



# 6122 - Cool kids on the block: The direct detection of cold ice giants and gas giants orbiting young low-mass neighbors

Cycle: 3, Proposal Category: GO

## INVESTIGATORS

<i>Name</i>	<i>Institution</i>
<b>Dr. Rachel Bowens-Rubin (PI)</b>	<b>Eureka Scientific Inc.</b>
Mary Anne Limbach (CoI) (CoPI)	University of Michigan
Dr. Aarynn L Carter (CoI)	Space Telescope Science Institute
Dr. Maissa Salama (CoI)	University of California - Santa Cruz
Sagnick Mukherjee (CoI)	University of California - Santa Cruz
Dr. Philip M. Hinz (CoI)	University of Arizona
Dr. Caroline Morley (CoI)	University of Texas at Austin
Dr. Elisabeth C Matthews (CoI) (ESA Member)	Max Planck Institute for Astronomy
Dr. Steve Ertel (CoI)	University of Arizona
Dr. Kevin Wagner (CoI)	University of Arizona
Julien Girard (CoI)	Space Telescope Science Institute
Dr. Andrew Vanderburg (CoI)	Massachusetts Institute of Technology
Dr. Kevin Stevenson (CoI)	The Johns Hopkins University Applied Physics Laboratory

## OBSERVATIONS

<i>Folder</i>	<i>Observation</i>	<i>Label</i>	<i>Observing Template</i>	<i>Science Target</i>
Wolf 359				
	1	Wolf 359 NIRCcam	NIRCcam Coronagraphic Imaging	(1) Wolf-359
	2	Wolf 359 MIRI	MIRI Imaging	(1) Wolf-359
	13	Wolf 359 MIRI	MIRI Imaging	(1) Wolf-359
Ross 154				

JWST Proposal 6122 (Created: Thursday, June 12, 2025, 11:00:09AM Eastern Standard Time) - Overview

<i>Folder</i>	<i>Observation</i>	<i>Label</i>	<i>Observing Template</i>	<i>Science Target</i>
	3	Ross 154	NIRCam Coronagraphic Imaging	(2) Ross-154
	4	Ross 154 MIRI	MIRI Imaging	(2) Ross-154
	104	Ross 154 MIRI	MIRI Imaging	(2) Ross-154
	105	Ross 154 MIRI	MIRI Imaging	(2) Ross-154
DX Cancri				
	5	DX Cancri NIRCam	NIRCam Coronagraphic Imaging	(3) DX-Cancri
	6	DX Cancri MIRI	MIRI Imaging	(3) DX-Cancri
AD Leo				
	7	AD Leo NIRCam	NIRCam Coronagraphic Imaging	(4) AD-Leo
	14	AD Leo NIRCam	NIRCam Coronagraphic Imaging	(4) AD-Leo
	8	AD Leo MIRI	MIRI Imaging	(4) AD-Leo
EV Lac				
	9	EV Lac NIRCam	NIRCam Coronagraphic Imaging	(5) EV-Lac
	10	EV Lac MIRI	MIRI Imaging	(5) EV-Lac
YZ CMi				
	11	YZ CMi NIRCam	NIRCam Coronagraphic Imaging	(6) YZ-CMi
	12	YZ CMi MIRI	MIRI Imaging	(6) YZ-CMi

## ABSTRACT

Cold ice giant and gas giant exoplanets (<200K, 0.03 - 10 M<sub>Jup</sub>) in systems orbiting low-mass stars (0.08 - 0.45 M<sub>sun</sub>) could prove to be one of the most common types of exoplanets in the galaxy, yet we currently know of none that we can characterize through direct measurements. This survey presents an efficient pathway to utilize JWST's unique capabilities to accomplish a major objective in the exoplanet observing community: directly imaging a benchmark set of sub-Jupiter mass exoplanets. We propose a survey that has excellent coverage for detecting the under-studied population of ice-giant exoplanets (0.05 M<sub>Jup</sub>), which is out of reach for all but the most tailored JWST direct imaging observations. We will observe six of the nearest (< 6 pc), young (< 1 Gyr) M-dwarfs to directly image exoplanets down to temperatures of 75K and as small as Neptune. We select nearby targets to optimize our coverage to the orbits where we expect giant planets to be the most prevalent (1 - 15 AU). We propose to use F444W NIRCam Coronagraphic Imaging in conjunction with F2100W MIRI Imaging to ensure the detection of clear and cloudy exoplanets. Based on our survey sensitivity and previously measured occurrence rates of giant planets, we predict a discovery yield of 4.6 (+2.9 -1.9) planets, and nondetections would challenge the existing occurrence rates to 2.5-sigma. Exoplanets identified through this survey will be ideal candidates for JWST spectroscopic follow-up characterization to further understand the formation differences between gas giant and ice giant exoplanets and enable

comparative planetology to the giant planets in our own solar system.

### **OBSERVING DESCRIPTION**

We will use F444W+MASK335R NIRCam Coronagraphic Imaging and F2100W MIRI Imaging to complete a direct imaging survey of 6 M-dwarfs: Wolf 359, Ross 154, DX Cancri, AD Leo, EV Lac, and YZ CMi. By electing to use both NIRCam and MIRI, we will be sensitive to cold sub-Jupiter mass exoplanets with cloudy and clear atmospheres.

NIRCam: We will integrate on each target for a total of 51 min in F444W with MASK335R. We elect to use F200W as our short filter. We will use MEDIUM8 readout with 8 groups and 4 exposures with a 9-point small grid dither. We will use self-reference PSFs to increase observing efficiency and perform PSF subtraction using reference differential imaging.

MIRI: We will image each target for 50 min in the F2100W. We elect a 2-point dither pattern and FASTR1 readout with the SUB256 subarray. We will perform PSF subtraction using RDI KLIP post-processing.

Proposal 6122 - Targets - Cool kids on the block: The direct detection of cold ice giants and gas giants orbiting young low-mass neigh...

