



3869 - Extreme Feedback in Action: Fast and Powerful Molecular Outflows in the Local Universe

Cycle: 2, Proposal Category: GO

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 | F03158 | MIRI Medium Resolution Spectroscopy | (1) IRAS-F03158+4227 |
| | 2 | F03158-BG | MIRI Medium Resolution Spectroscopy | (2) IRAS-F03158+4227-BG |
| | 3 | F05189 | MIRI Medium Resolution Spectroscopy | (3) IRAS-F05189-2524 |
| | 4 | F05189-BG | MIRI Medium Resolution Spectroscopy | (4) IRAS-F05189-2524-BG |
| | 5 | F08572-NW | MIRI Medium Resolution Spectroscopy | (5) IRAS-F08572+3915-NW |
| | 6 | F08572-BG | MIRI Medium Resolution Spectroscopy | (7) IRAS-F08572+3915-BG |
| | 7 | F10565 | MIRI Medium Resolution Spectroscopy | (8) IRAS-F10565+2448 |

| <i>Folder</i> | <i>Observation</i> | <i>Label</i> | <i>Observing Template</i> | <i>Science Target</i> |
|---------------|--------------------|--------------|-------------------------------------|--------------------------|
| 8 | | F10565-BG | MIRI Medium Resolution Spectroscopy | (9) IRAS-F10565+2448-BG |
| 9 | | 13120 | MIRI Medium Resolution Spectroscopy | (10) IRAS-13120-5453 |
| 10 | | 13120-BG | MIRI Medium Resolution Spectroscopy | (11) IRAS-13120-5453-BG |
| 11 | | F14348-SW | MIRI Medium Resolution Spectroscopy | (13) IRAS-F14348-1447-SW |
| 12 | | F14348-BG | MIRI Medium Resolution Spectroscopy | (14) IRAS-F14348-1447-BG |
| 13 | | F14378 | MIRI Medium Resolution Spectroscopy | (15) IRAS-F14378-3651 |
| 14 | | F14378-BG | MIRI Medium Resolution Spectroscopy | (16) IRAS-F14378-3651-BG |
| 15 | | F20100 | MIRI Medium Resolution Spectroscopy | (17) IRAS-F20100-4156 |
| 16 | | F20100-BG | MIRI Medium Resolution Spectroscopy | (18) IRAS-F20100-4156-BG |
| 17 | | F20551 | MIRI Medium Resolution Spectroscopy | (19) IRAS-F20551-4250 |
| 18 | | F20551-BG | MIRI Medium Resolution Spectroscopy | (20) IRAS-F20551-4250-BG |
| 19 | | F23365 | MIRI Medium Resolution Spectroscopy | (21) IRAS-F23365+3604 |
| 20 | | F23365-BG | MIRI Medium Resolution Spectroscopy | (22) IRAS-F23365+3604-BG |
| 21 | | F11119 | MIRI Medium Resolution Spectroscopy | (23) IRAS-11119+3257 |
| 22 | | F11119-BG | MIRI Medium Resolution Spectroscopy | (24) IRAS-11119+3257-BG |

ABSTRACT

Fast and powerful outflows may quench coeval star formation in galaxies, impact galaxy morphology and the circumgalactic medium, and regulate supermassive black hole (SMBH) accretion. The likely culprits, fast-accreting quasars, are common at the epoch of peak SMBH accretion but rare locally, making it hard to catch and study this phenomenon in action, even with JWST. Fortunately, there are notable exceptions: local ultraluminous infrared galaxies (ULIRGs). Clear unambiguous signatures of outflows have been detected in these objects on all scales, ranging from X-ray/UV winds on sub-pc scales to galaxy-wide cold-molecular, cool-atomic, and warm-ionized outflows which extend to 10+ kpc. The energetics of these outflows scale with quasar power but current data are still missing the critically important coronal-ionized and warm-molecular gas phases to determine if the quasars in these systems actually affects the host evolution. The planned MIRI/MRS observations of a representative set of 13 local ULIRGs with the most robust outflow energetics to date will be analyzed with the JWST-optimized PSF decomposition software package q3dfit to (1) get an accurate and complete census of the outflow energetics, (2) constrain the dominant mechanisms that launch these outflows and their duty cycles, and (3) characterize the impact of the quasar outflow and intense radiation field on the physical state of the host ISM, coeval star formation activity, and circumgalactic medium. These exquisite data will serve as local templates to help interpret the coarser data from on-going JWST studies of distant obscured quasars. The proprietary period is shortened given the legacy value of the data.

OBSERVING DESCRIPTION

We will observe 11 ULIRGs with MIRI/MRS using the following strategy:

- We use of the SHORT, MEDIUM, and LONG wavelength settings for all pointings except for two objects which already have the SHORT setting.
- We use the FASTR1 readout mode for all observations.
- We use the 4-point all-wavelength extended source dither pattern for the on-source data cube.
- We obtain a background cube immediately after each on-source cube using the same settings as the on-source data cube, except for using the 2-point dither to save time and overhead.
- On-source exposures are (40 groups/integration) x (1, 2, 3, 4, or 5 integrations/exposure) x (4 dither positions)
- Background exposures are (40 groups/integration) x (1, 2, 3, 4, or 5 integrations/exposure) x (2 dither positions)
- We select the highly recommended simulatenous imaging with the F770W during all MIRI/MRS observations to improve astrometric accuracy and thus cube building.

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| # | Name | Target Coordinates | Targ. Coord. Corrections | Miscellaneous |
|---|---------------------|---|--|---------------|
| (1) | IRAS-F03158+4227 | RA: 03 19 12.5500 (49.8022917d) Dec: +42 38 28.00 (42.64111d) Equinox: J2000 | Epoch of Position: 2015.5 | |
| <p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> Category=Galaxy Description=[Ultraluminous infrared galaxies] Extended=YES</p> | | | | |
| (2) | IRAS-F03158+4227-BG | RA: 03 19 12.0000 (49.8000000d) Dec: +42 39 25.46 (42.65707d) Equinox: J2000 | Epoch of Position: 2015.5 | |
| <p><i>Comments: Background for MIRI/MRS observations of F03158.</i> Category=Unidentified Description=[Blank field] Extended=YES</p> | | | | |
| (3) | IRAS-F05189-2524 | RA: 05 21 1.3900 (80.2557917d) Dec: -25 21 45.36 (-25.36260d) Equinox: J2000 | Proper Motion RA: -4.367640456851976E-5 sec of time/yr Proper Motion Dec: 0.003554000000000003 arcsec/yr Epoch of Position: 2015.5 | |
| <p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> Category=Galaxy Description=[Ultraluminous infrared galaxies] Extended=YES</p> | | | | |
| (4) | IRAS-F05189-2524-BG | RA: 05 21 2.3988 (80.2599950d) Dec: -25 22 45.27 (-25.37924d) Equinox: J2000 | Proper Motion RA: -4.367640456851976E-5 sec of time/yr Proper Motion Dec: 0.003554000000000003 arcsec/yr Epoch of Position: 2015.5 | |
| <p><i>Comments: Background for MIRI/MRS observations of F05189</i> Category=Unidentified Description=[Blank field] Extended=YES</p> | | | | |
| (5) | IRAS-F08572+3915-NW | RA: 09 00 25.3640 (135.1056833d) Dec: +39 03 54.23 (39.06506d) Equinox: J2000 | Epoch of Position: 2015.5 | |
| <p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> Category=Galaxy Description=[Ultraluminous infrared galaxies] Extended=YES</p> | | | | |
| (7) | IRAS-F08572+3915-BG | RA: 09 00 26.0000 (135.1083333d) Dec: +39 04 54.23 (39.08173d) Equinox: J2000 | Epoch of Position: 2015.5 | |
| <p><i>Comments: Background for MIRI/MRS observations of F08572</i> Category=Unidentified Description=[Blank field] Extended=YES</p> | | | | |
| (8) | IRAS-F10565+2448 | RA: 10 59 18.1280 (164.8255333d) Dec: +24 32 34.74 (24.54298d) Equinox: J2000 | Epoch of Position: 2015.5 | |
| <p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> Category=Galaxy Description=[Ultraluminous infrared galaxies] Extended=YES</p> | | | | |

Fixed Targets

Proposal 3869 - Targets - Extreme Feedback in Action: Fast and Powerful Molecular Outflows in the Local Universe

| | | | |
|---|---------------------|--|---------------------------|
| (9) | IRAS-F10565+2448-BG | RA: 10 59 19.0000 (164.8291667d) Dec: +24 33 34.74 (24.55965d) Equinox: J2000 | Epoch of Position: 2015.5 |
| <p><i>Comments: Background for MIRI/MRS observations of F10565</i> Category=Unidentified Description=[Blank field] Extended=YES</p> | | | |
| (10) | IRAS-13120-5453 | RA: 13 15 6.3830 (198.7765958d) Dec: -55 09 23.50 (-55.15653d) Equinox: J2000 | Epoch of Position: 2015.5 |
| <p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> Category=Galaxy Description=[Ultraluminous infrared galaxies] Extended=YES</p> | | | |
| (11) | IRAS-13120-5453-BG | RA: 13 15 6.3830 (198.7765958d) Dec: -55 09 22.60 (-55.15628d) Equinox: J2000 | Epoch of Position: 2015.5 |
| <p><i>Comments: Background for MIRI/MRS observations of 13120</i> Category=Unidentified Description=[Blank field] Extended=YES</p> | | | |
| (13) | IRAS-F14348-1447-SW | RA: 14 37 38.2600 (219.4094167d) Dec: -15 00 24.60 (-15.00683d) Equinox: J2000 | Epoch of Position: 2015.5 |
| <p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> Category=Galaxy Description=[Ultraluminous infrared galaxies] Extended=YES</p> | | | |
| (14) | IRAS-F14348-1447-BG | RA: 14 37 39.0000 (219.4125000d) Dec: -15 01 22.80 (-15.02300d) Equinox: J2000 | Epoch of Position: 2015.5 |
| <p><i>Comments: Background for MIRI/MRS observations of F14348</i> Category=Unidentified Description=[Blank field] Extended=YES</p> | | | |
| (15) | IRAS-F14378-3651 | RA: 14 40 59.0135 (220.2458896d) Dec: -37 04 31.94 (-37.07554d) Equinox: J2000 | Epoch of Position: 2015.5 |
| <p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> Category=Galaxy Description=[Ultraluminous infrared galaxies] Extended=YES</p> | | | |
| (16) | IRAS-F14378-3651-BG | RA: 14 40 59.0000 (220.2458333d) Dec: -37 05 31.94 (-37.09221d) Equinox: J2000 | Epoch of Position: 2015.5 |
| <p><i>Comments: Background for MIRI/MRS observations of F14378-3651</i> Category=Unidentified Description=[Blank field] Extended=YES</p> | | | |

