



## 1328 - A JWST Study of the Starburst-AGN Connection in Merging LIRGs

Cycle: 1, Proposal Category: ERS

### INVESTIGATORS

| <i>Name</i>                                  | <i>Institution</i>                        | <i>E-Mail</i>               |
|--|---|-----------------------------|
| <b>Dr. Lee Armus (PI)</b>                    | <b>California Institute of Technology</b> | <b>lee@ipac.caltech.edu</b> |
| Prof. Aaron S. Evans (CoI) (CoPI)            | The University of Virginia                | aevans@virginia.edu         |
| Dr. Tanio Diaz-Santos (CoI) (ESA Member)     | FORTH - Institute of Astrophysics         | tanio@ia.forth.gr           |
| Dr. Kirsten L. Larson (CoI)                  | Space Telescope Science Institute         | kilarson@stsci.edu          |
| Dr. Jason A. Surace (CoI)                    | California Institute of Technology        | jasonasurace@gmail.com      |
| Prof. David B. Sanders (CoI)                 | University of Hawaii                      | sanders@ifa.hawaii.edu      |
| Dr. Joseph M. Mazzarella (CoI)               | California Institute of Technology        | mazz@ipac.caltech.edu       |
| Dr. Vassilis Charmandaris (CoI) (ESA Member) | University of Crete                       | vassilis@physics.uoc.gr     |
| Dr. Jeffrey Austin Sterling Rich Jr. (CoI)   | Carnegie Institution of Washington        | jrich@carnegiescience.edu   |
| Dr. Vivian U (CoI)                           | University of California - Irvine         | vivianu@uci.edu             |
| Dr. Sean Linden (CoI)                        | University of Massachusetts - Amherst     | slinden@umass.edu           |
| Dr. George Privon (CoI)                      | Associated Universities, Inc.             | gprivon@nrao.edu            |
| Dr. Justin H. Howell (CoI)                   | California Institute of Technology        | jhowell@ipac.caltech.edu    |
| Dr. Jason Marshall (CoI)                     | Glendale Community College                | jason.a.marshall@gmail.com  |
| Dr. Hanae Inami (CoI)                        | Hiroshima University                      | hanae@hiroshima-u.ac.jp     |
| Dr. Eric J. Murphy (CoI)                     | Associated Universities, Inc.             | emurphy@nrao.edu            |
| Dr. Sabrina Stierwalt (CoI)                  | Occidental College                        | sabrina@oxy.edu             |
| Prof. Matthew A. Malkan (CoI)                | University of California - Los Angeles    | malkan@astro.ucla.edu       |
| Dr. Philip N. Appleton (CoI)                 | California Institute of Technology        | apple@ipac.caltech.edu      |
| Dr. Loreto Barcos-Munoz (CoI)                | Associated Universities, Inc.             | lbarcos@nrao.edu            |
| Dr. Anne Medling (CoI)                       | University of Toledo                      | anne.medling@gmail.com      |

**OBSERVATIONS**

| <i>Folder</i>      | <i>Observation</i> | <i>Label</i>                      | <i>Observing Template</i>           | <i>Science Target</i> |
|--------------------|--------------------|-----------------------------------|-------------------------------------|-----------------------|
| Observation Folder |                    |                                   |                                     |                       |
|                    | 15                 | NGC7469-MIRI                      | MIRI Medium Resolution Spectroscopy | (14) NGC-7469-MRS     |
|                    | 16                 | NGC7469-BK MIRI                   | MIRI Medium Resolution Spectroscopy | (11) NGC-7469-BK      |
|                    | 17                 | NGC7469-MIRI imaging              | MIRI Imaging                        | (10) NGC-7469         |
|                    | 30                 | NGC7469-MIRI imaging - Subarray   | MIRI Imaging                        | (10) NGC-7469         |
|                    | 18                 | NGC7469-NirSPEC                   | NIRSpec IFU Spectroscopy            | (10) NGC-7469         |
|                    | 19                 | NGC7469-NIRCam Imaging            | NIRCam Imaging                      | (10) NGC-7469         |
|                    | 27                 | NGC7469-NIRCam Imaging - Subarray | NIRCam Imaging                      | (10) NGC-7469         |
|                    | 20                 | VV114-MIRI                        | MIRI Medium Resolution Spectroscopy | (23) VV114-NUC-MRS    |
|                    | 21                 | VV114-BK MIRI                     | MIRI Medium Resolution Spectroscopy | (22) VV114-BK         |
|                    | 22                 | VV114-MIRI imaging                | MIRI Imaging                        | (21) VV114-CENTERED   |
|                    | 23                 | VV114-NIRSpec                     | NIRSpec IFU Spectroscopy            | (20) VV114-NUC        |
|                    | 24                 | VV114-NIRCam Imaging              | NIRCam Imaging                      | (21) VV114-CENTERED   |
|                    | 25                 | VV114-MIRI imaging - Subarray     | MIRI Imaging                        | (20) VV114-NUC        |
|                    | 8                  | NGC3256-MIRI-nuc1                 | MIRI Medium Resolution Spectroscopy | (17) NGC3256-NUC1-MRS |
|                    | 9                  | NGC3256-MIRI-nuc2                 | MIRI Medium Resolution Spectroscopy | (18) NGC3256-NUC2-MRS |
|                    | 10                 | NGC3256-MIRI-BK                   | MIRI Medium Resolution Spectroscopy | (4) NGC3256-BK        |
|                    | 11                 | NGC3256-MIRI imaging- Subarray    | MIRI Imaging                        | (19) NGC3256-CENTERED |
|                    | 29                 | NGC3256-MIRI imaging- Full        | MIRI Imaging                        | (19) NGC3256-CENTERED |
|                    | 12                 | NGC3256-NIRCam Imaging            | NIRCam Imaging                      | (19) NGC3256-CENTERED |
|                    | 28                 | NGC3256-NIRCam Imaging- Subarray  | NIRCam Imaging                      | (5) NGC3256-NUC1      |
|                    | 13                 | NGC3256-NirSPEC - nuc1            | NIRSpec IFU Spectroscopy            | (5) NGC3256-NUC1      |

| <i>Folder</i> | <i>Observation</i> | <i>Label</i>                   | <i>Observing Template</i>           | <i>Science Target</i> |
|---------------|--------------------|--------------------------------|-------------------------------------|-----------------------|
|               | 14                 | NGC3256-NirSPEC - nu2          | NIRSpec IFU Spectroscopy            | (6) NGC3256-NUC2      |
|               | 33                 | IIZw96-MIRI                    | MIRI Medium Resolution Spectroscopy | (30) IIZW96-MRS       |
|               | 34                 | IIZw96-BK MIRI                 | MIRI Medium Resolution Spectroscopy | (31) IIZW96-BK        |
|               | 35                 | IIZw96-MIRI imaging            | MIRI Imaging                        | (29) IIZW96           |
|               | 31                 | IIZw96-MIRI imaging - Subarray | MIRI Imaging                        | (29) IIZW96           |
|               | 36                 | IIZw96-NIRSpec                 | NIRSpec IFU Spectroscopy            | (29) IIZW96           |
|               | 37                 | IIZw96-NIRCam Imaging          | NIRCam Imaging                      | (29) IIZW96           |

## ABSTRACT

Galaxies evolve through a combination of secular processes, such as cold gas accretion, and nonsecular processes, such as galactic mergers, which can trigger massive starbursts and powerful AGN. JWST will transform our understanding of galactic evolution, providing a detailed look at the physics of star formation and black hole growth in nearby merging galaxies. By using NIRSPEC, NIRCAM and MIRI, we will create a rich dataset for understanding the dynamics and energetics of the ISM on scales of 50-100pc in the nuclei of local Luminous Infrared Galaxies (LIRGs). Our targets cover a range of starburst-to-AGN power, merger stage, and IR spectral properties, and are all visible to JWST over the first 5 months of Cycle-1. We will target each nucleus with the NIRSPEC and MIRI IFUs to cover the full spectral range from 1.6-29 microns, and obtain deep, wide-field NIRCAM and MIRI images in the F150W, F200W, F335M, F356W, F444W, F560W, F770W and F1500W filters.

The proposed observations will be scientifically compelling in their own right, and they will allow the community to fully explore the power of JWST to unravel the complex galactic ecosystems in active and starburst galaxies at low-redshift. Our science-enabling products include multi-wavelength, ancillary datasets from Spitzer, ALMA, JVLA, AKARI and HST, valuable cross-calibration infrared datasets from Spitzer and AKARI, together with custom spectral fitting software which we will deliver and use to analyze the JWST spectral cubes. This proposal will set the stage for more extensive studies of active and starburst galaxies at low and high-redshift in Cycle-2 and beyond.

## OBSERVING DESCRIPTION

We will use the NIRSPEC, NIRCAM and MIRI to obtain infrared spectra and images of four nearby infrared luminous galaxy mergers: NGC 7469, NGC 3256, II Zw 096, and VV114. All targets will be observed with MIRI, using the IFU MRS and imaging modes, along with NIRSPEC IFU and

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imaging modes. We will obtain full spectral coverage in both MIRI MRS and NIRSPEC IRFU on the galaxy nuclei. For each target, we will also obtain images with MIRI in the F560W, F770W and F1500W filters, and with NIRCAM in the F150W, F200W, F335M or F356W and F444W filters.

Since all of our target nuclei are bright and extended, we employ a 4-pt dither pattern for MIRI MRS with a separate off source background exposure to recover the extended emission around each nucleus. We will use the FAST readout pattern for MRS and all of the MRS dispersers (Short, Medium, and Long) over the entire 5-29 micron range. We also obtain a simultaneous MIRI images in the F560W, F770W, and F1500W filters during both the nuclear and background MRS exposures. For NIRSpec, we will use a 4pt cycling dither and the NRSRAPID readout. Spectra will be taken using G140H/F100LP, G235H/F170LP, and G395H/F290LP to cover the full spectral range from 1.66-5.3 microns. A separate Leakcal image will also be taken in each grating for calibration. For NGC 7469 and NGC 3256 a Leakcal image will be taken at each dither position.

We will take separate MIRI images of each source in the F560W, F770W, and F1500W filters, using a cycling, 3pt dither pattern. We will also take sub-array images of all sources in SUB128 mode in each filter to recover a non-saturated image of the bright nuclei.

We will take NIRCAM images of the each source using both the short (F150W and F200W) and long (F335M or F356W and F444W) filters using a 3pt dither with RAPID readout pattern. We will also take sub-array images of NGC 7469 and the northern nucleus of NGC 3256 in SUB160P to recover non-saturated nuclear images of these sources.

### Justification of Special Requirements:

The MIRI-MRS nuclear observations must be sequenced as non-interruptable with the MIRI-MRS background observations for effective background subtraction.

The NIRCAM full array imaging observations have small POSTARG offsets for all targets to keep regions on interest from falling into the chip gap and losing dithers.

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| #   | Name             | Target Coordinates   | Targ. Coord. Corrections | Miscellaneous |
|---|------------------|--|--------------------------|---------------|
| (4)   | NGC3256-BK       | RA: 10 27 52.0000 (156.9666667d)<br>Dec: -43 50 54.83 (-43.84856d)<br>Equinox: J2000 |                          |               |
| <i>Comments:</i><br><i>Category=Galaxy</i><br><i>Description=[Ultraluminous infrared galaxies]</i>  |                  |  |                          |               |
| (5)   | NGC3256-NUC1     | RA: 10 27 51.2400 (156.9635000d)<br>Dec: -43 54 14.00 (-43.90389d)<br>Equinox: J2000 |                          |               |
| <i>Comments:</i><br><i>Category=Galaxy</i><br><i>Description=[Infrared galaxies, Interacting galaxies]</i><br><i>Extended=YES</i>           |                  |  |                          |               |
| (6)   | NGC3256-NUC2     | RA: 10 27 51.2200 (156.9634167d)<br>Dec: -43 54 19.23 (-43.90534d)<br>Equinox: J2000 |                          |               |
| <i>Comments:</i><br><i>Category=Galaxy</i><br><i>Description=[Infrared galaxies, Interacting galaxies]</i><br><i>Extended=YES</i>           |                  |  |                          |               |
| (10)  | NGC-7469         | RA: 23 03 15.6100 (345.8150417d)<br>Dec: +08 52 26.02 (8.87389d)<br>Equinox: J2000   |                          |               |
| <i>Comments:</i><br><i>Category=Galaxy</i><br><i>Description=[Infrared galaxies, Interacting galaxies, Ultraluminous infrared galaxies]</i> |                  |  |                          |               |
| (11)  | NGC-7469-BK      | RA: 23 03 5.2960 (345.7720667d)<br>Dec: +08 51 0.14 (8.85004d)<br>Equinox: J2000     |                          |               |
| <i>Comments:</i><br><i>Category=Calibration</i><br><i>Description=[Telescope/sky background]</i>  |                  |  |                          |               |
| (14)  | NGC-7469-MRS     | RA: 23 03 15.6100 (345.8150417d)<br>Dec: +08 52 26.02 (8.87389d)<br>Equinox: J2000   |                          |               |
| <i>Comments:</i><br><i>Category=Galaxy</i><br><i>Description=[Infrared galaxies, Interacting galaxies, Ultraluminous infrared galaxies]</i> |                  |  |                          |               |
| (17)  | NGC3256-NUC1-MRS | RA: 10 27 51.2400 (156.9635000d)<br>Dec: -43 54 14.00 (-43.90389d)<br>Equinox: J2000 |                          |               |
| <i>Comments:</i><br><i>Category=Galaxy</i><br><i>Description=[Infrared galaxies, Interacting galaxies]</i><br><i>Extended=YES</i>           |                  |  |                          |               |

Fixed Targets

## Proposal 1328 - Targets - A JWST Study of the Starburst-AGN Connection in Merging LIRGs

|  |                  |  |
|--|------------------|--|
| (18)   | NGC3256-NUC2-MRS | RA: 10 27 51.2200 (156.9634167d)<br>Dec: -43 54 19.23 (-43.90534d)<br>Equinox: J2000 |
| <p><i>Comments:</i><br/> <i>Category=Galaxy</i><br/> <i>Description=[Infrared galaxies, Interacting galaxies]</i><br/> <i>Extended=YES</i></p> |                  |  |
| (19)   | NGC3256-CENTERED | RA: 10 27 51.2000 (156.9633333d)<br>Dec: -43 54 15.50 (-43.90431d)<br>Equinox: J2000 |
| <p><i>Comments:</i><br/> <i>Category=Galaxy</i><br/> <i>Description=[Infrared galaxies, Interacting galaxies]</i><br/> <i>Extended=YES</i></p> |                  |  |
| (20)   | VV114-NUC        | RA: 01 07 47.5300 (16.9480417d)<br>Dec: -17 30 25.20 (-17.50700d)<br>Equinox: J2000  |
| <p><i>Comments:</i><br/> <i>Category=Galaxy</i><br/> <i>Description=[Infrared galaxies, Interacting galaxies]</i></p>                          |                  |  |
| (21)   | VV114-CENTERED   | RA: 01 07 47.2000 (16.9466667d)<br>Dec: -17 30 25.00 (-17.50694d)<br>Equinox: J2000  |
| <p><i>Comments:</i><br/> <i>Category=Galaxy</i><br/> <i>Description=[Infrared galaxies, Interacting galaxies]</i></p>                          |                  |  |
| (22)   | VV114-BK         | RA: 01 07 54.8040 (16.9783500d)<br>Dec: -17 30 53.86 (-17.51496d)<br>Equinox: J2000  |
| <p><i>Comments:</i><br/> <i>Category=Calibration</i><br/> <i>Description=[Telescope/sky background]</i></p>                                    |                  |  |
| (23)   | VV114-NUC-MRS    | RA: 01 07 47.5300 (16.9480417d)<br>Dec: -17 30 25.20 (-17.50700d)<br>Equinox: J2000  |
| <p><i>Comments:</i><br/> <i>Category=Galaxy</i><br/> <i>Description=[Infrared galaxies, Interacting galaxies]</i></p>                          |                  |  |
| (29)   | IIZW96           | RA: 20 57 24.4000 (314.3516667d)<br>Dec: +17 07 39.70 (17.12769d)<br>Equinox: J2000  |
| <p><i>Comments:</i><br/> <i>Category=Galaxy</i><br/> <i>Description=[Infrared galaxies, Interacting galaxies]</i></p>                          |                  |  |
| (30)   | IIZW96-MRS       | RA: 20 57 24.4000 (314.3516667d)<br>Dec: +17 07 39.70 (17.12769d)<br>Equinox: J2000  |
| <p><i>Comments:</i><br/> <i>Category=Galaxy</i><br/> <i>Description=[Infrared galaxies, Interacting galaxies]</i></p>                          |                  |  |

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|      |           |   |
|------|-----------|---|
| (31) | IIZW96-BK | RA: 20 57 20.7000 (314.3362500d)<br>Dec: +17 08 24.00 (17.14000d)<br>Equinox: J2000 |
|------|-----------|---|

*Comments:*

*Category=Calibration*

*Description=[Telescope/sky background]*

Proposal 1328 - Observation 15 - A JWST Study of the Starburst-AGN Connection in Merging LIRGs

Wed Nov 23 17:00:38 GMT 2022

|                   |  |                  |  |        |                      |  |                   |                 |               |               |                    |                     |                  |
|-------------------|--|------------------|--|--------|----------------------|--|-------------------|-----------------|---------------|---------------|--------------------|---------------------|------------------|
| Observation       | <b>Proposal 1328, Observation 15: NGC7469-MIRI</b><br><b>Diagnostic Status: Warning</b><br>Observing Template: MIRI Medium Resolution Spectroscopy<br>Background Observations:[NGC7469-BK MIRI (Obs 16)] |                  |  |        |                      |  |                   |                 |               |               |                    |                     |                  |
|                   | (NGC7469-MIRI (Obs 15)) Warning (Form): Imager Filter overlap.<br>(Visit 15:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.   |                  |  |        |                      |  |                   |                 |               |               |                    |                     |                  |
| Fixed Targets     | #  | Name             | Target Coordinates   |        |                      | Targ. Coord. Corrections   |                   |                 | Miscellaneous |               |                    |                     |                  |
|                   | (14)   | NGC-7469-MRS     | RA: 23 03 15.6100 (345.8150417d)<br>Dec: +08 52 26.02 (8.87389d)<br>Equinox: J2000 |        |                      | Comments:<br>Category=Galaxy<br>Description=[Infrared galaxies, Interacting galaxies, Ultraluminous infrared galaxies] |                   |                 |               |               |                    |                     |                  |
| Acquisition       | #  | Target           |  |        |                      |  |                   |                 |               |               |                    |                     |                  |
|                   | 1  | NONE             |  |        |                      |  |                   |                 |               |               |                    |                     |                  |
| Template          | AcqFilter  | Primary Channel  |  |        | Simultaneous Imaging |  |                   | Imager Subarray |               |               |                    |                     |                  |
|                   | F560W  | ALL              |  |        | YES                  |  |                   | FULL            |               |               |                    |                     |                  |
| 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   | F560W  | FASTR1               | 7  | 5                 | 1               | Dither 1      | 4             | 20                 | 432.906             |                  |
|                   | 1  | SHORT(A)         | MRSLONG  |        | FASTR1               | 40   | 1                 | 1               | Dither 1      | 4             | 4                  | 444.006             |                  |
|                   | 1  | SHORT(A)         | MRSSHORT   |        | FASTR1               | 40   | 1                 | 1               | Dither 1      | 4             | 4                  | 444.006             |                  |
|                   | 2  |                  | IMAGER   | F770W  | FASTR1               | 7  | 5                 | 1               | Dither 1      | 4             | 20                 | 432.906             |                  |
|                   | 2  | MEDIUM(B)        | MRSLONG  |        | FASTR1               | 40   | 1                 | 1               | Dither 1      | 4             | 4                  | 444.006             |                  |
|                   | 2  | MEDIUM(B)        | MRSSHORT   |        | FASTR1               | 40   | 1                 | 1               | Dither 1      | 4             | 4                  | 444.006             |                  |
|                   | 3  |                  | IMAGER   | F1500W | FASTR1               | 7  | 5                 | 1               | Dither 1      | 4             | 20                 | 432.906             |                  |
|                   | 3  | LONG(C)          | MRSLONG  |        | FASTR1               | 40   | 1                 | 1               | Dither 1      | 4             | 4                  | 444.006             |                  |
|                   | 3  | LONG(C)          | MRSSHORT   |        | FASTR1               | 40   | 1                 | 1               | Dither 1      | 4             | 4                  | 444.006             |                  |



Proposal 1328 - Observation 15 - A JWST Study of the Starburst-AGN Connection in Merging LIRGs

Special Requirements

Sequence Observations 15, 16, Non-interruptible

Proposal 1328 - Observation 16 - A JWST Study of the Starburst-AGN Connection in Merging LIRGs

Wed Nov 23 17:00:38 GMT 2022

|                   |  |                  |  |        |                 |                      |                          |                 |                 |               |                    |                     |                  |
|-------------------|--|------------------|--|--------|-----------------|----------------------|--------------------------|-----------------|-----------------|---------------|--------------------|---------------------|------------------|
| Observation       | <b>Proposal 1328, Observation 16: NGC7469-BK MIRI</b><br><b>Diagnostic Status: Warning</b><br>Observing Template: MIRI Medium Resolution Spectroscopy<br>Background Observation For: [NGC7469-MIRI (Obs 15)] |                  |  |        |                 |                      |                          |                 |                 |               |                    |                     |                  |
|                   | (NGC7469-BK MIRI (Obs 16)) Warning (Form): Imager Filter overlap.<br>(Visit 16:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.  |                  |  |        |                 |                      |                          |                 |                 |               |                    |                     |                  |
| Fixed Targets     | #  | Name             | Target Coordinates   |        |                 |                      | Targ. Coord. Corrections |                 |                 | Miscellaneous |                    |                     |                  |
|                   | (11)   | NGC-7469-BK      | RA: 23 03 5.2960 (345.7720667d)<br>Dec: +08 51 0.14 (8.85004d)<br>Equinox: J2000<br><br><i>Comments:</i><br><i>Category=Calibration</i><br><i>Description=[Telescope/sky background]</i> |        |                 |                      |                          |                 |                 |               |                    |                     |                  |
| Acquisition       | #  | Target           |  |        |                 |                      |                          |                 |                 |               |                    |                     |                  |
|                   | 1  | NONE             |  |        |                 |                      |                          |                 |                 |               |                    |                     |                  |
| Template          | AcqFilter  | Primary Channel  |  |        |                 | Simultaneous Imaging |                          |                 | Imager Subarray |               |                    |                     |                  |
|                   | F560W  | ALL              |  |        |                 | YES                  |                          |                 | FULL            |               |                    |                     |                  |
| 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   | F560W  | FASTR1          | 7                    | 5                        | 1               | Dither 1        | 4             | 20                 | 432.906             |                  |
|                   | 1  | SHORT(A)         | MRSLONG  |        | FASTR1          | 40                   | 1                        | 1               | Dither 1        | 4             | 4                  | 444.006             |                  |
|                   | 1  | SHORT(A)         | MRSSHORT   |        | FASTR1          | 40                   | 1                        | 1               | Dither 1        | 4             | 4                  | 444.006             |                  |
|                   | 2  |                  | IMAGER   | F770W  | FASTR1          | 7                    | 5                        | 1               | Dither 1        | 4             | 20                 | 432.906             |                  |
|                   | 2  | MEDIUM(B)        | MRSLONG  |        | FASTR1          | 40                   | 1                        | 1               | Dither 1        | 4             | 4                  | 444.006             |                  |
|                   | 2  | MEDIUM(B)        | MRSSHORT   |        | FASTR1          | 40                   | 1                        | 1               | Dither 1        | 4             | 4                  | 444.006             |                  |
|                   | 3  |                  | IMAGER   | F1500W | FASTR1          | 7                    | 5                        | 1               | Dither 1        | 4             | 20                 | 432.906             |                  |
|                   | 3  | LONG(C)          | MRSLONG  |        | FASTR1          | 40                   | 1                        | 1               | Dither 1        | 4             | 4                  | 444.006             |                  |
|                   | 3  | LONG(C)          | MRSSHORT   |        | FASTR1          | 40                   | 1                        | 1               | Dither 1        | 4             | 4                  | 444.006             |                  |