#	Name	Target Coordinates	Targ. Coord. Corrections	Miscellaneous
(1)	Wolf-359	RA: 10 56 28.9209 (164.1205038d) Dec: +07 00 53.00 (7.01472d) Equinox: J2000	Proper Motion RA: -3866.3379999999997 mas/yr Proper Motion Dec: -2699.2149999159665 mas/yr Parallax: 0.4151794" Epoch of Position: 2000	
<p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. Parallax added by hand from the gaia measurement listed on simbad. Category=Star Description=[M dwarfs, M stars]</i></p>				
(2)	Ross-154	RA: 18 49 49.3638 (282.4556825d) Dec: -23 50 10.45 (-23.83624d) Equinox: J2000	Proper Motion RA: 639.368 mas/yr Proper Motion Dec: -193.95800002257602 mas/yr Parallax: 0.3360266" Epoch of Position: 2000	
<p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. Parallax added by hand from the gaia measurement listed on simbad. Category=Star Description=[M dwarfs, M stars]</i></p>				
(3)	DX-Cancri	RA: 08 29 49.3528 (127.4556367d) Dec: +26 46 33.62 (26.77601d) Equinox: J2000	Proper Motion RA: -1113.694 mas/yr Proper Motion Dec: -612.1910000501884 mas/yr Parallax: 0.2792496" Epoch of Position: 2000	
<p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. Parallax added by hand from the gaia measurement listed on simbad. Category=Star Description=[M dwarfs, M stars]</i></p>				
(4)	AD-Leo	RA: 10 19 36.2808 (154.9011700d) Dec: +19 52 12.01 (19.87000d) Equinox: J2000	Proper Motion RA: -498.62 mas/yr Proper Motion Dec: -43.42799993537483 mas/yr Parallax: 0.2014064" Epoch of Position: 2000	
<p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. Parallax added by hand from the gaia measurement listed on simbad. Category=Star Description=[M dwarfs, M stars]</i></p>				
(5)	EV-Lac	RA: 22 46 49.7313 (341.7072137d) Dec: +44 20 2.37 (44.33399d) Equinox: J2000	Proper Motion RA: -706.216 mas/yr Proper Motion Dec: -458.91999996001687 mas/yr Parallax: 0.1979573" Epoch of Position: 2000	
<p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. Parallax added by hand from the gaia measurement listed on simbad. Category=Star Description=[M dwarfs, M stars]</i></p>				
(6)	YZ-CMi	RA: 07 44 40.1723 (116.1673846d) Dec: +03 33 8.88 (3.55247d) Equinox: J2000	Proper Motion RA: -347.782 mas/yr Proper Motion Dec: -445.70199997906457 mas/yr Parallax: 0.1669769" Epoch of Position: 2000	
<p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. Parallax added by hand from the gaia measurement listed on simbad. Category=Star Description=[M dwarfs, M stars]</i></p>				

Fixed Targets

Proposal 6122 - Observation 1 - Cool kids on the block: The direct detection of cold ice giants and gas giants orbiting young low-mass ...

Thu Jun 12 16:00:09 GMT 2025

<b>Observation</b>	<p><b>Proposal 6122, Observation 1: Wolf 359 NIRCcam</b></p> <p><b>Diagnostic Status: Warning</b></p> <p>Observing Template: NIRCcam Coronagraphic Imaging</p>									
<b>Diagnostics</b>	<p>(Wolf 359 NIRCcam (Obs 1)) Warning (Form): By checking 'Additional justification', this observation is identified as part of a self reference survey. Remember to provide justification for this in the technical description text of your PDF attachment.</p> <p>(Wolf 359 NIRCcam (Obs 1)) Warning (Form): Coronagraphic Science and PSF Reference observations should be executed contiguously via a Group/Sequence Observations Link.</p> <p>(Wolf 359 NIRCcam (Obs 1)) Warning (Form): Science observations should be linked to at least one other compatible science observation by an Aperture PA Offset of 1-14 degrees</p> <p>(Wolf 359 NIRCcam (Obs 1)) Warning (Form): Specified offset will be added to offset from Coronagraphic Offsets file in the SOC PRD</p> <p>(Visit 1:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.</p>									
<b>Fixed Targets</b>	<b>#</b>	<b>Name</b>	<b>Target Coordinates</b>		<b>Targ. Coord. Corrections</b>			<b>Miscellaneous</b>		
	(1)	Wolf-359	RA: 10 56 28.9209 (164.1205038d) Dec: +07 00 53.00 (7.01472d) Equinox: J2000		Proper Motion RA: -3866.3379999999997 mas/yr Proper Motion Dec: -2699.2149999159665 mas/yr Parallax: 0.4151794" Epoch of Position: 2000					
	<p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i></p> <p><i>Parallax added by hand from the gaia measurement listed on simbad.</i></p> <p><i>Category=Star</i></p> <p><i>Description=[M dwarfs, M stars]</i></p>									
<b>Acquisition</b>	<b>#</b>	<b>Target</b>	<b>Filter</b>	<b>Target Brightness</b>	<b>Readout Pattern</b>	<b>Groups/Int</b>	<b>Integrations/Exp</b>	<b>Total Integrations</b>	<b>Total Exposure Time</b>	<b>ETC Wkbk.Calc ID</b>
	1	SAME	F335M	BRIGHT (ND Square)	MEDIUM8	9	1	1	4.467	177664
<b>Template</b>	<b>Module</b>		<b>Occulting Mask</b>		<b>Obtain Astrometric Confirmation Images?</b>		<b>Subarray</b>		<b>Dither Pattern</b>	
	A		MASK335R		true		SUB320A335R		NONE	
<b>Confirmation</b>	<b>#</b>	<b>Conf. Readout Pattern</b>		<b>Conf. Groups/Int</b>	<b>Conf. Integrations/Exp</b>		<b>Conf. Total Integrations</b>		<b>Conf. Total Exposure Time</b>	<b>Conf. Total Dithers</b>
	1	RAPID		3	2		2		75.157	1
<b>Spectral Elements</b>	<b>#</b>	<b>Short Filter</b>	<b>Long Filter</b>	<b>Readout Pattern</b>	<b>Groups/Int</b>	<b>Integrations/Exp</b>	<b>Total Dithers</b>	<b>Total Integrations</b>	<b>Total Exposure Time</b>	<b>ETC Wkbk.Calc ID</b>
	1	F200W	F444W	MEDIUM8	8	36	1	36	3041.087	

Proposal 6122 - Observation 1 - Cool kids on the block: The direct detection of cold ice giants and gas giants orbiting young low-mass ...

<b>PSF References</b>	Ross 154 (Obs 3) (Filters [F200W/F444W]) DX Cancri NIRCcam (Obs 5) (Filters [F200W/F444W]) AD Leo NIRCcam (Obs 7) (Filters [F200W/F444W]) EV Lac NIRCcam (Obs 9) (Filters [F200W/F444W]) YZ CMi NIRCcam (Obs 11) (Filters [F200W/F444W]) Additional Justification: true
<b>Special Requirements</b>	Offset -0.006 arcsec, -0.012 arcsec No Parallel Attachments Group Observations 1, 2, 7, 8, 9, 10, Non-interruptible

Proposal 6122 - Observation 2 - Cool kids on the block: The direct detection of cold ice giants and gas giants orbiting young low-mass ...