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|---|---------------------|--|--|
| (17) | IRAS-F20100-4156 | RA: 20 13 29.6000 (303.3733333d) Dec: -41 47 34.40 (-41.79289d) Equinox: J2000 | Epoch of Position: 2015.5 |
| <p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> Category=Galaxy Description=[Ultraluminous infrared galaxies] Extended=YES</p> | | | |
| (18) | IRAS-F20100-4156-BG | RA: 20 13 30.0000 (303.3750000d) Dec: -41 48 35.48 (-41.80986d) Equinox: J2000 | Epoch of Position: 2015.5 |
| <p><i>Comments: Background for MIRI/MRS observations of F20100</i> Category=Galaxy Description=[Ultraluminous infrared galaxies] Extended=YES</p> | | | |
| (19) | IRAS-F20551-4250 | RA: 20 58 26.7810 (314.6115875d) Dec: -42 39 0.20 (-42.65006d) Equinox: J2000 | Epoch of Position: 2015.5 |
| <p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> Category=Galaxy Description=[Ultraluminous infrared galaxies] Extended=YES</p> | | | |
| (20) | IRAS-F20551-4250-BG | RA: 20 58 27.0000 (314.6125000d) Dec: -42 39 59.41 (-42.66650d) Equinox: J2000 | Epoch of Position: 2015.5 |
| <p><i>Comments: Background for MIRI/MRS observations of F20551</i> Category=Galaxy Description=[Ultraluminous infrared galaxies] Extended=YES</p> | | | |
| (21) | IRAS-F23365+3604 | RA: 23 39 1.2740 (354.7553083d) Dec: +36 21 8.31 (36.35231d) Equinox: J2000 | Epoch of Position: 2015.5 |
| <p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> Category=Galaxy Description=[Ultraluminous infrared galaxies] Extended=YES</p> | | | |
| (22) | IRAS-F23365+3604-BG | RA: 23 39 1.0000 (354.7541667d) Dec: +36 22 8.77 (36.36910d) Equinox: J2000 | Epoch of Position: 2015.5 |
| <p><i>Comments: Background for MIRI/MRS observations of F23365+3604</i> Category=Unidentified Description=[Blank field] Extended=YES</p> | | | |
| (23) | IRAS-11119+3257 | RA: 11 14 38.9100 (168.6621250d) Dec: +32 41 33.34 (32.69259d) Equinox: J2000 | Proper Motion RA: -3.960802808955366E-6 sec of time/yr Proper Motion Dec: -5.0000016926787794E-5 arcsec/yr Epoch of Position: 2015.5 |
| <p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> Category=Galaxy Description=[Ultraluminous infrared galaxies] Extended=YES</p> | | | |

Proposal 3869 - Targets - Extreme Feedback in Action: Fast and Powerful Molecular Outflows in the Local Universe

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|------|--------------------|---|--|
| (24) | IRAS-11119+3257-BG | RA: 11 14 39.0000 (168.6625000d) Dec: +32 42 33.48 (32.70930d) Equinox: J2000 | Proper Motion RA: -3.960802808955366E-6 sec of time/yr Proper Motion Dec: -5.0000016926787794E-5 arcsec/yr Epoch of Position: 2015.5 |
|------|--------------------|---|--|

Comments: Background for MIRI/MRS observations of F11119

Category=Galaxy

Description=[Ultraluminous infrared galaxies]

Extended=YES

Proposal 3869 - Observation 1 - Extreme Feedback in Action: Fast and Powerful Molecular Outflows in the Local Universe

Wed Jul 05 17:03:19 GMT 2023

| | | | | | | | | | | | | | |
|--|--|------------------|--|--------|----------------------|---------------------------|------------------|----------------|-------------------------|---------------|--------------------|---------------------|------------------|
| Observation | Proposal 3869, Observation 1: F03158 Diagnostic Status: Warning Observing Template: MIRI Medium Resolution Spectroscopy Background Observations:[F03158-BG (Obs 2)] | | | | | | | | | | | | |
| | (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) | IRAS-F03158+4227 | RA: 03 19 12.5500 (49.8022917d) Dec: +42 38 28.00 (42.64111d) Equinox: J2000 | | | Epoch of Position: 2015.5 | | | | | | | |
| <i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> Category=Galaxy Description=[Ultraluminous infrared galaxies] Extended=YES | | | | | | | | | | | | | |
| Acquisition | # | Target | | | | | | | | | | | |
| | 1 | NONE | | | | | | | | | | | |
| Template | AcqFilter | Primary Channel | | | Simultaneous Imaging | | Imager Subarray | | Grating Wheel Direction | | | | |
| | F560W | ALL | | | YES | | SUB256 | | NEUTRAL | | | | |
| Dithers | # | Dither Type | | | Optimized For | | | Direction | | | | | |
| | 1 | 4-Point | | | EXTENDED SOURCE | | | NEGATIVE | | | | | |
| Spectral Elements | # | Wavelength Range | Detector | Filter | Readout Pattern | Groups/Int | Integrations/Exp | Exposures/Dith | Dither | Total Dithers | Total Integrations | Total Exposure Time | ETC Wkbk.Calc ID |
| | 1 | | IMAGER | F770W | FASTR1 | 40 | 5 | 1 | Dither 1 | 4 | 20 | 244.408 | |
| | 1 | SHORT(A) | MRSLONG | | FASTR1 | 40 | 5 | 1 | Dither 1 | 4 | 20 | 2264.433 | 133749 |
| | 1 | SHORT(A) | MRSSHORT | | FASTR1 | 40 | 5 | 1 | Dither 1 | 4 | 20 | 2264.433 | 133749 |
| | 2 | | IMAGER | F770W | FASTR1 | 40 | 5 | 1 | Dither 1 | 4 | 20 | 244.408 | |
| | 2 | MEDIUM(B) | MRSLONG | | FASTR1 | 40 | 5 | 1 | Dither 1 | 4 | 20 | 2264.433 | 133749 |
| | 2 | MEDIUM(B) | MRSSHORT | | FASTR1 | 40 | 5 | 1 | Dither 1 | 4 | 20 | 2264.433 | 133749 |
| | 3 | | IMAGER | F770W | FASTR1 | 40 | 5 | 1 | Dither 1 | 4 | 20 | 244.408 | |
| | 3 | LONG(C) | MRSLONG | | FASTR1 | 40 | 5 | 1 | Dither 1 | 4 | 20 | 2264.433 | 133749 |
| | 3 | LONG(C) | MRSSHORT | | FASTR1 | 40 | 5 | 1 | Dither 1 | 4 | 20 | 2264.433 | 133749 |

Proposal 3869 - Observation 1 - Extreme Feedback in Action: Fast and Powerful Molecular Outflows in the Local Universe

Special Requirements

Sequence Observations 1, 2, Non-interruptible

Proposal 3869 - Observation 2 - Extreme Feedback in Action: Fast and Powerful Molecular Outflows in the Local Universe

Wed Jul 05 17:03:19 GMT 2023

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|---|--|---------------------|--|----------------------|---------------------------|-----------------|-------------------|-------------------------|---------------|---------------|--------------------|---------------------|------------------|
| Observation | Proposal 3869, Observation 2: F03158-BG Diagnostic Status: Warning Observing Template: MIRI Medium Resolution Spectroscopy Background Observation For: [F03158 (Obs 1)] | | | | | | | | | | | | |
| | (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) | IRAS-F03158+4227-BG | RA: 03 19 12.0000 (49.8000000d) Dec: +42 39 25.46 (42.65707d) Equinox: J2000 | | Epoch of Position: 2015.5 | | | | | | | | |
| <i>Comments: Background for MIRI/MRS observations of F03158.</i> <i>Category=Unidentified</i> <i>Description=[Blank field]</i> <i>Extended=YES</i> | | | | | | | | | | | | | |
| Acquisition | # | Target | | | | | | | | | | | |
| | 1 | NONE | | | | | | | | | | | |
| Template | AcqFilter | Primary Channel | | Simultaneous Imaging | | Imager Subarray | | Grating Wheel Direction | | | | | |
| | FND | ALL | | YES | | SUB256 | | NEUTRAL | | | | | |
| 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 | F770W | FASTR1 | 40 | 5 | 1 | Dither 1 | 2 | 10 | 122.204 | |
| | 1 | SHORT(A) | MRSLONG | | FASTR1 | 40 | 5 | 1 | Dither 1 | 2 | 10 | 1132.216 | 133749 |
| | 1 | SHORT(A) | MRSSHORT | | FASTR1 | 40 | 5 | 1 | Dither 1 | 2 | 10 | 1132.216 | 133749 |
| | 2 | | IMAGER | F770W | FASTR1 | 40 | 5 | 1 | Dither 1 | 2 | 10 | 122.204 | |
| | 2 | MEDIUM(B) | MRSLONG | | FASTR1 | 40 | 5 | 1 | Dither 1 | 2 | 10 | 1132.216 | 133749 |
| | 2 | MEDIUM(B) | MRSSHORT | | FASTR1 | 40 | 5 | 1 | Dither 1 | 2 | 10 | 1132.216 | 133749 |
| | 3 | | IMAGER | F770W | FASTR1 | 40 | 5 | 1 | Dither 1 | 2 | 10 | 122.204 | |
| | 3 | LONG(C) | MRSLONG | | FASTR1 | 40 | 5 | 1 | Dither 1 | 2 | 10 | 1132.216 | 133749 |
| | 3 | LONG(C) | MRSSHORT | | FASTR1 | 40 | 5 | 1 | Dither 1 | 2 | 10 | 1132.216 | 133749 |

Proposal 3869 - Observation 2 - Extreme Feedback in Action: Fast and Powerful Molecular Outflows in the Local Universe

Special Requirements

Sequence Observations 1, 2, Non-interruptible

Proposal 3869 - Observation 3 - Extreme Feedback in Action: Fast and Powerful Molecular Outflows in the Local Universe

