



9548 - NIRCcam and MIRI observations of a double-shell planetary nebula

Cycle: 4, Proposal Category: DD

INVESTIGATORS

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OBSERVATIONS

<i>Folder</i>	<i>Observation</i>	<i>Label</i>	<i>Observing Template</i>	<i>Science Target</i>
Observation Folder				
	1	Double-Shell-PN-MIRI	MIRI Imaging	(1) Double-Shell-PN
	2	Double-Shell-PN-NIRC am	NIRCcam Imaging	(1) Double-Shell-PN

ABSTRACT

We will observe this double-shell planetary nebula on 6 NIRCcam narrow and wide filters, and three MIRI filters. Observations are sufficiently deep to allow for the creation of low-noise color-composite images. The target is small and symmetric enough that no PA restriction is needed and it only needs one NIRCcam module.

OBSERVING DESCRIPTION

We will observe this double-shell planetary nebula on 6 NIRCам narrow and wide filters, and three MIRI filters. Observations are sufficiently deep to allow for the creation of low-noise color-composite images. The target is small and symmetric enough that no PA restriction is needed and it only needs one NIRCам module.

Proposal 9548 - Targets - NIRCам and MIRI observations of a double-shell planetary nebula

Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Miscellaneous
	(1)	Double-Shell-PN	RA: 07 29 10.7671 (112.2948629d) Dec: +20 54 42.47 (20.91180d) Equinox: J2000	Proper Motion RA: -1.613 mas/yr Proper Motion Dec: 0.789 mas/yr Parallax: 5.45100000000001E-4" Epoch of Position: 2000	
Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. SIMBAD listed proper motion for this target. When retrieving targets with PM from SIMBAD, APT requests the coordinates be calculated with an epoch of the year 2000. Do not modify this epoch. Always review coordinates using the Target Confirmation tool, which graphically displays the PM. Category=Star Description=[Planetary nebulae nuclei, White dwarfs]					

Proposal 9548 - Observation 1 - NIRCcam and MIRI observations of a double-shell planteray nebula

Observation	Proposal 9548, Observation 1: Double-Shell-PN-MIRI										Tue Sep 30 17:00:20 GMT 2025
	Diagnostic Status: Warning										
	Observing Template: MIRI Imaging										
Diagnostics	(Visit 1:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.										
Fixed Targets	#	Name	Target Coordinates			Targ. Coord. Corrections			Miscellaneous		
	(1)	Double-Shell-PN	RA: 07 29 10.7671 (112.2948629d) Dec: +20 54 42.47 (20.91180d) Equinox: J2000			Proper Motion RA: -1.613 mas/yr Proper Motion Dec: 0.789 mas/yr Parallax: 5.451000000000001E-4" Epoch of Position: 2000					
	Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.										
	SIMBAD listed proper motion for this target. When retrieving targets with PM from SIMBAD, APT requests the coordinates be calculated with an epoch of the year 2000. Do not modify this epoch. Always review coordinates using the Target Confirmation tool, which graphically displays the PM.										
	Category=Star										
	Description=[Planetary nebulae nuclei, White dwarfs]										
Template	Subarray										
	FULL										
Dithers	#	Dither Type	Starting Point	Number of Points	Points	Starting Set	Number of Sets	Optimized For	Direction	Pattern Size	
	1	CYCLING	4	6						DEFAULT	
Spectral Elements	#	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Exposures/Dith	Dither	Total Dithers	Total Integrations	Total Exposure Time	Optional ETC ID
	1	F770W	FASTR1	20	1	1	Dither 1	6	6	333.005	
	2	F1000W	FASTR1	20	1	1	Dither 1	6	6	333.005	
	3	F1500W	FASTR1	20	1	1	Dither 1	6	6	333.005	
Special Requirements	Before Date 31-JUL-2026:00:00:00										

Proposal 9548 - Observation 2 - NIRCcam and MIRI observations of a double-shell planteray nebula

Observation	Proposal 9548, Observation 2: Double-Shell-PN-NIRCcam									Tue Sep 30 17:00:20 GMT 2025
	Diagnostic Status: Warning									
Observing Template: NIRCcam Imaging										
Diagnostics	(Visit 2:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.									
Fixed Targets	#	Name	Target Coordinates			Targ. Coord. Corrections			Miscellaneous	
	(1)	Double-Shell-PN	RA: 07 29 10.7671 (112.2948629d) Dec: +20 54 42.47 (20.91180d) Equinox: J2000			Proper Motion RA: -1.613 mas/yr Proper Motion Dec: 0.789 mas/yr Parallax: 5.451000000000001E-4" Epoch of Position: 2000				
	Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.									
	SIMBAD listed proper motion for this target. When retrieving targets with PM from SIMBAD, APT requests the coordinates be calculated with an epoch of the year 2000. Do not modify this epoch. Always review coordinates using the Target Confirmation tool, which graphically displays the PM.									
	Category=Star Description=[Planetary nebulae nuclei, White dwarfs]									
Template	Module					Subarray				
	B					FULL				
Dithers	#	Primary Dither Type		Primary Dithers		Subpixel Dither Type		Dither Size		Subpixel Positions
	1	INTRAMODULEBOX		6		STANDARD				1
Spectral Elements	#	Short Filter	Long Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Dithers	Total Exposure Time	Optional ETC ID
	1	F187N	F335M	SHALLOW4	5	1	6	6	1546.095	
	2	F212N	F470N+F444W	SHALLOW4	5	1	6	6	1546.095	
	3	F115W	F444W	SHALLOW4	5	1	6	6	1546.095	
Special Requirements	Before Date 31-JUL-2026:00:00:00									