Thu Jun 12 16:00:09 GMT 2025

<b>Observation</b>	<p><b>Proposal 6122, Observation 2: Wolf 359 MIRI</b></p> <p><b>Diagnostic Status: Warning</b></p> <p>Observing Template: MIRI Imaging</p>										
<b>Diagnostics</b>	(Visit 2:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.										
<b>Fixed Targets</b>	<b>#</b>	<b>Name</b>	<b>Target Coordinates</b>			<b>Targ. Coord. Corrections</b>			<b>Miscellaneous</b>		
	(1)	Wolf-359	RA: 10 56 28.9209 (164.1205038d) Dec: +07 00 53.00 (7.01472d) Equinox: J2000			Proper Motion RA: -3866.337999999997 mas/yr Proper Motion Dec: -2699.2149999159665 mas/yr Parallax: 0.4151794" Epoch of Position: 2000					
	<p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i></p> <p><i>Parallax added by hand from the gaia measurement listed on simbad.</i></p> <p><i>Category=Star</i></p> <p><i>Description=[M dwarfs, M stars]</i></p>										
<b>Template</b>	<p><b>Subarray</b></p> <p>SUB256</p>										
<b>Dithers</b>	<b>#</b>	<b>Dither Type</b>	<b>Starting Point</b>	<b>Number of Points</b>	<b>Points</b>	<b>Starting Set</b>	<b>Number of Sets</b>	<b>Optimized For</b>	<b>Direction</b>	<b>Pattern Size</b>	
	1	CYCLING	1	4						DEFAULT	
<b>Spectral Elements</b>	<b>#</b>	<b>Filter</b>	<b>Readout Pattern</b>	<b>Groups/Int</b>	<b>Integrations/Exp</b>	<b>Exposures/Dith</b>	<b>Dither</b>	<b>Total Dithers</b>	<b>Total Integrations</b>	<b>Total Exposure Time</b>	<b>ETC Wkbk.Calc ID</b>
	1	F2100W	FASTR1	11	250	1	Dither 1	4	1000	3593.042	143676
<b>Special Requirements</b>	Group Observations 1, 2, 7, 8, 9, 10, Non-interruptible										

Proposal 6122 - Observation 13 - Cool kids on the block: The direct detection of cold ice giants and gas giants orbiting young low-mas...

Thu Jun 12 16:00:09 GMT 2025

<b>Observation</b>	<p><b>Proposal 6122, Observation 13: Wolf 359 MIRI</b></p> <p><b>Diagnostic Status: Warning</b></p> <p>Observing Template: MIRI Imaging</p>										
<b>Diagnostics</b>	(Visit 13:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.										
<b>Fixed Targets</b>	#	Name	Target Coordinates			Targ. Coord. Corrections			Miscellaneous		
	(1)	Wolf-359	RA: 10 56 28.9209 (164.1205038d) Dec: +07 00 53.00 (7.01472d) Equinox: J2000			Proper Motion RA: -3866.337999999997 mas/yr Proper Motion Dec: -2699.2149999159665 mas/yr Parallax: 0.4151794" Epoch of Position: 2000					
	<p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i></p> <p><i>Parallax added by hand from the gaia measurement listed on simbad.</i></p> <p><i>Category=Star</i></p> <p><i>Description=[M dwarfs, M stars]</i></p>										
<b>Template</b>	<p><b>Subarray</b></p> <p>SUB256</p>										
<b>Dithers</b>	#	Dither Type	Starting Point	Number of Points	Points	Starting Set	Number of Sets	Optimized For	Direction	Pattern Size	
	1	CYCLING	1	4						DEFAULT	
<b>Spectral Elements</b>	#	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Exposures/Dith	Dither	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
	1	F2100W	FASTR1	11	250	1	Dither 1	4	1000	3593.042	143676
<b>Special Requirements</b>	13 After 14 by 0 Days to 10 Days										

Proposal 6122 - Observation 3 - Cool kids on the block: The direct detection of cold ice giants and gas giants orbiting young low-mass ...

Thu Jun 12 16:00:10 GMT 2025

<b>Observation</b>	<p><b>Proposal 6122, Observation 3: Ross 154</b></p> <p><b>Diagnostic Status: Warning</b></p> <p>Observing Template: NIRCcam Coronagraphic Imaging</p>									
<b>Diagnostics</b>	<p>(Ross 154 (Obs 3)) Warning (Form): By checking 'Additional justification', this observation is identified as part of a self reference survey. Remember to provide justification for this in the technical description text of your PDF attachment.</p> <p>(Ross 154 (Obs 3)) Warning (Form): Coronagraphic Science and PSF Reference observations should be executed contiguously via a Group/Sequence Observations Link.</p> <p>(Ross 154 (Obs 3)) Warning (Form): Science observations should be linked to at least one other compatible science observation by an Aperture PA Offset of 1-14 degrees</p> <p>(Ross 154 (Obs 3)) Warning (Form): Specified offset will be added to offset from Coronagraphic Offsets file in the SOC PRD</p> <p>(Visit 3:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.</p>									
<b>Fixed Targets</b>	<b>#</b>	<b>Name</b>	<b>Target Coordinates</b>		<b>Targ. Coord. Corrections</b>			<b>Miscellaneous</b>		
	(2)	Ross-154	RA: 18 49 49.3638 (282.4556825d) Dec: -23 50 10.45 (-23.83624d) Equinox: J2000		Proper Motion RA: 639.368 mas/yr Proper Motion Dec: -193.95800002257602 mas/yr Parallax: 0.3360266" Epoch of Position: 2000					
	<p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i></p> <p><i>Parallax added by hand from the gaia measurement listed on simbad.</i></p> <p><i>Category=Star</i></p> <p><i>Description=[M dwarfs, M stars]</i></p>									
<b>Acquisition</b>	<b>#</b>	<b>Target</b>	<b>Filter</b>	<b>Target Brightness</b>	<b>Readout Pattern</b>	<b>Groups/Int</b>	<b>Integrations/Exp</b>	<b>Total Integrations</b>	<b>Total Exposure Time</b>	<b>ETC Wkbk.Calc ID</b>
	1	2 Ross-154	F335M	BRIGHT (ND Square)	MEDIUM8	9	1	1	4.467	177664
<b>Template</b>	<b>Module</b>		<b>Occulting Mask</b>		<b>Obtain Astrometric Confirmation Images?</b>		<b>Subarray</b>		<b>Dither Pattern</b>	
	A		MASK335R		true		SUB320A335R		NONE	
<b>Confirmation</b>	<b>#</b>	<b>Conf. Readout Pattern</b>		<b>Conf. Groups/Int</b>	<b>Conf. Integrations/Exp</b>		<b>Conf. Total Integrations</b>	<b>Conf. Total Exposure Time</b>		<b>Conf. Total Dithers</b>
	1	RAPID		3	2		2	75.157		1
<b>Spectral Elements</b>	<b>#</b>	<b>Short Filter</b>	<b>Long Filter</b>	<b>Readout Pattern</b>	<b>Groups/Int</b>	<b>Integrations/Exp</b>	<b>Total Dithers</b>	<b>Total Integrations</b>	<b>Total Exposure Time</b>	<b>ETC Wkbk.Calc ID</b>
	1	F200W	F444W	MEDIUM8	8	36	1	36	3041.087	

Proposal 6122 - Observation 3 - Cool kids on the block: The direct detection of cold ice giants and gas giants orbiting young low-mass ...