Wed Jul 05 17:03:19 GMT 2023

| | | | | | | | | | | | | | |
|--|--|-------------------------|--|---------------|------------------------|-----------------------------|--|-----------------------|------------------------|----------------------|--------------------------------|----------------------------|-------------------------|
| Observation | Proposal 3869, Observation 3: F05189 Diagnostic Status: Warning Observing Template: MIRI Medium Resolution Spectroscopy Background Observations:[F05189-BG (Obs 4)] | | | | | | | | | | | | |
| | (Visit 3:1) Warning (Form): Overheads are provisional until the Visit Planner has been run. | | | | | | | | | | | | |
| Fixed Targets | # | Name | Target Coordinates | | | | Targ. Coord. Corrections | | | | Miscellaneous | | |
| | (3) | IRAS-F05189-2524 | RA: 05 21 1.3900 (80.2557917d) Dec: -25 21 45.36 (-25.36260d) Equinox: J2000 | | | | Proper Motion RA: -4.367640456851976E-5 sec of time/yr Proper Motion Dec: 0.003554000000000003 arcsec/yr Epoch of Position: 2015.5 | | | | | | |
| <i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> Category=Galaxy Description=[Ultraluminous infrared galaxies] Extended=YES | | | | | | | | | | | | | |
| Acquisition | # | Target | | | | | | | | | | | |
| | 1 | NONE | | | | | | | | | | | |
| Template | AcqFilter | Primary Channel | | | | Simultaneous Imaging | | | Imager Subarray | | Grating Wheel Direction | | |
| | F560W | ALL | | | | YES | | | FULL | | NEUTRAL | | |
| Dithers | # | Dither Type | | | | Optimized For | | | | Direction | | | |
| | 1 | 4-Point | | | | EXTENDED SOURCE | | | | NEGATIVE | | | |
| Spectral Elements | # | Wavelength Range | Detector | Filter | Readout Pattern | Groups/Int | Integrations/Exp | Exposures/Dith | Dither | Total Dithers | Total Integrations | Total Exposure Time | ETC Wkbk.Calc ID |
| | 1 | | IMAGER | F770W | FASTR1 | 40 | 1 | 1 | Dither 1 | 4 | 4 | 444.006 | |
| | 1 | SHORT(A) | MRSLONG | | FASTR1 | 40 | 1 | 1 | Dither 1 | 4 | 4 | 444.006 | 133749 |
| | 1 | SHORT(A) | MRSSHORT | | FASTR1 | 40 | 1 | 1 | Dither 1 | 4 | 4 | 444.006 | 133749 |
| | 2 | | IMAGER | F770W | FASTR1 | 40 | 1 | 1 | Dither 1 | 4 | 4 | 444.006 | |
| | 2 | MEDIUM(B) | MRSLONG | | FASTR1 | 40 | 1 | 1 | Dither 1 | 4 | 4 | 444.006 | 133749 |
| | 2 | MEDIUM(B) | MRSSHORT | | FASTR1 | 40 | 1 | 1 | Dither 1 | 4 | 4 | 444.006 | 133749 |
| | 3 | | IMAGER | F770W | FASTR1 | 40 | 1 | 1 | Dither 1 | 4 | 4 | 444.006 | |
| | 3 | LONG(C) | MRSLONG | | FASTR1 | 40 | 1 | 1 | Dither 1 | 4 | 4 | 444.006 | 133749 |
| | 3 | LONG(C) | MRSSHORT | | FASTR1 | 40 | 1 | 1 | Dither 1 | 4 | 4 | 444.006 | 133749 |

Proposal 3869 - Observation 3 - Extreme Feedback in Action: Fast and Powerful Molecular Outflows in the Local Universe

Special Requirements

Sequence Observations 3, 4, Non-interruptible

Proposal 3869 - Observation 4 - Extreme Feedback in Action: Fast and Powerful Molecular Outflows in the Local Universe

Wed Jul 05 17:03:19 GMT 2023

| | | | | | | | | | | | | | |
|--|--|-------------------------|--|---------------|------------------------|-----------------------------|--|------------------------|------------------------|----------------------|--------------------------------|----------------------------|-------------------------|
| Observation | Proposal 3869, Observation 4: F05189-BG Diagnostic Status: Warning Observing Template: MIRI Medium Resolution Spectroscopy Background Observation For: [F05189 (Obs 3)] | | | | | | | | | | | | |
| | (Visit 4:1) Warning (Form): Overheads are provisional until the Visit Planner has been run. | | | | | | | | | | | | |
| Fixed Targets | # | Name | Target Coordinates | | | | Targ. Coord. Corrections | | | | Miscellaneous | | |
| | (4) | IRAS-F05189-2524-BG | RA: 05 21 2.3988 (80.2599950d) Dec: -25 22 45.27 (-25.37924d) Equinox: J2000 | | | | Proper Motion RA: -4.367640456851976E-5 sec of time/yr Proper Motion Dec: 0.003554000000000003 arcsec/yr Epoch of Position: 2015.5 | | | | | | |
| <i>Comments: Background for MIRI/MRS observations of F05189</i> <i>Category=Unidentified</i> <i>Description=[Blank field]</i> <i>Extended=YES</i> | | | | | | | | | | | | | |
| Acquisition | # | Target | | | | | | | | | | | |
| | 1 | NONE | | | | | | | | | | | |
| Template | AcqFilter | Primary Channel | | | | Simultaneous Imaging | | | Imager Subarray | | Grating Wheel Direction | | |
| | F560W | ALL | | | | YES | | | FULL | | NEUTRAL | | |
| 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 | F770W | FASTR1 | 40 | 1 | 1 | Dither 1 | 2 | 2 | 222.003 | |
| | 1 | SHORT(A) | MRSLONG | | FASTR1 | 40 | 1 | 1 | Dither 1 | 2 | 2 | 222.003 | 133749 |
| | 1 | SHORT(A) | MRSSHORT | | FASTR1 | 40 | 1 | 1 | Dither 1 | 2 | 2 | 222.003 | 133749 |
| | 2 | | IMAGER | F770W | FASTR1 | 40 | 1 | 1 | Dither 1 | 2 | 2 | 222.003 | |
| | 2 | MEDIUM(B) | MRSLONG | | FASTR1 | 40 | 1 | 1 | Dither 1 | 2 | 2 | 222.003 | 133749 |
| | 2 | MEDIUM(B) | MRSSHORT | | FASTR1 | 40 | 1 | 1 | Dither 1 | 2 | 2 | 222.003 | 133749 |
| | 3 | | IMAGER | F770W | FASTR1 | 40 | 1 | 1 | Dither 1 | 2 | 2 | 222.003 | |
| | 3 | LONG(C) | MRSLONG | | FASTR1 | 40 | 1 | 1 | Dither 1 | 2 | 2 | 222.003 | 133749 |
| | 3 | LONG(C) | MRSSHORT | | FASTR1 | 40 | 1 | 1 | Dither 1 | 2 | 2 | 222.003 | 133749 |

Proposal 3869 - Observation 4 - Extreme Feedback in Action: Fast and Powerful Molecular Outflows in the Local Universe

Special Requirements

Sequence Observations 3, 4, Non-interruptible

Proposal 3869 - Observation 5 - Extreme Feedback in Action: Fast and Powerful Molecular Outflows in the Local Universe

Wed Jul 05 17:03:19 GMT 2023

| | | | | | | | | | | | | | |
|--|---|---------------------|---|--------|----------------------|---------------------------|------------------|-----------------|---------------|-------------------------|--------------------|---------------------|------------------|
| Observation | Proposal 3869, Observation 5: F08572-NW Diagnostic Status: Warning Observing Template: MIRI Medium Resolution Spectroscopy Background Observations:[F08572-BG (Obs 6)] | | | | | | | | | | | | |
| | (Visit 5:1) Warning (Form): Overheads are provisional until the Visit Planner has been run. | | | | | | | | | | | | |
| Diagnosics | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| Fixed Targets | # | Name | Target Coordinates | | | Targ. Coord. Corrections | | | Miscellaneous | | | | |
| | (5) | IRAS-F08572+3915-NW | RA: 09 00 25.3640 (135.1056833d) Dec: +39 03 54.23 (39.06506d) Equinox: J2000 | | | Epoch of Position: 2015.5 | | | | | | | |
| <i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> Category=Galaxy Description=[Ultraluminous infrared galaxies] Extended=YES | | | | | | | | | | | | | |
| Acquisition | # | Target | | | | | | | | | | | |
| | 1 | NONE | | | | | | | | | | | |
| Template | AcqFilter | Primary Channel | | | Simultaneous Imaging | | | Imager Subarray | | Grating Wheel Direction | | | |
| | F560W | ALL | | | YES | | | FULL | | NEUTRAL | | | |
| Dithers | # | Dither Type | | | Optimized For | | | Direction | | | | | |
| | 1 | 4-Point | | | EXTENDED SOURCE | | | NEGATIVE | | | | | |
| Spectral Elements | # | Wavelength Range | Detector | Filter | Readout Pattern | Groups/Int | Integrations/Exp | Exposures/Dith | Dither | Total Dithers | Total Integrations | Total Exposure Time | ETC Wkbk.Calc ID |
| | 1 | | IMAGER | F770W | FASTR1 | 40 | 2 | 1 | Dither 1 | 4 | 8 | 899.113 | |
| | 1 | SHORT(A) | MRSLONG | | FASTR1 | 40 | 2 | 1 | Dither 1 | 4 | 8 | 899.113 | 133749 |
| | 1 | SHORT(A) | MRSSHORT | | FASTR1 | 40 | 2 | 1 | Dither 1 | 4 | 8 | 899.113 | 133749 |
| | 2 | | IMAGER | F770W | FASTR1 | 40 | 2 | 1 | Dither 1 | 4 | 8 | 899.113 | |
| | 2 | MEDIUM(B) | MRSLONG | | FASTR1 | 40 | 2 | 1 | Dither 1 | 4 | 8 | 899.113 | 133749 |
| | 2 | MEDIUM(B) | MRSSHORT | | FASTR1 | 40 | 2 | 1 | Dither 1 | 4 | 8 | 899.113 | 133749 |
| | 3 | | IMAGER | F770W | FASTR1 | 40 | 2 | 1 | Dither 1 | 4 | 8 | 899.113 | |
| | 3 | LONG(C) | MRSLONG | | FASTR1 | 40 | 2 | 1 | Dither 1 | 4 | 8 | 899.113 | 133749 |
| | 3 | LONG(C) | MRSSHORT | | FASTR1 | 40 | 2 | 1 | Dither 1 | 4 | 8 | 899.113 | 133749 |

Proposal 3869 - Observation 5 - Extreme Feedback in Action: Fast and Powerful Molecular Outflows in the Local Universe

Special Requirements

Sequence Observations 5, 6, Non-interruptible

Proposal 3869 - Observation 6 - Extreme Feedback in Action: Fast and Powerful Molecular Outflows in the Local Universe

