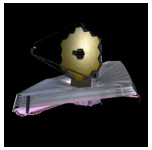

1276 - Spectroscopic Observations of WD 0806-661B

Cycle: 1, Proposal Category: GTO

INVESTIGATORS

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OBSERVATIONS

Folder	*Observation*	*Label*	*Observing Template*	*Science Target*
WD0806 Observations				
	1	NIRSPEC IFU	NIRSpec IFU Spectroscopy	(1) WD0806-661B
	2	WD search narrow	NIRCam Imaging	(2) LAWD-27-OFFSET
	3	MIRI LRS	MIRI Low Resolution Spectroscopy	(1) WD0806-661B
	4	MIRI imaging	MIRI Imaging	(1) WD0806-661B

ABSTRACT

We plan to characterize the atmosphere of the substellar mass object WD 0806-661 B by spectroscopic and photometric observations. We will also look for new companions or members of the system.

OBSERVING DESCRIPTION

Four observation types:

1) NIRSpec IFU spectra also allow search for nearby companions.

2) NIRCam image in four colors also looks for new members of the system. This image field is not centered on either the WD or BD, but instead is offset a bit from the WD in the direction of the BD, searching along the "ecliptic plane" of the sytem. However, the field also does include the WD itself to look for nearby companions to that object.

3) MIRI LRS spectrum of WD

4) MIRI imaging observations to cover the wavelength range beyond 12 microns, not accessible to LRS (F1280W, F1500W, F1800W, F2100W) .

These observations will also allow searching for cold companions.

Proposal 1276 - Targets - Spectroscopic Observations of WD 0806-661B

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Miscellaneous
(1)	WD0806-661B	RA: 08 07 14.6750 (121.8111458d) Dec: -66 18 48.68 (-66.31352d) Equinox: J2000	Proper Motion RA: 340.3 mas/yr Proper Motion Dec: -289.6 mas/yr Parallax: 0.052" Epoch of Position: 2000	
Comments: Large proper motion *Category=Star* *Description=[Brown dwarfs]* *Extended=NO*				
(2)	LAWD-27-OFFSET	RA: 08 06 58.0000 (121.7416667d) Dec: -66 18 26.74 (-66.30743d) Equinox: J2000	Proper Motion RA: 340 mas/yr Proper Motion Dec: -289 mas/yr Parallax: 0.052" Epoch of Position: 2000	
Comments: *Category=Star* *Description=[White dwarfs]* *Extended=NO*				

Observation

Proposal 1276, Observation 1: NIRSPEC IFU

Wed Sep 22 00:00:09 GMT 2021

Diagnostic Status: Warning

Observing Template: NIRSpec IFU Spectroscopy

Diagnostics

(NIRSPEC IFU (Obs 1)) Warning (Form): NGROUPS=1 may suffer from low calibration accuracy.

(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)	WD0806-661B	RA: 08 07 14.6750 (121.8111458d) Dec: -66 18 48.68 (-66.31352d) Equinox: J2000	Proper Motion RA: 340.3 mas/yr Proper Motion Dec: -289.6 mas/yr Parallax: 0.052" Epoch of Position: 2000	

Comments: Large proper motion
Category=Star
Description=[Brown dwarfs]
Extended=NO

Template

TA Method
VERIFY_ONLY

Dithers

#	Dither Type	Size	Starting Point	Number of Points	Points
1	4-POINT-NOD				

Pointing Verification

#	PV MSA Configuration	Filter	PV Readout Pattern	PV Groups/Int	PV Integrations/Exp	PV Total Dithers	PV Total Integrations	PV Total Exposure Time
1	ALLCLOSED	CLEAR	NRSIRS2RAPID	1	1	1	1	29.178

Spectral Elements

#	Grating/Filter	Readout Pattern	Groups/Int	Integrations/Exp	Leakcal	Dither	Autocal	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
1	G395M/F290LP	NRSIRS2RAPID	26	4	false	true	NONE	4	16	6302.4	

