



9095 - Combining Emission and Transmission Spectroscopy to reveal Exo-Neptune Aerosols, Chemistry, and Formation

Cycle: 4, Proposal Category: GO

INVESTIGATORS

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Prof. Eliza M.-R. Kempton (CoI)	University of Chicago
Dr. Michael Radica (CoI)	University of Chicago
Dr. Maria E Steinrueck (CoI)	University of Chicago
Dr. Romain Allart (CoI) (CSA Member)	Universite de Montreal

OBSERVATIONS

<i>Folder</i>	<i>Observation</i>	<i>Label</i>	<i>Observing Template</i>	<i>Science Target</i>
Transits				
	2	TOI674-transit-NIRISS SOSS	NIRISS Single-Object Slitless Spectroscopy	(1) TOI-674
	3	TOI674-transit-NIRSpecG395M	NIRSpec Bright Object Time Series	(1) TOI-674
	4	TOI674-transit1-MIRILRS	MIRI Low Resolution Spectroscopy	(1) TOI-674
	5	TOI674-transit2-MIRILRS	MIRI Low Resolution Spectroscopy	(1) TOI-674
	6	TOI674-transit3-MIRILRS	MIRI Low Resolution Spectroscopy	(1) TOI-674
	7	TOI674-transit4-MIRILRS	MIRI Low Resolution Spectroscopy	(1) TOI-674
Eclipses				
	9	TOI674-eclipseFinder-NIRSpecG395M	NIRSpec Bright Object Time Series	(1) TOI-674
	10	TOI674-eclipse2-NIRSpecG395M	NIRSpec Bright Object Time Series	(1) TOI-674

ABSTRACT

Exo-Neptunes are a key exoplanet demographic: although less abundant than the smaller sub-Neptunes, they are much more numerous than the larger well-studied hot Jupiters, and can provide context to the formation of Uranus and Neptune in the solar system. However, most exo-Neptunes can only be characterized in transmission, which is plagued by aerosols especially between 550-700K. Observational constraints on cloud and haze properties are therefore direly needed to orient and interpret future observations.

We propose to conduct the comprehensive panchromatic atmospheric characterization of the 640K TOI-674 b in transmission (0.6-12 μm) and emission (3-5.2 μm) within a Small JWST program, which will serve as a community benchmark. TOI-674 b is the only warm Neptune where this search can be conducted as it is uniquely amenable for characterization in both geometries and has detected planetary features in transmission. We will combine the strengths of transmission and emission spectroscopy to achieve our three main aims.

(1) We will constrain the presence and properties of aerosols by breaking the clouds-metallicity degeneracy, probing a potential haze slope (in transmission), and constraining the temperature profile and energy budget (in emission) which dictate cloud compositions. (2) We will probe

atmospheric chemistry at the CH₄/CO transition, where both emission and transmission spectra are sensitive to a potentially high internal temperature indicative of tidal heating. (3) We will constrain the formation and migration of TOI-674 b through a precise eccentricity measurement and via our sensitivity to the atmospheric metallicity, C/O, C/S, and S/O ratios.

OBSERVING DESCRIPTION

We will observe TOI-674b in transit and in eclipse with NIRISS SOSS (1 transit), NIRSpec/G395H (1 transit, 2 eclipses), and MIRI/LRS (4 transits).

For all observations, we used the ETC to verify a lack of saturation and set Ngroups accordingly.

Transit times are all precisely known and are scheduled with a phase window slightly >1 hr in duration; all transits are scheduled with a total visit duration of twice the transit duration plus one hour.

Eclipse times for TOI-674b are constrained by their published RV+transit orbital solutions. We propagated the uncertainties on these to find that their eclipses occur 12.5 +/- 2.5 hr after orbital phase 0.5 (significantly eccentric and marginally consistent with circular). We schedule our first NIRSpec eclipse to cover the full 2sigma interval of expected mid-eclipse times. Once the eclipse is seen we use a shorter visit for the subsequent eclipse.

Proposal 9095 - Targets - Combining Emission and Transmission Spectroscopy to reveal Exo-Neptune Aerosols, Chemistry, and For...