Wed Jul 05 17:03:19 GMT 2023

| | | | | | | | | | | | | | |
|--|---|---------------------|---|--------|---------------------------|------------|-------------------|-----------------|---------------|-------------------------|--------------------|---------------------|------------------|
| Observation | Proposal 3869, Observation 6: F08572-BG Diagnostic Status: Warning Observing Template: MIRI Medium Resolution Spectroscopy Background Observation For: [F08572-NW (Obs 5)] | | | | | | | | | | | | |
| | (Visit 6:1) Warning (Form): Overheads are provisional until the Visit Planner has been run. | | | | | | | | | | | | |
| Fixed Targets | # | Name | Target Coordinates | | Targ. Coord. Corrections | | | | Miscellaneous | | | | |
| | (7) | IRAS-F08572+3915-BG | RA: 09 00 26.0000 (135.1083333d) Dec: +39 04 54.23 (39.08173d) Equinox: J2000 | | Epoch of Position: 2015.5 | | | | | | | | |
| Comments: Background for MIRI/MRS observations of F08572 Category=Unidentified Description=[Blank field] Extended=YES | | | | | | | | | | | | | |
| Acquisition | # | Target | | | | | | | | | | | |
| | 1 | NONE | | | | | | | | | | | |
| Template | AcqFilter | Primary Channel | | | Simultaneous Imaging | | | Imager Subarray | | Grating Wheel Direction | | | |
| | FND | ALL | | | YES | | | FULL | | NEUTRAL | | | |
| 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 | F770W | FASTR1 | 40 | 2 | 1 | Dither 1 | 2 | 4 | 449.556 | |
| | 1 | SHORT(A) | MRSLONG | | FASTR1 | 40 | 2 | 1 | Dither 1 | 2 | 4 | 449.556 | 133749 |
| | 1 | SHORT(A) | MRSSHORT | | FASTR1 | 40 | 2 | 1 | Dither 1 | 2 | 4 | 449.556 | 133749 |
| | 2 | | IMAGER | F770W | FASTR1 | 40 | 2 | 1 | Dither 1 | 2 | 4 | 449.556 | |
| | 2 | MEDIUM(B) | MRSLONG | | FASTR1 | 40 | 2 | 1 | Dither 1 | 2 | 4 | 449.556 | 133749 |
| | 2 | MEDIUM(B) | MRSSHORT | | FASTR1 | 40 | 2 | 1 | Dither 1 | 2 | 4 | 449.556 | 133749 |
| | 3 | | IMAGER | F770W | FASTR1 | 40 | 2 | 1 | Dither 1 | 2 | 4 | 449.556 | |
| | 3 | LONG(C) | MRSLONG | | FASTR1 | 40 | 2 | 1 | Dither 1 | 2 | 4 | 449.556 | 133749 |
| | 3 | LONG(C) | MRSSHORT | | FASTR1 | 40 | 2 | 1 | Dither 1 | 2 | 4 | 449.556 | 133749 |

Proposal 3869 - Observation 6 - Extreme Feedback in Action: Fast and Powerful Molecular Outflows in the Local Universe

Special Requirements

Sequence Observations 5, 6, Non-interruptible

Proposal 3869 - Observation 7 - Extreme Feedback in Action: Fast and Powerful Molecular Outflows in the Local Universe

Wed Jul 05 17:03:19 GMT 2023

| | | | | | | | | | | | | | |
|--|--|------------------|---|--------|----------------------|---------------------------|------------------|-----------------|---------------|-------------------------|--------------------|---------------------|------------------|
| Observation | Proposal 3869, Observation 7: F10565 Diagnostic Status: Warning Observing Template: MIRI Medium Resolution Spectroscopy Background Observations:[F10565-BG (Obs 8)] | | | | | | | | | | | | |
| | (Visit 7:1) Warning (Form): Overheads are provisional until the Visit Planner has been run. | | | | | | | | | | | | |
| Fixed Targets | # | Name | Target Coordinates | | | Targ. Coord. Corrections | | | Miscellaneous | | | | |
| | (8) | IRAS-F10565+2448 | RA: 10 59 18.1280 (164.8255333d) Dec: +24 32 34.74 (24.54298d) Equinox: J2000 | | | Epoch of Position: 2015.5 | | | | | | | |
| <i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> Category=Galaxy Description=[Ultraluminous infrared galaxies] Extended=YES | | | | | | | | | | | | | |
| Acquisition | # | Target | | | | | | | | | | | |
| | 1 | NONE | | | | | | | | | | | |
| Template | AcqFilter | Primary Channel | | | Simultaneous Imaging | | | Imager Subarray | | Grating Wheel Direction | | | |
| | F560W | ALL | | | YES | | | FULL | | NEUTRAL | | | |
| Dithers | # | Dither Type | | | Optimized For | | | Direction | | | | | |
| | 1 | 4-Point | | | EXTENDED SOURCE | | | NEGATIVE | | | | | |
| Spectral Elements | # | Wavelength Range | Detector | Filter | Readout Pattern | Groups/Int | Integrations/Exp | Exposures/Dith | Dither | Total Dithers | Total Integrations | Total Exposure Time | ETC Wkbk.Calc ID |
| | 1 | | IMAGER | F770W | FASTR1 | 40 | 3 | 1 | Dither 1 | 4 | 12 | 1354.22 | |
| | 1 | SHORT(A) | MRSLONG | | FASTR1 | 40 | 3 | 1 | Dither 1 | 4 | 12 | 1354.22 | 133749 |
| | 1 | SHORT(A) | MRSSHORT | | FASTR1 | 40 | 3 | 1 | Dither 1 | 4 | 12 | 1354.22 | 133749 |
| | 2 | | IMAGER | F770W | FASTR1 | 40 | 3 | 1 | Dither 1 | 4 | 12 | 1354.22 | |
| | 2 | MEDIUM(B) | MRSLONG | | FASTR1 | 40 | 3 | 1 | Dither 1 | 4 | 12 | 1354.22 | 133749 |
| | 2 | MEDIUM(B) | MRSSHORT | | FASTR1 | 40 | 3 | 1 | Dither 1 | 4 | 12 | 1354.22 | 133749 |
| | 3 | | IMAGER | F770W | FASTR1 | 40 | 3 | 1 | Dither 1 | 4 | 12 | 1354.22 | |
| | 3 | LONG(C) | MRSLONG | | FASTR1 | 40 | 3 | 1 | Dither 1 | 4 | 12 | 1354.22 | 133749 |
| | 3 | LONG(C) | MRSSHORT | | FASTR1 | 40 | 3 | 1 | Dither 1 | 4 | 12 | 1354.22 | 133749 |

Proposal 3869 - Observation 7 - Extreme Feedback in Action: Fast and Powerful Molecular Outflows in the Local Universe

Special Requirements

Sequence Observations 7, 8, Non-interruptible

Proposal 3869 - Observation 8 - Extreme Feedback in Action: Fast and Powerful Molecular Outflows in the Local Universe

Wed Jul 05 17:03:19 GMT 2023

| | | | | | | | | | | | | | |
|--|--|---------------------|---|----------------------|---------------------------|-----------------|-------------------|-------------------------|---------------|---------------|--------------------|---------------------|------------------|
| Observation | Proposal 3869, Observation 8: F10565-BG Diagnostic Status: Warning Observing Template: MIRI Medium Resolution Spectroscopy Background Observation For: [F10565 (Obs 7)] | | | | | | | | | | | | |
| | (Visit 8:1) Warning (Form): Overheads are provisional until the Visit Planner has been run. | | | | | | | | | | | | |
| Diagnosics | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| Fixed Targets | # | Name | Target Coordinates | | Targ. Coord. Corrections | | | | Miscellaneous | | | | |
| | (9) | IRAS-F10565+2448-BG | RA: 10 59 19.0000 (164.8291667d) Dec: +24 33 34.74 (24.55965d) Equinox: J2000 | | Epoch of Position: 2015.5 | | | | | | | | |
| Comments: Background for MIRI/MRS observations of F10565 Category=Unidentified Description=[Blank field] Extended=YES | | | | | | | | | | | | | |
| Acquisition | # | Target | | | | | | | | | | | |
| | 1 | NONE | | | | | | | | | | | |
| Template | AcqFilter | Primary Channel | | Simultaneous Imaging | | Imager Subarray | | Grating Wheel Direction | | | | | |
| | FND | ALL | | YES | | FULL | | NEUTRAL | | | | | |
| 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 | F770W | FASTR1 | 40 | 3 | 1 | Dither 1 | 2 | 6 | 677.11 | |
| | 1 | SHORT(A) | MRSLONG | | FASTR1 | 40 | 3 | 1 | Dither 1 | 2 | 6 | 677.11 | 133749 |
| | 1 | SHORT(A) | MRSSHORT | | FASTR1 | 40 | 3 | 1 | Dither 1 | 2 | 6 | 677.11 | 133749 |
| | 2 | | IMAGER | F770W | FASTR1 | 40 | 3 | 1 | Dither 1 | 2 | 6 | 677.11 | |
| | 2 | MEDIUM(B) | MRSLONG | | FASTR1 | 40 | 3 | 1 | Dither 1 | 2 | 6 | 677.11 | 133749 |
| | 2 | MEDIUM(B) | MRSSHORT | | FASTR1 | 40 | 3 | 1 | Dither 1 | 2 | 6 | 677.11 | 133749 |
| | 3 | | IMAGER | F770W | FASTR1 | 40 | 3 | 1 | Dither 1 | 2 | 6 | 677.11 | |
| | 3 | LONG(C) | MRSLONG | | FASTR1 | 40 | 3 | 1 | Dither 1 | 2 | 6 | 677.11 | 133749 |
| | 3 | LONG(C) | MRSSHORT | | FASTR1 | 40 | 3 | 1 | Dither 1 | 2 | 6 | 677.11 | 133749 |

Proposal 3869 - Observation 8 - Extreme Feedback in Action: Fast and Powerful Molecular Outflows in the Local Universe

Special Requirements

Sequence Observations 7, 8, Non-interruptible

Proposal 3869 - Observation 9 - Extreme Feedback in Action: Fast and Powerful Molecular Outflows in the Local Universe

Wed Jul 05 17:03:19 GMT 2023

| | | | | | | | | | | | | | |
|--|---|-------------------------|---|---------------|-----------------------------|----------------------|---------------------------------|------------------------|---------------|--------------------------------|---------------------------|----------------------------|-------------------------|
| Observation | Proposal 3869, Observation 9: 13120 Diagnostic Status: Warning Observing Template: MIRI Medium Resolution Spectroscopy Background Observations:[13120-BG (Obs 10)] | | | | | | | | | | | | |
| | (Visit 9:1) Warning (Form): Overheads are provisional until the Visit Planner has been run. | | | | | | | | | | | | |
| Fixed Targets | # | Name | Target Coordinates | | | | Targ. Coord. Corrections | | | Miscellaneous | | | |
| | (10) | IRAS-13120-5453 | RA: 13 15 6.3830 (198.7765958d) Dec: -55 09 23.50 (-55.15653d) Equinox: J2000 | | | | Epoch of Position: 2015.5 | | | | | | |
| <i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> Category=Galaxy Description=[Ultraluminous infrared galaxies] Extended=YES | | | | | | | | | | | | | |
| Acquisition | # | Target | | | | | | | | | | | |
| | 1 | NONE | | | | | | | | | | | |
| Template | AcqFilter | Primary Channel | | | Simultaneous Imaging | | | Imager Subarray | | Grating Wheel Direction | | | |
| | F560W | ALL | | | YES | | | FULL | | NEUTRAL | | | |
| Dithers | # | Dither Type | | | | Optimized For | | | | Direction | | | |
| | 1 | 4-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 | F770W | FASTR1 | 40 | 2 | 1 | Dither 1 | 4 | 8 | 899.113 | |
| | 1 | SHORT(A) | MRSLONG | | FASTR1 | 40 | 2 | 1 | Dither 1 | 4 | 8 | 899.113 | 133749 |
| | 1 | SHORT(A) | MRSSHORT | | FASTR1 | 40 | 2 | 1 | Dither 1 | 4 | 8 | 899.113 | 133749 |
| | 2 | | IMAGER | F770W | FASTR1 | 40 | 2 | 1 | Dither 1 | 4 | 8 | 899.113 | |
| | 2 | MEDIUM(B) | MRSLONG | | FASTR1 | 40 | 2 | 1 | Dither 1 | 4 | 8 | 899.113 | 133749 |
| | 2 | MEDIUM(B) | MRSSHORT | | FASTR1 | 40 | 2 | 1 | Dither 1 | 4 | 8 | 899.113 | 133749 |
| | 3 | | IMAGER | F770W | FASTR1 | 40 | 2 | 1 | Dither 1 | 4 | 8 | 899.113 | |
| | 3 | LONG(C) | MRSLONG | | FASTR1 | 40 | 2 | 1 | Dither 1 | 4 | 8 | 899.113 | 133749 |
| | 3 | LONG(C) | MRSSHORT | | FASTR1 | 40 | 2 | 1 | Dither 1 | 4 | 8 | 899.113 | 133749 |