Proposal 1328 - Observation 16 - A JWST Study of the Starburst-AGN Connection in Merging LIRGs

Special Requirements

Sequence Observations 15, 16, Non-interruptible

Proposal 1328 - Observation 17 - A JWST Study of the Starburst-AGN Connection in Merging LIRGs

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|                          |  |                    |  |                         |                         |                                 |                       |                      |                           |                            |                         |
|--------------------------|--|--------------------|--|-------------------------|-------------------------|---------------------------------|-----------------------|----------------------|---------------------------|----------------------------|-------------------------|
| <b>Observation</b>       | <p><b>Proposal 1328, Observation 17: NGC7469-MIRI imaging</b></p> <p><b>Diagnostic Status: Warning</b></p> <p>Observing Template: MIRI Imaging</p>     |                    |  |                         |                         |                                 |                       |                      |                           |                            |                         |
| <b>Diagnostics</b>       | (Visit 17:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.   |                    |  |                         |                         |                                 |                       |                      |                           |                            |                         |
| <b>Fixed Targets</b>     | <b>#</b>   | <b>Name</b>        | <b>Target Coordinates</b>  |                         |                         | <b>Targ. Coord. Corrections</b> |                       |                      | <b>Miscellaneous</b>      |                            |                         |
|                          | (10)   | NGC-7469           | RA: 23 03 15.6100 (345.8150417d)<br>Dec: +08 52 26.02 (8.87389d)<br>Equinox: J2000 |                         |                         |                                 |                       |                      |                           |                            |                         |
|                          | <p><i>Comments:</i><br/> <i>Category=Galaxy</i><br/> <i>Description=[Infrared galaxies, Interacting galaxies, Ultraluminous infrared galaxies]</i></p> |                    |  |                         |                         |                                 |                       |                      |                           |                            |                         |
| <b>Template</b>          | <p><b>Subarray</b><br/>                 BRIGHTSKY</p>  |                    |  |                         |                         |                                 |                       |                      |                           |                            |                         |
| <b>Dithers</b>           | <b>#</b>   | <b>Dither Type</b> | <b>Starting Point</b>  | <b>Number of Points</b> | <b>Points</b>           | <b>Starting Set</b>             | <b>Number of Sets</b> | <b>Optimized For</b> | <b>Direction</b>          | <b>Pattern Size</b>        |                         |
|                          | 1  | CYCLING            | 1  | 3                       |                         |                                 |                       |                      |                           | DEFAULT                    |                         |
| <b>Spectral Elements</b> | <b>#</b>   | <b>Filter</b>      | <b>Readout Pattern</b>   | <b>Groups/Int</b>       | <b>Integrations/Exp</b> | <b>Exposures/Dith</b>           | <b>Dither</b>         | <b>Total Dithers</b> | <b>Total Integrations</b> | <b>Total Exposure Time</b> | <b>ETC Wkbk.Calc ID</b> |
|                          | 1  | F560W              | FASTR1   | 7                       | 15                      | 1                               | Dither 1              | 3                    | 45                        | 308.905                    |                         |
|                          | 2  | F770W              | FASTR1   | 7                       | 5                       | 1                               | Dither 1              | 3                    | 15                        | 101.238                    |                         |
|                          | 3  | F1500W             | FASTR1   | 7                       | 5                       | 1                               | Dither 1              | 3                    | 15                        | 101.238                    |                         |

Proposal 1328 - Observation 30 - A JWST Study of the Starburst-AGN Connection in Merging LIRGs

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|                          |  |                    |  |                         |                         |                                 |                       |                      |                           |                            |                         |
|--------------------------|--|--------------------|--|-------------------------|-------------------------|---------------------------------|-----------------------|----------------------|---------------------------|----------------------------|-------------------------|
| <b>Observation</b>       | <p>Proposal 1328, Observation 30: NGC7469-MIRI imaging - Subarray</p> <p><b>Diagnostic Status: Warning</b></p> <p>Observing Template: MIRI Imaging</p> |                    |  |                         |                         |                                 |                       |                      |                           |                            |                         |
| <b>Diagnostics</b>       | (Visit 30:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.   |                    |  |                         |                         |                                 |                       |                      |                           |                            |                         |
| <b>Fixed Targets</b>     | <b>#</b>   | <b>Name</b>        | <b>Target Coordinates</b>  |                         |                         | <b>Targ. Coord. Corrections</b> |                       |                      | <b>Miscellaneous</b>      |                            |                         |
|                          | (10)   | NGC-7469           | RA: 23 03 15.6100 (345.8150417d)<br>Dec: +08 52 26.02 (8.87389d)<br>Equinox: J2000 |                         |                         |                                 |                       |                      |                           |                            |                         |
|                          | <p><i>Comments:</i><br/> <i>Category=Galaxy</i><br/> <i>Description=[Infrared galaxies, Interacting galaxies, Ultraluminous infrared galaxies]</i></p> |                    |  |                         |                         |                                 |                       |                      |                           |                            |                         |
| <b>Template</b>          | <p><b>Subarray</b><br/>SUB128</p>  |                    |  |                         |                         |                                 |                       |                      |                           |                            |                         |
| <b>Dithers</b>           | <b>#</b>   | <b>Dither Type</b> | <b>Starting Point</b>  | <b>Number of Points</b> | <b>Points</b>           | <b>Starting Set</b>             | <b>Number of Sets</b> | <b>Optimized For</b> | <b>Direction</b>          | <b>Pattern Size</b>        |                         |
|                          | 1  | CYCLING            | 1  | 3                       |                         |                                 |                       |                      |                           | DEFAULT                    |                         |
| <b>Spectral Elements</b> | <b>#</b>   | <b>Filter</b>      | <b>Readout Pattern</b>   | <b>Groups/Int</b>       | <b>Integrations/Exp</b> | <b>Exposures/Dith</b>           | <b>Dither</b>         | <b>Total Dithers</b> | <b>Total Integrations</b> | <b>Total Exposure Time</b> | <b>ETC Wkbk.Calc ID</b> |
|                          | 1  | F560W              | FASTR1   | 12                      | 10                      | 1                               | Dither 1              | 3                    | 30                        | 46.068                     | 25236                   |
|                          | 2  | F770W              | FASTR1   | 8                       | 15                      | 1                               | Dither 1              | 3                    | 45                        | 47.854                     |                         |
|                          | 3  | F1500W             | FASTR1   | 8                       | 15                      | 1                               | Dither 1              | 3                    | 45                        | 47.854                     |                         |

Proposal 1328 - Observation 18 - A JWST Study of the Starburst-AGN Connection in Merging LIRGs

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|   |  |                       |  |                   |                         |                                 |               |                         |                      |                           |                            |                         |
|---|--|-----------------------|--|-------------------|-------------------------|---------------------------------|---------------|-------------------------|----------------------|---------------------------|----------------------------|-------------------------|
| <b>Observation</b>  | <b>Proposal 1328, Observation 18: NGC7469-NirSPEC</b><br><b>Diagnostic Status: Warning</b><br>Observing Template: NIRSpec IFU Spectroscopy |                       |  |                   |                         |                                 |               |                         |                      |                           |                            |                         |
|   | (Visit 18:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.   |                       |  |                   |                         |                                 |               |                         |                      |                           |                            |                         |
| <b>Fixed Targets</b>  | <b>#</b>   | <b>Name</b>           | <b>Target Coordinates</b>  |                   |                         | <b>Targ. Coord. Corrections</b> |               |                         | <b>Miscellaneous</b> |                           |                            |                         |
|   | (10)   | NGC-7469              | RA: 23 03 15.6100 (345.8150417d)<br>Dec: +08 52 26.02 (8.87389d)<br>Equinox: J2000 |                   |                         |                                 |               |                         |                      |                           |                            |                         |
| <i>Comments:</i><br>Category=Galaxy<br>Description=[Infrared galaxies, Interacting galaxies, Ultraluminous infrared galaxies] |  |                       |  |                   |                         |                                 |               |                         |                      |                           |                            |                         |
| <b>Template</b>   | <b>TA Method</b>   |                       |  |                   |                         |                                 |               |                         |                      |                           |                            |                         |
|   | NONE   |                       |  |                   |                         |                                 |               |                         |                      |                           |                            |                         |
| <b>Dithers</b>  | <b>#</b>   | <b>Dither Type</b>    |  | <b>Size</b>       | <b>Starting Point</b>   |                                 |               | <b>Number of Points</b> | <b>Points</b>        |                           |                            |                         |
|   | 1  | CYCLING               |  | LARGE             | 1                       |                                 |               | 4                       |                      |                           |                            |                         |
| <b>Spectral Elements</b>  | <b>#</b>   | <b>Grating/Filter</b> | <b>Readout Pattern</b>   | <b>Groups/Int</b> | <b>Integrations/Exp</b> | <b>Leakcal</b>                  | <b>Dither</b> | <b>Autocal</b>          | <b>Total Dithers</b> | <b>Total Integrations</b> | <b>Total Exposure Time</b> | <b>ETC Wkbk.Calc ID</b> |
|   | 1  | G140H/F100LP          | NRSIRS2RAPID   | 7                 | 1                       | false                           | true          | NONE                    | 4                    | 4                         | 466.844                    |                         |
|   | 2  | G140H/F100LP          | NRSIRS2RAPID   | 7                 | 1                       | true                            | true          | NONE                    | 4                    | 4                         | 466.844                    |                         |
|   | 3  | G235H/F170LP          | NRSIRS2RAPID   | 7                 | 1                       | false                           | true          | NONE                    | 4                    | 4                         | 466.844                    |                         |
|   | 4  | G235H/F170LP          | NRSIRS2RAPID   | 7                 | 1                       | true                            | true          | NONE                    | 4                    | 4                         | 466.844                    |                         |
|   | 5  | G395H/F290LP          | NRSIRS2RAPID   | 7                 | 1                       | false                           | true          | NONE                    | 4                    | 4                         | 466.844                    |                         |
|   | 6  | G395H/F290LP          | NRSIRS2RAPID   | 7                 | 1                       | true                            | true          | NONE                    | 4                    | 4                         | 466.844                    |                         |

Proposal 1328 - Observation 19 - A JWST Study of the Starburst-AGN Connection in Merging LIRGs

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|                             |  |                            |  |                        |                                 |                         |                           |                           |                            |                         |
|-----------------------------|--|----------------------------|--|------------------------|---------------------------------|-------------------------|---------------------------|---------------------------|----------------------------|-------------------------|
| <b>Observation</b>          | <p><b>Proposal 1328, Observation 19: NGC7469-NIRCam Imaging</b></p> <p><b>Diagnostic Status: Warning</b></p> <p>Observing Template: NIRCam Imaging</p> |                            |  |                        |                                 |                         |                           |                           |                            |                         |
| <b>Diagnostics</b>          | (Visit 19:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.   |                            |  |                        |                                 |                         |                           |                           |                            |                         |
| <b>Fixed Targets</b>        | <b>#</b>   | <b>Name</b>                | <b>Target Coordinates</b>  |                        | <b>Targ. Coord. Corrections</b> |                         |                           | <b>Miscellaneous</b>      |                            |                         |
|                             | (10)   | NGC-7469                   | RA: 23 03 15.6100 (345.8150417d)<br>Dec: +08 52 26.02 (8.87389d)<br>Equinox: J2000 |                        |                                 |                         |                           |                           |                            |                         |
|                             | <p><i>Comments:</i><br/> <i>Category=Galaxy</i><br/> <i>Description=[Infrared galaxies, Interacting galaxies, Ultraluminous infrared galaxies]</i></p> |                            |  |                        |                                 |                         |                           |                           |                            |                         |
| <b>Template</b>             | <b>Module</b>  |                            |  |                        | <b>Subarray</b>                 |                         |                           |                           |                            |                         |
|                             | B  |                            |  |                        | FULL                            |                         |                           |                           |                            |                         |
| <b>Dithers</b>              | <b>#</b>   | <b>Primary Dither Type</b> |  | <b>Primary Dithers</b> | <b>Subpixel Dither Type</b>     |                         | <b>Dither Size</b>        | <b>Subpixel Positions</b> |                            |                         |
|                             | 1  | INTRAMODULE                |  | 3                      | STANDARD                        |                         |                           | 1                         |                            |                         |
| <b>Spectral Elements</b>    | <b>#</b>   | <b>Short Filter</b>        | <b>Long Filter</b>   | <b>Readout Pattern</b> | <b>Groups/Int</b>               | <b>Integrations/Exp</b> | <b>Total Integrations</b> | <b>Total Dithers</b>      | <b>Total Exposure Time</b> | <b>ETC Wkbk.Calc ID</b> |
|                             | 1  | F150W                      | F335M  | RAPID                  | 6                               | 3                       | 9                         | 3                         | 644.206                    |                         |
|                             | 2  | F200W                      | F444W  | RAPID                  | 6                               | 3                       | 9                         | 3                         | 644.206                    |                         |
| <b>Special Requirements</b> | Offset 14.0 arcsec, -5.0 arcsec  |                            |  |                        |                                 |                         |                           |                           |                            |                         |

Proposal 1328 - Observation 27 - A JWST Study of the Starburst-AGN Connection in Merging LIRGs

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|  |  |                            |  |                        |                                 |                             |                           |                      |                            |                           |
|--|--|----------------------------|--|------------------------|---------------------------------|-----------------------------|---------------------------|----------------------|----------------------------|---------------------------|
| <b>Observation</b>   | Proposal 1328, Observation 27: NGC7469-NIRCam Imaging - Subarray<br>Diagnostic Status: Warning<br>Observing Template: NIRCam Imaging |                            |  |                        |                                 |                             |                           |                      |                            |                           |
|  | (Visit 27:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.   |                            |  |                        |                                 |                             |                           |                      |                            |                           |
| <b>Fixed Targets</b>   | <b>#</b>   | <b>Name</b>                | <b>Target Coordinates</b>  |                        | <b>Targ. Coord. Corrections</b> |                             |                           | <b>Miscellaneous</b> |                            |                           |
|  | (10)   | NGC-7469                   | RA: 23 03 15.6100 (345.8150417d)<br>Dec: +08 52 26.02 (8.87389d)<br>Equinox: J2000 |                        |                                 |                             |                           |                      |                            |                           |
| Comments:<br>Category=Galaxy<br>Description=[Infrared galaxies, Interacting galaxies, Ultraluminous infrared galaxies] |  |                            |  |                        |                                 |                             |                           |                      |                            |                           |
| <b>Template</b>  | <b>Module</b>  |                            |  |                        | <b>Subarray</b>                 |                             |                           |                      |                            |                           |
|  | B  |                            |  |                        | SUB160P                         |                             |                           |                      |                            |                           |
| <b>Dithers</b>   | <b>#</b>   | <b>Primary Dither Type</b> |  | <b>Primary Dithers</b> |                                 | <b>Subpixel Dither Type</b> |                           | <b>Dither Size</b>   |                            | <b>Subpixel Positions</b> |
|  | 1  | NONE                       |  |                        |                                 | STANDARD                    |                           |                      |                            | 3                         |
| <b>Spectral Elements</b>   | <b>#</b>   | <b>Short Filter</b>        | <b>Long Filter</b>   | <b>Readout Pattern</b> | <b>Groups/Int</b>               | <b>Integrations/Exp</b>     | <b>Total Integrations</b> | <b>Total Dithers</b> | <b>Total Exposure Time</b> | <b>ETC Wkbk.Calc ID</b>   |
|  | 1  | F150W                      | F335M  | RAPID                  | 7                               | 10                          | 30                        | 3                    | 67.027                     | 25236                     |
|  | 2  | F200W                      | F444W  | RAPID                  | 7                               | 10                          | 30                        | 3                    | 67.027                     |                           |



Proposal 1328 - Observation 20 - A JWST Study of the Starburst-AGN Connection in Merging LIRGs

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|                   |  |                  |   |        |                 |                      |                          |                 |                 |               |                    |                     |                  |
|-------------------|--|------------------|---|--------|-----------------|----------------------|--------------------------|-----------------|-----------------|---------------|--------------------|---------------------|------------------|
| Observation       | <b>Proposal 1328, Observation 20: VV114-MIRI</b><br><b>Diagnostic Status: Warning</b><br>Observing Template: MIRI Medium Resolution Spectroscopy<br>Background Observations:[VV114-BK MIRI (Obs 21)] |                  |   |        |                 |                      |                          |                 |                 |               |                    |                     |                  |
|                   | (VV114-MIRI (Obs 20)) Warning (Form): Imager Filter overlap.<br>(Visit 20:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.   |                  |   |        |                 |                      |                          |                 |                 |               |                    |                     |                  |
| Fixed Targets     | #  | Name             | Target Coordinates  |        |                 |                      | Targ. Coord. Corrections |                 |                 | Miscellaneous |                    |                     |                  |
|                   | (23)   | VV114-NUC-MRS    | RA: 01 07 47.5300 (16.9480417d)<br>Dec: -17 30 25.20 (-17.50700d)<br>Equinox: J2000<br><br><i>Comments:</i><br><i>Category=Galaxy</i><br><i>Description=[Infrared galaxies, Interacting galaxies]</i> |        |                 |                      |                          |                 |                 |               |                    |                     |                  |
| Acquisition       | #  |                  |   |        |                 |                      |                          |                 |                 |               |                    | Target              |                  |
|                   | 1  |                  |   |        |                 |                      |                          |                 |                 |               |                    | NONE                |                  |
| Template          | AcqFilter  | Primary Channel  |   |        |                 | Simultaneous Imaging |                          |                 | Imager Subarray |               |                    |                     |                  |
|                   | F560W  | ALL              |   |        |                 | YES                  |                          |                 | FULL            |               |                    |                     |                  |
| 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  | F560W  | FASTR1          | 7                    | 7                        | 1               | Dither 1        | 4             | 28                 | 610.509             |                  |
|                   | 1  | SHORT(A)         | MRSLONG   |        | FASTR1          | 60                   | 1                        | 1               | Dither 1        | 4             | 4                  | 666.01              |                  |
|                   | 1  | SHORT(A)         | MRSSHORT  |        | FASTR1          | 60                   | 1                        | 1               | Dither 1        | 4             | 4                  | 666.01              |                  |
|                   | 2  |                  | IMAGER  | F770W  | FASTR1          | 7                    | 7                        | 1               | Dither 1        | 4             | 28                 | 610.509             |                  |
|                   | 2  | MEDIUM(B)        | MRSLONG   |        | FASTR1          | 60                   | 1                        | 1               | Dither 1        | 4             | 4                  | 666.01              |                  |
|                   | 2  | MEDIUM(B)        | MRSSHORT  |        | FASTR1          | 60                   | 1                        | 1               | Dither 1        | 4             | 4                  | 666.01              |                  |
|                   | 3  |                  | IMAGER  | F1500W | FASTR1          | 7                    | 7                        | 1               | Dither 1        | 4             | 28                 | 610.509             |                  |
|                   | 3  | LONG(C)          | MRSLONG   |        | FASTR1          | 60                   | 1                        | 1               | Dither 1        | 4             | 4                  | 666.01              |                  |
|                   | 3  | LONG(C)          | MRSSHORT  |        | FASTR1          | 60                   | 1                        | 1               | Dither 1        | 4             | 4                  | 666.01              |                  |

Proposal 1328 - Observation 20 - A JWST Study of the Starburst-AGN Connection in Merging LIRGs

Special Requirements

Sequence Observations 20, 21, Non-interruptible

Proposal 1328 - Observation 21 - A JWST Study of the Starburst-AGN Connection in Merging LIRGs