<b>PSF References</b>	Wolf 359 NIRCcam (Obs 1) (Filters [F200W/F444W]) DX Cancri NIRCcam (Obs 5) (Filters [F200W/F444W]) AD Leo NIRCcam (Obs 7) (Filters [F200W/F444W]) EV Lac NIRCcam (Obs 9) (Filters [F200W/F444W]) YZ CMi NIRCcam (Obs 11) (Filters [F200W/F444W]) Additional Justification: true
<b>Special Requirements</b>	Offset -0.01 arcsec, -0.018 arcsec No Parallel Attachments Group Observations 3, 4, 5, 6, 11, 12, 14, Non-interruptible

Proposal 6122 - Observation 4 - Cool kids on the block: The direct detection of cold ice giants and gas giants orbiting young low-mass ...

Thu Jun 12 16:00:10 GMT 2025

<b>Observation</b>	<b>Proposal 6122, Observation 4: Ross 154 MIRI</b> <b>Diagnostic Status: Warning</b> Observing Template: MIRI Imaging										
<b>Diagnostics</b>	(Visit 4:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.										
<b>Fixed Targets</b>	#	Name	Target Coordinates			Targ. Coord. Corrections			Miscellaneous		
	(2)	Ross-154	RA: 18 49 49.3638 (282.4556825d) Dec: -23 50 10.45 (-23.83624d) Equinox: J2000			Proper Motion RA: 639.368 mas/yr Proper Motion Dec: -193.95800002257602 mas/yr Parallax: 0.3360266" Epoch of Position: 2000					
	<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.                      Parallax added by hand from the gaia measurement listed on simbad.                      Category=Star                      Description=[M dwarfs, M stars]</i>										
<b>Template</b>	<b>Subarray</b> SUB256										
<b>Dithers</b>	#	Dither Type	Starting Point	Number of Points	Points	Starting Set	Number of Sets	Optimized For	Direction	Pattern Size	
	1	CYCLING	1	4						DEFAULT	
<b>Spectral Elements</b>	#	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Exposures/Dith	Dither	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
	1	F2100W	FASTR1	7	375	1	Dither 1	4	1500	3593.042	143676
<b>Special Requirements</b>	Group Observations 3, 4, 5, 6, 11, 12, 14, Non-interruptible										

Proposal 6122 - Observation 104 - Cool kids on the block: The direct detection of cold ice giants and gas giants orbiting young low-ma...

Thu Jun 12 16:00:10 GMT 2025

<b>Observation</b>	<p><b>Proposal 6122, Observation 104: Ross 154 MIRI</b></p> <p><b>Diagnostic Status: Warning</b></p> <p>Observing Template: MIRI Imaging</p>										
<b>Diagnostics</b>	<p>(Visit 104:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.</p> <p>(Ross 154 MIRI (Obs 104)) Informational (Form): The Visit Planner and Spike may produce different schedulability results.</p>										
<b>Fixed Targets</b>	<b>#</b>	<b>Name</b>	<b>Target Coordinates</b>			<b>Targ. Coord. Corrections</b>			<b>Miscellaneous</b>		
	(2)	Ross-154	RA: 18 49 49.3638 (282.4556825d) Dec: -23 50 10.45 (-23.83624d) Equinox: J2000			Proper Motion RA: 639.368 mas/yr Proper Motion Dec: -193.95800002257602 mas/yr Parallax: 0.3360266" Epoch of Position: 2000					
	<p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i></p> <p><i>Parallax added by hand from the gaia measurement listed on simbad.</i></p> <p><i>Category=Star</i></p> <p><i>Description=[M dwarfs, M stars]</i></p>										
<b>Template</b>	<p><b>Subarray</b></p> <p>SUB256</p>										
<b>Dithers</b>	<b>#</b>	<b>Dither Type</b>	<b>Starting Point</b>	<b>Number of Points</b>	<b>Points</b>	<b>Starting Set</b>	<b>Number of Sets</b>	<b>Optimized For</b>	<b>Direction</b>	<b>Pattern Size</b>	
	1	CYCLING	1	4						DEFAULT	
<b>Spectral Elements</b>	<b>#</b>	<b>Filter</b>	<b>Readout Pattern</b>	<b>Groups/Int</b>	<b>Integrations/Exp</b>	<b>Exposures/Dith</b>	<b>Dither</b>	<b>Total Dithers</b>	<b>Total Integrations</b>	<b>Total Exposure Time</b>	<b>ETC Wkbk.Calc ID</b>
	1	F2100W	FASTR1	5	252	1	Dither 1	4	1008	1810.299	143676
<b>Special Requirements</b>	<p>Group Observations 104, 105, Non-interruptible</p> <p>Aperture PA Offset 105 from 104 by 10 to 12 Degrees (Same offsets in V3)</p>										

Proposal 6122 - Observation 105 - Cool kids on the block: The direct detection of cold ice giants and gas giants orbiting young low-ma...

Thu Jun 12 16:00:10 GMT 2025

<b>Observation</b>	<p><b>Proposal 6122, Observation 105: Ross 154 MIRI</b></p> <p><b>Diagnostic Status: Warning</b></p> <p>Observing Template: MIRI Imaging</p>										
<b>Diagnostics</b>	<p>(Visit 105:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.</p> <p>(Ross 154 MIRI (Obs 105)) Informational (Form): The Visit Planner and Spike may produce different schedulability results.</p>										
<b>Fixed Targets</b>	<b>#</b>	<b>Name</b>	<b>Target Coordinates</b>			<b>Targ. Coord. Corrections</b>			<b>Miscellaneous</b>		
	(2)	Ross-154	RA: 18 49 49.3638 (282.4556825d) Dec: -23 50 10.45 (-23.83624d) Equinox: J2000			Proper Motion RA: 639.368 mas/yr Proper Motion Dec: -193.95800002257602 mas/yr Parallax: 0.3360266" Epoch of Position: 2000					
	<p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i></p> <p><i>Parallax added by hand from the gaia measurement listed on simbad.</i></p> <p><i>Category=Star</i></p> <p><i>Description=[M dwarfs, M stars]</i></p>										
<b>Template</b>	<p><b>Subarray</b></p> <p>SUB256</p>										
<b>Dithers</b>	<b>#</b>	<b>Dither Type</b>	<b>Starting Point</b>	<b>Number of Points</b>	<b>Points</b>	<b>Starting Set</b>	<b>Number of Sets</b>	<b>Optimized For</b>	<b>Direction</b>	<b>Pattern Size</b>	
	1	CYCLING	5	4						DEFAULT	
<b>Spectral Elements</b>	<b>#</b>	<b>Filter</b>	<b>Readout Pattern</b>	<b>Groups/Int</b>	<b>Integrations/Exp</b>	<b>Exposures/Dith</b>	<b>Dither</b>	<b>Total Dithers</b>	<b>Total Integrations</b>	<b>Total Exposure Time</b>	<b>ETC Wkbk.Calc ID</b>
	1	F2100W	FASTR1	5	252	1	Dither 1	4	1008	1810.299	143676
<b>Special Requirements</b>	<p>Group Observations 104, 105, Non-interruptible</p> <p>Aperture PA Offset 105 from 104 by 10 to 12 Degrees (Same offsets in V3)</p>										

Proposal 6122 - Observation 5 - Cool kids on the block: The direct detection of cold ice giants and gas giants orbiting young low-mass ...