Proposal 3869 - Observation 9 - Extreme Feedback in Action: Fast and Powerful Molecular Outflows in the Local Universe

Special Requirements

Sequence Observations 9, 10, Non-interruptible

Proposal 3869 - Observation 10 - Extreme Feedback in Action: Fast and Powerful Molecular Outflows in the Local Universe

Wed Jul 05 17:03:19 GMT 2023

| | | | | | | | | | | | | | |
|---|---|-------------------------|---|---------------|-----------------------------|---------------------------------|--------------------------|------------------------|----------------------|--------------------------------|---------------------------|----------------------------|-------------------------|
| Observation | Proposal 3869, Observation 10: 13120-BG Diagnostic Status: Warning Observing Template: MIRI Medium Resolution Spectroscopy Background Observation For: [13120 (Obs 9)] | | | | | | | | | | | | |
| | (Visit 10:1) Warning (Form): Overheads are provisional until the Visit Planner has been run. | | | | | | | | | | | | |
| Fixed Targets | # | Name | Target Coordinates | | | Targ. Coord. Corrections | | | Miscellaneous | | | | |
| | (11) | IRAS-13120-5453-BG | RA: 13 15 6.3830 (198.7765958d) Dec: -55 09 22.60 (-55.15628d) Equinox: J2000 | | | Epoch of Position: 2015.5 | | | | | | | |
| Comments: Background for MIRI/MRS observations of 13120 Category=Unidentified Description=[Blank field] Extended=YES | | | | | | | | | | | | | |
| Acquisition | # | Target | | | | | | | | | | | |
| | 1 | NONE | | | | | | | | | | | |
| Template | AcqFilter | Primary Channel | | | Simultaneous Imaging | | | Imager Subarray | | Grating Wheel Direction | | | |
| | FND | ALL | | | YES | | | FULL | | NEUTRAL | | | |
| 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 | F770W | FASTR1 | 40 | 2 | 1 | Dither 1 | 2 | 4 | 449.556 | |
| | 1 | SHORT(A) | MRSLONG | | FASTR1 | 40 | 2 | 1 | Dither 1 | 2 | 4 | 449.556 | 133749 |
| | 1 | SHORT(A) | MRSSHORT | | FASTR1 | 40 | 2 | 1 | Dither 1 | 2 | 4 | 449.556 | 133749 |
| | 2 | | IMAGER | F770W | FASTR1 | 40 | 2 | 1 | Dither 1 | 2 | 4 | 449.556 | |
| | 2 | MEDIUM(B) | MRSLONG | | FASTR1 | 40 | 2 | 1 | Dither 1 | 2 | 4 | 449.556 | 133749 |
| | 2 | MEDIUM(B) | MRSSHORT | | FASTR1 | 40 | 2 | 1 | Dither 1 | 2 | 4 | 449.556 | 133749 |
| | 3 | | IMAGER | F770W | FASTR1 | 40 | 2 | 1 | Dither 1 | 2 | 4 | 449.556 | |
| | 3 | LONG(C) | MRSLONG | | FASTR1 | 40 | 2 | 1 | Dither 1 | 2 | 4 | 449.556 | 133749 |
| | 3 | LONG(C) | MRSSHORT | | FASTR1 | 40 | 2 | 1 | Dither 1 | 2 | 4 | 449.556 | 133749 |

Proposal 3869 - Observation 10 - Extreme Feedback in Action: Fast and Powerful Molecular Outflows in the Local Universe

Special Requirements

Sequence Observations 9, 10, Non-interruptible

Proposal 3869 - Observation 11 - Extreme Feedback in Action: Fast and Powerful Molecular Outflows in the Local Universe

Wed Jul 05 17:03:19 GMT 2023

| | | | | | | | | | | | | | |
|--|---|---------------------|--|----------------------|---------------------------|-----------------|------------------|-------------------------|---------------|---------------|--------------------|---------------------|------------------|
| Observation | Proposal 3869, Observation 11: F14348-SW Diagnostic Status: Warning Observing Template: MIRI Medium Resolution Spectroscopy Background Observations:[F14348-BG (Obs 12)] | | | | | | | | | | | | |
| | (Visit 11:1) Warning (Form): Overheads are provisional until the Visit Planner has been run. | | | | | | | | | | | | |
| Fixed Targets | # | Name | Target Coordinates | | Targ. Coord. Corrections | | | | Miscellaneous | | | | |
| | (13) | IRAS-F14348-1447-SW | RA: 14 37 38.2600 (219.4094167d) Dec: -15 00 24.60 (-15.00683d) Equinox: J2000 | | Epoch of Position: 2015.5 | | | | | | | | |
| <i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> Category=Galaxy Description=[Ultraluminous infrared galaxies] Extended=YES | | | | | | | | | | | | | |
| Acquisition | # | Target | | | | | | | | | | | |
| | 1 | NONE | | | | | | | | | | | |
| Template | AcqFilter | Primary Channel | | Simultaneous Imaging | | Imager Subarray | | Grating Wheel Direction | | | | | |
| | F560W | ALL | | YES | | SUB256 | | NEUTRAL | | | | | |
| Dithers | # | Dither Type | | Optimized For | | | | Direction | | | | | |
| | 1 | 4-Point | | EXTENDED SOURCE | | | | NEGATIVE | | | | | |
| Spectral Elements | # | Wavelength Range | Detector | Filter | Readout Pattern | Groups/Int | Integrations/Exp | Exposures/Dith | Dither | Total Dithers | Total Integrations | Total Exposure Time | ETC Wkbk.Calc ID |
| | 1 | | IMAGER | F770W | FASTR1 | 40 | 4 | 1 | Dither 1 | 4 | 16 | 195.287 | |
| | 1 | SHORT(A) | MRSLONG | | FASTR1 | 40 | 4 | 1 | Dither 1 | 4 | 16 | 1809.326 | 133749 |
| | 1 | SHORT(A) | MRSSHORT | | FASTR1 | 40 | 4 | 1 | Dither 1 | 4 | 16 | 1809.326 | 133749 |
| | 2 | | IMAGER | F770W | FASTR1 | 40 | 4 | 1 | Dither 1 | 4 | 16 | 195.287 | |
| | 2 | MEDIUM(B) | MRSLONG | | FASTR1 | 40 | 4 | 1 | Dither 1 | 4 | 16 | 1809.326 | 133749 |
| | 2 | MEDIUM(B) | MRSSHORT | | FASTR1 | 40 | 4 | 1 | Dither 1 | 4 | 16 | 1809.326 | 133749 |
| | 3 | | IMAGER | F770W | FASTR1 | 40 | 4 | 1 | Dither 1 | 4 | 16 | 195.287 | |
| | 3 | LONG(C) | MRSLONG | | FASTR1 | 40 | 4 | 1 | Dither 1 | 4 | 16 | 1809.326 | 133749 |
| | 3 | LONG(C) | MRSSHORT | | FASTR1 | 40 | 4 | 1 | Dither 1 | 4 | 16 | 1809.326 | 133749 |

Proposal 3869 - Observation 11 - Extreme Feedback in Action: Fast and Powerful Molecular Outflows in the Local Universe

Special Requirements

Sequence Observations 11, 12, Non-interruptible

Proposal 3869 - Observation 12 - Extreme Feedback in Action: Fast and Powerful Molecular Outflows in the Local Universe

Wed Jul 05 17:03:19 GMT 2023

| | | | | | | | | | | | | | |
|--|---|---------------------|--|----------------------|---------------------------|-----------------|-------------------|-------------------------|---------------|---------------|--------------------|---------------------|------------------|
| Observation | Proposal 3869, Observation 12: F14348-BG Diagnostic Status: Warning Observing Template: MIRI Medium Resolution Spectroscopy Background Observation For: [F14348-SW (Obs 11)] | | | | | | | | | | | | |
| | (Visit 12:1) Warning (Form): Overheads are provisional until the Visit Planner has been run. | | | | | | | | | | | | |
| Fixed Targets | # | Name | Target Coordinates | | Targ. Coord. Corrections | | | | Miscellaneous | | | | |
| | (14) | IRAS-F14348-1447-BG | RA: 14 37 39.0000 (219.4125000d) Dec: -15 01 22.80 (-15.02300d) Equinox: J2000 | | Epoch of Position: 2015.5 | | | | | | | | |
| <i>Comments: Background for MIRI/MRS observations of F14348</i> <i>Category=Unidentified</i> <i>Description=[Blank field]</i> <i>Extended=YES</i> | | | | | | | | | | | | | |
| Acquisition | # | Target | | | | | | | | | | | |
| | 1 | NONE | | | | | | | | | | | |
| Template | AcqFilter | Primary Channel | | Simultaneous Imaging | | Imager Subarray | | Grating Wheel Direction | | | | | |
| | FND | ALL | | YES | | SUB256 | | NEUTRAL | | | | | |
| 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 | F770W | FASTR1 | 40 | 4 | 1 | Dither 1 | 2 | 8 | 97.644 | |
| | 1 | SHORT(A) | MRSLONG | | FASTR1 | 40 | 4 | 1 | Dither 1 | 2 | 8 | 904.663 | 133749 |
| | 1 | SHORT(A) | MRSSHORT | | FASTR1 | 40 | 4 | 1 | Dither 1 | 2 | 8 | 904.663 | 133749 |
| | 2 | | IMAGER | F770W | FASTR1 | 40 | 4 | 1 | Dither 1 | 2 | 8 | 97.644 | |
| | 2 | MEDIUM(B) | MRSLONG | | FASTR1 | 40 | 4 | 1 | Dither 1 | 2 | 8 | 904.663 | 133749 |
| | 2 | MEDIUM(B) | MRSSHORT | | FASTR1 | 40 | 4 | 1 | Dither 1 | 2 | 8 | 904.663 | 133749 |
| | 3 | | IMAGER | F770W | FASTR1 | 40 | 4 | 1 | Dither 1 | 2 | 8 | 97.644 | |
| | 3 | LONG(C) | MRSLONG | | FASTR1 | 40 | 4 | 1 | Dither 1 | 2 | 8 | 904.663 | 133749 |
| | 3 | LONG(C) | MRSSHORT | | FASTR1 | 40 | 4 | 1 | Dither 1 | 2 | 8 | 904.663 | 133749 |