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|                   |  |                  |   |        |                 |                      |                          |                 |                 |               |                    |                     |                  |
|-------------------|--|------------------|---|--------|-----------------|----------------------|--------------------------|-----------------|-----------------|---------------|--------------------|---------------------|------------------|
| Observation       | <b>Proposal 1328, Observation 21: VV114-BK MIRI</b><br><b>Diagnostic Status: Warning</b><br>Observing Template: MIRI Medium Resolution Spectroscopy<br>Background Observation For: [VV114-MIRI (Obs 20)] |                  |   |        |                 |                      |                          |                 |                 |               |                    |                     |                  |
|                   | (VV114-BK MIRI (Obs 21)) Warning (Form): Imager Filter overlap.<br>(Visit 21:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.  |                  |   |        |                 |                      |                          |                 |                 |               |                    |                     |                  |
| Fixed Targets     | #  | Name             | Target Coordinates  |        |                 |                      | Targ. Coord. Corrections |                 |                 | Miscellaneous |                    |                     |                  |
|                   | (22)   | VV114-BK         | RA: 01 07 54.8040 (16.9783500d)<br>Dec: -17 30 53.86 (-17.51496d)<br>Equinox: J2000<br><br><i>Comments:</i><br><i>Category=Calibration</i><br><i>Description=[Telescope/sky background]</i> |        |                 |                      |                          |                 |                 |               |                    |                     |                  |
| Acquisition       | #  | Target           |   |        |                 |                      |                          |                 |                 |               |                    |                     |                  |
|                   | 1  | NONE             |   |        |                 |                      |                          |                 |                 |               |                    |                     |                  |
| Template          | AcqFilter  | Primary Channel  |   |        |                 | Simultaneous Imaging |                          |                 | Imager Subarray |               |                    |                     |                  |
|                   | F560W  | ALL              |   |        |                 | YES                  |                          |                 | FULL            |               |                    |                     |                  |
| 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  | F560W  | FASTR1          | 7                    | 7                        | 1               | Dither 1        | 4             | 28                 | 610.509             |                  |
|                   | 1  | SHORT(A)         | MRSLONG   |        | FASTR1          | 60                   | 1                        | 1               | Dither 1        | 4             | 4                  | 666.01              |                  |
|                   | 1  | SHORT(A)         | MRSSHORT  |        | FASTR1          | 60                   | 1                        | 1               | Dither 1        | 4             | 4                  | 666.01              |                  |
|                   | 2  |                  | IMAGER  | F770W  | FASTR1          | 7                    | 7                        | 1               | Dither 1        | 4             | 28                 | 610.509             |                  |
|                   | 2  | MEDIUM(B)        | MRSLONG   |        | FASTR1          | 60                   | 1                        | 1               | Dither 1        | 4             | 4                  | 666.01              |                  |
|                   | 2  | MEDIUM(B)        | MRSSHORT  |        | FASTR1          | 60                   | 1                        | 1               | Dither 1        | 4             | 4                  | 666.01              |                  |
|                   | 3  |                  | IMAGER  | F1500W | FASTR1          | 7                    | 7                        | 1               | Dither 1        | 4             | 28                 | 610.509             |                  |
|                   | 3  | LONG(C)          | MRSLONG   |        | FASTR1          | 60                   | 1                        | 1               | Dither 1        | 4             | 4                  | 666.01              |                  |
|                   | 3  | LONG(C)          | MRSSHORT  |        | FASTR1          | 60                   | 1                        | 1               | Dither 1        | 4             | 4                  | 666.01              |                  |

Proposal 1328 - Observation 21 - A JWST Study of the Starburst-AGN Connection in Merging LIRGs

Special Requirements

Sequence Observations 20, 21, Non-interruptible

Proposal 1328 - Observation 22 - A JWST Study of the Starburst-AGN Connection in Merging LIRGs

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|                          |  |                    |   |                         |                         |                                 |                       |                      |                           |                            |                         |
|--------------------------|--|--------------------|---|-------------------------|-------------------------|---------------------------------|-----------------------|----------------------|---------------------------|----------------------------|-------------------------|
| <b>Observation</b>       | <p><b>Proposal 1328, Observation 22: VV114-MIRI imaging</b></p> <p><b>Diagnostic Status: Warning</b></p> <p>Observing Template: MIRI Imaging</p> |                    |   |                         |                         |                                 |                       |                      |                           |                            |                         |
| <b>Diagnostics</b>       | (Visit 22:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.   |                    |   |                         |                         |                                 |                       |                      |                           |                            |                         |
| <b>Fixed Targets</b>     | <b>#</b>   | <b>Name</b>        | <b>Target Coordinates</b>   |                         |                         | <b>Targ. Coord. Corrections</b> |                       |                      | <b>Miscellaneous</b>      |                            |                         |
|                          | (21)   | VV114-CENTERED     | RA: 01 07 47.2000 (16.9466667d)<br>Dec: -17 30 25.00 (-17.50694d)<br>Equinox: J2000 |                         |                         |                                 |                       |                      |                           |                            |                         |
|                          | <p><i>Comments:</i><br/> <i>Category=Galaxy</i><br/> <i>Description=[Infrared galaxies, Interacting galaxies]</i></p>                            |                    |   |                         |                         |                                 |                       |                      |                           |                            |                         |
| <b>Template</b>          | <p><b>Subarray</b><br/>                 BRIGHTSKY</p>  |                    |   |                         |                         |                                 |                       |                      |                           |                            |                         |
| <b>Dithers</b>           | <b>#</b>   | <b>Dither Type</b> | <b>Starting Point</b>   | <b>Number of Points</b> | <b>Points</b>           | <b>Starting Set</b>             | <b>Number of Sets</b> | <b>Optimized For</b> | <b>Direction</b>          | <b>Pattern Size</b>        |                         |
|                          | 1  | CYCLING            | 1   | 3                       |                         |                                 |                       |                      |                           | DEFAULT                    |                         |
| <b>Spectral Elements</b> | <b>#</b>   | <b>Filter</b>      | <b>Readout Pattern</b>  | <b>Groups/Int</b>       | <b>Integrations/Exp</b> | <b>Exposures/Dith</b>           | <b>Dither</b>         | <b>Total Dithers</b> | <b>Total Integrations</b> | <b>Total Exposure Time</b> | <b>ETC Wkbk.Calc ID</b> |
|                          | 1  | F560W              | FASTR1  | 8                       | 15                      | 1                               | Dither 1              | 3                    | 45                        | 347.843                    |                         |
|                          | 2  | F770W              | FASTR1  | 8                       | 5                       | 1                               | Dither 1              | 3                    | 15                        | 114.217                    |                         |
|                          | 3  | F1500W             | FASTR1  | 8                       | 5                       | 1                               | Dither 1              | 3                    | 15                        | 114.217                    |                         |

Proposal 1328 - Observation 23 - A JWST Study of the Starburst-AGN Connection in Merging LIRGs

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|                          |   |                       |   |                   |                         |                                 |               |                         |                      |                           |                            |                         |
|--------------------------|---|-----------------------|---|-------------------|-------------------------|---------------------------------|---------------|-------------------------|----------------------|---------------------------|----------------------------|-------------------------|
| <b>Observation</b>       | <p><b>Proposal 1328, Observation 23: VV114-NIRSpec</b></p> <p><b>Diagnostic Status: Warning</b></p> <p>Observing Template: NIRSpec IFU Spectroscopy</p> |                       |   |                   |                         |                                 |               |                         |                      |                           |                            |                         |
| <b>Diagnostics</b>       | (Visit 23:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.  |                       |   |                   |                         |                                 |               |                         |                      |                           |                            |                         |
| <b>Fixed Targets</b>     | <b>#</b>  | <b>Name</b>           | <b>Target Coordinates</b>   |                   |                         | <b>Targ. Coord. Corrections</b> |               |                         | <b>Miscellaneous</b> |                           |                            |                         |
|                          | (20)  | VV114-NUC             | RA: 01 07 47.5300 (16.9480417d)<br>Dec: -17 30 25.20 (-17.50700d)<br>Equinox: J2000 |                   |                         |                                 |               |                         |                      |                           |                            |                         |
|                          | <p><i>Comments:</i><br/> <i>Category=Galaxy</i><br/> <i>Description=[Infrared galaxies, Interacting galaxies]</i></p>                                   |                       |   |                   |                         |                                 |               |                         |                      |                           |                            |                         |
| <b>Template</b>          | <b>TA Method</b>  |                       |   |                   |                         |                                 |               |                         |                      |                           |                            |                         |
|                          | NONE  |                       |   |                   |                         |                                 |               |                         |                      |                           |                            |                         |
| <b>Dithers</b>           | <b>#</b>  | <b>Dither Type</b>    |   | <b>Size</b>       | <b>Starting Point</b>   |                                 |               | <b>Number of Points</b> | <b>Points</b>        |                           |                            |                         |
|                          | 1   | CYCLING               |   | SMALL             | 1                       |                                 |               | 4                       |                      |                           |                            |                         |
| <b>Spectral Elements</b> | <b>#</b>  | <b>Grating/Filter</b> | <b>Readout Pattern</b>  | <b>Groups/Int</b> | <b>Integrations/Exp</b> | <b>Leakcal</b>                  | <b>Dither</b> | <b>Autocal</b>          | <b>Total Dithers</b> | <b>Total Integrations</b> | <b>Total Exposure Time</b> | <b>ETC Wkbk.Calc ID</b> |
|                          | 1   | G140H/F100LP          | NRSIRS2RAPID  | 25                | 1                       | false                           | true          | NONE                    | 4                    | 4                         | 1517.245                   |                         |
|                          | 2   | G140H/F100LP          | NRSIRS2RAPID  | 25                | 1                       | true                            | false         | NONE                    | 1                    | 1                         | 379.311                    |                         |
|                          | 3   | G235H/F170LP          | NRSIRS2RAPID  | 25                | 1                       | false                           | true          | NONE                    | 4                    | 4                         | 1517.245                   |                         |
|                          | 4   | G235H/F170LP          | NRSIRS2RAPID  | 25                | 1                       | true                            | false         | NONE                    | 1                    | 1                         | 379.311                    |                         |
|                          | 5   | G395H/F290LP          | NRSIRS2RAPID  | 25                | 1                       | false                           | true          | NONE                    | 4                    | 4                         | 1517.245                   |                         |
|                          | 6   | G395H/F290LP          | NRSIRS2RAPID  | 25                | 1                       | true                            | false         | NONE                    | 1                    | 1                         | 379.311                    |                         |

Proposal 1328 - Observation 24 - A JWST Study of the Starburst-AGN Connection in Merging LIRGs

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|                             |  |                            |   |                        |                                 |                         |                           |                           |                            |                         |
|-----------------------------|--|----------------------------|---|------------------------|---------------------------------|-------------------------|---------------------------|---------------------------|----------------------------|-------------------------|
| <b>Observation</b>          | <p>Proposal 1328, Observation 24: VV114-NIRCam Imaging</p> <p><b>Diagnostic Status: Warning</b></p> <p>Observing Template: NIRCam Imaging</p>  |                            |   |                        |                                 |                         |                           |                           |                            |                         |
| <b>Diagnostics</b>          | (Visit 24:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.   |                            |   |                        |                                 |                         |                           |                           |                            |                         |
| <b>Fixed Targets</b>        | <b>#</b>   | <b>Name</b>                | <b>Target Coordinates</b>   |                        | <b>Targ. Coord. Corrections</b> |                         |                           | <b>Miscellaneous</b>      |                            |                         |
|                             | (21)   | VV114-CENTERED             | RA: 01 07 47.2000 (16.9466667d)<br>Dec: -17 30 25.00 (-17.50694d)<br>Equinox: J2000 |                        |                                 |                         |                           |                           |                            |                         |
|                             | <p><i>Comments:</i><br/> <i>Category=Galaxy</i><br/> <i>Description=[Infrared galaxies, Interacting galaxies]</i></p>  |                            |   |                        |                                 |                         |                           |                           |                            |                         |
| <b>Template</b>             | <b>Module</b>  |                            |   |                        | <b>Subarray</b>                 |                         |                           |                           |                            |                         |
|                             | B  |                            |   |                        | FULL                            |                         |                           |                           |                            |                         |
| <b>Dithers</b>              | <b>#</b>   | <b>Primary Dither Type</b> |   | <b>Primary Dithers</b> | <b>Subpixel Dither Type</b>     |                         | <b>Dither Size</b>        | <b>Subpixel Positions</b> |                            |                         |
|                             | 1  | INTRAMODULE                |   | 3                      | STANDARD                        |                         |                           | 3                         |                            |                         |
| <b>Spectral Elements</b>    | <b>#</b>   | <b>Short Filter</b>        | <b>Long Filter</b>  | <b>Readout Pattern</b> | <b>Groups/Int</b>               | <b>Integrations/Exp</b> | <b>Total Integrations</b> | <b>Total Dithers</b>      | <b>Total Exposure Time</b> | <b>ETC Wkbk.Calc ID</b> |
|                             | 1  | F150W                      | F356W   | RAPID                  | 6                               | 1                       | 9                         | 9                         | 579.786                    |                         |
|                             | 2  | F200W                      | F444W   | RAPID                  | 6                               | 1                       | 9                         | 9                         | 579.786                    |                         |
| <b>Special Requirements</b> | <p>Aperture PA Range 40 to 240 Degrees (V3 39.94416471 to 239.94416471)</p> <p>Aperture PA Range 262 to 286 Degrees (V3 261.94416471 to 285.94416471)</p> <p>Aperture PA Range 300 to 7 Degrees (V3 299.94416471 to 6.94416471)</p> <p>Offset 20.0 arcsec, -9.0 arcsec</p> |                            |   |                        |                                 |                         |                           |                           |                            |                         |

Proposal 1328 - Observation 25 - A JWST Study of the Starburst-AGN Connection in Merging LIRGs

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|                          |  |                    |   |                         |                         |                                 |                       |                      |                           |                            |                         |
|--------------------------|--|--------------------|---|-------------------------|-------------------------|---------------------------------|-----------------------|----------------------|---------------------------|----------------------------|-------------------------|
| <b>Observation</b>       | <p>Proposal 1328, Observation 25: VV114-MIRI imaging - Subarray</p> <p><b>Diagnostic Status: Warning</b></p> <p>Observing Template: MIRI Imaging</p> |                    |   |                         |                         |                                 |                       |                      |                           |                            |                         |
| <b>Diagnostics</b>       | (Visit 25:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.   |                    |   |                         |                         |                                 |                       |                      |                           |                            |                         |
| <b>Fixed Targets</b>     | <b>#</b>   | <b>Name</b>        | <b>Target Coordinates</b>   |                         |                         | <b>Targ. Coord. Corrections</b> |                       |                      | <b>Miscellaneous</b>      |                            |                         |
|                          | (20)   | VV114-NUC          | RA: 01 07 47.5300 (16.9480417d)<br>Dec: -17 30 25.20 (-17.50700d)<br>Equinox: J2000 |                         |                         |                                 |                       |                      |                           |                            |                         |
|                          | <p><i>Comments:</i><br/> <i>Category=Galaxy</i><br/> <i>Description=[Infrared galaxies, Interacting galaxies]</i></p>                                |                    |   |                         |                         |                                 |                       |                      |                           |                            |                         |
| <b>Template</b>          | <p><b>Subarray</b><br/>SUB128</p>  |                    |   |                         |                         |                                 |                       |                      |                           |                            |                         |
| <b>Dithers</b>           | <b>#</b>   | <b>Dither Type</b> | <b>Starting Point</b>   | <b>Number of Points</b> | <b>Points</b>           | <b>Starting Set</b>             | <b>Number of Sets</b> | <b>Optimized For</b> | <b>Direction</b>          | <b>Pattern Size</b>        |                         |
|                          | 1  | CYCLING            | 1   | 3                       |                         |                                 |                       |                      |                           | DEFAULT                    |                         |
| <b>Spectral Elements</b> | <b>#</b>   | <b>Filter</b>      | <b>Readout Pattern</b>  | <b>Groups/Int</b>       | <b>Integrations/Exp</b> | <b>Exposures/Dith</b>           | <b>Dither</b>         | <b>Total Dithers</b> | <b>Total Integrations</b> | <b>Total Exposure Time</b> | <b>ETC Wkbk.Calc ID</b> |
|                          | 1  | F560W              | FASTR1  | 12                      | 10                      | 1                               | Dither 1              | 3                    | 30                        | 46.068                     | 25236                   |
|                          | 2  | F1500W             | FASTR1  | 8                       | 15                      | 1                               | Dither 1              | 3                    | 45                        | 47.854                     |                         |
|                          | 3  | F770W              | FASTR1  | 8                       | 15                      | 1                               | Dither 1              | 3                    | 45                        | 47.854                     |                         |



Proposal 1328 - Observation 8 - A JWST Study of the Starburst-AGN Connection in Merging LIRGs