Thu Jun 12 16:00:10 GMT 2025

<b>Observation</b>	<p><b>Proposal 6122, Observation 5: DX Cancri NIRCcam</b></p> <p><b>Diagnostic Status: Warning</b></p> <p>Observing Template: NIRCcam Coronagraphic Imaging</p>									
<b>Diagnostics</b>	<p>(DX Cancri NIRCcam (Obs 5)) Warning (Form): By checking 'Additional justification', this observation is identified as part of a self reference survey. Remember to provide justification for this in the technical description text of your PDF attachment.</p> <p>(DX Cancri NIRCcam (Obs 5)) Warning (Form): Coronagraphic Science and PSF Reference observations should be executed contiguously via a Group/Sequence Observations Link.</p> <p>(DX Cancri NIRCcam (Obs 5)) Warning (Form): Science observations should be linked to at least one other compatible science observation by an Aperture PA Offset of 1-14 degrees</p> <p>(DX Cancri NIRCcam (Obs 5)) Warning (Form): Specified offset will be added to offset from Coronagraphic Offsets file in the SOC PRD</p> <p>(Visit 5:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.</p>									
<b>Fixed Targets</b>	<b>#</b>	<b>Name</b>	<b>Target Coordinates</b>		<b>Targ. Coord. Corrections</b>			<b>Miscellaneous</b>		
	(3)	DX-Cancri	RA: 08 29 49.3528 (127.4556367d) Dec: +26 46 33.62 (26.77601d) Equinox: J2000		Proper Motion RA: -1113.694 mas/yr Proper Motion Dec: -612.1910000501884 mas/yr Parallax: 0.2792496" Epoch of Position: 2000					
	<p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i></p> <p><i>Parallax added by hand from the gaia measurement listed on simbad.</i></p> <p><i>Category=Star</i></p> <p><i>Description=[M dwarfs, M stars]</i></p>									
<b>Acquisition</b>	<b>#</b>	<b>Target</b>	<b>Filter</b>	<b>Target Brightness</b>	<b>Readout Pattern</b>	<b>Groups/Int</b>	<b>Integrations/Exp</b>	<b>Total Integrations</b>	<b>Total Exposure Time</b>	<b>ETC Wkbk.Calc ID</b>
	1	3 DX-Cancri	F335M	BRIGHT (ND Square)	SHALLOW2	33	1	1	8.179	177664
<b>Template</b>	<b>Module</b>		<b>Occulting Mask</b>		<b>Obtain Astrometric Confirmation Images?</b>		<b>Subarray</b>		<b>Dither Pattern</b>	
	A		MASK335R		true		SUB320A335R		NONE	
<b>Confirmation</b>	<b>#</b>	<b>Conf. Readout Pattern</b>		<b>Conf. Groups/Int</b>	<b>Conf. Integrations/Exp</b>		<b>Conf. Total Integrations</b>	<b>Conf. Total Exposure Time</b>		<b>Conf. Total Dithers</b>
	1	RAPID		3	2		2	75.157		1
<b>Spectral Elements</b>	<b>#</b>	<b>Short Filter</b>	<b>Long Filter</b>	<b>Readout Pattern</b>	<b>Groups/Int</b>	<b>Integrations/Exp</b>	<b>Total Dithers</b>	<b>Total Integrations</b>	<b>Total Exposure Time</b>	<b>ETC Wkbk.Calc ID</b>
	1	F200W	F444W	MEDIUM8	8	36	1	36	3041.087	

Proposal 6122 - Observation 5 - Cool kids on the block: The direct detection of cold ice giants and gas giants orbiting young low-mass ...

<b>PSF References</b>	Wolf 359 NIRCcam (Obs 1) (Filters [F200W/F444W]) Ross 154 (Obs 3) (Filters [F200W/F444W]) AD Leo NIRCcam (Obs 7) (Filters [F200W/F444W]) EV Lac NIRCcam (Obs 9) (Filters [F200W/F444W]) YZ CMi NIRCcam (Obs 11) (Filters [F200W/F444W]) Additional Justification: true
<b>Special Requirements</b>	Offset -0.01 arcsec, -0.018 arcsec No Parallel Attachments Group Observations 3, 4, 5, 6, 11, 12, 14, Non-interruptible

Proposal 6122 - Observation 6 - Cool kids on the block: The direct detection of cold ice giants and gas giants orbiting young low-mass ...

Thu Jun 12 16:00:10 GMT 2025

<b>Observation</b>	<p><b>Proposal 6122, Observation 6: DX Cancri MIRI</b></p> <p><b>Diagnostic Status: Warning</b></p> <p>Observing Template: MIRI Imaging</p>										
<b>Diagnostics</b>	(Visit 6:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.										
<b>Fixed Targets</b>	#	Name	Target Coordinates			Targ. Coord. Corrections			Miscellaneous		
	(3)	DX-Cancri	RA: 08 29 49.3528 (127.4556367d) Dec: +26 46 33.62 (26.77601d) Equinox: J2000			Proper Motion RA: -1113.694 mas/yr Proper Motion Dec: -612.1910000501884 mas/yr Parallax: 0.2792496" Epoch of Position: 2000					
	<p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i></p> <p><i>Parallax added by hand from the gaia measurement listed on simbad.</i></p> <p><i>Category=Star</i></p> <p><i>Description=[M dwarfs, M stars]</i></p>										
<b>Template</b>	<p><b>Subarray</b></p> <p>SUB256</p>										
<b>Dithers</b>	#	Dither Type	Starting Point	Number of Points	Points	Starting Set	Number of Sets	Optimized For	Direction	Pattern Size	
	1	CYCLING	1	4						DEFAULT	
<b>Spectral Elements</b>	#	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Exposures/Dith	Dither	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
	1	F2100W	FASTR1	11	266	1	Dither 1	4	1064	3823.073	143676
<b>Special Requirements</b>	Group Observations 3, 4, 5, 6, 11, 12, 14, Non-interruptible										

Proposal 6122 - Observation 7 - Cool kids on the block: The direct detection of cold ice giants and gas giants orbiting young low-mass ...

