																																																																																																																																													
Diagnostics	(WL 20 (Obs 11)) Warning (Form): Imager Filter overlap. (WL 20 (Obs 11)) Warning (Form): Imager Filter overlap. (WL 20 (Obs 11)) Warning (Form): Imager Filter overlap. (Visit 11:1) Warning (Form): Overheads are provisional until the Visit Planner has been run. (Visit 11:1) Informational (Form): Visit schedulable, but most scheduling windows are when JWST is pointed in direction of greatest micrometeoroid impact risk. This is likely due to scheduling special requirements.																																																																																																																																													
Fixed Targets	<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>(11)</td> <td>WL20</td> <td>RA: 16 27 15.7666 (246.8156942d) Dec: -24 38 44.27 (-24.64563d) Equinox: J2000</td> <td></td> <td></td> </tr> <tr> <td colspan="5"><i>Comments: 3.66, 3.17, 2.26 arcsec, Class 1 + 2 Class 2</i></td> </tr> <tr> <td colspan="5"><i>Category=Star</i></td> </tr> <tr> <td colspan="5"><i>Description=[Multiple stars, Young stellar objects]</i></td> </tr> </tbody> </table>												#	Name	Target Coordinates	Targ. Coord. Corrections	Miscellaneous	(11)	WL20	RA: 16 27 15.7666 (246.8156942d) Dec: -24 38 44.27 (-24.64563d) Equinox: J2000			<i>Comments: 3.66, 3.17, 2.26 arcsec, Class 1 + 2 Class 2</i>					<i>Category=Star</i>					<i>Description=[Multiple stars, Young stellar objects]</i>																																																																																																													
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Proposal 1236 - Observation 11 - Protostellar Binaries

Special Requirements

Aperture PA Range 280.0 to 284.0 Degrees (V3 280.0 to 284.0)