Proposal 3869 - Observation 12 - Extreme Feedback in Action: Fast and Powerful Molecular Outflows in the Local Universe

Special Requirements

Sequence Observations 11, 12, Non-interruptible

Proposal 3869 - Observation 13 - Extreme Feedback in Action: Fast and Powerful Molecular Outflows in the Local Universe

Wed Jul 05 17:03:19 GMT 2023

| | | | | | | | | | | | | | |
|---|--|-------------------------|--|---------------|-----------------------------|----------------------|---------------------------------|------------------------|---------------|--------------------------------|---------------------------|----------------------------|-------------------------|
| Observation | Proposal 3869, Observation 13: F14378 Diagnostic Status: Warning Observing Template: MIRI Medium Resolution Spectroscopy Background Observations:[F14378-BG (Obs 14)] | | | | | | | | | | | | |
| | (Visit 13:1) Warning (Form): Overheads are provisional until the Visit Planner has been run. | | | | | | | | | | | | |
| Fixed Targets | # | Name | Target Coordinates | | | | Targ. Coord. Corrections | | | Miscellaneous | | | |
| | (15) | IRAS-F14378-3651 | RA: 14 40 59.0135 (220.2458896d) Dec: -37 04 31.94 (-37.07554d) Equinox: J2000 | | | | Epoch of Position: 2015.5 | | | | | | |
| <i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> <i>Category=Galaxy</i> <i>Description=[Ultraluminous infrared galaxies]</i> <i>Extended=YES</i> | | | | | | | | | | | | | |
| Acquisition | # | Target | | | | | | | | | | | |
| | 1 | NONE | | | | | | | | | | | |
| Template | AcqFilter | Primary Channel | | | Simultaneous Imaging | | | Imager Subarray | | Grating Wheel Direction | | | |
| | F560W | ALL | | | YES | | | SUB256 | | NEUTRAL | | | |
| Dithers | # | Dither Type | | | | Optimized For | | | | Direction | | | |
| | 1 | 4-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 | F770W | FASTR1 | 40 | 4 | 1 | Dither 1 | 4 | 16 | 195.287 | |
| | 1 | MEDIUM(B) | MRSLONG | | FASTR1 | 40 | 4 | 1 | Dither 1 | 4 | 16 | 1809.326 | 133749 |
| | 1 | MEDIUM(B) | MRSSHORT | | FASTR1 | 40 | 4 | 1 | Dither 1 | 4 | 16 | 1809.326 | 133749 |
| | 2 | | IMAGER | F770W | FASTR1 | 40 | 4 | 1 | Dither 1 | 4 | 16 | 195.287 | |
| | 2 | LONG(C) | MRSLONG | | FASTR1 | 40 | 4 | 1 | Dither 1 | 4 | 16 | 1809.326 | 133749 |
| | 2 | LONG(C) | MRSSHORT | | FASTR1 | 40 | 4 | 1 | Dither 1 | 4 | 16 | 1809.326 | 133749 |

Proposal 3869 - Observation 13 - Extreme Feedback in Action: Fast and Powerful Molecular Outflows in the Local Universe

Special Requirements

Sequence Observations 13, 14, Non-interruptible

Proposal 3869 - Observation 14 - Extreme Feedback in Action: Fast and Powerful Molecular Outflows in the Local Universe

Wed Jul 05 17:03:19 GMT 2023

| | | | | | | | | | | | | | |
|---|--|-------------------------|--|---------------|-----------------------------|---------------------------------|--------------------------|------------------------|----------------------|--------------------------------|---------------------------|----------------------------|-------------------------|
| Observation | Proposal 3869, Observation 14: F14378-BG Diagnostic Status: Warning Observing Template: MIRI Medium Resolution Spectroscopy Background Observation For: [F14378 (Obs 13)] | | | | | | | | | | | | |
| | (Visit 14:1) Warning (Form): Overheads are provisional until the Visit Planner has been run. | | | | | | | | | | | | |
| Fixed Targets | # | Name | Target Coordinates | | | Targ. Coord. Corrections | | | Miscellaneous | | | | |
| | (16) | IRAS-F14378-3651-BG | RA: 14 40 59.0000 (220.2458333d) Dec: -37 05 31.94 (-37.09221d) Equinox: J2000 | | | Epoch of Position: 2015.5 | | | | | | | |
| <i>Comments: Background for MIRI/MRS observations of F14378-3651</i> <i>Category=Unidentified</i> <i>Description=[Blank field]</i> <i>Extended=YES</i> | | | | | | | | | | | | | |
| Acquisition | # | Target | | | | | | | | | | | |
| | 1 | NONE | | | | | | | | | | | |
| Template | AcqFilter | Primary Channel | | | Simultaneous Imaging | | | Imager Subarray | | Grating Wheel Direction | | | |
| | F560W | ALL | | | YES | | | SUB256 | | NEUTRAL | | | |
| 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 | F770W | FASTR1 | 40 | 4 | 1 | Dither 1 | 2 | 8 | 97.644 | |
| | 1 | MEDIUM(B) | MRSLONG | | FASTR1 | 40 | 4 | 1 | Dither 1 | 2 | 8 | 904.663 | 133749 |
| | 1 | MEDIUM(B) | MRSSHORT | | FASTR1 | 40 | 4 | 1 | Dither 1 | 2 | 8 | 904.663 | 133749 |
| | 2 | | IMAGER | F770W | FASTR1 | 40 | 4 | 1 | Dither 1 | 2 | 8 | 97.644 | |
| | 2 | LONG(C) | MRSLONG | | FASTR1 | 40 | 4 | 1 | Dither 1 | 2 | 8 | 904.663 | 133749 |
| | 2 | LONG(C) | MRSSHORT | | FASTR1 | 40 | 4 | 1 | Dither 1 | 2 | 8 | 904.663 | 133749 |

Proposal 3869 - Observation 14 - Extreme Feedback in Action: Fast and Powerful Molecular Outflows in the Local Universe

Special Requirements

Sequence Observations 13, 14, Non-interruptible

Proposal 3869 - Observation 15 - Extreme Feedback in Action: Fast and Powerful Molecular Outflows in the Local Universe

Wed Jul 05 17:03:19 GMT 2023

| | | | | | | | | | | | | | |
|--|--|------------------|--|----------------------|---------------------------|-----------------|------------------|-------------------------|----------|---------------|--------------------|---------------------|------------------|
| Observation | Proposal 3869, Observation 15: F20100 Diagnostic Status: Warning Observing Template: MIRI Medium Resolution Spectroscopy Background Observations:[F20100-BG (Obs 16)] | | | | | | | | | | | | |
| | (Visit 15:1) Warning (Form): Overheads are provisional until the Visit Planner has been run. | | | | | | | | | | | | |
| Diagnosics | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| Fixed Targets | # | Name | Target Coordinates | | Targ. Coord. Corrections | | | Miscellaneous | | | | | |
| | (17) | IRAS-F20100-4156 | RA: 20 13 29.6000 (303.3733333d) Dec: -41 47 34.40 (-41.79289d) Equinox: J2000 | | Epoch of Position: 2015.5 | | | | | | | | |
| <i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> Category=Galaxy Description=[Ultraluminous infrared galaxies] Extended=YES | | | | | | | | | | | | | |
| Acquisition | # | Target | | | | | | | | | | | |
| | 1 | NONE | | | | | | | | | | | |
| Template | AcqFilter | Primary Channel | | Simultaneous Imaging | | Imager Subarray | | Grating Wheel Direction | | | | | |
| | F560W | ALL | | YES | | SUB256 | | NEUTRAL | | | | | |
| Dithers | # | Dither Type | | | Optimized For | | | Direction | | | | | |
| | 1 | 4-Point | | | EXTENDED SOURCE | | | NEGATIVE | | | | | |
| Spectral Elements | # | Wavelength Range | Detector | Filter | Readout Pattern | Groups/Int | Integrations/Exp | Exposures/Dith | Dither | Total Dithers | Total Integrations | Total Exposure Time | ETC Wkbk.Calc ID |
| | 1 | | IMAGER | F770W | FASTR1 | 40 | 5 | 1 | Dither 1 | 4 | 20 | 244.408 | |
| | 1 | SHORT(A) | MRSLONG | | FASTR1 | 40 | 5 | 1 | Dither 1 | 4 | 20 | 2264.433 | 133749 |
| | 1 | SHORT(A) | MRSSHORT | | FASTR1 | 40 | 5 | 1 | Dither 1 | 4 | 20 | 2264.433 | 133749 |
| | 2 | | IMAGER | F770W | FASTR1 | 40 | 5 | 1 | Dither 1 | 4 | 20 | 244.408 | |
| | 2 | MEDIUM(B) | MRSLONG | | FASTR1 | 40 | 5 | 1 | Dither 1 | 4 | 20 | 2264.433 | 133749 |
| | 2 | MEDIUM(B) | MRSSHORT | | FASTR1 | 40 | 5 | 1 | Dither 1 | 4 | 20 | 2264.433 | 133749 |
| | 3 | | IMAGER | F770W | FASTR1 | 40 | 5 | 1 | Dither 1 | 4 | 20 | 244.408 | |
| | 3 | LONG(C) | MRSLONG | | FASTR1 | 40 | 5 | 1 | Dither 1 | 4 | 20 | 2264.433 | 133749 |
| | 3 | LONG(C) | MRSSHORT | | FASTR1 | 40 | 5 | 1 | Dither 1 | 4 | 20 | 2264.433 | 133749 |

Proposal 3869 - Observation 15 - Extreme Feedback in Action: Fast and Powerful Molecular Outflows in the Local Universe

Special Requirements

Sequence Observations 15, 16, Non-interruptible

Proposal 3869 - Observation 16 - Extreme Feedback in Action: Fast and Powerful Molecular Outflows in the Local Universe