Thu Jun 12 16:00:10 GMT 2025

<b>Observation</b>	<p><b>Proposal 6122, Observation 7: AD Leo NIRCam</b></p> <p><b>Diagnostic Status: Warning</b></p> <p>Observing Template: NIRCam Coronagraphic Imaging</p>									
<b>Diagnostics</b>	<p>(AD Leo NIRCam (Obs 7)) Warning (Form): By checking 'Additional justification', this observation is identified as part of a self reference survey. Remember to provide justification for this in the technical description text of your PDF attachment.</p> <p>(AD Leo NIRCam (Obs 7)) Warning (Form): Coronagraphic Science and PSF Reference observations should be executed contiguously via a Group/Sequence Observations Link.</p> <p>(AD Leo NIRCam (Obs 7)) Warning (Form): Science observations should be linked to at least one other compatible science observation by an Aperture PA Offset of 1-14 degrees</p> <p>(AD Leo NIRCam (Obs 7)) Warning (Form): Specified offset will be added to offset from Coronagraphic Offsets file in the SOC PRD</p> <p>(Visit 7:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.</p>									
<b>Fixed Targets</b>	<b>#</b>	<b>Name</b>	<b>Target Coordinates</b>	<b>Targ. Coord. Corrections</b>			<b>Miscellaneous</b>			
	(4)	AD-Leo	RA: 10 19 36.2808 (154.9011700d) Dec: +19 52 12.01 (19.87000d) Equinox: J2000	Proper Motion RA: -498.62 mas/yr Proper Motion Dec: -43.42799993537483 mas/yr Parallax: 0.2014064" Epoch of Position: 2000						
	<p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i></p> <p><i>Parallax added by hand from the gaia measurement listed on simbad.</i></p> <p><i>Category=Star</i></p> <p><i>Description=[M dwarfs, M stars]</i></p>									
<b>Acquisition</b>	<b>#</b>	<b>Target</b>	<b>Filter</b>	<b>Target Brightness</b>	<b>Readout Pattern</b>	<b>Groups/Int</b>	<b>Integrations/Exp</b>	<b>Total Integrations</b>	<b>Total Exposure Time</b>	<b>ETC Wkbk.Calc ID</b>
	1	SAME	F335M	BRIGHT (ND Square)	MEDIUM2	9	1	1	4.166	177664
<b>Template</b>	<b>Module</b>		<b>Occulting Mask</b>		<b>Obtain Astrometric Confirmation Images?</b>		<b>Subarray</b>		<b>Dither Pattern</b>	
	A		MASK335R		true		SUB320A335R		NONE	
<b>Confirmation</b>	<b>#</b>	<b>Conf. Readout Pattern</b>		<b>Conf. Groups/Int</b>	<b>Conf. Integrations/Exp</b>		<b>Conf. Total Integrations</b>	<b>Conf. Total Exposure Time</b>		<b>Conf. Total Dithers</b>
	1	RAPID		3	2		2	75.157		1
<b>Spectral Elements</b>	<b>#</b>	<b>Short Filter</b>	<b>Long Filter</b>	<b>Readout Pattern</b>	<b>Groups/Int</b>	<b>Integrations/Exp</b>	<b>Total Dithers</b>	<b>Total Integrations</b>	<b>Total Exposure Time</b>	<b>ETC Wkbk.Calc ID</b>
	1	F200W	F444W	MEDIUM8	8	36	1	36	3041.087	

Proposal 6122 - Observation 7 - Cool kids on the block: The direct detection of cold ice giants and gas giants orbiting young low-mass ...

<b>PSF References</b>	Wolf 359 NIRCcam (Obs 1) (Filters [F200W/F444W]) Ross 154 (Obs 3) (Filters [F200W/F444W]) DX Cancri NIRCcam (Obs 5) (Filters [F200W/F444W]) EV Lac NIRCcam (Obs 9) (Filters [F200W/F444W]) YZ CMi NIRCcam (Obs 11) (Filters [F200W/F444W]) Additional Justification: true
<b>Special Requirements</b>	Offset -0.006 arcsec, -0.012 arcsec No Parallel Attachments Group Observations 1, 2, 7, 8, 9, 10, Non-interruptible

Proposal 6122 - Observation 14 - Cool kids on the block: The direct detection of cold ice giants and gas giants orbiting young low-mas...

Thu Jun 12 16:00:10 GMT 2025

<b>Observation</b>	<p><b>Proposal 6122, Observation 14: AD Leo NIRCam</b></p> <p><b>Diagnostic Status: Warning</b></p> <p>Observing Template: NIRCam Coronagraphic Imaging</p>									
<b>Diagnostics</b>	<p>(AD Leo NIRCam (Obs 14)) Warning (Form): By checking 'Additional justification', this observation is identified as part of a self reference survey. Remember to provide justification for this in the technical description text of your PDF attachment.</p> <p>(AD Leo NIRCam (Obs 14)) Warning (Form): Coronagraphic Science and PSF Reference observations should be executed contiguously via a Group/Sequence Observations Link.</p> <p>(AD Leo NIRCam (Obs 14)) Warning (Form): Science observations should be linked to at least one other compatible science observation by an Aperture PA Offset of 1-14 degrees</p> <p>(AD Leo NIRCam (Obs 14)) Warning (Form): Specified offset will be added to offset from Coronagraphic Offsets file in the SOC PRD</p> <p>(Visit 14:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.</p>									
<b>Fixed Targets</b>	<b>#</b>	<b>Name</b>	<b>Target Coordinates</b>		<b>Targ. Coord. Corrections</b>			<b>Miscellaneous</b>		
	(4)	AD-Leo	RA: 10 19 36.2808 (154.9011700d) Dec: +19 52 12.01 (19.87000d) Equinox: J2000		Proper Motion RA: -498.62 mas/yr Proper Motion Dec: -43.42799993537483 mas/yr Parallax: 0.2014064" Epoch of Position: 2000					
	<p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i></p> <p><i>Parallax added by hand from the gaia measurement listed on simbad.</i></p> <p><i>Category=Star</i></p> <p><i>Description=[M dwarfs, M stars]</i></p>									
<b>Acquisition</b>	<b>#</b>	<b>Target</b>	<b>Filter</b>	<b>Target Brightness</b>	<b>Readout Pattern</b>	<b>Groups/Int</b>	<b>Integrations/Exp</b>	<b>Total Integrations</b>	<b>Total Exposure Time</b>	<b>ETC Wkbk.Calc ID</b>
	1	SAME	F335M	BRIGHT (ND Square)	MEDIUM2	9	1	1	4.166	177664
<b>Template</b>	<b>Module</b>		<b>Occulting Mask</b>		<b>Obtain Astrometric Confirmation Images?</b>		<b>Subarray</b>		<b>Dither Pattern</b>	
	A		MASK335R		true		SUB320A335R		NONE	
<b>Confirmation</b>	<b>#</b>	<b>Conf. Readout Pattern</b>		<b>Conf. Groups/Int</b>	<b>Conf. Integrations/Exp</b>	<b>Conf. Total Integrations</b>	<b>Conf. Total Exposure Time</b>	<b>Conf. Total Dithers</b>		
	1	RAPID		3	2	2	75.157	1		
<b>Spectral Elements</b>	<b>#</b>	<b>Short Filter</b>	<b>Long Filter</b>	<b>Readout Pattern</b>	<b>Groups/Int</b>	<b>Integrations/Exp</b>	<b>Total Dithers</b>	<b>Total Integrations</b>	<b>Total Exposure Time</b>	<b>ETC Wkbk.Calc ID</b>
	1	F200W	F444W	MEDIUM8	8	36	1	36	3041.087	

Proposal 6122 - Observation 14 - Cool kids on the block: The direct detection of cold ice giants and gas giants orbiting young low-mas...