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| <b>Observation</b>  | <b>Proposal 1328, Observation 8: NGC3256-MIRI-nuc1</b><br><b>Diagnostic Status: Warning</b><br>Observing Template: MIRI Medium Resolution Spectroscopy<br>Background Observations:[NGC3256-MIRI-BK (Obs 10)]   |  |                      |                          |                 |            |                  |                |          |               |                    |                     |                  |                  |                      |                          |                 |            |                  |  |        |               |                    |                     |                  |   |  |        |        |        |   |   |   |          |   |    |         |  |   |         |         |  |        |    |   |   |          |   |   |         |  |   |         |          |  |        |    |   |   |          |   |   |         |  |   |  |        |       |        |   |   |   |          |   |    |         |  |   |           |         |  |        |    |   |   |          |   |   |         |  |   |           |          |  |        |    |   |   |          |   |   |         |  |   |  |        |       |        |   |   |   |          |   |    |         |  |   |          |         |  |        |    |   |   |          |   |   |         |  |   |          |          |  |        |    |   |   |          |   |   |         |  |
|---|--|--|----------------------|--------------------------|-----------------|------------|------------------|----------------|----------|---------------|--------------------|---------------------|------------------|------------------|----------------------|--------------------------|-----------------|------------|------------------|--|--------|---------------|--------------------|---------------------|------------------|---|--|--------|--------|--------|---|---|---|----------|---|----|---------|--|---|---------|---------|--|--------|----|---|---|----------|---|---|---------|--|---|---------|----------|--|--------|----|---|---|----------|---|---|---------|--|---|--|--------|-------|--------|---|---|---|----------|---|----|---------|--|---|-----------|---------|--|--------|----|---|---|----------|---|---|---------|--|---|-----------|----------|--|--------|----|---|---|----------|---|---|---------|--|---|--|--------|-------|--------|---|---|---|----------|---|----|---------|--|---|----------|---------|--|--------|----|---|---|----------|---|---|---------|--|---|----------|----------|--|--------|----|---|---|----------|---|---|---------|--|
|   | (NGC3256-MIRI-nuc1 (Obs 8)) Warning (Form): Imager Filter overlap.<br>(Visit 8:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.  |  |                      |                          |                 |            |                  |                |          |               |                    |                     |                  |                  |                      |                          |                 |            |                  |  |        |               |                    |                     |                  |   |  |        |        |        |   |   |   |          |   |    |         |  |   |         |         |  |        |    |   |   |          |   |   |         |  |   |         |          |  |        |    |   |   |          |   |   |         |  |   |  |        |       |        |   |   |   |          |   |    |         |  |   |           |         |  |        |    |   |   |          |   |   |         |  |   |           |          |  |        |    |   |   |          |   |   |         |  |   |  |        |       |        |   |   |   |          |   |    |         |  |   |          |         |  |        |    |   |   |          |   |   |         |  |   |          |          |  |        |    |   |   |          |   |   |         |  |
| <b>Fixed Targets</b>  | <table border="1"> <thead> <tr> <th>#</th> <th>Name</th> <th>Target Coordinates</th> <th>Targ. Coord. Corrections</th> <th>Miscellaneous</th> </tr> </thead> <tbody> <tr> <td>(17)</td> <td>NGC3256-NUC1-MRS</td> <td>RA: 10 27 51.2400 (156.9635000d)<br/>Dec: -43 54 14.00 (-43.90389d)<br/>Equinox: J2000</td> <td></td> <td></td> </tr> </tbody> </table> <p><i>Comments:</i><br/> <i>Category=Galaxy</i><br/> <i>Description=[Infrared galaxies, Interacting galaxies]</i><br/> <i>Extended=YES</i></p>   |  |                      |                          |                 |            |                  |                |          |               |                    |                     | #                | Name             | Target Coordinates   | Targ. Coord. Corrections | Miscellaneous   | (17)       | NGC3256-NUC1-MRS | RA: 10 27 51.2400 (156.9635000d)<br>Dec: -43 54 14.00 (-43.90389d)<br>Equinox: J2000 |        |               |                    |                     |                  |   |  |        |        |        |   |   |   |          |   |    |         |  |   |         |         |  |        |    |   |   |          |   |   |         |  |   |         |          |  |        |    |   |   |          |   |   |         |  |   |  |        |       |        |   |   |   |          |   |    |         |  |   |           |         |  |        |    |   |   |          |   |   |         |  |   |           |          |  |        |    |   |   |          |   |   |         |  |   |  |        |       |        |   |   |   |          |   |    |         |  |   |          |         |  |        |    |   |   |          |   |   |         |  |   |          |          |  |        |    |   |   |          |   |   |         |  |
|   | #  | Name   | Target Coordinates   | Targ. Coord. Corrections | Miscellaneous   |            |                  |                |          |               |                    |                     |                  |                  |                      |                          |                 |            |                  |  |        |               |                    |                     |                  |   |  |        |        |        |   |   |   |          |   |    |         |  |   |         |         |  |        |    |   |   |          |   |   |         |  |   |         |          |  |        |    |   |   |          |   |   |         |  |   |  |        |       |        |   |   |   |          |   |    |         |  |   |           |         |  |        |    |   |   |          |   |   |         |  |   |           |          |  |        |    |   |   |          |   |   |         |  |   |  |        |       |        |   |   |   |          |   |    |         |  |   |          |         |  |        |    |   |   |          |   |   |         |  |   |          |          |  |        |    |   |   |          |   |   |         |  |
| (17)  | NGC3256-NUC1-MRS   | RA: 10 27 51.2400 (156.9635000d)<br>Dec: -43 54 14.00 (-43.90389d)<br>Equinox: J2000 |                      |                          |                 |            |                  |                |          |               |                    |                     |                  |                  |                      |                          |                 |            |                  |  |        |               |                    |                     |                  |   |  |        |        |        |   |   |   |          |   |    |         |  |   |         |         |  |        |    |   |   |          |   |   |         |  |   |         |          |  |        |    |   |   |          |   |   |         |  |   |  |        |       |        |   |   |   |          |   |    |         |  |   |           |         |  |        |    |   |   |          |   |   |         |  |   |           |          |  |        |    |   |   |          |   |   |         |  |   |  |        |       |        |   |   |   |          |   |    |         |  |   |          |         |  |        |    |   |   |          |   |   |         |  |   |          |          |  |        |    |   |   |          |   |   |         |  |
| <table border="1"> <thead> <tr> <th>#</th> <th>Target</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>NONE</td> </tr> </tbody> </table> |  |  |                      |                          |                 |            |                  |                |          |               |                    | #                   | Target           | 1                | NONE                 |                          |                 |            |                  |  |        |               |                    |                     |                  |   |  |        |        |        |   |   |   |          |   |    |         |  |   |         |         |  |        |    |   |   |          |   |   |         |  |   |         |          |  |        |    |   |   |          |   |   |         |  |   |  |        |       |        |   |   |   |          |   |    |         |  |   |           |         |  |        |    |   |   |          |   |   |         |  |   |           |          |  |        |    |   |   |          |   |   |         |  |   |  |        |       |        |   |   |   |          |   |    |         |  |   |          |         |  |        |    |   |   |          |   |   |         |  |   |          |          |  |        |    |   |   |          |   |   |         |  |
| #   | Target   |  |                      |                          |                 |            |                  |                |          |               |                    |                     |                  |                  |                      |                          |                 |            |                  |  |        |               |                    |                     |                  |   |  |        |        |        |   |   |   |          |   |    |         |  |   |         |         |  |        |    |   |   |          |   |   |         |  |   |         |          |  |        |    |   |   |          |   |   |         |  |   |  |        |       |        |   |   |   |          |   |    |         |  |   |           |         |  |        |    |   |   |          |   |   |         |  |   |           |          |  |        |    |   |   |          |   |   |         |  |   |  |        |       |        |   |   |   |          |   |    |         |  |   |          |         |  |        |    |   |   |          |   |   |         |  |   |          |          |  |        |    |   |   |          |   |   |         |  |
| 1   | NONE   |  |                      |                          |                 |            |                  |                |          |               |                    |                     |                  |                  |                      |                          |                 |            |                  |  |        |               |                    |                     |                  |   |  |        |        |        |   |   |   |          |   |    |         |  |   |         |         |  |        |    |   |   |          |   |   |         |  |   |         |          |  |        |    |   |   |          |   |   |         |  |   |  |        |       |        |   |   |   |          |   |    |         |  |   |           |         |  |        |    |   |   |          |   |   |         |  |   |           |          |  |        |    |   |   |          |   |   |         |  |   |  |        |       |        |   |   |   |          |   |    |         |  |   |          |         |  |        |    |   |   |          |   |   |         |  |   |          |          |  |        |    |   |   |          |   |   |         |  |
| <b>Template</b>   | <table border="1"> <thead> <tr> <th>AcqFilter</th> <th>Primary Channel</th> <th>Simultaneous Imaging</th> <th>Imager Subarray</th> </tr> </thead> <tbody> <tr> <td>F560W</td> <td>ALL</td> <td>YES</td> <td>FULL</td> </tr> </tbody> </table>  |  |                      |                          |                 |            |                  |                |          |               |                    |                     | AcqFilter        | Primary Channel  | Simultaneous Imaging | Imager Subarray          | F560W           | ALL        | YES              | FULL   |        |               |                    |                     |                  |   |  |        |        |        |   |   |   |          |   |    |         |  |   |         |         |  |        |    |   |   |          |   |   |         |  |   |         |          |  |        |    |   |   |          |   |   |         |  |   |  |        |       |        |   |   |   |          |   |    |         |  |   |           |         |  |        |    |   |   |          |   |   |         |  |   |           |          |  |        |    |   |   |          |   |   |         |  |   |  |        |       |        |   |   |   |          |   |    |         |  |   |          |         |  |        |    |   |   |          |   |   |         |  |   |          |          |  |        |    |   |   |          |   |   |         |  |
|   | AcqFilter  | Primary Channel  | Simultaneous Imaging | Imager Subarray          |                 |            |                  |                |          |               |                    |                     |                  |                  |                      |                          |                 |            |                  |  |        |               |                    |                     |                  |   |  |        |        |        |   |   |   |          |   |    |         |  |   |         |         |  |        |    |   |   |          |   |   |         |  |   |         |          |  |        |    |   |   |          |   |   |         |  |   |  |        |       |        |   |   |   |          |   |    |         |  |   |           |         |  |        |    |   |   |          |   |   |         |  |   |           |          |  |        |    |   |   |          |   |   |         |  |   |  |        |       |        |   |   |   |          |   |    |         |  |   |          |         |  |        |    |   |   |          |   |   |         |  |   |          |          |  |        |    |   |   |          |   |   |         |  |
| F560W   | ALL  | YES  | FULL                 |                          |                 |            |                  |                |          |               |                    |                     |                  |                  |                      |                          |                 |            |                  |  |        |               |                    |                     |                  |   |  |        |        |        |   |   |   |          |   |    |         |  |   |         |         |  |        |    |   |   |          |   |   |         |  |   |         |          |  |        |    |   |   |          |   |   |         |  |   |  |        |       |        |   |   |   |          |   |    |         |  |   |           |         |  |        |    |   |   |          |   |   |         |  |   |           |          |  |        |    |   |   |          |   |   |         |  |   |  |        |       |        |   |   |   |          |   |    |         |  |   |          |         |  |        |    |   |   |          |   |   |         |  |   |          |          |  |        |    |   |   |          |   |   |         |  |
| <b>Dithers</b>  | <table border="1"> <thead> <tr> <th>#</th> <th>Dither Type</th> <th>Optimized For</th> <th>Direction</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>4-Point</td> <td>EXTENDED SOURCE</td> <td>NEGATIVE</td> </tr> </tbody> </table>   |  |                      |                          |                 |            |                  |                |          |               |                    |                     | #                | Dither Type      | Optimized For        | Direction                | 1               | 4-Point    | EXTENDED SOURCE  | NEGATIVE   |        |               |                    |                     |                  |   |  |        |        |        |   |   |   |          |   |    |         |  |   |         |         |  |        |    |   |   |          |   |   |         |  |   |         |          |  |        |    |   |   |          |   |   |         |  |   |  |        |       |        |   |   |   |          |   |    |         |  |   |           |         |  |        |    |   |   |          |   |   |         |  |   |           |          |  |        |    |   |   |          |   |   |         |  |   |  |        |       |        |   |   |   |          |   |    |         |  |   |          |         |  |        |    |   |   |          |   |   |         |  |   |          |          |  |        |    |   |   |          |   |   |         |  |
|   | #  | Dither Type  | Optimized For        | Direction                |                 |            |                  |                |          |               |                    |                     |                  |                  |                      |                          |                 |            |                  |  |        |               |                    |                     |                  |   |  |        |        |        |   |   |   |          |   |    |         |  |   |         |         |  |        |    |   |   |          |   |   |         |  |   |         |          |  |        |    |   |   |          |   |   |         |  |   |  |        |       |        |   |   |   |          |   |    |         |  |   |           |         |  |        |    |   |   |          |   |   |         |  |   |           |          |  |        |    |   |   |          |   |   |         |  |   |  |        |       |        |   |   |   |          |   |    |         |  |   |          |         |  |        |    |   |   |          |   |   |         |  |   |          |          |  |        |    |   |   |          |   |   |         |  |
| 1   | 4-Point  | EXTENDED SOURCE  | NEGATIVE             |                          |                 |            |                  |                |          |               |                    |                     |                  |                  |                      |                          |                 |            |                  |  |        |               |                    |                     |                  |   |  |        |        |        |   |   |   |          |   |    |         |  |   |         |         |  |        |    |   |   |          |   |   |         |  |   |         |          |  |        |    |   |   |          |   |   |         |  |   |  |        |       |        |   |   |   |          |   |    |         |  |   |           |         |  |        |    |   |   |          |   |   |         |  |   |           |          |  |        |    |   |   |          |   |   |         |  |   |  |        |       |        |   |   |   |          |   |    |         |  |   |          |         |  |        |    |   |   |          |   |   |         |  |   |          |          |  |        |    |   |   |          |   |   |         |  |
| <b>Spectral Elements</b>  | <table border="1"> <thead> <tr> <th>#</th> <th>Wavelength Range</th> <th>Detector</th> <th>Filter</th> <th>Readout Pattern</th> <th>Groups/Int</th> <th>Integrations/Exp</th> <th>Exposures/Dith</th> <th>Dither</th> <th>Total Dithers</th> <th>Total Integrations</th> <th>Total Exposure Time</th> <th>ETC Wkbk.Calc ID</th> </tr> </thead> <tbody> <tr> <td>1</td> <td></td> <td>IMAGER</td> <td>F1500W</td> <td>FASTR1</td> <td>7</td> <td>5</td> <td>1</td> <td>Dither 1</td> <td>4</td> <td>20</td> <td>432.906</td> <td></td> </tr> <tr> <td>1</td> <td>LONG(C)</td> <td>MRSLONG</td> <td></td> <td>FASTR1</td> <td>40</td> <td>1</td> <td>1</td> <td>Dither 1</td> <td>4</td> <td>4</td> <td>444.006</td> <td></td> </tr> <tr> <td>1</td> <td>LONG(C)</td> <td>MRSSHORT</td> <td></td> <td>FASTR1</td> <td>40</td> <td>1</td> <td>1</td> <td>Dither 1</td> <td>4</td> <td>4</td> <td>444.006</td> <td></td> </tr> <tr> <td>2</td> <td></td> <td>IMAGER</td> <td>F770W</td> <td>FASTR1</td> <td>7</td> <td>5</td> <td>1</td> <td>Dither 1</td> <td>4</td> <td>20</td> <td>432.906</td> <td></td> </tr> <tr> <td>2</td> <td>MEDIUM(B)</td> <td>MRSLONG</td> <td></td> <td>FASTR1</td> <td>40</td> <td>1</td> <td>1</td> <td>Dither 1</td> <td>4</td> <td>4</td> <td>444.006</td> <td></td> </tr> <tr> <td>2</td> <td>MEDIUM(B)</td> <td>MRSSHORT</td> <td></td> <td>FASTR1</td> <td>40</td> <td>1</td> <td>1</td> <td>Dither 1</td> <td>4</td> <td>4</td> <td>444.006</td> <td></td> </tr> <tr> <td>3</td> <td></td> <td>IMAGER</td> <td>F560W</td> <td>FASTR1</td> <td>7</td> <td>5</td> <td>1</td> <td>Dither 1</td> <td>4</td> <td>20</td> <td>432.906</td> <td></td> </tr> <tr> <td>3</td> <td>SHORT(A)</td> <td>MRSLONG</td> <td></td> <td>FASTR1</td> <td>40</td> <td>1</td> <td>1</td> <td>Dither 1</td> <td>4</td> <td>4</td> <td>444.006</td> <td></td> </tr> <tr> <td>3</td> <td>SHORT(A)</td> <td>MRSSHORT</td> <td></td> <td>FASTR1</td> <td>40</td> <td>1</td> <td>1</td> <td>Dither 1</td> <td>4</td> <td>4</td> <td>444.006</td> <td></td> </tr> </tbody> </table> |  |                      |                          |                 |            |                  |                |          |               |                    |                     | #                | 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 | F1500W | FASTR1 | 7 | 5 | 1 | Dither 1 | 4 | 20 | 432.906 |  | 1 | LONG(C) | MRSLONG |  | FASTR1 | 40 | 1 | 1 | Dither 1 | 4 | 4 | 444.006 |  | 1 | LONG(C) | MRSSHORT |  | FASTR1 | 40 | 1 | 1 | Dither 1 | 4 | 4 | 444.006 |  | 2 |  | IMAGER | F770W | FASTR1 | 7 | 5 | 1 | Dither 1 | 4 | 20 | 432.906 |  | 2 | MEDIUM(B) | MRSLONG |  | FASTR1 | 40 | 1 | 1 | Dither 1 | 4 | 4 | 444.006 |  | 2 | MEDIUM(B) | MRSSHORT |  | FASTR1 | 40 | 1 | 1 | Dither 1 | 4 | 4 | 444.006 |  | 3 |  | IMAGER | F560W | FASTR1 | 7 | 5 | 1 | Dither 1 | 4 | 20 | 432.906 |  | 3 | SHORT(A) | MRSLONG |  | FASTR1 | 40 | 1 | 1 | Dither 1 | 4 | 4 | 444.006 |  | 3 | SHORT(A) | MRSSHORT |  | FASTR1 | 40 | 1 | 1 | Dither 1 | 4 | 4 | 444.006 |  |
|   | #  | 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               | F1500W                   | FASTR1          | 7          | 5                | 1              | Dither 1 | 4             | 20                 | 432.906             |                  |                  |                      |                          |                 |            |                  |  |        |               |                    |                     |                  |   |  |        |        |        |   |   |   |          |   |    |         |  |   |         |         |  |        |    |   |   |          |   |   |         |  |   |         |          |  |        |    |   |   |          |   |   |         |  |   |  |        |       |        |   |   |   |          |   |    |         |  |   |           |         |  |        |    |   |   |          |   |   |         |  |   |           |          |  |        |    |   |   |          |   |   |         |  |   |  |        |       |        |   |   |   |          |   |    |         |  |   |          |         |  |        |    |   |   |          |   |   |         |  |   |          |          |  |        |    |   |   |          |   |   |         |  |
|   | 1  | LONG(C)  | MRSLONG              |                          | FASTR1          | 40         | 1                | 1              | Dither 1 | 4             | 4                  | 444.006             |                  |                  |                      |                          |                 |            |                  |  |        |               |                    |                     |                  |   |  |        |        |        |   |   |   |          |   |    |         |  |   |         |         |  |        |    |   |   |          |   |   |         |  |   |         |          |  |        |    |   |   |          |   |   |         |  |   |  |        |       |        |   |   |   |          |   |    |         |  |   |           |         |  |        |    |   |   |          |   |   |         |  |   |           |          |  |        |    |   |   |          |   |   |         |  |   |  |        |       |        |   |   |   |          |   |    |         |  |   |          |         |  |        |    |   |   |          |   |   |         |  |   |          |          |  |        |    |   |   |          |   |   |         |  |
|   | 1  | LONG(C)  | MRSSHORT             |                          | FASTR1          | 40         | 1                | 1              | Dither 1 | 4             | 4                  | 444.006             |                  |                  |                      |                          |                 |            |                  |  |        |               |                    |                     |                  |   |  |        |        |        |   |   |   |          |   |    |         |  |   |         |         |  |        |    |   |   |          |   |   |         |  |   |         |          |  |        |    |   |   |          |   |   |         |  |   |  |        |       |        |   |   |   |          |   |    |         |  |   |           |         |  |        |    |   |   |          |   |   |         |  |   |           |          |  |        |    |   |   |          |   |   |         |  |   |  |        |       |        |   |   |   |          |   |    |         |  |   |          |         |  |        |    |   |   |          |   |   |         |  |   |          |          |  |        |    |   |   |          |   |   |         |  |
|   | 2  |  | IMAGER               | F770W                    | FASTR1          | 7          | 5                | 1              | Dither 1 | 4             | 20                 | 432.906             |                  |                  |                      |                          |                 |            |                  |  |        |               |                    |                     |                  |   |  |        |        |        |   |   |   |          |   |    |         |  |   |         |         |  |        |    |   |   |          |   |   |         |  |   |         |          |  |        |    |   |   |          |   |   |         |  |   |  |        |       |        |   |   |   |          |   |    |         |  |   |           |         |  |        |    |   |   |          |   |   |         |  |   |           |          |  |        |    |   |   |          |   |   |         |  |   |  |        |       |        |   |   |   |          |   |    |         |  |   |          |         |  |        |    |   |   |          |   |   |         |  |   |          |          |  |        |    |   |   |          |   |   |         |  |
|   | 2  | MEDIUM(B)  | MRSLONG              |                          | FASTR1          | 40         | 1                | 1              | Dither 1 | 4             | 4                  | 444.006             |                  |                  |                      |                          |                 |            |                  |  |        |               |                    |                     |                  |   |  |        |        |        |   |   |   |          |   |    |         |  |   |         |         |  |        |    |   |   |          |   |   |         |  |   |         |          |  |        |    |   |   |          |   |   |         |  |   |  |        |       |        |   |   |   |          |   |    |         |  |   |           |         |  |        |    |   |   |          |   |   |         |  |   |           |          |  |        |    |   |   |          |   |   |         |  |   |  |        |       |        |   |   |   |          |   |    |         |  |   |          |         |  |        |    |   |   |          |   |   |         |  |   |          |          |  |        |    |   |   |          |   |   |         |  |
|   | 2  | MEDIUM(B)  | MRSSHORT             |                          | FASTR1          | 40         | 1                | 1              | Dither 1 | 4             | 4                  | 444.006             |                  |                  |                      |                          |                 |            |                  |  |        |               |                    |                     |                  |   |  |        |        |        |   |   |   |          |   |    |         |  |   |         |         |  |        |    |   |   |          |   |   |         |  |   |         |          |  |        |    |   |   |          |   |   |         |  |   |  |        |       |        |   |   |   |          |   |    |         |  |   |           |         |  |        |    |   |   |          |   |   |         |  |   |           |          |  |        |    |   |   |          |   |   |         |  |   |  |        |       |        |   |   |   |          |   |    |         |  |   |          |         |  |        |    |   |   |          |   |   |         |  |   |          |          |  |        |    |   |   |          |   |   |         |  |
|   | 3  |  | IMAGER               | F560W                    | FASTR1          | 7          | 5                | 1              | Dither 1 | 4             | 20                 | 432.906             |                  |                  |                      |                          |                 |            |                  |  |        |               |                    |                     |                  |   |  |        |        |        |   |   |   |          |   |    |         |  |   |         |         |  |        |    |   |   |          |   |   |         |  |   |         |          |  |        |    |   |   |          |   |   |         |  |   |  |        |       |        |   |   |   |          |   |    |         |  |   |           |         |  |        |    |   |   |          |   |   |         |  |   |           |          |  |        |    |   |   |          |   |   |         |  |   |  |        |       |        |   |   |   |          |   |    |         |  |   |          |         |  |        |    |   |   |          |   |   |         |  |   |          |          |  |        |    |   |   |          |   |   |         |  |
|   | 3  | SHORT(A)   | MRSLONG              |                          | FASTR1          | 40         | 1                | 1              | Dither 1 | 4             | 4                  | 444.006             |                  |                  |                      |                          |                 |            |                  |  |        |               |                    |                     |                  |   |  |        |        |        |   |   |   |          |   |    |         |  |   |         |         |  |        |    |   |   |          |   |   |         |  |   |         |          |  |        |    |   |   |          |   |   |         |  |   |  |        |       |        |   |   |   |          |   |    |         |  |   |           |         |  |        |    |   |   |          |   |   |         |  |   |           |          |  |        |    |   |   |          |   |   |         |  |   |  |        |       |        |   |   |   |          |   |    |         |  |   |          |         |  |        |    |   |   |          |   |   |         |  |   |          |          |  |        |    |   |   |          |   |   |         |  |
| 3   | SHORT(A)   | MRSSHORT   |                      | FASTR1                   | 40              | 1          | 1                | Dither 1       | 4        | 4             | 444.006            |                     |                  |                  |                      |                          |                 |            |                  |  |        |               |                    |                     |                  |   |  |        |        |        |   |   |   |          |   |    |         |  |   |         |         |  |        |    |   |   |          |   |   |         |  |   |         |          |  |        |    |   |   |          |   |   |         |  |   |  |        |       |        |   |   |   |          |   |    |         |  |   |           |         |  |        |    |   |   |          |   |   |         |  |   |           |          |  |        |    |   |   |          |   |   |         |  |   |  |        |       |        |   |   |   |          |   |    |         |  |   |          |         |  |        |    |   |   |          |   |   |         |  |   |          |          |  |        |    |   |   |          |   |   |         |  |

Proposal 1328 - Observation 8 - A JWST Study of the Starburst-AGN Connection in Merging LIRGs

|                             |   |
|-----------------------------|---|
| <b>Special Requirements</b> | Sequence Observations 8, 9, 10, Non-interruptible |
|-----------------------------|---|

Proposal 1328 - Observation 9 - A JWST Study of the Starburst-AGN Connection in Merging LIRGs