#	Name	Target Coordinates	Targ. Coord. Corrections	Miscellaneous
(1)	TOI-674	RA: 10 58 20.9850 (164.5874375d) Dec: -36 51 29.14 (-36.85809d) Equinox: J2000	Proper Motion RA: -163.255 mas/yr Proper Motion Dec: -3.6720000480272574 mas/yr Parallax: 0.0216228" Epoch of Position: 2000	
<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i>				
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<i>Category=Star</i>				
<i>Description=[M dwarfs]</i>				
(2)	NIRSpecTA-star	RA: 10 58 23.8311 (164.5992963d) Dec: -36 51 29.92 (-36.85831d) Equinox: J2000	Proper Motion RA: -2.851 mas/yr Proper Motion Dec: -0.190 mas/yr Epoch of Position: 2016.0	
<i>Comments:</i>				
<i>Category=Star</i>				
<i>Description=[G dwarfs]</i>				

Proposal 9095 - Observation 2 - Combining Emission and Transmission Spectroscopy to reveal Exo-Neptune Aerosols, Chemistry, an...

Wed Apr 01 20:00:14 GMT 2026

Observation	Proposal 9095, Observation 2: TOI674-transit-NIRISSOSS Diagnostic Status: Warning Observing Template: NIRISS Single-Object Slitless Spectroscopy																																													
	(TOI674-transit-NIRISSOSS (Obs 2)) Warning (Form): Exposure Duration exceeds the limit of 10000.0 seconds. Above this limit it is possible that a High Gain Antenna move may occur during the exposure. (Visit 2:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.																																													
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Proposal 9095 - Observation 2 - Combining Emission and Transmission Spectroscopy to reveal Exo-Neptune Aerosols, Chemistry, an...

Special Requirements

Phase 0.95562 to 0.97711 with period 1.9771646 Days and zero-phase 2459062.541166 HJD
Aperture PA Range 85 to 95 Degrees (V3 84.43873283 to 94.43873283)
Aperture PA Range 305 to 315 Degrees (V3 304.43873283 to 314.43873283)
Time Series Observation
No Parallel Attachments

3 After 2 by 1.9 Days to 2.1 Days

Proposal 9095 - Observation 3 - Combining Emission and Transmission Spectroscopy to reveal Exo-Neptune Aerosols, Chemistry, an...

Wed Apr 01 20:00:14 GMT 2026

Observation	<p>Proposal 9095, Observation 3: TOI674-transit-NIRSpecG395M</p> <p>Diagnostic Status: Warning</p> <p>Observing Template: NIRSpec Bright Object Time Series</p>																															
Diagnostics	<p>(TOI674-transit-NIRSpecG395M (Obs 3)) Warning (Form): Exposure Duration exceeds the limit of 10000.0 seconds. Above this limit it is possible that a High Gain Antenna move may occur during the exposure.</p> <p>(Visit 3:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.</p>																															
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Template	<p>Subarray</p> <p>SUB2048</p>																															
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Proposal 9095 - Observation 3 - Combining Emission and Transmission Spectroscopy to reveal Exo-Neptune Aerosols, Chemistry, an...

Special Requirements

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Time Series Observation
No Parallel Attachments
3 After 2 by 1.9 Days to 2.1 Days

Proposal 9095 - Observation 4 - Combining Emission and Transmission Spectroscopy to reveal Exo-Neptune Aerosols, Chemistry, an...

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	(TOI674-transit1-MIRILRS (Obs 4)) Warning (Form): Exposure Duration exceeds the limit of 10000.0 seconds. Above this limit it is possible that a High Gain Antenna move may occur during the exposure. (Visit 4:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.																									
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Pointing Verification	#	PV Readout Pattern	PV Groups/Int	PV Integrations/Exp	PV Total Integrations	PV Exposures/Dith	PV Total Dithers	PV Total Exposure Time	Optional ETC ID	Filter																
	1	FASTR1	6	1	1	1	1	0.954		F560W																

Proposal 9095 - Observation 4 - Combining Emission and Transmission Spectroscopy to reveal Exo-Neptune Aerosols, Chemistry, an...

Spectral Elements	#	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Exposures/Dith	Total Dithers	Total Exposure Time	Optional ETC ID
Special Requirements	1	FASTR1	63	1130	1130	1	1	11501.614	218152
	Phase 0.95562 to 0.97711 with period 1.9771646 Days and zero-phase 2459062.541166 HJD Aperture PA Range 114.83544897 to 134.83544897 Degrees (V3 110.0 to 130.0) Aperture PA Range 164.83544897 to 254.83544897 Degrees (V3 160.0 to 250.0) Aperture PA Range 284.83544897 to 319.83544897 Degrees (V3 280.0 to 315.0) Aperture PA Range 344.83544897 to 74.83544897 Degrees (V3 340.0 to 70.0) Time Series Observation No Parallel Attachments								

Proposal 9095 - Observation 5 - Combining Emission and Transmission Spectroscopy to reveal Exo-Neptune Aerosols, Chemistry, an...