<b>PSF References</b>	Wolf 359 NIRCcam (Obs 1) (Filters [F200W/F444W]) Ross 154 (Obs 3) (Filters [F200W/F444W]) DX Cancri NIRCcam (Obs 5) (Filters [F200W/F444W]) EV Lac NIRCcam (Obs 9) (Filters [F200W/F444W]) YZ CMi NIRCcam (Obs 11) (Filters [F200W/F444W]) Additional Justification: true
<b>Special Requirements</b>	Offset -0.01 arcsec, -0.018 arcsec No Parallel Attachments 13 After 14 by 0 Days to 10 Days Group Observations 3, 4, 5, 6, 11, 12, 14, Non-interruptible

Proposal 6122 - Observation 8 - Cool kids on the block: The direct detection of cold ice giants and gas giants orbiting young low-mass ...

Thu Jun 12 16:00:10 GMT 2025

<b>Observation</b>	<p><b>Proposal 6122, Observation 8: AD Leo MIRI</b></p> <p><b>Diagnostic Status: Warning</b></p> <p>Observing Template: MIRI Imaging</p>										
<b>Diagnostics</b>	(Visit 8:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.										
<b>Fixed Targets</b>	<b>#</b>	<b>Name</b>	<b>Target Coordinates</b>			<b>Targ. Coord. Corrections</b>			<b>Miscellaneous</b>		
	(4)	AD-Leo	RA: 10 19 36.2808 (154.9011700d) Dec: +19 52 12.01 (19.87000d) Equinox: J2000			Proper Motion RA: -498.62 mas/yr Proper Motion Dec: -43.42799993537483 mas/yr Parallax: 0.2014064" Epoch of Position: 2000					
	<p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i></p> <p><i>Parallax added by hand from the gaia measurement listed on simbad.</i></p> <p><i>Category=Star</i></p> <p><i>Description=[M dwarfs, M stars]</i></p>										
<b>Template</b>	<p><b>Subarray</b></p> <p>SUB256</p>										
<b>Dithers</b>	<b>#</b>	<b>Dither Type</b>	<b>Starting Point</b>	<b>Number of Points</b>	<b>Points</b>	<b>Starting Set</b>	<b>Number of Sets</b>	<b>Optimized For</b>	<b>Direction</b>	<b>Pattern Size</b>	
	1	CYCLING	1	4						DEFAULT	
<b>Spectral Elements</b>	<b>#</b>	<b>Filter</b>	<b>Readout Pattern</b>	<b>Groups/Int</b>	<b>Integrations/Exp</b>	<b>Exposures/Dith</b>	<b>Dither</b>	<b>Total Dithers</b>	<b>Total Integrations</b>	<b>Total Exposure Time</b>	<b>ETC Wkbk.Calc ID</b>
	1	F2100W	FASTR1	5	400	1	Dither 1	4	1600	2874.194	143676
<b>Special Requirements</b>	Group Observations 1, 2, 7, 8, 9, 10, Non-interruptible										

Proposal 6122 - Observation 9 - Cool kids on the block: The direct detection of cold ice giants and gas giants orbiting young low-mass ...

Thu Jun 12 16:00:10 GMT 2025

<b>Observation</b>	<b>Proposal 6122, Observation 9: EV Lac NIRCcam</b> <b>Diagnostic Status: Warning</b> Observing Template: NIRCcam Coronagraphic Imaging									
<b>Diagnostics</b>	(EV Lac NIRCcam (Obs 9)) Warning (Form): By checking 'Additional justification', this observation is identified as part of a self reference survey. Remember to provide justification for this in the technical description text of your PDF attachment. (EV Lac NIRCcam (Obs 9)) Warning (Form): Coronagraphic Science and PSF Reference observations should be executed contiguously via a Group/Sequence Observations Link. (EV Lac NIRCcam (Obs 9)) Warning (Form): Science observations should be linked to at least one other compatible science observation by an Aperture PA Offset of 1-14 degrees (EV Lac NIRCcam (Obs 9)) Warning (Form): Specified offset will be added to offset from Coronagraphic Offsets file in the SOC PRD (Visit 9:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.									
<b>Fixed Targets</b>	<b>#</b>	<b>Name</b>	<b>Target Coordinates</b>		<b>Targ. Coord. Corrections</b>			<b>Miscellaneous</b>		
	(5)	EV-Lac	RA: 22 46 49.7313 (341.7072137d) Dec: +44 20 2.37 (44.33399d) Equinox: J2000		Proper Motion RA: -706.216 mas/yr Proper Motion Dec: -458.91999996001687 mas/yr Parallax: 0.1979573" Epoch of Position: 2000					
	<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.                      Parallax added by hand from the gaia measurement listed on simbad.                      Category=Star                      Description=[M dwarfs, M stars]</i>									
<b>Acquisition</b>	<b>#</b>	<b>Target</b>	<b>Filter</b>	<b>Target Brightness</b>	<b>Readout Pattern</b>	<b>Groups/Int</b>	<b>Integrations/Exp</b>	<b>Total Integrations</b>	<b>Total Exposure Time</b>	<b>ETC Wkbk.Calc ID</b>
	1	SAME	F335M	BRIGHT (ND Square)	MEDIUM2	9	1	1	4.166	177664
<b>Template</b>	<b>Module</b>		<b>Occulting Mask</b>		<b>Obtain Astrometric Confirmation Images?</b>		<b>Subarray</b>		<b>Dither Pattern</b>	
	A		MASK335R		true		SUB320A335R		NONE	
<b>Confirmation</b>	<b>#</b>	<b>Conf. Readout Pattern</b>	<b>Conf. Groups/Int</b>	<b>Conf. Integrations/Exp</b>	<b>Conf. Total Integrations</b>	<b>Conf. Total Exposure Time</b>	<b>Conf. Total Dithers</b>			
	1	RAPID	3	2	2	75.157	1			
<b>Spectral Elements</b>	<b>#</b>	<b>Short Filter</b>	<b>Long Filter</b>	<b>Readout Pattern</b>	<b>Groups/Int</b>	<b>Integrations/Exp</b>	<b>Total Dithers</b>	<b>Total Integrations</b>	<b>Total Exposure Time</b>	<b>ETC Wkbk.Calc ID</b>
	1	F200W	F444W	MEDIUM8	8	36	1	36	3041.087	

Proposal 6122 - Observation 9 - Cool kids on the block: The direct detection of cold ice giants and gas giants orbiting young low-mass ...