Wed Nov 23 17:00:38 GMT 2022

| <b>Observation</b>  | <b>Proposal 1328, Observation 9: NGC3256-MIRI-nuc2</b><br><b>Diagnostic Status: Warning</b><br>Observing Template: MIRI Medium Resolution Spectroscopy<br>Background Observations:[NGC3256-MIRI-BK (Obs 10)]   |  |                      |                          |                 |            |                   |                 |          |               |                    |                     |                  |                  |                      |                          |                 |            |                   |  |        |               |                    |                     |                  |   |  |        |        |        |   |   |   |          |   |    |         |  |   |         |         |  |        |    |   |   |          |   |   |         |  |   |         |          |  |        |    |   |   |          |   |   |         |  |   |  |        |       |        |   |   |   |          |   |    |         |  |   |           |         |  |        |    |   |   |          |   |   |         |  |   |           |          |  |        |    |   |   |          |   |   |         |  |   |  |        |       |        |   |   |   |          |   |    |         |  |   |          |         |  |        |    |   |   |          |   |   |         |  |   |          |          |  |        |    |   |   |          |   |   |         |  |
|---|--|--|----------------------|--------------------------|-----------------|------------|-------------------|-----------------|----------|---------------|--------------------|---------------------|------------------|------------------|----------------------|--------------------------|-----------------|------------|-------------------|--|--------|---------------|--------------------|---------------------|------------------|---|--|--------|--------|--------|---|---|---|----------|---|----|---------|--|---|---------|---------|--|--------|----|---|---|----------|---|---|---------|--|---|---------|----------|--|--------|----|---|---|----------|---|---|---------|--|---|--|--------|-------|--------|---|---|---|----------|---|----|---------|--|---|-----------|---------|--|--------|----|---|---|----------|---|---|---------|--|---|-----------|----------|--|--------|----|---|---|----------|---|---|---------|--|---|--|--------|-------|--------|---|---|---|----------|---|----|---------|--|---|----------|---------|--|--------|----|---|---|----------|---|---|---------|--|---|----------|----------|--|--------|----|---|---|----------|---|---|---------|--|
|   | (NGC3256-MIRI-nuc2 (Obs 9)) Warning (Form): Imager Filter overlap.<br>(Visit 9:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.  |  |                      |                          |                 |            |                   |                 |          |               |                    |                     |                  |                  |                      |                          |                 |            |                   |  |        |               |                    |                     |                  |   |  |        |        |        |   |   |   |          |   |    |         |  |   |         |         |  |        |    |   |   |          |   |   |         |  |   |         |          |  |        |    |   |   |          |   |   |         |  |   |  |        |       |        |   |   |   |          |   |    |         |  |   |           |         |  |        |    |   |   |          |   |   |         |  |   |           |          |  |        |    |   |   |          |   |   |         |  |   |  |        |       |        |   |   |   |          |   |    |         |  |   |          |         |  |        |    |   |   |          |   |   |         |  |   |          |          |  |        |    |   |   |          |   |   |         |  |
| <b>Diagnosics</b>   |  |  |                      |                          |                 |            |                   |                 |          |               |                    |                     |                  |                  |                      |                          |                 |            |                   |  |        |               |                    |                     |                  |   |  |        |        |        |   |   |   |          |   |    |         |  |   |         |         |  |        |    |   |   |          |   |   |         |  |   |         |          |  |        |    |   |   |          |   |   |         |  |   |  |        |       |        |   |   |   |          |   |    |         |  |   |           |         |  |        |    |   |   |          |   |   |         |  |   |           |          |  |        |    |   |   |          |   |   |         |  |   |  |        |       |        |   |   |   |          |   |    |         |  |   |          |         |  |        |    |   |   |          |   |   |         |  |   |          |          |  |        |    |   |   |          |   |   |         |  |
|   |  |  |                      |                          |                 |            |                   |                 |          |               |                    |                     |                  |                  |                      |                          |                 |            |                   |  |        |               |                    |                     |                  |   |  |        |        |        |   |   |   |          |   |    |         |  |   |         |         |  |        |    |   |   |          |   |   |         |  |   |         |          |  |        |    |   |   |          |   |   |         |  |   |  |        |       |        |   |   |   |          |   |    |         |  |   |           |         |  |        |    |   |   |          |   |   |         |  |   |           |          |  |        |    |   |   |          |   |   |         |  |   |  |        |       |        |   |   |   |          |   |    |         |  |   |          |         |  |        |    |   |   |          |   |   |         |  |   |          |          |  |        |    |   |   |          |   |   |         |  |
| <b>Fixed Targets</b>  | <table border="1"> <thead> <tr> <th>#</th> <th>Name</th> <th>Target Coordinates</th> <th>Targ. Coord. Corrections</th> <th>Miscellaneous</th> </tr> </thead> <tbody> <tr> <td>(18)</td> <td>NGC3256-NUC2-MRS</td> <td>RA: 10 27 51.2200 (156.9634167d)<br/>Dec: -43 54 19.23 (-43.90534d)<br/>Equinox: J2000</td> <td></td> <td></td> </tr> </tbody> </table>  |  |                      |                          |                 |            |                   |                 |          |               |                    |                     | #                | Name             | Target Coordinates   | Targ. Coord. Corrections | Miscellaneous   | (18)       | NGC3256-NUC2-MRS  | RA: 10 27 51.2200 (156.9634167d)<br>Dec: -43 54 19.23 (-43.90534d)<br>Equinox: J2000 |        |               |                    |                     |                  |   |  |        |        |        |   |   |   |          |   |    |         |  |   |         |         |  |        |    |   |   |          |   |   |         |  |   |         |          |  |        |    |   |   |          |   |   |         |  |   |  |        |       |        |   |   |   |          |   |    |         |  |   |           |         |  |        |    |   |   |          |   |   |         |  |   |           |          |  |        |    |   |   |          |   |   |         |  |   |  |        |       |        |   |   |   |          |   |    |         |  |   |          |         |  |        |    |   |   |          |   |   |         |  |   |          |          |  |        |    |   |   |          |   |   |         |  |
|   | #  | Name   | Target Coordinates   | Targ. Coord. Corrections | Miscellaneous   |            |                   |                 |          |               |                    |                     |                  |                  |                      |                          |                 |            |                   |  |        |               |                    |                     |                  |   |  |        |        |        |   |   |   |          |   |    |         |  |   |         |         |  |        |    |   |   |          |   |   |         |  |   |         |          |  |        |    |   |   |          |   |   |         |  |   |  |        |       |        |   |   |   |          |   |    |         |  |   |           |         |  |        |    |   |   |          |   |   |         |  |   |           |          |  |        |    |   |   |          |   |   |         |  |   |  |        |       |        |   |   |   |          |   |    |         |  |   |          |         |  |        |    |   |   |          |   |   |         |  |   |          |          |  |        |    |   |   |          |   |   |         |  |
| (18)  | NGC3256-NUC2-MRS   | RA: 10 27 51.2200 (156.9634167d)<br>Dec: -43 54 19.23 (-43.90534d)<br>Equinox: J2000 |                      |                          |                 |            |                   |                 |          |               |                    |                     |                  |                  |                      |                          |                 |            |                   |  |        |               |                    |                     |                  |   |  |        |        |        |   |   |   |          |   |    |         |  |   |         |         |  |        |    |   |   |          |   |   |         |  |   |         |          |  |        |    |   |   |          |   |   |         |  |   |  |        |       |        |   |   |   |          |   |    |         |  |   |           |         |  |        |    |   |   |          |   |   |         |  |   |           |          |  |        |    |   |   |          |   |   |         |  |   |  |        |       |        |   |   |   |          |   |    |         |  |   |          |         |  |        |    |   |   |          |   |   |         |  |   |          |          |  |        |    |   |   |          |   |   |         |  |
| Comments:<br>Category=Galaxy<br>Description=[Infrared galaxies, Interacting galaxies]<br>Extended=YES |  |  |                      |                          |                 |            |                   |                 |          |               |                    |                     |                  |                  |                      |                          |                 |            |                   |  |        |               |                    |                     |                  |   |  |        |        |        |   |   |   |          |   |    |         |  |   |         |         |  |        |    |   |   |          |   |   |         |  |   |         |          |  |        |    |   |   |          |   |   |         |  |   |  |        |       |        |   |   |   |          |   |    |         |  |   |           |         |  |        |    |   |   |          |   |   |         |  |   |           |          |  |        |    |   |   |          |   |   |         |  |   |  |        |       |        |   |   |   |          |   |    |         |  |   |          |         |  |        |    |   |   |          |   |   |         |  |   |          |          |  |        |    |   |   |          |   |   |         |  |
| <b>Acquisition</b>  | <table border="1"> <thead> <tr> <th>#</th> <th>Target</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>NONE</td> </tr> </tbody> </table>  |  |                      |                          |                 |            |                   |                 |          |               |                    |                     | #                | Target           | 1                    | NONE                     |                 |            |                   |  |        |               |                    |                     |                  |   |  |        |        |        |   |   |   |          |   |    |         |  |   |         |         |  |        |    |   |   |          |   |   |         |  |   |         |          |  |        |    |   |   |          |   |   |         |  |   |  |        |       |        |   |   |   |          |   |    |         |  |   |           |         |  |        |    |   |   |          |   |   |         |  |   |           |          |  |        |    |   |   |          |   |   |         |  |   |  |        |       |        |   |   |   |          |   |    |         |  |   |          |         |  |        |    |   |   |          |   |   |         |  |   |          |          |  |        |    |   |   |          |   |   |         |  |
|   | #  | Target   |                      |                          |                 |            |                   |                 |          |               |                    |                     |                  |                  |                      |                          |                 |            |                   |  |        |               |                    |                     |                  |   |  |        |        |        |   |   |   |          |   |    |         |  |   |         |         |  |        |    |   |   |          |   |   |         |  |   |         |          |  |        |    |   |   |          |   |   |         |  |   |  |        |       |        |   |   |   |          |   |    |         |  |   |           |         |  |        |    |   |   |          |   |   |         |  |   |           |          |  |        |    |   |   |          |   |   |         |  |   |  |        |       |        |   |   |   |          |   |    |         |  |   |          |         |  |        |    |   |   |          |   |   |         |  |   |          |          |  |        |    |   |   |          |   |   |         |  |
| 1   | NONE   |  |                      |                          |                 |            |                   |                 |          |               |                    |                     |                  |                  |                      |                          |                 |            |                   |  |        |               |                    |                     |                  |   |  |        |        |        |   |   |   |          |   |    |         |  |   |         |         |  |        |    |   |   |          |   |   |         |  |   |         |          |  |        |    |   |   |          |   |   |         |  |   |  |        |       |        |   |   |   |          |   |    |         |  |   |           |         |  |        |    |   |   |          |   |   |         |  |   |           |          |  |        |    |   |   |          |   |   |         |  |   |  |        |       |        |   |   |   |          |   |    |         |  |   |          |         |  |        |    |   |   |          |   |   |         |  |   |          |          |  |        |    |   |   |          |   |   |         |  |
|   |  |  |                      |                          |                 |            |                   |                 |          |               |                    |                     |                  |                  |                      |                          |                 |            |                   |  |        |               |                    |                     |                  |   |  |        |        |        |   |   |   |          |   |    |         |  |   |         |         |  |        |    |   |   |          |   |   |         |  |   |         |          |  |        |    |   |   |          |   |   |         |  |   |  |        |       |        |   |   |   |          |   |    |         |  |   |           |         |  |        |    |   |   |          |   |   |         |  |   |           |          |  |        |    |   |   |          |   |   |         |  |   |  |        |       |        |   |   |   |          |   |    |         |  |   |          |         |  |        |    |   |   |          |   |   |         |  |   |          |          |  |        |    |   |   |          |   |   |         |  |
| <b>Template</b>   | <table border="1"> <thead> <tr> <th>AcqFilter</th> <th>Primary Channel</th> <th>Simultaneous Imaging</th> <th>Imager Subarray</th> </tr> </thead> <tbody> <tr> <td>F560W</td> <td>ALL</td> <td>YES</td> <td>FULL</td> </tr> </tbody> </table>  |  |                      |                          |                 |            |                   |                 |          |               |                    |                     | AcqFilter        | Primary Channel  | Simultaneous Imaging | Imager Subarray          | F560W           | ALL        | YES               | FULL   |        |               |                    |                     |                  |   |  |        |        |        |   |   |   |          |   |    |         |  |   |         |         |  |        |    |   |   |          |   |   |         |  |   |         |          |  |        |    |   |   |          |   |   |         |  |   |  |        |       |        |   |   |   |          |   |    |         |  |   |           |         |  |        |    |   |   |          |   |   |         |  |   |           |          |  |        |    |   |   |          |   |   |         |  |   |  |        |       |        |   |   |   |          |   |    |         |  |   |          |         |  |        |    |   |   |          |   |   |         |  |   |          |          |  |        |    |   |   |          |   |   |         |  |
|   | AcqFilter  | Primary Channel  | Simultaneous Imaging | Imager Subarray          |                 |            |                   |                 |          |               |                    |                     |                  |                  |                      |                          |                 |            |                   |  |        |               |                    |                     |                  |   |  |        |        |        |   |   |   |          |   |    |         |  |   |         |         |  |        |    |   |   |          |   |   |         |  |   |         |          |  |        |    |   |   |          |   |   |         |  |   |  |        |       |        |   |   |   |          |   |    |         |  |   |           |         |  |        |    |   |   |          |   |   |         |  |   |           |          |  |        |    |   |   |          |   |   |         |  |   |  |        |       |        |   |   |   |          |   |    |         |  |   |          |         |  |        |    |   |   |          |   |   |         |  |   |          |          |  |        |    |   |   |          |   |   |         |  |
| F560W   | ALL  | YES  | FULL                 |                          |                 |            |                   |                 |          |               |                    |                     |                  |                  |                      |                          |                 |            |                   |  |        |               |                    |                     |                  |   |  |        |        |        |   |   |   |          |   |    |         |  |   |         |         |  |        |    |   |   |          |   |   |         |  |   |         |          |  |        |    |   |   |          |   |   |         |  |   |  |        |       |        |   |   |   |          |   |    |         |  |   |           |         |  |        |    |   |   |          |   |   |         |  |   |           |          |  |        |    |   |   |          |   |   |         |  |   |  |        |       |        |   |   |   |          |   |    |         |  |   |          |         |  |        |    |   |   |          |   |   |         |  |   |          |          |  |        |    |   |   |          |   |   |         |  |
|   |  |  |                      |                          |                 |            |                   |                 |          |               |                    |                     |                  |                  |                      |                          |                 |            |                   |  |        |               |                    |                     |                  |   |  |        |        |        |   |   |   |          |   |    |         |  |   |         |         |  |        |    |   |   |          |   |   |         |  |   |         |          |  |        |    |   |   |          |   |   |         |  |   |  |        |       |        |   |   |   |          |   |    |         |  |   |           |         |  |        |    |   |   |          |   |   |         |  |   |           |          |  |        |    |   |   |          |   |   |         |  |   |  |        |       |        |   |   |   |          |   |    |         |  |   |          |         |  |        |    |   |   |          |   |   |         |  |   |          |          |  |        |    |   |   |          |   |   |         |  |
| <b>Dithers</b>  | <table border="1"> <thead> <tr> <th>#</th> <th>Dither Type</th> <th>Optimized For</th> <th>Direction</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>4-Point</td> <td>EXTENDED SOURCE</td> <td>NEGATIVE</td> </tr> </tbody> </table>   |  |                      |                          |                 |            |                   |                 |          |               |                    |                     | #                | Dither Type      | Optimized For        | Direction                | 1               | 4-Point    | EXTENDED SOURCE   | NEGATIVE   |        |               |                    |                     |                  |   |  |        |        |        |   |   |   |          |   |    |         |  |   |         |         |  |        |    |   |   |          |   |   |         |  |   |         |          |  |        |    |   |   |          |   |   |         |  |   |  |        |       |        |   |   |   |          |   |    |         |  |   |           |         |  |        |    |   |   |          |   |   |         |  |   |           |          |  |        |    |   |   |          |   |   |         |  |   |  |        |       |        |   |   |   |          |   |    |         |  |   |          |         |  |        |    |   |   |          |   |   |         |  |   |          |          |  |        |    |   |   |          |   |   |         |  |
|   | #  | Dither Type  | Optimized For        | Direction                |                 |            |                   |                 |          |               |                    |                     |                  |                  |                      |                          |                 |            |                   |  |        |               |                    |                     |                  |   |  |        |        |        |   |   |   |          |   |    |         |  |   |         |         |  |        |    |   |   |          |   |   |         |  |   |         |          |  |        |    |   |   |          |   |   |         |  |   |  |        |       |        |   |   |   |          |   |    |         |  |   |           |         |  |        |    |   |   |          |   |   |         |  |   |           |          |  |        |    |   |   |          |   |   |         |  |   |  |        |       |        |   |   |   |          |   |    |         |  |   |          |         |  |        |    |   |   |          |   |   |         |  |   |          |          |  |        |    |   |   |          |   |   |         |  |
| 1   | 4-Point  | EXTENDED SOURCE  | NEGATIVE             |                          |                 |            |                   |                 |          |               |                    |                     |                  |                  |                      |                          |                 |            |                   |  |        |               |                    |                     |                  |   |  |        |        |        |   |   |   |          |   |    |         |  |   |         |         |  |        |    |   |   |          |   |   |         |  |   |         |          |  |        |    |   |   |          |   |   |         |  |   |  |        |       |        |   |   |   |          |   |    |         |  |   |           |         |  |        |    |   |   |          |   |   |         |  |   |           |          |  |        |    |   |   |          |   |   |         |  |   |  |        |       |        |   |   |   |          |   |    |         |  |   |          |         |  |        |    |   |   |          |   |   |         |  |   |          |          |  |        |    |   |   |          |   |   |         |  |
|   |  |  |                      |                          |                 |            |                   |                 |          |               |                    |                     |                  |                  |                      |                          |                 |            |                   |  |        |               |                    |                     |                  |   |  |        |        |        |   |   |   |          |   |    |         |  |   |         |         |  |        |    |   |   |          |   |   |         |  |   |         |          |  |        |    |   |   |          |   |   |         |  |   |  |        |       |        |   |   |   |          |   |    |         |  |   |           |         |  |        |    |   |   |          |   |   |         |  |   |           |          |  |        |    |   |   |          |   |   |         |  |   |  |        |       |        |   |   |   |          |   |    |         |  |   |          |         |  |        |    |   |   |          |   |   |         |  |   |          |          |  |        |    |   |   |          |   |   |         |  |
| <b>Spectral Elements</b>  | <table border="1"> <thead> <tr> <th>#</th> <th>Wavelength Range</th> <th>Detector</th> <th>Filter</th> <th>Readout Pattern</th> <th>Groups/Int</th> <th>Integrations/E xp</th> <th>Exposures/Dit h</th> <th>Dither</th> <th>Total Dithers</th> <th>Total Integrations</th> <th>Total Exposure Time</th> <th>ETC Wkbk.Calc ID</th> </tr> </thead> <tbody> <tr> <td>1</td> <td></td> <td>IMAGER</td> <td>F1500W</td> <td>FASTR1</td> <td>7</td> <td>5</td> <td>1</td> <td>Dither 1</td> <td>4</td> <td>20</td> <td>432.906</td> <td></td> </tr> <tr> <td>1</td> <td>LONG(C)</td> <td>MRSLONG</td> <td></td> <td>FASTR1</td> <td>40</td> <td>1</td> <td>1</td> <td>Dither 1</td> <td>4</td> <td>4</td> <td>444.006</td> <td></td> </tr> <tr> <td>1</td> <td>LONG(C)</td> <td>MRSSHORT</td> <td></td> <td>FASTR1</td> <td>40</td> <td>1</td> <td>1</td> <td>Dither 1</td> <td>4</td> <td>4</td> <td>444.006</td> <td></td> </tr> <tr> <td>2</td> <td></td> <td>IMAGER</td> <td>F770W</td> <td>FASTR1</td> <td>7</td> <td>5</td> <td>1</td> <td>Dither 1</td> <td>4</td> <td>20</td> <td>432.906</td> <td></td> </tr> <tr> <td>2</td> <td>MEDIUM(B)</td> <td>MRSLONG</td> <td></td> <td>FASTR1</td> <td>40</td> <td>1</td> <td>1</td> <td>Dither 1</td> <td>4</td> <td>4</td> <td>444.006</td> <td></td> </tr> <tr> <td>2</td> <td>MEDIUM(B)</td> <td>MRSSHORT</td> <td></td> <td>FASTR1</td> <td>40</td> <td>1</td> <td>1</td> <td>Dither 1</td> <td>4</td> <td>4</td> <td>444.006</td> <td></td> </tr> <tr> <td>3</td> <td></td> <td>IMAGER</td> <td>F560W</td> <td>FASTR1</td> <td>7</td> <td>5</td> <td>1</td> <td>Dither 1</td> <td>4</td> <td>20</td> <td>432.906</td> <td></td> </tr> <tr> <td>3</td> <td>SHORT(A)</td> <td>MRSLONG</td> <td></td> <td>FASTR1</td> <td>40</td> <td>1</td> <td>1</td> <td>Dither 1</td> <td>4</td> <td>4</td> <td>444.006</td> <td></td> </tr> <tr> <td>3</td> <td>SHORT(A)</td> <td>MRSSHORT</td> <td></td> <td>FASTR1</td> <td>40</td> <td>1</td> <td>1</td> <td>Dither 1</td> <td>4</td> <td>4</td> <td>444.006</td> <td></td> </tr> </tbody> </table> |  |                      |                          |                 |            |                   |                 |          |               |                    |                     | #                | 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 | F1500W | FASTR1 | 7 | 5 | 1 | Dither 1 | 4 | 20 | 432.906 |  | 1 | LONG(C) | MRSLONG |  | FASTR1 | 40 | 1 | 1 | Dither 1 | 4 | 4 | 444.006 |  | 1 | LONG(C) | MRSSHORT |  | FASTR1 | 40 | 1 | 1 | Dither 1 | 4 | 4 | 444.006 |  | 2 |  | IMAGER | F770W | FASTR1 | 7 | 5 | 1 | Dither 1 | 4 | 20 | 432.906 |  | 2 | MEDIUM(B) | MRSLONG |  | FASTR1 | 40 | 1 | 1 | Dither 1 | 4 | 4 | 444.006 |  | 2 | MEDIUM(B) | MRSSHORT |  | FASTR1 | 40 | 1 | 1 | Dither 1 | 4 | 4 | 444.006 |  | 3 |  | IMAGER | F560W | FASTR1 | 7 | 5 | 1 | Dither 1 | 4 | 20 | 432.906 |  | 3 | SHORT(A) | MRSLONG |  | FASTR1 | 40 | 1 | 1 | Dither 1 | 4 | 4 | 444.006 |  | 3 | SHORT(A) | MRSSHORT |  | FASTR1 | 40 | 1 | 1 | Dither 1 | 4 | 4 | 444.006 |  |
|   | #  | 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               | F1500W                   | FASTR1          | 7          | 5                 | 1               | Dither 1 | 4             | 20                 | 432.906             |                  |                  |                      |                          |                 |            |                   |  |        |               |                    |                     |                  |   |  |        |        |        |   |   |   |          |   |    |         |  |   |         |         |  |        |    |   |   |          |   |   |         |  |   |         |          |  |        |    |   |   |          |   |   |         |  |   |  |        |       |        |   |   |   |          |   |    |         |  |   |           |         |  |        |    |   |   |          |   |   |         |  |   |           |          |  |        |    |   |   |          |   |   |         |  |   |  |        |       |        |   |   |   |          |   |    |         |  |   |          |         |  |        |    |   |   |          |   |   |         |  |   |          |          |  |        |    |   |   |          |   |   |         |  |
|   | 1  | LONG(C)  | MRSLONG              |                          | FASTR1          | 40         | 1                 | 1               | Dither 1 | 4             | 4                  | 444.006             |                  |                  |                      |                          |                 |            |                   |  |        |               |                    |                     |                  |   |  |        |        |        |   |   |   |          |   |    |         |  |   |         |         |  |        |    |   |   |          |   |   |         |  |   |         |          |  |        |    |   |   |          |   |   |         |  |   |  |        |       |        |   |   |   |          |   |    |         |  |   |           |         |  |        |    |   |   |          |   |   |         |  |   |           |          |  |        |    |   |   |          |   |   |         |  |   |  |        |       |        |   |   |   |          |   |    |         |  |   |          |         |  |        |    |   |   |          |   |   |         |  |   |          |          |  |        |    |   |   |          |   |   |         |  |
|   | 1  | LONG(C)  | MRSSHORT             |                          | FASTR1          | 40         | 1                 | 1               | Dither 1 | 4             | 4                  | 444.006             |                  |                  |                      |                          |                 |            |                   |  |        |               |                    |                     |                  |   |  |        |        |        |   |   |   |          |   |    |         |  |   |         |         |  |        |    |   |   |          |   |   |         |  |   |         |          |  |        |    |   |   |          |   |   |         |  |   |  |        |       |        |   |   |   |          |   |    |         |  |   |           |         |  |        |    |   |   |          |   |   |         |  |   |           |          |  |        |    |   |   |          |   |   |         |  |   |  |        |       |        |   |   |   |          |   |    |         |  |   |          |         |  |        |    |   |   |          |   |   |         |  |   |          |          |  |        |    |   |   |          |   |   |         |  |
|   | 2  |  | IMAGER               | F770W                    | FASTR1          | 7          | 5                 | 1               | Dither 1 | 4             | 20                 | 432.906             |                  |                  |                      |                          |                 |            |                   |  |        |               |                    |                     |                  |   |  |        |        |        |   |   |   |          |   |    |         |  |   |         |         |  |        |    |   |   |          |   |   |         |  |   |         |          |  |        |    |   |   |          |   |   |         |  |   |  |        |       |        |   |   |   |          |   |    |         |  |   |           |         |  |        |    |   |   |          |   |   |         |  |   |           |          |  |        |    |   |   |          |   |   |         |  |   |  |        |       |        |   |   |   |          |   |    |         |  |   |          |         |  |        |    |   |   |          |   |   |         |  |   |          |          |  |        |    |   |   |          |   |   |         |  |
|   | 2  | MEDIUM(B)  | MRSLONG              |                          | FASTR1          | 40         | 1                 | 1               | Dither 1 | 4             | 4                  | 444.006             |                  |                  |                      |                          |                 |            |                   |  |        |               |                    |                     |                  |   |  |        |        |        |   |   |   |          |   |    |         |  |   |         |         |  |        |    |   |   |          |   |   |         |  |   |         |          |  |        |    |   |   |          |   |   |         |  |   |  |        |       |        |   |   |   |          |   |    |         |  |   |           |         |  |        |    |   |   |          |   |   |         |  |   |           |          |  |        |    |   |   |          |   |   |         |  |   |  |        |       |        |   |   |   |          |   |    |         |  |   |          |         |  |        |    |   |   |          |   |   |         |  |   |          |          |  |        |    |   |   |          |   |   |         |  |
|   | 2  | MEDIUM(B)  | MRSSHORT             |                          | FASTR1          | 40         | 1                 | 1               | Dither 1 | 4             | 4                  | 444.006             |                  |                  |                      |                          |                 |            |                   |  |        |               |                    |                     |                  |   |  |        |        |        |   |   |   |          |   |    |         |  |   |         |         |  |        |    |   |   |          |   |   |         |  |   |         |          |  |        |    |   |   |          |   |   |         |  |   |  |        |       |        |   |   |   |          |   |    |         |  |   |           |         |  |        |    |   |   |          |   |   |         |  |   |           |          |  |        |    |   |   |          |   |   |         |  |   |  |        |       |        |   |   |   |          |   |    |         |  |   |          |         |  |        |    |   |   |          |   |   |         |  |   |          |          |  |        |    |   |   |          |   |   |         |  |
|   | 3  |  | IMAGER               | F560W                    | FASTR1          | 7          | 5                 | 1               | Dither 1 | 4             | 20                 | 432.906             |                  |                  |                      |                          |                 |            |                   |  |        |               |                    |                     |                  |   |  |        |        |        |   |   |   |          |   |    |         |  |   |         |         |  |        |    |   |   |          |   |   |         |  |   |         |          |  |        |    |   |   |          |   |   |         |  |   |  |        |       |        |   |   |   |          |   |    |         |  |   |           |         |  |        |    |   |   |          |   |   |         |  |   |           |          |  |        |    |   |   |          |   |   |         |  |   |  |        |       |        |   |   |   |          |   |    |         |  |   |          |         |  |        |    |   |   |          |   |   |         |  |   |          |          |  |        |    |   |   |          |   |   |         |  |
|   | 3  | SHORT(A)   | MRSLONG              |                          | FASTR1          | 40         | 1                 | 1               | Dither 1 | 4             | 4                  | 444.006             |                  |                  |                      |                          |                 |            |                   |  |        |               |                    |                     |                  |   |  |        |        |        |   |   |   |          |   |    |         |  |   |         |         |  |        |    |   |   |          |   |   |         |  |   |         |          |  |        |    |   |   |          |   |   |         |  |   |  |        |       |        |   |   |   |          |   |    |         |  |   |           |         |  |        |    |   |   |          |   |   |         |  |   |           |          |  |        |    |   |   |          |   |   |         |  |   |  |        |       |        |   |   |   |          |   |    |         |  |   |          |         |  |        |    |   |   |          |   |   |         |  |   |          |          |  |        |    |   |   |          |   |   |         |  |
| 3   | SHORT(A)   | MRSSHORT   |                      | FASTR1                   | 40              | 1          | 1                 | Dither 1        | 4        | 4             | 444.006            |                     |                  |                  |                      |                          |                 |            |                   |  |        |               |                    |                     |                  |   |  |        |        |        |   |   |   |          |   |    |         |  |   |         |         |  |        |    |   |   |          |   |   |         |  |   |         |          |  |        |    |   |   |          |   |   |         |  |   |  |        |       |        |   |   |   |          |   |    |         |  |   |           |         |  |        |    |   |   |          |   |   |         |  |   |           |          |  |        |    |   |   |          |   |   |         |  |   |  |        |       |        |   |   |   |          |   |    |         |  |   |          |         |  |        |    |   |   |          |   |   |         |  |   |          |          |  |        |    |   |   |          |   |   |         |  |