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Observation	Proposal 9095, Observation 5: TOI674-transit2-MIRILRS Diagnostic Status: Warning Observing Template: MIRI Low Resolution Spectroscopy																												
	(TOI674-transit2-MIRILRS (Obs 5)) Warning (Form): Exposure Duration exceeds the limit of 10000.0 seconds. Above this limit it is possible that a High Gain Antenna move may occur during the exposure. (Visit 5:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.																												
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	#	PV Readout Pattern	PV Groups/Int	PV Integrations/Exp	PV Total Integrations	PV Exposures/Dith	PV Total Dithers	PV Total Exposure Time	Optional ETC ID	Filter																			
1	FASTR1	6	1	1	1	1	0.954		F560W																				

Proposal 9095 - Observation 5 - Combining Emission and Transmission Spectroscopy to reveal Exo-Neptune Aerosols, Chemistry, an...

Spectral Elements	#	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Exposures/Dith	Total Dithers	Total Exposure Time	Optional ETC ID
Special Requirements	1	FASTR1	63	1130	1130	1	1	11501.614	218152
	Phase 0.95562 to 0.97711 with period 1.9771646 Days and zero-phase 2459062.541166 HJD Aperture PA Range 114.83544897 to 134.83544897 Degrees (V3 110.0 to 130.0) Aperture PA Range 164.83544897 to 254.83544897 Degrees (V3 160.0 to 250.0) Aperture PA Range 284.83544897 to 319.83544897 Degrees (V3 280.0 to 315.0) Aperture PA Range 344.83544897 to 74.83544897 Degrees (V3 340.0 to 70.0) Time Series Observation No Parallel Attachments								

Proposal 9095 - Observation 6 - Combining Emission and Transmission Spectroscopy to reveal Exo-Neptune Aerosols, Chemistry, an...

Wed Apr 01 20:00:14 GMT 2026

Observation	Proposal 9095, Observation 6: TOI674-transit3-MIRILRS Diagnostic Status: Warning Observing Template: MIRI Low Resolution Spectroscopy																									
	(TOI674-transit3-MIRILRS (Obs 6)) Warning (Form): Exposure Duration exceeds the limit of 10000.0 seconds. Above this limit it is possible that a High Gain Antenna move may occur during the exposure. (Visit 6:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.																									
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	#	Name	Target Coordinates	Targ. Coord. Corrections	Miscellaneous																					
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Dithers	#	Dither Type	No. Spectral Steps	Spectral Step Offset	No. Spatial Steps	Spatial Step Offset																				
	1	NONE																								
Pointing Verification	#	PV Readout Pattern	PV Groups/Int	PV Integrations/Exp	PV Total Integrations	PV Exposures/Dith	PV Total Dithers	PV Total Exposure Time	Optional ETC ID	Filter																
	1	FASTR1	6	1	1	1	1	0.954		F560W																

Proposal 9095 - Observation 6 - Combining Emission and Transmission Spectroscopy to reveal Exo-Neptune Aerosols, Chemistry, an...

Spectral Elements	#	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Exposures/Dith	Total Dithers	Total Exposure Time	Optional ETC ID
		1	FASTR1	63	1130	1130	1	1	11501.614
Special Requirements	Phase 0.95562 to 0.97711 with period 1.9771646 Days and zero-phase 2459062.541166 HJD Aperture PA Range 114.83544897 to 134.83544897 Degrees (V3 110.0 to 130.0) Aperture PA Range 164.83544897 to 254.83544897 Degrees (V3 160.0 to 250.0) Aperture PA Range 284.83544897 to 319.83544897 Degrees (V3 280.0 to 315.0) Aperture PA Range 344.83544897 to 74.83544897 Degrees (V3 340.0 to 70.0) Time Series Observation No Parallel Attachments								

Proposal 9095 - Observation 7 - Combining Emission and Transmission Spectroscopy to reveal Exo-Neptune Aerosols, Chemistry, an...

Wed Apr 01 20:00:14 GMT 2026

Observation	Proposal 9095, Observation 7: TOI674-transit4-MIRILRS Diagnostic Status: Warning Observing Template: MIRI Low Resolution Spectroscopy																									
	(TOI674-transit4-MIRILRS (Obs 7)) Warning (Form): Exposure Duration exceeds the limit of 10000.0 seconds. Above this limit it is possible that a High Gain Antenna move may occur during the exposure. (Visit 7:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.																									
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	1	FASTR1	6	1	1	1	1	0.954		F560W																

Proposal 9095 - Observation 7 - Combining Emission and Transmission Spectroscopy to reveal Exo-Neptune Aerosols, Chemistry, an...