<b>PSF References</b>	Wolf 359 NIRCcam (Obs 1) (Filters [F200W/F444W]) Ross 154 (Obs 3) (Filters [F200W/F444W]) DX Cancri NIRCcam (Obs 5) (Filters [F200W/F444W]) AD Leo NIRCcam (Obs 7) (Filters [F200W/F444W]) YZ CMi NIRCcam (Obs 11) (Filters [F200W/F444W]) Additional Justification: true
<b>Special Requirements</b>	Offset -0.006 arcsec, -0.012 arcsec No Parallel Attachments Group Observations 1, 2, 7, 8, 9, 10, Non-interruptible

Proposal 6122 - Observation 10 - Cool kids on the block: The direct detection of cold ice giants and gas giants orbiting young low-mas...

Thu Jun 12 16:00:10 GMT 2025

<b>Observation</b>	<p><b>Proposal 6122, Observation 10: EV Lac MIRI</b></p> <p><b>Diagnostic Status: Warning</b></p> <p>Observing Template: MIRI Imaging</p>										
<b>Diagnostics</b>	(Visit 10:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.										
<b>Fixed Targets</b>	#	Name	Target Coordinates			Targ. Coord. Corrections			Miscellaneous		
	(5)	EV-Lac	RA: 22 46 49.7313 (341.7072137d) Dec: +44 20 2.37 (44.33399d) Equinox: J2000			Proper Motion RA: -706.216 mas/yr Proper Motion Dec: -458.91999996001687 mas/yr Parallax: 0.1979573" Epoch of Position: 2000					
	<p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i></p> <p><i>Parallax added by hand from the gaia measurement listed on simbad.</i></p> <p><i>Category=Star</i></p> <p><i>Description=[M dwarfs, M stars]</i></p>										
<b>Template</b>	<p><b>Subarray</b></p> <p>SUB256</p>										
<b>Dithers</b>	#	Dither Type	Starting Point	Number of Points	Points	Starting Set	Number of Sets	Optimized For	Direction	Pattern Size	
	1	CYCLING	1	4						DEFAULT	
<b>Spectral Elements</b>	#	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Exposures/Dith	Dither	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
	1	F2100W	FASTR1	7	375	1	Dither 1	4	1500	3593.042	143676
<b>Special Requirements</b>	Group Observations 1, 2, 7, 8, 9, 10, Non-interruptible										

Proposal 6122 - Observation 11 - Cool kids on the block: The direct detection of cold ice giants and gas giants orbiting young low-mas...

Thu Jun 12 16:00:10 GMT 2025

<b>Observation</b>	<b>Proposal 6122, Observation 11: YZ CMi NIRCam</b> <b>Diagnostic Status: Warning</b> Observing Template: NIRCam Coronagraphic Imaging									
<b>Diagnostics</b>	(YZ CMi NIRCam (Obs 11)) Warning (Form): By checking 'Additional justification', this observation is identified as part of a self reference survey. Remember to provide justification for this in the technical description text of your PDF attachment. (YZ CMi NIRCam (Obs 11)) Warning (Form): Coronagraphic Science and PSF Reference observations should be executed contiguously via a Group/Sequence Observations Link. (YZ CMi NIRCam (Obs 11)) Warning (Form): Science observations should be linked to at least one other compatible science observation by an Aperture PA Offset of 1-14 degrees (YZ CMi NIRCam (Obs 11)) Warning (Form): Specified offset will be added to offset from Coronagraphic Offsets file in the SOC PRD (Visit 11:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.									
<b>Fixed Targets</b>	#	Name	Target Coordinates		Targ. Coord. Corrections			Miscellaneous		
	(6)	YZ-CMi	RA: 07 44 40.1723 (116.1673846d) Dec: +03 33 8.88 (3.55247d) Equinox: J2000		Proper Motion RA: -347.782 mas/yr Proper Motion Dec: -445.70199997906457 mas/yr Parallax: 0.1669769" Epoch of Position: 2000					
	<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.                      Parallax added by hand from the gaia measurement listed on simbad.                      Category=Star                      Description=[M dwarfs, M stars]</i>									
<b>Acquisition</b>	#	Target	Filter	Target Brightness	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
	1	SAME	F335M	BRIGHT (ND Square)	MEDIUM2	9	1	1	4.166	177664
<b>Template</b>	Module		Occulting Mask		Obtain Astrometric Confirmation Images?		Subarray		Dither Pattern	
	A		MASK335R		true		SUB320A335R		NONE	
<b>Confirmation</b>	#	Conf. Readout Pattern		Conf. Groups/Int	Conf. Integrations/Exp		Conf. Total Integrations	Conf. Total Exposure Time		Conf. Total Dithers
	1	RAPID		3	2		2	75.157		1
<b>Spectral Elements</b>	#	Short Filter	Long Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
	1	F200W	F444W	MEDIUM8	8	36	1	36	3041.087	

Proposal 6122 - Observation 11 - Cool kids on the block: The direct detection of cold ice giants and gas giants orbiting young low-mas...

<b>PSF References</b>	Wolf 359 NIRCcam (Obs 1) (Filters [F200W/F444W]) Ross 154 (Obs 3) (Filters [F200W/F444W]) DX Cancri NIRCcam (Obs 5) (Filters [F200W/F444W]) AD Leo NIRCcam (Obs 7) (Filters [F200W/F444W]) EV Lac NIRCcam (Obs 9) (Filters [F200W/F444W]) Additional Justification: true
<b>Special Requirements</b>	Offset -0.01 arcsec, -0.018 arcsec No Parallel Attachments Group Observations 3, 4, 5, 6, 11, 12, 14, Non-interruptible

Proposal 6122 - Observation 12 - Cool kids on the block: The direct detection of cold ice giants and gas giants orbiting young low-mas...

Thu Jun 12 16:00:10 GMT 2025

<b>Observation</b>	<p><b>Proposal 6122, Observation 12: YZ CMi MIRI</b></p> <p><b>Diagnostic Status: Warning</b></p> <p>Observing Template: MIRI Imaging</p>										
<b>Diagnostics</b>	(Visit 12:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.										
<b>Fixed Targets</b>	#	Name	Target Coordinates			Targ. Coord. Corrections			Miscellaneous		
	(6)	YZ-CMi	RA: 07 44 40.1723 (116.1673846d) Dec: +03 33 8.88 (3.55247d) Equinox: J2000			Proper Motion RA: -347.782 mas/yr Proper Motion Dec: -445.70199997906457 mas/yr Parallax: 0.1669769" Epoch of Position: 2000					
	<p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i></p> <p><i>Parallax added by hand from the gaia measurement listed on simbad.</i></p> <p><i>Category=Star</i></p> <p><i>Description=[M dwarfs, M stars]</i></p>										
<b>Template</b>	<p><b>Subarray</b></p> <p>SUB256</p>										
<b>Dithers</b>	#	Dither Type	Starting Point	Number of Points	Points	Starting Set	Number of Sets	Optimized For	Direction	Pattern Size	
	1	CYCLING	1	4						DEFAULT	
<b>Spectral Elements</b>	#	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Exposures/Dith	Dither	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
	1	F2100W	FASTR1	7	375	1	Dither 1	4	1500	3593.042	143676
<b>Special Requirements</b>	Group Observations 3, 4, 5, 6, 11, 12, 14, Non-interruptible										