Wed Jul 05 17:03:19 GMT 2023

| | | | | | | | | | | | | | |
|--|--|-------------------------|--|---------------|-----------------------------|----------------------|---------------------------------|------------------------|---------------|--------------------------------|---------------------------|----------------------------|-------------------------|
| Observation | Proposal 3869, Observation 16: F20100-BG Diagnostic Status: Warning Observing Template: MIRI Medium Resolution Spectroscopy Background Observation For: [F20100 (Obs 15)] | | | | | | | | | | | | |
| | (Visit 16:1) Warning (Form): Overheads are provisional until the Visit Planner has been run. | | | | | | | | | | | | |
| Diagnosics | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| Fixed Targets | # | Name | Target Coordinates | | | | Targ. Coord. Corrections | | | Miscellaneous | | | |
| | (18) | IRAS-F20100-4156-BG | RA: 20 13 30.0000 (303.3750000d) Dec: -41 48 35.48 (-41.80986d) Equinox: J2000 | | | | Epoch of Position: 2015.5 | | | | | | |
| <i>Comments: Background for MIRI/MRS observations of F20100</i> <i>Category=Galaxy</i> <i>Description=[Ultraluminous infrared galaxies]</i> <i>Extended=YES</i> | | | | | | | | | | | | | |
| Acquisition | # | Target | | | | | | | | | | | |
| | 1 | NONE | | | | | | | | | | | |
| Template | AcqFilter | Primary Channel | | | Simultaneous Imaging | | | Imager Subarray | | Grating Wheel Direction | | | |
| | F560W | ALL | | | YES | | | SUB256 | | NEUTRAL | | | |
| 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 | F770W | FASTR1 | 40 | 5 | 1 | Dither 1 | 2 | 10 | 122.204 | |
| | 1 | SHORT(A) | MRSLONG | | FASTR1 | 40 | 5 | 1 | Dither 1 | 2 | 10 | 1132.216 | 133749 |
| | 1 | SHORT(A) | MRSSHORT | | FASTR1 | 40 | 5 | 1 | Dither 1 | 2 | 10 | 1132.216 | 133749 |
| | 2 | | IMAGER | F770W | FASTR1 | 40 | 5 | 1 | Dither 1 | 2 | 10 | 122.204 | |
| | 2 | MEDIUM(B) | MRSLONG | | FASTR1 | 40 | 5 | 1 | Dither 1 | 2 | 10 | 1132.216 | 133749 |
| | 2 | MEDIUM(B) | MRSSHORT | | FASTR1 | 40 | 5 | 1 | Dither 1 | 2 | 10 | 1132.216 | 133749 |
| | 3 | | IMAGER | F770W | FASTR1 | 40 | 5 | 1 | Dither 1 | 2 | 10 | 122.204 | |
| | 3 | LONG(C) | MRSLONG | | FASTR1 | 40 | 5 | 1 | Dither 1 | 2 | 10 | 1132.216 | 133749 |
| | 3 | LONG(C) | MRSSHORT | | FASTR1 | 40 | 5 | 1 | Dither 1 | 2 | 10 | 1132.216 | 133749 |

Proposal 3869 - Observation 16 - Extreme Feedback in Action: Fast and Powerful Molecular Outflows in the Local Universe

Special Requirements

Sequence Observations 15, 16, Non-interruptible

Proposal 3869 - Observation 17 - Extreme Feedback in Action: Fast and Powerful Molecular Outflows in the Local Universe

Wed Jul 05 17:03:19 GMT 2023

| | | | | | | | | | | | | | |
|--|--|------------------|---|--------|----------------------|---------------------------|------------------|-----------------|---------------|-------------------------|--------------------|---------------------|------------------|
| Observation | Proposal 3869, Observation 17: F20551 Diagnostic Status: Warning Observing Template: MIRI Medium Resolution Spectroscopy Background Observations:[F20551-BG (Obs 18)] | | | | | | | | | | | | |
| | (Visit 17:1) Warning (Form): Overheads are provisional until the Visit Planner has been run. | | | | | | | | | | | | |
| Diagnosics | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| Fixed Targets | # | Name | Target Coordinates | | | Targ. Coord. Corrections | | | Miscellaneous | | | | |
| | (19) | IRAS-F20551-4250 | RA: 20 58 26.7810 (314.6115875d) Dec: -42 39 0.20 (-42.65006d) Equinox: J2000 | | | Epoch of Position: 2015.5 | | | | | | | |
| <i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> Category=Galaxy Description=[Ultraluminous infrared galaxies] Extended=YES | | | | | | | | | | | | | |
| Acquisition | # | Target | | | | | | | | | | | |
| | 1 | NONE | | | | | | | | | | | |
| Template | AcqFilter | Primary Channel | | | Simultaneous Imaging | | | Imager Subarray | | Grating Wheel Direction | | | |
| | F560W | ALL | | | YES | | | FULL | | NEUTRAL | | | |
| Dithers | # | Dither Type | | | Optimized For | | | Direction | | | | | |
| | 1 | 4-Point | | | EXTENDED SOURCE | | | NEGATIVE | | | | | |
| Spectral Elements | # | Wavelength Range | Detector | Filter | Readout Pattern | Groups/Int | Integrations/Exp | Exposures/Dith | Dither | Total Dithers | Total Integrations | Total Exposure Time | ETC Wkbk.Calc ID |
| | 1 | | IMAGER | F770W | FASTR1 | 40 | 2 | 1 | Dither 1 | 4 | 8 | 899.113 | |
| | 1 | SHORT(A) | MRSLONG | | FASTR1 | 40 | 2 | 1 | Dither 1 | 4 | 8 | 899.113 | 133749 |
| | 1 | SHORT(A) | MRSSHORT | | FASTR1 | 40 | 2 | 1 | Dither 1 | 4 | 8 | 899.113 | 133749 |
| | 2 | | IMAGER | F770W | FASTR1 | 40 | 2 | 1 | Dither 1 | 4 | 8 | 899.113 | |
| | 2 | MEDIUM(B) | MRSLONG | | FASTR1 | 40 | 2 | 1 | Dither 1 | 4 | 8 | 899.113 | 133749 |
| | 2 | MEDIUM(B) | MRSSHORT | | FASTR1 | 40 | 2 | 1 | Dither 1 | 4 | 8 | 899.113 | 133749 |
| | 3 | | IMAGER | F770W | FASTR1 | 40 | 2 | 1 | Dither 1 | 4 | 8 | 899.113 | |
| | 3 | LONG(C) | MRSLONG | | FASTR1 | 40 | 2 | 1 | Dither 1 | 4 | 8 | 899.113 | 133749 |
| | 3 | LONG(C) | MRSSHORT | | FASTR1 | 40 | 2 | 1 | Dither 1 | 4 | 8 | 899.113 | 133749 |

Proposal 3869 - Observation 17 - Extreme Feedback in Action: Fast and Powerful Molecular Outflows in the Local Universe

Special Requirements

Sequence Observations 17, 18, Non-interruptible

Proposal 3869 - Observation 18 - Extreme Feedback in Action: Fast and Powerful Molecular Outflows in the Local Universe

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| | | | | | | | | | | | | | |
|--|--|-------------------------|--|---------------|-----------------------------|----------------------|---------------------------------|------------------------|---------------|--------------------------------|---------------------------|----------------------------|-------------------------|
| Observation | Proposal 3869, Observation 18: F20551-BG Diagnostic Status: Warning Observing Template: MIRI Medium Resolution Spectroscopy Background Observation For: [F20551 (Obs 17)] | | | | | | | | | | | | |
| | (Visit 18:1) Warning (Form): Overheads are provisional until the Visit Planner has been run. | | | | | | | | | | | | |
| Fixed Targets | # | Name | Target Coordinates | | | | Targ. Coord. Corrections | | | Miscellaneous | | | |
| | (20) | IRAS-F20551-4250-BG | RA: 20 58 27.0000 (314.6125000d) Dec: -42 39 59.41 (-42.66650d) Equinox: J2000 | | | | Epoch of Position: 2015.5 | | | | | | |
| <i>Comments: Background for MIRI/MRS observations of F20551</i> <i>Category=Galaxy</i> <i>Description=[Ultraluminous infrared galaxies]</i> <i>Extended=YES</i> | | | | | | | | | | | | | |
| Acquisition | # | Target | | | | | | | | | | | |
| | 1 | NONE | | | | | | | | | | | |
| Template | AcqFilter | Primary Channel | | | Simultaneous Imaging | | | Imager Subarray | | Grating Wheel Direction | | | |
| | F560W | ALL | | | YES | | | FULL | | NEUTRAL | | | |
| 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 | F770W | FASTR1 | 40 | 2 | 1 | Dither 1 | 2 | 4 | 449.556 | |
| | 1 | SHORT(A) | MRSLONG | | FASTR1 | 40 | 2 | 1 | Dither 1 | 2 | 4 | 449.556 | 133749 |
| | 1 | SHORT(A) | MRSSHORT | | FASTR1 | 40 | 2 | 1 | Dither 1 | 2 | 4 | 449.556 | 133749 |
| | 2 | | IMAGER | F770W | FASTR1 | 40 | 2 | 1 | Dither 1 | 2 | 4 | 449.556 | |
| | 2 | MEDIUM(B) | MRSLONG | | FASTR1 | 40 | 2 | 1 | Dither 1 | 2 | 4 | 449.556 | 133749 |
| | 2 | MEDIUM(B) | MRSSHORT | | FASTR1 | 40 | 2 | 1 | Dither 1 | 2 | 4 | 449.556 | 133749 |
| | 3 | | IMAGER | F770W | FASTR1 | 40 | 2 | 1 | Dither 1 | 2 | 4 | 449.556 | |
| | 3 | LONG(C) | MRSLONG | | FASTR1 | 40 | 2 | 1 | Dither 1 | 2 | 4 | 449.556 | 133749 |
| | 3 | LONG(C) | MRSSHORT | | FASTR1 | 40 | 2 | 1 | Dither 1 | 2 | 4 | 449.556 | 133749 |

Proposal 3869 - Observation 18 - Extreme Feedback in Action: Fast and Powerful Molecular Outflows in the Local Universe

Special Requirements

Sequence Observations 17, 18, Non-interruptible

Proposal 3869 - Observation 19 - Extreme Feedback in Action: Fast and Powerful Molecular Outflows in the Local Universe

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| | | | | | | | | | | | | | |
|--|--|-------------------------|---|---------------|-----------------------------|---------------------------------|-------------------------|-----------------------|--------------------------------|----------------------|---------------------------|----------------------------|-------------------------|
| Observation | Proposal 3869, Observation 19: F23365 Diagnostic Status: Warning Observing Template: MIRI Medium Resolution Spectroscopy Background Observations:[F23365-BG (Obs 20)] | | | | | | | | | | | | |
| | (Visit 19:1) Warning (Form): Overheads are provisional until the Visit Planner has been run. | | | | | | | | | | | | |
| Fixed Targets | # | Name | Target Coordinates | | | Targ. Coord. Corrections | | | Miscellaneous | | | | |
| | (21) | IRAS-F23365+3604 | RA: 23 39 1.2740 (354.7553083d) Dec: +36 21 8.31 (36.35231d) Equinox: J2000 | | | Epoch of Position: 2015.5 | | | | | | | |
| <i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> Category=Galaxy Description=[Ultraluminous infrared galaxies] Extended=YES | | | | | | | | | | | | | |
| Acquisition | # | Target | | | | | | | | | | | |
| | 1 | NONE | | | | | | | | | | | |
| Template | AcqFilter | Primary Channel | | | Simultaneous Imaging | | Imager Subarray | | Grating Wheel Direction | | | | |
| | F560W | ALL | | | YES | | SUB256 | | NEUTRAL | | | | |
| Dithers | # | Dither Type | | | Optimized For | | | Direction | | | | | |
| | 1 | 4-Point | | | EXTENDED SOURCE | | | NEGATIVE | | | | | |
| Spectral Elements | # | Wavelength Range | Detector | Filter | Readout Pattern | Groups/Int | Integrations/Exp | Exposures/Dith | Dither | Total Dithers | Total Integrations | Total Exposure Time | ETC Wkbk.Calc ID |
| | 1 | | IMAGER | F770W | FASTR1 | 40 | 4 | 1 | Dither 1 | 4 | 16 | 195.287 | |
| | 1 | MEDIUM(B) | MRSLONG | | FASTR1 | 40 | 4 | 1 | Dither 1 | 4 | 16 | 1809.326 | 133749 |
| | 1 | MEDIUM(B) | MRSSHORT | | FASTR1 | 40 | 4 | 1 | Dither 1 | 4 | 16 | 1809.326 | 133749 |
| | 2 | | IMAGER | F770W | FASTR1 | 40 | 4 | 1 | Dither 1 | 4 | 16 | 195.287 | |
| | 2 | LONG(C) | MRSLONG | | FASTR1 | 40 | 4 | 1 | Dither 1 | 4 | 16 | 1809.326 | 133749 |
| | 2 | LONG(C) | MRSSHORT | | FASTR1 | 40 | 4 | 1 | Dither 1 | 4 | 16 | 1809.326 | 133749 |