Proposal 1328 - Observation 9 - A JWST Study of the Starburst-AGN Connection in Merging LIRGs

Special Requirements

Sequence Observations 8, 9, 10, Non-interruptible

Proposal 1328 - Observation 10 - A JWST Study of the Starburst-AGN Connection in Merging LIRGs

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|                   |   |                  |  |        |                      |                          |                   |                 |               |               |                    |                     |                  |
|-------------------|---|------------------|--|--------|----------------------|--------------------------|-------------------|-----------------|---------------|---------------|--------------------|---------------------|------------------|
| Observation       | <b>Proposal 1328, Observation 10: NGC3256-MIRI-BK</b><br><b>Diagnostic Status: Warning</b><br>Observing Template: MIRI Medium Resolution Spectroscopy<br>Background Observation For: [NGC3256-MIRI-nuc1 (Obs 8), NGC3256-MIRI-nuc2 (Obs 9)] |                  |  |        |                      |                          |                   |                 |               |               |                    |                     |                  |
|                   | (NGC3256-MIRI-BK (Obs 10)) Warning (Form): Imager Filter overlap.<br>(Visit 10:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.   |                  |  |        |                      |                          |                   |                 |               |               |                    |                     |                  |
| Fixed Targets     | #   | Name             | Target Coordinates   |        |                      | Targ. Coord. Corrections |                   |                 | Miscellaneous |               |                    |                     |                  |
|                   | (4)   | NGC3256-BK       | RA: 10 27 52.0000 (156.9666667d)<br>Dec: -43 50 54.83 (-43.84856d)<br>Equinox: J2000<br><br><i>Comments:</i><br><i>Category=Galaxy</i><br><i>Description=[Ultraluminous infrared galaxies]</i> |        |                      |                          |                   |                 |               |               |                    |                     |                  |
| Acquisition       | #   | Target           |  |        |                      |                          |                   |                 |               |               |                    |                     |                  |
|                   | 1   | NONE             |  |        |                      |                          |                   |                 |               |               |                    |                     |                  |
| Template          | AcqFilter   | Primary Channel  |  |        | Simultaneous Imaging |                          |                   | Imager Subarray |               |               |                    |                     |                  |
|                   | F560W   | ALL              |  |        | YES                  |                          |                   | FULL            |               |               |                    |                     |                  |
| 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   | F1500W | FASTR1               | 7                        | 5                 | 1               | Dither 1      | 4             | 20                 | 432.906             |                  |
|                   | 1   | LONG(C)          | MRSLONG  |        | FASTR1               | 40                       | 1                 | 1               | Dither 1      | 4             | 4                  | 444.006             |                  |
|                   | 1   | LONG(C)          | MRSSHORT   |        | FASTR1               | 40                       | 1                 | 1               | Dither 1      | 4             | 4                  | 444.006             |                  |
|                   | 2   |                  | IMAGER   | F770W  | FASTR1               | 7                        | 5                 | 1               | Dither 1      | 4             | 20                 | 432.906             |                  |
|                   | 2   | MEDIUM(B)        | MRSLONG  |        | FASTR1               | 40                       | 1                 | 1               | Dither 1      | 4             | 4                  | 444.006             |                  |
|                   | 2   | MEDIUM(B)        | MRSSHORT   |        | FASTR1               | 40                       | 1                 | 1               | Dither 1      | 4             | 4                  | 444.006             |                  |
|                   | 3   |                  | IMAGER   | F560W  | FASTR1               | 7                        | 5                 | 1               | Dither 1      | 4             | 20                 | 432.906             |                  |
|                   | 3   | SHORT(A)         | MRSLONG  |        | FASTR1               | 40                       | 1                 | 1               | Dither 1      | 4             | 4                  | 444.006             |                  |
|                   | 3   | SHORT(A)         | MRSSHORT   |        | FASTR1               | 40                       | 1                 | 1               | Dither 1      | 4             | 4                  | 444.006             |                  |

Proposal 1328 - Observation 10 - A JWST Study of the Starburst-AGN Connection in Merging LIRGs

Special Requirements

Sequence Observations 8, 9, 10, Non-interruptible

Proposal 1328 - Observation 11 - A JWST Study of the Starburst-AGN Connection in Merging LIRGs

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|                          |  |                    |  |                         |                         |                                 |                       |                      |                           |                            |                         |
|--------------------------|--|--------------------|--|-------------------------|-------------------------|---------------------------------|-----------------------|----------------------|---------------------------|----------------------------|-------------------------|
| <b>Observation</b>       | <p><b>Proposal 1328, Observation 11: NGC3256-MIRI imaging- Subarray</b></p> <p><b>Diagnostic Status: Warning</b></p> <p>Observing Template: MIRI Imaging</p> |                    |  |                         |                         |                                 |                       |                      |                           |                            |                         |
| <b>Diagnostics</b>       | (Visit 11:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.   |                    |  |                         |                         |                                 |                       |                      |                           |                            |                         |
| <b>Fixed Targets</b>     | <b>#</b>   | <b>Name</b>        | <b>Target Coordinates</b>  |                         |                         | <b>Targ. Coord. Corrections</b> |                       |                      | <b>Miscellaneous</b>      |                            |                         |
|                          | (19)   | NGC3256-CENTERED   | RA: 10 27 51.2000 (156.9633333d)<br>Dec: -43 54 15.50 (-43.90431d)<br>Equinox: J2000 |                         |                         |                                 |                       |                      |                           |                            |                         |
|                          | <p><i>Comments:</i><br/> <i>Category=Galaxy</i><br/> <i>Description=[Infrared galaxies, Interacting galaxies]</i><br/> <i>Extended=YES</i></p>               |                    |  |                         |                         |                                 |                       |                      |                           |                            |                         |
| <b>Template</b>          | <p><b>Subarray</b></p> <p>SUB128</p>   |                    |  |                         |                         |                                 |                       |                      |                           |                            |                         |
| <b>Dithers</b>           | <b>#</b>   | <b>Dither Type</b> | <b>Starting Point</b>  | <b>Number of Points</b> | <b>Points</b>           | <b>Starting Set</b>             | <b>Number of Sets</b> | <b>Optimized For</b> | <b>Direction</b>          | <b>Pattern Size</b>        |                         |
|                          | 1  | CYCLING            | 1  | 3                       |                         |                                 |                       |                      |                           | DEFAULT                    |                         |
| <b>Spectral Elements</b> | <b>#</b>   | <b>Filter</b>      | <b>Readout Pattern</b>   | <b>Groups/Int</b>       | <b>Integrations/Exp</b> | <b>Exposures/Dith</b>           | <b>Dither</b>         | <b>Total Dithers</b> | <b>Total Integrations</b> | <b>Total Exposure Time</b> | <b>ETC Wkbk.Calc ID</b> |
|                          | 1  | F560W              | FASTR1   | 12                      | 10                      | 1                               | Dither 1              | 3                    | 30                        | 46.068                     |                         |
|                          | 2  | F770W              | FASTR1   | 10                      | 15                      | 1                               | Dither 1              | 3                    | 45                        | 58.568                     |                         |
|                          | 3  | F1500W             | FASTR1   | 10                      | 15                      | 1                               | Dither 1              | 3                    | 45                        | 58.568                     |                         |

Proposal 1328 - Observation 29 - A JWST Study of the Starburst-AGN Connection in Merging LIRGs

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|                          |  |                    |  |                         |                         |                                 |                       |                      |                           |                            |                         |
|--------------------------|--|--------------------|--|-------------------------|-------------------------|---------------------------------|-----------------------|----------------------|---------------------------|----------------------------|-------------------------|
| <b>Observation</b>       | <p><b>Proposal 1328, Observation 29: NGC3256-MIRI imaging- Full</b></p> <p><b>Diagnostic Status: Warning</b></p> <p>Observing Template: MIRI Imaging</p> |                    |  |                         |                         |                                 |                       |                      |                           |                            |                         |
| <b>Diagnostics</b>       | (Visit 29:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.   |                    |  |                         |                         |                                 |                       |                      |                           |                            |                         |
| <b>Fixed Targets</b>     | <b>#</b>   | <b>Name</b>        | <b>Target Coordinates</b>  |                         |                         | <b>Targ. Coord. Corrections</b> |                       |                      | <b>Miscellaneous</b>      |                            |                         |
|                          | (19)   | NGC3256-CENTERED   | RA: 10 27 51.2000 (156.9633333d)<br>Dec: -43 54 15.50 (-43.90431d)<br>Equinox: J2000 |                         |                         |                                 |                       |                      |                           |                            |                         |
|                          | <p><i>Comments:</i><br/> <i>Category=Galaxy</i><br/> <i>Description=[Infrared galaxies, Interacting galaxies]</i><br/> <i>Extended=YES</i></p>           |                    |  |                         |                         |                                 |                       |                      |                           |                            |                         |
| <b>Template</b>          | <p><b>Subarray</b></p> <p>FULL</p>   |                    |  |                         |                         |                                 |                       |                      |                           |                            |                         |
| <b>Dithers</b>           | <b>#</b>   | <b>Dither Type</b> | <b>Starting Point</b>  | <b>Number of Points</b> | <b>Points</b>           | <b>Starting Set</b>             | <b>Number of Sets</b> | <b>Optimized For</b> | <b>Direction</b>          | <b>Pattern Size</b>        |                         |
|                          | 1  | CYCLING            | 1  | 3                       |                         |                                 |                       |                      |                           | DEFAULT                    |                         |
| <b>Spectral Elements</b> | <b>#</b>   | <b>Filter</b>      | <b>Readout Pattern</b>   | <b>Groups/Int</b>       | <b>Integrations/Exp</b> | <b>Exposures/Dith</b>           | <b>Dither</b>         | <b>Total Dithers</b> | <b>Total Integrations</b> | <b>Total Exposure Time</b> | <b>ETC Wkbk.Calc ID</b> |
|                          | 1  | F560W              | FASTR1   | 7                       | 15                      | 1                               | Dither 1              | 3                    | 45                        | 990.689                    |                         |
|                          | 2  | F770W              | FASTR1   | 7                       | 5                       | 1                               | Dither 1              | 3                    | 15                        | 324.68                     |                         |
|                          | 3  | F1500W             | FASTR1   | 7                       | 5                       | 1                               | Dither 1              | 3                    | 15                        | 324.68                     |                         |



Proposal 1328 - Observation 12 - A JWST Study of the Starburst-AGN Connection in Merging LIRGs

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|                             |  |                            |  |                        |                                 |                         |                           |                           |                            |                         |
|-----------------------------|--|----------------------------|--|------------------------|---------------------------------|-------------------------|---------------------------|---------------------------|----------------------------|-------------------------|
| <b>Observation</b>          | <p><b>Proposal 1328, Observation 12: NGC3256-NIRCam Imaging</b></p> <p><b>Diagnostic Status: Warning</b></p> <p>Observing Template: NIRCam Imaging</p> |                            |  |                        |                                 |                         |                           |                           |                            |                         |
| <b>Diagnostics</b>          | (Visit 12:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.   |                            |  |                        |                                 |                         |                           |                           |                            |                         |
| <b>Fixed Targets</b>        | <b>#</b>   | <b>Name</b>                | <b>Target Coordinates</b>  |                        | <b>Targ. Coord. Corrections</b> |                         |                           | <b>Miscellaneous</b>      |                            |                         |
|                             | (19)   | NGC3256-CENTERED           | RA: 10 27 51.2000 (156.9633333d)<br>Dec: -43 54 15.50 (-43.90431d)<br>Equinox: J2000 |                        |                                 |                         |                           |                           |                            |                         |
|                             | <p><i>Comments:</i><br/> <i>Category=Galaxy</i><br/> <i>Description=[Infrared galaxies, Interacting galaxies]</i><br/> <i>Extended=YES</i></p>         |                            |  |                        |                                 |                         |                           |                           |                            |                         |
| <b>Template</b>             | <b>Module</b>  |                            |  |                        | <b>Subarray</b>                 |                         |                           |                           |                            |                         |
|                             | B  |                            |  |                        | FULL                            |                         |                           |                           |                            |                         |
| <b>Dithers</b>              | <b>#</b>   | <b>Primary Dither Type</b> |  | <b>Primary Dithers</b> | <b>Subpixel Dither Type</b>     |                         | <b>Dither Size</b>        | <b>Subpixel Positions</b> |                            |                         |
|                             | 1  | INTRAMODULE                |  | 3                      | STANDARD                        |                         |                           | 1                         |                            |                         |
| <b>Spectral Elements</b>    | <b>#</b>   | <b>Short Filter</b>        | <b>Long Filter</b>   | <b>Readout Pattern</b> | <b>Groups/Int</b>               | <b>Integrations/Exp</b> | <b>Total Integrations</b> | <b>Total Dithers</b>      | <b>Total Exposure Time</b> | <b>ETC Wkbk.Calc ID</b> |
|                             | 1  | F150W                      | F335M  | RAPID                  | 6                               | 3                       | 9                         | 3                         | 644.206                    |                         |
|                             | 2  | F200W                      | F444W  | RAPID                  | 6                               | 3                       | 9                         | 3                         | 644.206                    |                         |
| <b>Special Requirements</b> | Offset 17.0 arcsec, -7.0 arcsec  |                            |  |                        |                                 |                         |                           |                           |                            |                         |

Proposal 1328 - Observation 28 - A JWST Study of the Starburst-AGN Connection in Merging LIRGs

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|                          |   |                     |  |                 |                          |                      |                    |               |                     |                  |
|--------------------------|---|---------------------|--|-----------------|--------------------------|----------------------|--------------------|---------------|---------------------|------------------|
| <b>Observation</b>       | <p>Proposal 1328, Observation 28: NGC3256-NIRCam Imaging- Subarray</p> <p><b>Diagnostic Status: Warning</b></p> <p>Observing Template: NIRCam Imaging</p> |                     |  |                 |                          |                      |                    |               |                     |                  |
| <b>Diagnostics</b>       | (Visit 28:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.  |                     |  |                 |                          |                      |                    |               |                     |                  |
| <b>Fixed Targets</b>     | #   | Name                | Target Coordinates   |                 | Targ. Coord. Corrections |                      | Miscellaneous      |               |                     |                  |
|                          | (5)   | NGC3256-NUC1        | RA: 10 27 51.2400 (156.9635000d)<br>Dec: -43 54 14.00 (-43.90389d)<br>Equinox: J2000 |                 |                          |                      |                    |               |                     |                  |
|                          | <p><i>Comments:</i><br/> <i>Category=Galaxy</i><br/> <i>Description=[Infrared galaxies, Interacting galaxies]</i><br/> <i>Extended=YES</i></p>            |                     |  |                 |                          |                      |                    |               |                     |                  |
| <b>Template</b>          | Module  |                     |  |                 | Subarray                 |                      |                    |               |                     |                  |
|                          | B   |                     |  |                 | SUB160P                  |                      |                    |               |                     |                  |
| <b>Dithers</b>           | #   | Primary Dither Type |  | Primary Dithers |                          | Subpixel Dither Type |                    | Dither Size   | Subpixel Positions  |                  |
|                          | 1   | NONE                |  |                 |                          | STANDARD             |                    |               | 3                   |                  |
| <b>Spectral Elements</b> | #   | Short Filter        | Long Filter  | Readout Pattern | Groups/Int               | Integrations/Exp     | Total Integrations | Total Dithers | Total Exposure Time | ETC Wkbk.Calc ID |
|                          | 1   | F150W               | F335M  | RAPID           | 10                       | 5                    | 15                 | 3             | 46.052              |                  |
|                          | 2   | F200W               | F444W  | RAPID           | 10                       | 5                    | 15                 | 3             | 46.052              |                  |

Proposal 1328 - Observation 13 - A JWST Study of the Starburst-AGN Connection in Merging LIRGs

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|                          |  |                       |  |                   |                         |                                 |                         |                |                      |                           |                            |                        |
|--------------------------|--|-----------------------|--|-------------------|-------------------------|---------------------------------|-------------------------|----------------|----------------------|---------------------------|----------------------------|------------------------|
| <b>Observation</b>       | <p><b>Proposal 1328, Observation 13: NGC3256-NirSPEC - nuc1</b></p> <p><b>Diagnostic Status: Warning</b></p> <p>Observing Template: NIRSpec IFU Spectroscopy</p> |                       |  |                   |                         |                                 |                         |                |                      |                           |                            |                        |
| <b>Diagnostics</b>       | (Visit 13:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.   |                       |  |                   |                         |                                 |                         |                |                      |                           |                            |                        |
| <b>Fixed Targets</b>     | <b>#</b>   | <b>Name</b>           | <b>Target Coordinates</b>  |                   |                         | <b>Targ. Coord. Corrections</b> |                         |                | <b>Miscellaneous</b> |                           |                            |                        |
|                          | (5)  | NGC3256-NUC1          | RA: 10 27 51.2400 (156.9635000d)<br>Dec: -43 54 14.00 (-43.90389d)<br>Equinox: J2000 |                   |                         |                                 |                         |                |                      |                           |                            |                        |
|                          | <p><i>Comments:</i><br/> <i>Category=Galaxy</i><br/> <i>Description=[Infrared galaxies, Interacting galaxies]</i><br/> <i>Extended=YES</i></p>                   |                       |  |                   |                         |                                 |                         |                |                      |                           |                            |                        |
| <b>Template</b>          | <b>TA Method</b>   |                       |  |                   |                         |                                 |                         |                |                      |                           |                            |                        |
|                          | NONE   |                       |  |                   |                         |                                 |                         |                |                      |                           |                            |                        |
| <b>Dithers</b>           | <b>#</b>   | <b>Dither Type</b>    |  | <b>Size</b>       | <b>Starting Point</b>   |                                 | <b>Number of Points</b> |                | <b>Points</b>        |                           |                            |                        |
|                          | 1  | CYCLING               |  | SMALL             | 1                       |                                 | 4                       |                |                      |                           |                            |                        |
| <b>Spectral Elements</b> | <b>#</b>   | <b>Grating/Filter</b> | <b>Readout Pattern</b>   | <b>Groups/Int</b> | <b>Integrations/Exp</b> | <b>Leakcal</b>                  | <b>Dither</b>           | <b>Autocal</b> | <b>Total Dithers</b> | <b>Total Integrations</b> | <b>Total Exposure Time</b> | <b>ETC Wbk.Calc ID</b> |
|                          | 1  | G140H/F100LP          | NRSIRS2RAPI<br>D   | 7                 | 1                       | false                           | true                    | NONE           | 4                    | 4                         | 466.844                    |                        |
|                          | 2  | G140H/F100LP          | NRSIRS2RAPI<br>D   | 7                 | 1                       | true                            | true                    | NONE           | 4                    | 4                         | 466.844                    |                        |
|                          | 3  | G235H/F170LP          | NRSIRS2RAPI<br>D   | 7                 | 1                       | false                           | true                    | NONE           | 4                    | 4                         | 466.844                    |                        |
|                          | 4  | G235H/F170LP          | NRSIRS2RAPI<br>D   | 7                 | 1                       | true                            | true                    | NONE           | 4                    | 4                         | 466.844                    |                        |
|                          | 5  | G395H/F290LP          | NRSIRS2RAPI<br>D   | 7                 | 1                       | false                           | true                    | NONE           | 4                    | 4                         | 466.844                    |                        |
|                          | 6  | G395H/F290LP          | NRSIRS2RAPI<br>D   | 7                 | 1                       | true                            | true                    | NONE           | 4                    | 4                         | 466.844                    |                        |