Observation

Proposal 1276, Observation 2: WD search narrow

Wed Sep 22 00:00:09 GMT 2021

Diagnostic Status: Warning

Observing Template: NIRCam 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
(2)	LAWD-27-OFFSET	RA: 08 06 58.0000 (121.7416667d) Dec: -66 18 26.74 (-66.30743d) Equinox: J2000	Proper Motion RA: 340 mas/yr Proper Motion Dec: -289 mas/yr Parallax: 0.052" Epoch of Position: 2000	

Comments:
Category=Star
Description=[White dwarfs]
Extended=NO

Template

Module	Subarray
B	FULL

Dithers

#	Primary Dither Type	Primary Dithers	Subpixel Dither Type	Dither Size	Subpixel Positions
1	INTRASCA	3	STANDARD	24" (LARGE)	1

Spectral Elements

#	Short Filter	Long Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Dithers	Total Exposure Time	ETC Wkbk.Calc ID
1	F200W	F444W	SHALLOW4	6	1	3	3	934.099	
2	F150W2	F356W	SHALLOW4	6	1	3	3	934.099	

Special Requirements

Offset -30.0 arcsec, -30.0 arcsec

Observation

Proposal 1276, Observation 3: MIRI LRS Wed Sep 22 00:00:09 GMT 2021

Diagnostic Status: Warning

Observing Template: MIRI Low Resolution Spectroscopy

Diagnostics

(Visit 3:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Miscellaneous
(1)	WD0806-661B	RA: 08 07 14.6750 (121.8111458d) Dec: -66 18 48.68 (-66.31352d) Equinox: J2000	Proper Motion RA: 340.3 mas/yr Proper Motion Dec: -289.6 mas/yr Parallax: 0.052" Epoch of Position: 2000	

Comments: Large proper motion
Category=Star
Description=[Brown dwarfs]
Extended=NO

Acquisition

#	Target	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
1	1 WD0806-661B	F1000W	FASTGRPAVG	10	1	1	111.002	12718.1

Template

Subarray	Obtain Verification Image?
FULL	true

Dithers

#	Dither Type	No. Spectral Steps	Spectral Step Offset	No. Spatial Steps	Spatial Step Offset
1	ALONG SLIT NOD				

Pointing Verification

#	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
1	FASTGRPAVG	10	1	1	111.002	12718.1

Spectral Elements

#	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Exposures/Dith	Total Dithers	Total Exposure Time	ETC Wkbk.Calc ID
1	FASTR1	290	8	16	1	2	12915.036	12718.2

Observation

Proposal 1276, Observation 4: MIRI imaging

Wed Sep 22 00:00:09 GMT 2021

Diagnostic Status: Warning

Observing Template: MIRI Imaging

Diagnostics

(Visit 4:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Miscellaneous
(1)	WD0806-661B	RA: 08 07 14.6750 (121.8111458d) Dec: -66 18 48.68 (-66.31352d) Equinox: J2000	Proper Motion RA: 340.3 mas/yr Proper Motion Dec: -289.6 mas/yr Parallax: 0.052" Epoch of Position: 2000	

Comments: Large proper motion
Category=Star
Description=[Brown dwarfs]
Extended=NO

Template

Subarray
FULL

Dithers

#	Dither Type	Starting Point	Number of Points	Points	Starting Set	Number of Sets	Optimized For	Direction	Pattern Size
1	2-Point								DEFAULT

Spectral Elements

#	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Exposures/Dith	Dither	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
1	F1280W	FASTR1	50	1	1	Dither 1	2	2	277.504	12718.3
2	F1500W	FASTR1	50	2	1	Dither 1	2	4	560.558	12718.4
3	F1800W	FASTR1	25	2	1	Dither 1	2	4	283.054	12718.5
4	F2100W	FASTR1	25	2	1	Dither 1	2	4	283.054	12718.6