Proposal 3869 - Observation 19 - Extreme Feedback in Action: Fast and Powerful Molecular Outflows in the Local Universe

Special Requirements

Sequence Observations 19, 20, Non-interruptible

Proposal 3869 - Observation 20 - Extreme Feedback in Action: Fast and Powerful Molecular Outflows in the Local Universe

Wed Jul 05 17:03:19 GMT 2023

| | | | | | | | | | | | | | |
|---|--|-------------------------|---|---------------|-----------------------------|----------------------|---------------------------------|------------------------|---------------|--------------------------------|---------------------------|----------------------------|-------------------------|
| Observation | Proposal 3869, Observation 20: F23365-BG Diagnostic Status: Warning Observing Template: MIRI Medium Resolution Spectroscopy Background Observation For: [F23365 (Obs 19)] | | | | | | | | | | | | |
| | (Visit 20:1) Warning (Form): Overheads are provisional until the Visit Planner has been run. | | | | | | | | | | | | |
| Fixed Targets | # | Name | Target Coordinates | | | | Targ. Coord. Corrections | | | Miscellaneous | | | |
| | (22) | IRAS-F23365+3604-BG | RA: 23 39 1.0000 (354.7541667d) Dec: +36 22 8.77 (36.36910d) Equinox: J2000 | | | | Epoch of Position: 2015.5 | | | | | | |
| <i>Comments: Background for MIRI/MRS observations of F23365+3604</i> <i>Category=Unidentified</i> <i>Description=[Blank field]</i> <i>Extended=YES</i> | | | | | | | | | | | | | |
| Acquisition | # | Target | | | | | | | | | | | |
| | 1 | NONE | | | | | | | | | | | |
| Template | AcqFilter | Primary Channel | | | Simultaneous Imaging | | | Imager Subarray | | Grating Wheel Direction | | | |
| | F560W | ALL | | | YES | | | SUB256 | | NEUTRAL | | | |
| 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 | F770W | FASTR1 | 40 | 4 | 1 | Dither 1 | 2 | 8 | 97.644 | |
| | 1 | MEDIUM(B) | MRSLONG | | FASTR1 | 40 | 4 | 1 | Dither 1 | 2 | 8 | 904.663 | 133749 |
| | 1 | MEDIUM(B) | MRSSHORT | | FASTR1 | 40 | 4 | 1 | Dither 1 | 2 | 8 | 904.663 | 133749 |
| | 2 | | IMAGER | F770W | FASTR1 | 40 | 4 | 1 | Dither 1 | 2 | 8 | 97.644 | |
| | 2 | LONG(C) | MRSLONG | | FASTR1 | 40 | 4 | 1 | Dither 1 | 2 | 8 | 904.663 | 133749 |
| | 2 | LONG(C) | MRSSHORT | | FASTR1 | 40 | 4 | 1 | Dither 1 | 2 | 8 | 904.663 | 133749 |

Proposal 3869 - Observation 20 - Extreme Feedback in Action: Fast and Powerful Molecular Outflows in the Local Universe

Special Requirements

Sequence Observations 19, 20, Non-interruptible

Proposal 3869 - Observation 21 - Extreme Feedback in Action: Fast and Powerful Molecular Outflows in the Local Universe

Wed Jul 05 17:03:19 GMT 2023

| | | | | | | | | | | | | | |
|-------------------|--|------------------|---|--------|----------------------|--|-------------------|-----------------|---|---------------|--------------------|---------------------|------------------|
| Observation | Proposal 3869, Observation 21: F11119 Diagnostic Status: Warning Observing Template: MIRI Medium Resolution Spectroscopy Background Observations:[F11119-BG (Obs 22)] | | | | | | | | | | | | |
| | (Visit 21:1) Warning (Form): Overheads are provisional until the Visit Planner has been run. | | | | | | | | | | | | |
| Fixed Targets | # | Name | Target Coordinates | | | Targ. Coord. Corrections | | | Miscellaneous | | | | |
| | (23) | IRAS-11119+3257 | RA: 11 14 38.9100 (168.6621250d) Dec: +32 41 33.34 (32.69259d) Equinox: J2000 | | | Proper Motion RA: -3.960802808955366E-6 sec of time/yr Proper Motion Dec: -5.0000016926787794E-5 arcsec/yr Epoch of Position: 2015.5 | | | Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. Category=Galaxy Description=[Ultraluminous infrared galaxies] Extended=YES | | | | |
| Acquisition | # | Target | | | | | | | | | | | |
| | 1 | NONE | | | | | | | | | | | |
| Template | AcqFilter | Primary Channel | | | Simultaneous Imaging | | Imager Subarray | | Grating Wheel Direction | | | | |
| | F560W | ALL | | | YES | | FULL | | NEUTRAL | | | | |
| Dithers | # | Dither Type | | | Optimized For | | | Direction | | | | | |
| | 1 | 4-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 | F770W | FASTR1 | 40 | 2 | 1 | Dither 1 | 4 | 8 | 899.113 | |
| | 1 | SHORT(A) | MRSLONG | | FASTR1 | 40 | 2 | 1 | Dither 1 | 4 | 8 | 899.113 | 133749 |
| | 1 | SHORT(A) | MRSSHORT | | FASTR1 | 40 | 2 | 1 | Dither 1 | 4 | 8 | 899.113 | 133749 |
| | 2 | | IMAGER | F770W | FASTR1 | 40 | 2 | 1 | Dither 1 | 4 | 8 | 899.113 | |
| | 2 | MEDIUM(B) | MRSLONG | | FASTR1 | 40 | 2 | 1 | Dither 1 | 4 | 8 | 899.113 | 133749 |
| | 2 | MEDIUM(B) | MRSSHORT | | FASTR1 | 40 | 2 | 1 | Dither 1 | 4 | 8 | 899.113 | 133749 |
| | 3 | | IMAGER | F770W | FASTR1 | 40 | 2 | 1 | Dither 1 | 4 | 8 | 899.113 | |
| | 3 | LONG(C) | MRSLONG | | FASTR1 | 40 | 2 | 1 | Dither 1 | 4 | 8 | 899.113 | 133749 |
| | 3 | LONG(C) | MRSSHORT | | FASTR1 | 40 | 2 | 1 | Dither 1 | 4 | 8 | 899.113 | 133749 |

Proposal 3869 - Observation 21 - Extreme Feedback in Action: Fast and Powerful Molecular Outflows in the Local Universe

Special Requirements

Sequence Observations 21, 22, Non-interruptible

Proposal 3869 - Observation 22 - Extreme Feedback in Action: Fast and Powerful Molecular Outflows in the Local Universe

Wed Jul 05 17:03:19 GMT 2023

| | | | | | | | | | | | | | |
|--|--|-------------------------|---|---------------|-----------------------------|----------------------|--|------------------------|---------------|--------------------------------|---------------------------|----------------------------|-------------------------|
| Observation | Proposal 3869, Observation 22: F11119-BG Diagnostic Status: Warning Observing Template: MIRI Medium Resolution Spectroscopy Background Observation For: [F11119 (Obs 21)] | | | | | | | | | | | | |
| | (Visit 22:1) Warning (Form): Overheads are provisional until the Visit Planner has been run. | | | | | | | | | | | | |
| Fixed Targets | # | Name | Target Coordinates | | | | Targ. Coord. Corrections | | | Miscellaneous | | | |
| | (24) | IRAS-11119+3257-BG | RA: 11 14 39.0000 (168.6625000d) Dec: +32 42 33.48 (32.70930d) Equinox: J2000 | | | | Proper Motion RA: -3.960802808955366E-6 sec of time/yr Proper Motion Dec: -5.0000016926787794E-5 arcsec/yr Epoch of Position: 2015.5 | | | | | | |
| <i>Comments: Background for MIRI/MRS observations of F11119</i> <i>Category=Galaxy</i> <i>Description=[Ultraluminous infrared galaxies]</i> <i>Extended=YES</i> | | | | | | | | | | | | | |
| Acquisition | # | Target | | | | | | | | | | | |
| | 1 | NONE | | | | | | | | | | | |
| Template | AcqFilter | Primary Channel | | | Simultaneous Imaging | | | Imager Subarray | | Grating Wheel Direction | | | |
| | F560W | ALL | | | YES | | | FULL | | NEUTRAL | | | |
| 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 | F770W | FASTR1 | 40 | 2 | 1 | Dither 1 | 2 | 4 | 449.556 | |
| | 1 | SHORT(A) | MRSLONG | | FASTR1 | 40 | 2 | 1 | Dither 1 | 2 | 4 | 449.556 | 133749 |
| | 1 | SHORT(A) | MRSSHORT | | FASTR1 | 40 | 2 | 1 | Dither 1 | 2 | 4 | 449.556 | 133749 |
| | 2 | | IMAGER | F770W | FASTR1 | 40 | 2 | 1 | Dither 1 | 2 | 4 | 449.556 | |
| | 2 | MEDIUM(B) | MRSLONG | | FASTR1 | 40 | 2 | 1 | Dither 1 | 2 | 4 | 449.556 | 133749 |
| | 2 | MEDIUM(B) | MRSSHORT | | FASTR1 | 40 | 2 | 1 | Dither 1 | 2 | 4 | 449.556 | 133749 |
| | 3 | | IMAGER | F770W | FASTR1 | 40 | 2 | 1 | Dither 1 | 2 | 4 | 449.556 | |
| | 3 | LONG(C) | MRSLONG | | FASTR1 | 40 | 2 | 1 | Dither 1 | 2 | 4 | 449.556 | 133749 |
| | 3 | LONG(C) | MRSSHORT | | FASTR1 | 40 | 2 | 1 | Dither 1 | 2 | 4 | 449.556 | 133749 |

Proposal 3869 - Observation 22 - Extreme Feedback in Action: Fast and Powerful Molecular Outflows in the Local Universe

Special Requirements

Sequence Observations 21, 22, Non-interruptible