Proposal 1328 - Observation 14 - A JWST Study of the Starburst-AGN Connection in Merging LIRGs

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|                          |  |                       |  |                   |                          |                                 |                         |                |                      |                           |                            |                        |
|--------------------------|--|-----------------------|--|-------------------|--------------------------|---------------------------------|-------------------------|----------------|----------------------|---------------------------|----------------------------|------------------------|
| <b>Observation</b>       | <p><b>Proposal 1328, Observation 14: NGC3256-NirSPEC - nuc2</b></p> <p><b>Diagnostic Status: Warning</b></p> <p>Observing Template: NIRSpec IFU Spectroscopy</p> |                       |  |                   |                          |                                 |                         |                |                      |                           |                            |                        |
| <b>Diagnostics</b>       | (Visit 14:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.   |                       |  |                   |                          |                                 |                         |                |                      |                           |                            |                        |
| <b>Fixed Targets</b>     | <b>#</b>   | <b>Name</b>           | <b>Target Coordinates</b>  |                   |                          | <b>Targ. Coord. Corrections</b> |                         |                | <b>Miscellaneous</b> |                           |                            |                        |
|                          | (6)  | NGC3256-NUC2          | RA: 10 27 51.2200 (156.9634167d)<br>Dec: -43 54 19.23 (-43.90534d)<br>Equinox: J2000 |                   |                          |                                 |                         |                |                      |                           |                            |                        |
|                          | <p><i>Comments:</i><br/> <i>Category=Galaxy</i><br/> <i>Description=[Infrared galaxies, Interacting galaxies]</i><br/> <i>Extended=YES</i></p>                   |                       |  |                   |                          |                                 |                         |                |                      |                           |                            |                        |
| <b>Template</b>          | <b>TA Method</b>   |                       |  |                   |                          |                                 |                         |                |                      |                           |                            |                        |
|                          | NONE   |                       |  |                   |                          |                                 |                         |                |                      |                           |                            |                        |
| <b>Dithers</b>           | <b>#</b>   | <b>Dither Type</b>    |  | <b>Size</b>       | <b>Starting Point</b>    |                                 | <b>Number of Points</b> |                | <b>Points</b>        |                           |                            |                        |
|                          | 1  | CYCLING               |  | SMALL             | 1                        |                                 | 4                       |                |                      |                           |                            |                        |
| <b>Spectral Elements</b> | <b>#</b>   | <b>Grating/Filter</b> | <b>Readout Pattern</b>   | <b>Groups/Int</b> | <b>Integrations/Ex p</b> | <b>Leakcal</b>                  | <b>Dither</b>           | <b>Autocal</b> | <b>Total Dithers</b> | <b>Total Integrations</b> | <b>Total Exposure Time</b> | <b>ETC Wbk.Calc ID</b> |
|                          | 1  | G140H/F100LP          | NRSIRS2RAPI D  | 18                | 1                        | false                           | true                    | NONE           | 4                    | 4                         | 1108.756                   |                        |
|                          | 2  | G140H/F100LP          | NRSIRS2RAPI D  | 18                | 1                        | true                            | true                    | NONE           | 4                    | 4                         | 1108.756                   |                        |
|                          | 3  | G235H/F170LP          | NRSIRS2RAPI D  | 18                | 1                        | false                           | true                    | NONE           | 4                    | 4                         | 1108.756                   |                        |
|                          | 4  | G235H/F170LP          | NRSIRS2RAPI D  | 18                | 1                        | true                            | true                    | NONE           | 4                    | 4                         | 1108.756                   |                        |
|                          | 5  | G395H/F290LP          | NRSIRS2RAPI D  | 18                | 1                        | false                           | true                    | NONE           | 4                    | 4                         | 1108.756                   |                        |
|                          | 6  | G395H/F290LP          | NRSIRS2RAPI D  | 18                | 1                        | true                            | true                    | NONE           | 4                    | 4                         | 1108.756                   |                        |

Proposal 1328 - Observation 33 - A JWST Study of the Starburst-AGN Connection in Merging LIRGs

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|                   |  |                  |   |        |                 |                      |                          |                 |                 |               |                    |                     |                  |
|-------------------|--|------------------|---|--------|-----------------|----------------------|--------------------------|-----------------|-----------------|---------------|--------------------|---------------------|------------------|
| Observation       | <b>Proposal 1328, Observation 33: IIZw96-MIRI</b><br><b>Diagnostic Status: Warning</b><br>Observing Template: MIRI Medium Resolution Spectroscopy<br>Background Observations:[IIZw96-BK MIRI (Obs 34)] |                  |   |        |                 |                      |                          |                 |                 |               |                    |                     |                  |
|                   | (IIZw96-MIRI (Obs 33)) Warning (Form): Imager Filter overlap.<br>(Visit 33:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.  |                  |   |        |                 |                      |                          |                 |                 |               |                    |                     |                  |
| Fixed Targets     | #  | Name             | Target Coordinates  |        |                 |                      | Targ. Coord. Corrections |                 |                 | Miscellaneous |                    |                     |                  |
|                   | (30)   | IIZW96-MRS       | RA: 20 57 24.4000 (314.3516667d)<br>Dec: +17 07 39.70 (17.12769d)<br>Equinox: J2000<br><br><i>Comments:</i><br><i>Category=Galaxy</i><br><i>Description=[Infrared galaxies, Interacting galaxies]</i> |        |                 |                      |                          |                 |                 |               |                    |                     |                  |
| Acquisition       | #  |                  |   |        |                 |                      |                          |                 |                 |               |                    | Target              |                  |
|                   | 1  |                  |   |        |                 |                      |                          |                 |                 |               |                    | NONE                |                  |
| Template          | AcqFilter  | Primary Channel  |   |        |                 | Simultaneous Imaging |                          |                 | Imager Subarray |               |                    |                     |                  |
|                   | F560W  | ALL              |   |        |                 | YES                  |                          |                 | FULL            |               |                    |                     |                  |
| 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  | F1500W | FASTR1          | 7                    | 10                       | 1               | Dither 1        | 4             | 40                 | 876.913             |                  |
|                   | 1  | LONG(C)          | MRSLONG   |        | FASTR1          | 80                   | 1                        | 1               | Dither 1        | 4             | 4                  | 888.013             |                  |
|                   | 1  | LONG(C)          | MRSSHORT  |        | FASTR1          | 80                   | 1                        | 1               | Dither 1        | 4             | 4                  | 888.013             |                  |
|                   | 2  |                  | IMAGER  | F770W  | FASTR1          | 7                    | 10                       | 1               | Dither 1        | 4             | 40                 | 876.913             |                  |
|                   | 2  | MEDIUM(B)        | MRSLONG   |        | FASTR1          | 80                   | 1                        | 1               | Dither 1        | 4             | 4                  | 888.013             |                  |
|                   | 2  | MEDIUM(B)        | MRSSHORT  |        | FASTR1          | 80                   | 1                        | 1               | Dither 1        | 4             | 4                  | 888.013             |                  |
|                   | 3  |                  | IMAGER  | F560W  | FASTR1          | 7                    | 10                       | 1               | Dither 1        | 4             | 40                 | 876.913             |                  |
|                   | 3  | SHORT(A)         | MRSLONG   |        | FASTR1          | 80                   | 1                        | 1               | Dither 1        | 4             | 4                  | 888.013             |                  |
|                   | 3  | SHORT(A)         | MRSSHORT  |        | FASTR1          | 80                   | 1                        | 1               | Dither 1        | 4             | 4                  | 888.013             |                  |

Proposal 1328 - Observation 33 - A JWST Study of the Starburst-AGN Connection in Merging LIRGs

Special Requirements

Sequence Observations 33, 34, Non-interruptible

Proposal 1328 - Observation 34 - A JWST Study of the Starburst-AGN Connection in Merging LIRGs

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| Observation   | <b>Proposal 1328, Observation 34: IIZw96-BK MIRI</b><br><b>Diagnostic Status: Warning</b><br>Observing Template: MIRI Medium Resolution Spectroscopy<br>Background Observation For: [IIZw96-MIRI (Obs 33)]  |   |                      |                          |                 |            |                   |                 |          |               |                    |                     |                  |                  |                      |                          |                 |            |                   |   |        |               |                    |                     |                  |   |  |        |        |        |   |    |   |          |   |    |         |  |   |         |         |  |        |    |   |   |          |   |   |         |  |   |         |          |  |        |    |   |   |          |   |   |         |  |   |  |        |       |        |   |    |   |          |   |    |         |  |   |           |         |  |        |    |   |   |          |   |   |         |  |   |           |          |  |        |    |   |   |          |   |   |         |  |   |  |        |       |        |   |    |   |          |   |    |         |  |   |          |         |  |        |    |   |   |          |   |   |         |  |   |          |          |  |        |    |   |   |          |   |   |         |  |
|---|---|---|----------------------|--------------------------|-----------------|------------|-------------------|-----------------|----------|---------------|--------------------|---------------------|------------------|------------------|----------------------|--------------------------|-----------------|------------|-------------------|---|--------|---------------|--------------------|---------------------|------------------|---|--|--------|--------|--------|---|----|---|----------|---|----|---------|--|---|---------|---------|--|--------|----|---|---|----------|---|---|---------|--|---|---------|----------|--|--------|----|---|---|----------|---|---|---------|--|---|--|--------|-------|--------|---|----|---|----------|---|----|---------|--|---|-----------|---------|--|--------|----|---|---|----------|---|---|---------|--|---|-----------|----------|--|--------|----|---|---|----------|---|---|---------|--|---|--|--------|-------|--------|---|----|---|----------|---|----|---------|--|---|----------|---------|--|--------|----|---|---|----------|---|---|---------|--|---|----------|----------|--|--------|----|---|---|----------|---|---|---------|--|
|   | (IIZw96-BK MIRI (Obs 34)) Warning (Form): Imager Filter overlap.<br>(Visit 34:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.  |   |                      |                          |                 |            |                   |                 |          |               |                    |                     |                  |                  |                      |                          |                 |            |                   |   |        |               |                    |                     |                  |   |  |        |        |        |   |    |   |          |   |    |         |  |   |         |         |  |        |    |   |   |          |   |   |         |  |   |         |          |  |        |    |   |   |          |   |   |         |  |   |  |        |       |        |   |    |   |          |   |    |         |  |   |           |         |  |        |    |   |   |          |   |   |         |  |   |           |          |  |        |    |   |   |          |   |   |         |  |   |  |        |       |        |   |    |   |          |   |    |         |  |   |          |         |  |        |    |   |   |          |   |   |         |  |   |          |          |  |        |    |   |   |          |   |   |         |  |
| Fixed Targets   | <table border="1"> <thead> <tr> <th>#</th> <th>Name</th> <th>Target Coordinates</th> <th>Targ. Coord. Corrections</th> <th>Miscellaneous</th> </tr> </thead> <tbody> <tr> <td>(31)</td> <td>IIZW96-BK</td> <td>RA: 20 57 20.7000 (314.3362500d)<br/>Dec: +17 08 24.00 (17.14000d)<br/>Equinox: J2000</td> <td></td> <td></td> </tr> </tbody> </table> Comments:<br>Category=Calibration<br>Description=[Telescope/sky background]   |   |                      |                          |                 |            |                   |                 |          |               |                    |                     | #                | Name             | Target Coordinates   | Targ. Coord. Corrections | Miscellaneous   | (31)       | IIZW96-BK         | RA: 20 57 20.7000 (314.3362500d)<br>Dec: +17 08 24.00 (17.14000d)<br>Equinox: J2000 |        |               |                    |                     |                  |   |  |        |        |        |   |    |   |          |   |    |         |  |   |         |         |  |        |    |   |   |          |   |   |         |  |   |         |          |  |        |    |   |   |          |   |   |         |  |   |  |        |       |        |   |    |   |          |   |    |         |  |   |           |         |  |        |    |   |   |          |   |   |         |  |   |           |          |  |        |    |   |   |          |   |   |         |  |   |  |        |       |        |   |    |   |          |   |    |         |  |   |          |         |  |        |    |   |   |          |   |   |         |  |   |          |          |  |        |    |   |   |          |   |   |         |  |
|   | #   | Name  | Target Coordinates   | Targ. Coord. Corrections | Miscellaneous   |            |                   |                 |          |               |                    |                     |                  |                  |                      |                          |                 |            |                   |   |        |               |                    |                     |                  |   |  |        |        |        |   |    |   |          |   |    |         |  |   |         |         |  |        |    |   |   |          |   |   |         |  |   |         |          |  |        |    |   |   |          |   |   |         |  |   |  |        |       |        |   |    |   |          |   |    |         |  |   |           |         |  |        |    |   |   |          |   |   |         |  |   |           |          |  |        |    |   |   |          |   |   |         |  |   |  |        |       |        |   |    |   |          |   |    |         |  |   |          |         |  |        |    |   |   |          |   |   |         |  |   |          |          |  |        |    |   |   |          |   |   |         |  |
| (31)  | IIZW96-BK   | RA: 20 57 20.7000 (314.3362500d)<br>Dec: +17 08 24.00 (17.14000d)<br>Equinox: J2000 |                      |                          |                 |            |                   |                 |          |               |                    |                     |                  |                  |                      |                          |                 |            |                   |   |        |               |                    |                     |                  |   |  |        |        |        |   |    |   |          |   |    |         |  |   |         |         |  |        |    |   |   |          |   |   |         |  |   |         |          |  |        |    |   |   |          |   |   |         |  |   |  |        |       |        |   |    |   |          |   |    |         |  |   |           |         |  |        |    |   |   |          |   |   |         |  |   |           |          |  |        |    |   |   |          |   |   |         |  |   |  |        |       |        |   |    |   |          |   |    |         |  |   |          |         |  |        |    |   |   |          |   |   |         |  |   |          |          |  |        |    |   |   |          |   |   |         |  |
| <table border="1"> <thead> <tr> <th>#</th> <th>Target</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>NONE</td> </tr> </tbody> </table> |   |   |                      |                          |                 |            |                   |                 |          |               |                    | #                   | Target           | 1                | NONE                 |                          |                 |            |                   |   |        |               |                    |                     |                  |   |  |        |        |        |   |    |   |          |   |    |         |  |   |         |         |  |        |    |   |   |          |   |   |         |  |   |         |          |  |        |    |   |   |          |   |   |         |  |   |  |        |       |        |   |    |   |          |   |    |         |  |   |           |         |  |        |    |   |   |          |   |   |         |  |   |           |          |  |        |    |   |   |          |   |   |         |  |   |  |        |       |        |   |    |   |          |   |    |         |  |   |          |         |  |        |    |   |   |          |   |   |         |  |   |          |          |  |        |    |   |   |          |   |   |         |  |
| #   | Target  |   |                      |                          |                 |            |                   |                 |          |               |                    |                     |                  |                  |                      |                          |                 |            |                   |   |        |               |                    |                     |                  |   |  |        |        |        |   |    |   |          |   |    |         |  |   |         |         |  |        |    |   |   |          |   |   |         |  |   |         |          |  |        |    |   |   |          |   |   |         |  |   |  |        |       |        |   |    |   |          |   |    |         |  |   |           |         |  |        |    |   |   |          |   |   |         |  |   |           |          |  |        |    |   |   |          |   |   |         |  |   |  |        |       |        |   |    |   |          |   |    |         |  |   |          |         |  |        |    |   |   |          |   |   |         |  |   |          |          |  |        |    |   |   |          |   |   |         |  |
| 1   | NONE  |   |                      |                          |                 |            |                   |                 |          |               |                    |                     |                  |                  |                      |                          |                 |            |                   |   |        |               |                    |                     |                  |   |  |        |        |        |   |    |   |          |   |    |         |  |   |         |         |  |        |    |   |   |          |   |   |         |  |   |         |          |  |        |    |   |   |          |   |   |         |  |   |  |        |       |        |   |    |   |          |   |    |         |  |   |           |         |  |        |    |   |   |          |   |   |         |  |   |           |          |  |        |    |   |   |          |   |   |         |  |   |  |        |       |        |   |    |   |          |   |    |         |  |   |          |         |  |        |    |   |   |          |   |   |         |  |   |          |          |  |        |    |   |   |          |   |   |         |  |
| Template  | <table border="1"> <thead> <tr> <th>AcqFilter</th> <th>Primary Channel</th> <th>Simultaneous Imaging</th> <th>Imager Subarray</th> </tr> </thead> <tbody> <tr> <td>F560W</td> <td>ALL</td> <td>YES</td> <td>FULL</td> </tr> </tbody> </table>   |   |                      |                          |                 |            |                   |                 |          |               |                    |                     | AcqFilter        | Primary Channel  | Simultaneous Imaging | Imager Subarray          | F560W           | ALL        | YES               | FULL  |        |               |                    |                     |                  |   |  |        |        |        |   |    |   |          |   |    |         |  |   |         |         |  |        |    |   |   |          |   |   |         |  |   |         |          |  |        |    |   |   |          |   |   |         |  |   |  |        |       |        |   |    |   |          |   |    |         |  |   |           |         |  |        |    |   |   |          |   |   |         |  |   |           |          |  |        |    |   |   |          |   |   |         |  |   |  |        |       |        |   |    |   |          |   |    |         |  |   |          |         |  |        |    |   |   |          |   |   |         |  |   |          |          |  |        |    |   |   |          |   |   |         |  |
|   | AcqFilter   | Primary Channel   | Simultaneous Imaging | Imager Subarray          |                 |            |                   |                 |          |               |                    |                     |                  |                  |                      |                          |                 |            |                   |   |        |               |                    |                     |                  |   |  |        |        |        |   |    |   |          |   |    |         |  |   |         |         |  |        |    |   |   |          |   |   |         |  |   |         |          |  |        |    |   |   |          |   |   |         |  |   |  |        |       |        |   |    |   |          |   |    |         |  |   |           |         |  |        |    |   |   |          |   |   |         |  |   |           |          |  |        |    |   |   |          |   |   |         |  |   |  |        |       |        |   |    |   |          |   |    |         |  |   |          |         |  |        |    |   |   |          |   |   |         |  |   |          |          |  |        |    |   |   |          |   |   |         |  |
| F560W   | ALL   | YES   | FULL                 |                          |                 |            |                   |                 |          |               |                    |                     |                  |                  |                      |                          |                 |            |                   |   |        |               |                    |                     |                  |   |  |        |        |        |   |    |   |          |   |    |         |  |   |         |         |  |        |    |   |   |          |   |   |         |  |   |         |          |  |        |    |   |   |          |   |   |         |  |   |  |        |       |        |   |    |   |          |   |    |         |  |   |           |         |  |        |    |   |   |          |   |   |         |  |   |           |          |  |        |    |   |   |          |   |   |         |  |   |  |        |       |        |   |    |   |          |   |    |         |  |   |          |         |  |        |    |   |   |          |   |   |         |  |   |          |          |  |        |    |   |   |          |   |   |         |  |
| Dithers   | <table border="1"> <thead> <tr> <th>#</th> <th>Dither Type</th> <th>Optimized For</th> <th>Direction</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>4-Point</td> <td>POINT SOURCE</td> <td>NEGATIVE</td> </tr> </tbody> </table>   |   |                      |                          |                 |            |                   |                 |          |               |                    |                     | #                | Dither Type      | Optimized For        | Direction                | 1               | 4-Point    | POINT SOURCE      | NEGATIVE  |        |               |                    |                     |                  |   |  |        |        |        |   |    |   |          |   |    |         |  |   |         |         |  |        |    |   |   |          |   |   |         |  |   |         |          |  |        |    |   |   |          |   |   |         |  |   |  |        |       |        |   |    |   |          |   |    |         |  |   |           |         |  |        |    |   |   |          |   |   |         |  |   |           |          |  |        |    |   |   |          |   |   |         |  |   |  |        |       |        |   |    |   |          |   |    |         |  |   |          |         |  |        |    |   |   |          |   |   |         |  |   |          |          |  |        |    |   |   |          |   |   |         |  |
|   | #   | Dither Type   | Optimized For        | Direction                |                 |            |                   |                 |          |               |                    |                     |                  |                  |                      |                          |                 |            |                   |   |        |               |                    |                     |                  |   |  |        |        |        |   |    |   |          |   |    |         |  |   |         |         |  |        |    |   |   |          |   |   |         |  |   |         |          |  |        |    |   |   |          |   |   |         |  |   |  |        |       |        |   |    |   |          |   |    |         |  |   |           |         |  |        |    |   |   |          |   |   |         |  |   |           |          |  |        |    |   |   |          |   |   |         |  |   |  |        |       |        |   |    |   |          |   |    |         |  |   |          |         |  |        |    |   |   |          |   |   |         |  |   |          |          |  |        |    |   |   |          |   |   |         |  |
| 1   | 4-Point   | POINT SOURCE  | NEGATIVE             |                          |                 |            |                   |                 |          |               |                    |                     |                  |                  |                      |                          |                 |            |                   |   |        |               |                    |                     |                  |   |  |        |        |        |   |    |   |          |   |    |         |  |   |         |         |  |        |    |   |   |          |   |   |         |  |   |         |          |  |        |    |   |   |          |   |   |         |  |   |  |        |       |        |   |    |   |          |   |    |         |  |   |           |         |  |        |    |   |   |          |   |   |         |  |   |           |          |  |        |    |   |   |          |   |   |         |  |   |  |        |       |        |   |    |   |          |   |    |         |  |   |          |         |  |        |    |   |   |          |   |   |         |  |   |          |          |  |        |    |   |   |          |   |   |         |  |
| Spectral Elements   | <table border="1"> <thead> <tr> <th>#</th> <th>Wavelength Range</th> <th>Detector</th> <th>Filter</th> <th>Readout Pattern</th> <th>Groups/Int</th> <th>Integrations/E xp</th> <th>Exposures/Dit h</th> <th>Dither</th> <th>Total Dithers</th> <th>Total Integrations</th> <th>Total Exposure Time</th> <th>ETC Wkbk.Calc ID</th> </tr> </thead> <tbody> <tr> <td>1</td> <td></td> <td>IMAGER</td> <td>F1500W</td> <td>FASTR1</td> <td>7</td> <td>10</td> <td>1</td> <td>Dither 1</td> <td>4</td> <td>40</td> <td>876.913</td> <td></td> </tr> <tr> <td>1</td> <td>LONG(C)</td> <td>MRSLONG</td> <td></td> <td>FASTR1</td> <td>80</td> <td>1</td> <td>1</td> <td>Dither 1</td> <td>4</td> <td>4</td> <td>888.013</td> <td></td> </tr> <tr> <td>1</td> <td>LONG(C)</td> <td>MRSSHORT</td> <td></td> <td>FASTR1</td> <td>80</td> <td>1</td> <td>1</td> <td>Dither 1</td> <td>4</td> <td>4</td> <td>888.013</td> <td></td> </tr> <tr> <td>2</td> <td></td> <td>IMAGER</td> <td>F770W</td> <td>FASTR1</td> <td>7</td> <td>10</td> <td>1</td> <td>Dither 1</td> <td>4</td> <td>40</td> <td>876.913</td> <td></td> </tr> <tr> <td>2</td> <td>MEDIUM(B)</td> <td>MRSLONG</td> <td></td> <td>FASTR1</td> <td>80</td> <td>1</td> <td>1</td> <td>Dither 1</td> <td>4</td> <td>4</td> <td>888.013</td> <td></td> </tr> <tr> <td>2</td> <td>MEDIUM(B)</td> <td>MRSSHORT</td> <td></td> <td>FASTR1</td> <td>80</td> <td>1</td> <td>1</td> <td>Dither 1</td> <td>4</td> <td>4</td> <td>888.013</td> <td></td> </tr> <tr> <td>3</td> <td></td> <td>IMAGER</td> <td>F560W</td> <td>FASTR1</td> <td>7</td> <td>10</td> <td>1</td> <td>Dither 1</td> <td>4</td> <td>40</td> <td>876.913</td> <td></td> </tr> <tr> <td>3</td> <td>SHORT(A)</td> <td>MRSLONG</td> <td></td> <td>FASTR1</td> <td>80</td> <td>1</td> <td>1</td> <td>Dither 1</td> <td>4</td> <td>4</td> <td>888.013</td> <td></td> </tr> <tr> <td>3</td> <td>SHORT(A)</td> <td>MRSSHORT</td> <td></td> <td>FASTR1</td> <td>80</td> <td>1</td> <td>1</td> <td>Dither 1</td> <td>4</td> <td>4</td> <td>888.013</td> <td></td> </tr> </tbody> </table> |   |                      |                          |                 |            |                   |                 |          |               |                    |                     | #                | 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 | F1500W | FASTR1 | 7 | 10 | 1 | Dither 1 | 4 | 40 | 876.913 |  | 1 | LONG(C) | MRSLONG |  | FASTR1 | 80 | 1 | 1 | Dither 1 | 4 | 4 | 888.013 |  | 1 | LONG(C) | MRSSHORT |  | FASTR1 | 80 | 1 | 1 | Dither 1 | 4 | 4 | 888.013 |  | 2 |  | IMAGER | F770W | FASTR1 | 7 | 10 | 1 | Dither 1 | 4 | 40 | 876.913 |  | 2 | MEDIUM(B) | MRSLONG |  | FASTR1 | 80 | 1 | 1 | Dither 1 | 4 | 4 | 888.013 |  | 2 | MEDIUM(B) | MRSSHORT |  | FASTR1 | 80 | 1 | 1 | Dither 1 | 4 | 4 | 888.013 |  | 3 |  | IMAGER | F560W | FASTR1 | 7 | 10 | 1 | Dither 1 | 4 | 40 | 876.913 |  | 3 | SHORT(A) | MRSLONG |  | FASTR1 | 80 | 1 | 1 | Dither 1 | 4 | 4 | 888.013 |  | 3 | SHORT(A) | MRSSHORT |  | FASTR1 | 80 | 1 | 1 | Dither 1 | 4 | 4 | 888.013 |  |
|   | #   | 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               | F1500W                   | FASTR1          | 7          | 10                | 1               | Dither 1 | 4             | 40                 | 876.913             |                  |                  |                      |                          |                 |            |                   |   |        |               |                    |                     |                  |   |  |        |        |        |   |    |   |          |   |    |         |  |   |         |         |  |        |    |   |   |          |   |   |         |  |   |         |          |  |        |    |   |   |          |   |   |         |  |   |  |        |       |        |   |    |   |          |   |    |         |  |   |           |         |  |        |    |   |   |          |   |   |         |  |   |           |          |  |        |    |   |   |          |   |   |         |  |   |  |        |       |        |   |    |   |          |   |    |         |  |   |          |         |  |        |    |   |   |          |   |   |         |  |   |          |          |  |        |    |   |   |          |   |   |         |  |
|   | 1   | LONG(C)   | MRSLONG              |                          | FASTR1          | 80         | 1                 | 1               | Dither 1 | 4             | 4                  | 888.013             |                  |                  |                      |                          |                 |            |                   |   |        |               |                    |                     |                  |   |  |        |        |        |   |    |   |          |   |    |         |  |   |         |         |  |        |    |   |   |          |   |   |         |  |   |         |          |  |        |    |   |   |          |   |   |         |  |   |  |        |       |        |   |    |   |          |   |    |         |  |   |           |         |  |        |    |   |   |          |   |   |         |  |   |           |          |  |        |    |   |   |          |   |   |         |  |   |  |        |       |        |   |    |   |          |   |    |         |  |   |          |         |  |        |    |   |   |          |   |   |         |  |   |          |          |  |        |    |   |   |          |   |   |         |  |
|   | 1   | LONG(C)   | MRSSHORT             |                          | FASTR1          | 80         | 1                 | 1               | Dither 1 | 4             | 4                  | 888.013             |                  |                  |                      |                          |                 |            |                   |   |        |               |                    |                     |                  |   |  |        |        |        |   |    |   |          |   |    |         |  |   |         |         |  |        |    |   |   |          |   |   |         |  |   |         |          |  |        |    |   |   |          |   |   |         |  |   |  |        |       |        |   |    |   |          |   |    |         |  |   |           |         |  |        |    |   |   |          |   |   |         |  |   |           |          |  |        |    |   |   |          |   |   |         |  |   |  |        |       |        |   |    |   |          |   |    |         |  |   |          |         |  |        |    |   |   |          |   |   |         |  |   |          |          |  |        |    |   |   |          |   |   |         |  |
|   | 2   |   | IMAGER               | F770W                    | FASTR1          | 7          | 10                | 1               | Dither 1 | 4             | 40                 | 876.913             |                  |                  |                      |                          |                 |            |                   |   |        |               |                    |                     |                  |   |  |        |        |        |   |    |   |          |   |    |         |  |   |         |         |  |        |    |   |   |          |   |   |         |  |   |         |          |  |        |    |   |   |          |   |   |         |  |   |  |        |       |        |   |    |   |          |   |    |         |  |   |           |         |  |        |    |   |   |          |   |   |         |  |   |           |          |  |        |    |   |   |          |   |   |         |  |   |  |        |       |        |   |    |   |          |   |    |         |  |   |          |         |  |        |    |   |   |          |   |   |         |  |   |          |          |  |        |    |   |   |          |   |   |         |  |
|   | 2   | MEDIUM(B)   | MRSLONG              |                          | FASTR1          | 80         | 1                 | 1               | Dither 1 | 4             | 4                  | 888.013             |                  |                  |                      |                          |                 |            |                   |   |        |               |                    |                     |                  |   |  |        |        |        |   |    |   |          |   |    |         |  |   |         |         |  |        |    |   |   |          |   |   |         |  |   |         |          |  |        |    |   |   |          |   |   |         |  |   |  |        |       |        |   |    |   |          |   |    |         |  |   |           |         |  |        |    |   |   |          |   |   |         |  |   |           |          |  |        |    |   |   |          |   |   |         |  |   |  |        |       |        |   |    |   |          |   |    |         |  |   |          |         |  |        |    |   |   |          |   |   |         |  |   |          |          |  |        |    |   |   |          |   |   |         |  |
|   | 2   | MEDIUM(B)   | MRSSHORT             |                          | FASTR1          | 80         | 1                 | 1               | Dither 1 | 4             | 4                  | 888.013             |                  |                  |                      |                          |                 |            |                   |   |        |               |                    |                     |                  |   |  |        |        |        |   |    |   |          |   |    |         |  |   |         |         |  |        |    |   |   |          |   |   |         |  |   |         |          |  |        |    |   |   |          |   |   |         |  |   |  |        |       |        |   |    |   |          |   |    |         |  |   |           |         |  |        |    |   |   |          |   |   |         |  |   |           |          |  |        |    |   |   |          |   |   |         |  |   |  |        |       |        |   |    |   |          |   |    |         |  |   |          |         |  |        |    |   |   |          |   |   |         |  |   |          |          |  |        |    |   |   |          |   |   |         |  |
|   | 3   |   | IMAGER               | F560W                    | FASTR1          | 7          | 10                | 1               | Dither 1 | 4             | 40                 | 876.913             |                  |                  |                      |                          |                 |            |                   |   |        |               |                    |                     |                  |   |  |        |        |        |   |    |   |          |   |    |         |  |   |         |         |  |        |    |   |   |          |   |   |         |  |   |         |          |  |        |    |   |   |          |   |   |         |  |   |  |        |       |        |   |    |   |          |   |    |         |  |   |           |         |  |        |    |   |   |          |   |   |         |  |   |           |          |  |        |    |   |   |          |   |   |         |  |   |  |        |       |        |   |    |   |          |   |    |         |  |   |          |         |  |        |    |   |   |          |   |   |         |  |   |          |          |  |        |    |   |   |          |   |   |         |  |
|   | 3   | SHORT(A)  | MRSLONG              |                          | FASTR1          | 80         | 1                 | 1               | Dither 1 | 4             | 4                  | 888.013             |                  |                  |                      |                          |                 |            |                   |   |        |               |                    |                     |                  |   |  |        |        |        |   |    |   |          |   |    |         |  |   |         |         |  |        |    |   |   |          |   |   |         |  |   |         |          |  |        |    |   |   |          |   |   |         |  |   |  |        |       |        |   |    |   |          |   |    |         |  |   |           |         |  |        |    |   |   |          |   |   |         |  |   |           |          |  |        |    |   |   |          |   |   |         |  |   |  |        |       |        |   |    |   |          |   |    |         |  |   |          |         |  |        |    |   |   |          |   |   |         |  |   |          |          |  |        |    |   |   |          |   |   |         |  |
| 3   | SHORT(A)  | MRSSHORT  |                      | FASTR1                   | 80              | 1          | 1                 | Dither 1        | 4        | 4             | 888.013            |                     |                  |                  |                      |                          |                 |            |                   |   |        |               |                    |                     |                  |   |  |        |        |        |   |    |   |          |   |    |         |  |   |         |         |  |        |    |   |   |          |   |   |         |  |   |         |          |  |        |    |   |   |          |   |   |         |  |   |  |        |       |        |   |    |   |          |   |    |         |  |   |           |         |  |        |    |   |   |          |   |   |         |  |   |           |          |  |        |    |   |   |          |   |   |         |  |   |  |        |       |        |   |    |   |          |   |    |         |  |   |          |         |  |        |    |   |   |          |   |   |         |  |   |          |          |  |        |    |   |   |          |   |   |         |  |