Spectral Elements	#	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Exposures/Dith	Total Dithers	Total Exposure Time	Optional ETC ID
	1	FASTR1	87	821	821	1	1	11490.163	218152
Special Requirements	Phase 0.95562 to 0.97711 with period 1.9771430 Days and zero-phase 2458641.4045520 HJD Aperture PA Range 114.83544897 to 134.83544897 Degrees (V3 110.0 to 130.0) Aperture PA Range 164.83544897 to 254.83544897 Degrees (V3 160.0 to 250.0) Aperture PA Range 284.83544897 to 319.83544897 Degrees (V3 280.0 to 315.0) Aperture PA Range 344.83544897 to 74.83544897 Degrees (V3 340.0 to 70.0) Time Series Observation No Parallel Attachments								

Proposal 9095 - Observation 9 - Combining Emission and Transmission Spectroscopy to reveal Exo-Neptune Aerosols, Chemistry, an...

Wed Apr 01 20:00:14 GMT 2026

Observation	<p>Proposal 9095, Observation 9: TOI674-eclipseFinder-NIRSpecG395M</p> <p>Diagnostic Status: Warning</p> <p>Observing Template: NIRSpec Bright Object Time Series</p>																															
	<p>(TOI674-eclipseFinder-NIRSpecG395M (Obs 9)) Warning (Form): Exposure Duration exceeds the limit of 10000.0 seconds. Above this limit it is possible that a High Gain Antenna move may occur during the exposure.</p> <p>(Visit 9:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.</p>																															
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1	2 NIRSpecTA-star	WATA	SUB32	CLEAR	NRSRAPID	3	1	1	0.08	218152																						
Template	<p>Subarray</p> <p>SUB2048</p>																															
Spectral Elements	<table border="1"> <thead> <tr> <th>#</th> <th>Grating/Filter</th> <th>Readout Pattern</th> <th>Groups/Int</th> <th>Integrations/Exp</th> <th>Exposures/Dith</th> <th>Total Dithers</th> <th>Total Integrations</th> <th>Total Exposure Time</th> <th>Optional ETC ID</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>G395M/F290LP</td> <td>NRSRAPID</td> <td>12</td> <td>990</td> <td>1</td> <td>1</td> <td>990</td> <td>11629.015</td> <td>218152</td> </tr> </tbody> </table>										#	Grating/Filter	Readout Pattern	Groups/Int	Integrations/Exp	Exposures/Dith	Total Dithers	Total Integrations	Total Exposure Time	Optional ETC ID	1	G395M/F290LP	NRSRAPID	12	990	1	1	990	11629.015	218152		
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Proposal 9095 - Observation 9 - Combining Emission and Transmission Spectroscopy to reveal Exo-Neptune Aerosols, Chemistry, an...

Special Requirements

Phase 0.45417 to 0.47566 with period 1.9771646 Days and zero-phase 2459062.541166 HJD
Time Series Observation
No Parallel Attachments

Proposal 9095 - Observation 10 - Combining Emission and Transmission Spectroscopy to reveal Exo-Neptune Aerosols, Chemistry, a...

Wed Apr 01 20:00:14 GMT 2026

Observation	<p>Proposal 9095, Observation 10: TOI674-eclipse2-NIRSpecG395M</p> <p>Diagnostic Status: Warning</p> <p>Observing Template: NIRSpec Bright Object Time Series</p>																															
	<p>(TOI674-eclipse2-NIRSpecG395M (Obs 10)) Warning (Form): Exposure Duration exceeds the limit of 10000.0 seconds. Above this limit it is possible that a High Gain Antenna move may occur during the exposure.</p> <p>(Visit 10:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.</p>																															
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	#	Target	TA Method	Subarray	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Exposure Time	Optional ETC ID																					
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Template	<p>Subarray</p> <p>SUB2048</p>																															
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Proposal 9095 - Observation 10 - Combining Emission and Transmission Spectroscopy to reveal Exo-Neptune Aerosols, Chemistry, a...

Special Requirements

Phase 0.45417 to 0.47566 with period 1.9771646 Days and zero-phase 2459062.541166 HJD
Time Series Observation
No Parallel Attachments
On Hold TOI-674b NIRSpec eclipse on hold, pending identification of eclipse time with first "eclipseFinder" eclipse visit with NIRSpec