Proposal 1328 - Observation 34 - A JWST Study of the Starburst-AGN Connection in Merging LIRGs

Special Requirements

Sequence Observations 33, 34, Non-interruptible



Proposal 1328 - Observation 35 - A JWST Study of the Starburst-AGN Connection in Merging LIRGs

Wed Nov 23 17:00:38 GMT 2022

|                          |  |                    |   |                         |                         |                                 |                       |                      |                           |                            |                         |
|--------------------------|--|--------------------|---|-------------------------|-------------------------|---------------------------------|-----------------------|----------------------|---------------------------|----------------------------|-------------------------|
| <b>Observation</b>       | <p>Proposal 1328, Observation 35: IIZw96-MIRI imaging</p> <p><b>Diagnostic Status: Warning</b></p> <p>Observing Template: MIRI Imaging</p> |                    |   |                         |                         |                                 |                       |                      |                           |                            |                         |
| <b>Diagnostics</b>       | (Visit 35:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.   |                    |   |                         |                         |                                 |                       |                      |                           |                            |                         |
| <b>Fixed Targets</b>     | <b>#</b>   | <b>Name</b>        | <b>Target Coordinates</b>   |                         |                         | <b>Targ. Coord. Corrections</b> |                       |                      | <b>Miscellaneous</b>      |                            |                         |
|                          | (29)   | IIZW96             | RA: 20 57 24.4000 (314.3516667d)<br>Dec: +17 07 39.70 (17.12769d)<br>Equinox: J2000 |                         |                         |                                 |                       |                      |                           |                            |                         |
|                          | <p><i>Comments:</i><br/> <i>Category=Galaxy</i><br/> <i>Description=[Infrared galaxies, Interacting galaxies]</i></p>                      |                    |   |                         |                         |                                 |                       |                      |                           |                            |                         |
| <b>Template</b>          | <p><b>Subarray</b><br/>FULL</p>  |                    |   |                         |                         |                                 |                       |                      |                           |                            |                         |
| <b>Dithers</b>           | <b>#</b>   | <b>Dither Type</b> | <b>Starting Point</b>   | <b>Number of Points</b> | <b>Points</b>           | <b>Starting Set</b>             | <b>Number of Sets</b> | <b>Optimized For</b> | <b>Direction</b>          | <b>Pattern Size</b>        |                         |
|                          | 1  | CYCLING            | 1   | 3                       |                         |                                 |                       |                      |                           | DEFAULT                    |                         |
| <b>Spectral Elements</b> | <b>#</b>   | <b>Filter</b>      | <b>Readout Pattern</b>  | <b>Groups/Int</b>       | <b>Integrations/Exp</b> | <b>Exposures/Dith</b>           | <b>Dither</b>         | <b>Total Dithers</b> | <b>Total Integrations</b> | <b>Total Exposure Time</b> | <b>ETC Wkbk.Calc ID</b> |
|                          | 1  | F560W              | FASTR1  | 7                       | 15                      | 1                               | Dither 1              | 3                    | 45                        | 990.689                    |                         |
|                          | 2  | F770W              | FASTR1  | 8                       | 6                       | 1                               | Dither 1              | 3                    | 18                        | 441.231                    |                         |
|                          | 3  | F1500W             | FASTR1  | 8                       | 6                       | 1                               | Dither 1              | 3                    | 18                        | 441.231                    |                         |

Proposal 1328 - Observation 31 - A JWST Study of the Starburst-AGN Connection in Merging LIRGs

Wed Nov 23 17:00:38 GMT 2022

|                          |   |                    |   |                         |                         |                                 |                       |                      |                           |                            |                         |
|--------------------------|---|--------------------|---|-------------------------|-------------------------|---------------------------------|-----------------------|----------------------|---------------------------|----------------------------|-------------------------|
| <b>Observation</b>       | <p>Proposal 1328, Observation 31: IIZw96-MIRI imaging - Subarray</p> <p><b>Diagnostic Status: Warning</b></p> <p>Observing Template: MIRI Imaging</p> |                    |   |                         |                         |                                 |                       |                      |                           |                            |                         |
| <b>Diagnostics</b>       | (Visit 31:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.  |                    |   |                         |                         |                                 |                       |                      |                           |                            |                         |
| <b>Fixed Targets</b>     | <b>#</b>  | <b>Name</b>        | <b>Target Coordinates</b>   |                         |                         | <b>Targ. Coord. Corrections</b> |                       |                      | <b>Miscellaneous</b>      |                            |                         |
|                          | (29)  | IIZW96             | RA: 20 57 24.4000 (314.3516667d)<br>Dec: +17 07 39.70 (17.12769d)<br>Equinox: J2000 |                         |                         |                                 |                       |                      |                           |                            |                         |
|                          | <p><i>Comments:</i><br/> <i>Category=Galaxy</i><br/> <i>Description=[Infrared galaxies, Interacting galaxies]</i></p>                                 |                    |   |                         |                         |                                 |                       |                      |                           |                            |                         |
| <b>Template</b>          | <p><b>Subarray</b><br/>SUB128</p>   |                    |   |                         |                         |                                 |                       |                      |                           |                            |                         |
| <b>Dithers</b>           | <b>#</b>  | <b>Dither Type</b> | <b>Starting Point</b>   | <b>Number of Points</b> | <b>Points</b>           | <b>Starting Set</b>             | <b>Number of Sets</b> | <b>Optimized For</b> | <b>Direction</b>          | <b>Pattern Size</b>        |                         |
|                          | 1   | CYCLING            | 1   | 3                       |                         |                                 |                       |                      |                           | DEFAULT                    |                         |
| <b>Spectral Elements</b> | <b>#</b>  | <b>Filter</b>      | <b>Readout Pattern</b>  | <b>Groups/Int</b>       | <b>Integrations/Exp</b> | <b>Exposures/Dith</b>           | <b>Dither</b>         | <b>Total Dithers</b> | <b>Total Integrations</b> | <b>Total Exposure Time</b> | <b>ETC Wkbk.Calc ID</b> |
|                          | 1   | F560W              | FASTR1  | 12                      | 10                      | 1                               | Dither 1              | 3                    | 30                        | 46.068                     | 25236                   |
|                          | 2   | F770W              | FASTR1  | 8                       | 15                      | 1                               | Dither 1              | 3                    | 45                        | 47.854                     |                         |
|                          | 3   | F1500W             | FASTR1  | 8                       | 15                      | 1                               | Dither 1              | 3                    | 45                        | 47.854                     |                         |

Proposal 1328 - Observation 36 - A JWST Study of the Starburst-AGN Connection in Merging LIRGs

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|                          |  |                       |   |                   |                         |                                 |               |                         |                      |                           |                            |                         |
|--------------------------|--|-----------------------|---|-------------------|-------------------------|---------------------------------|---------------|-------------------------|----------------------|---------------------------|----------------------------|-------------------------|
| <b>Observation</b>       | <p><b>Proposal 1328, Observation 36: IIZw96-NIRSpec</b></p> <p><b>Diagnostic Status: Warning</b></p> <p>Observing Template: NIRSpec IFU Spectroscopy</p> |                       |   |                   |                         |                                 |               |                         |                      |                           |                            |                         |
| <b>Diagnostics</b>       | (Visit 36:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.   |                       |   |                   |                         |                                 |               |                         |                      |                           |                            |                         |
| <b>Fixed Targets</b>     | <b>#</b>   | <b>Name</b>           | <b>Target Coordinates</b>   |                   |                         | <b>Targ. Coord. Corrections</b> |               |                         | <b>Miscellaneous</b> |                           |                            |                         |
|                          | (29)   | IIZW96                | RA: 20 57 24.4000 (314.3516667d)<br>Dec: +17 07 39.70 (17.12769d)<br>Equinox: J2000 |                   |                         |                                 |               |                         |                      |                           |                            |                         |
|                          | <p><i>Comments:</i><br/> <i>Category=Galaxy</i><br/> <i>Description=[Infrared galaxies, Interacting galaxies]</i></p>                                    |                       |   |                   |                         |                                 |               |                         |                      |                           |                            |                         |
| <b>Template</b>          | <b>TA Method</b>   |                       |   |                   |                         |                                 |               |                         |                      |                           |                            |                         |
|                          | NONE   |                       |   |                   |                         |                                 |               |                         |                      |                           |                            |                         |
| <b>Dithers</b>           | <b>#</b>   | <b>Dither Type</b>    |   | <b>Size</b>       | <b>Starting Point</b>   |                                 |               | <b>Number of Points</b> | <b>Points</b>        |                           |                            |                         |
|                          | 1  | CYCLING               |   | SMALL             | 1                       |                                 |               | 4                       |                      |                           |                            |                         |
| <b>Spectral Elements</b> | <b>#</b>   | <b>Grating/Filter</b> | <b>Readout Pattern</b>  | <b>Groups/Int</b> | <b>Integrations/Exp</b> | <b>Leakcal</b>                  | <b>Dither</b> | <b>Autocal</b>          | <b>Total Dithers</b> | <b>Total Integrations</b> | <b>Total Exposure Time</b> | <b>ETC Wkbk.Calc ID</b> |
|                          | 1  | G140H/F100LP          | NRSIRS2RAPI<br>D  | 25                | 1                       | false                           | true          | NONE                    | 4                    | 4                         | 1517.245                   |                         |
|                          | 2  | G140H/F100LP          | NRSIRS2RAPI<br>D  | 25                | 1                       | true                            | false         | NONE                    | 1                    | 1                         | 379.311                    |                         |
|                          | 3  | G235H/F170LP          | NRSIRS2RAPI<br>D  | 25                | 1                       | false                           | true          | NONE                    | 4                    | 4                         | 1517.245                   |                         |
|                          | 4  | G235H/F170LP          | NRSIRS2RAPI<br>D  | 25                | 1                       | true                            | false         | NONE                    | 1                    | 1                         | 379.311                    |                         |
|                          | 5  | G395H/F290LP          | NRSIRS2RAPI<br>D  | 25                | 1                       | false                           | true          | NONE                    | 4                    | 4                         | 1517.245                   |                         |
|                          | 6  | G395H/F290LP          | NRSIRS2RAPI<br>D  | 25                | 1                       | true                            | false         | NONE                    | 1                    | 1                         | 379.311                    |                         |

Proposal 1328 - Observation 37 - A JWST Study of the Starburst-AGN Connection in Merging LIRGs

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|                             |   |                            |   |                        |                                 |                         |                           |                           |                            |                         |
|-----------------------------|---|----------------------------|---|------------------------|---------------------------------|-------------------------|---------------------------|---------------------------|----------------------------|-------------------------|
| <b>Observation</b>          | <p>Proposal 1328, Observation 37: IIZw96-NIRCam Imaging</p> <p>Diagnostic Status: Warning</p> <p>Observing Template: NIRCam Imaging</p>   |                            |   |                        |                                 |                         |                           |                           |                            |                         |
| <b>Diagnostics</b>          | (Visit 37:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.  |                            |   |                        |                                 |                         |                           |                           |                            |                         |
| <b>Fixed Targets</b>        | <b>#</b>  | <b>Name</b>                | <b>Target Coordinates</b>   |                        | <b>Targ. Coord. Corrections</b> |                         |                           | <b>Miscellaneous</b>      |                            |                         |
|                             | (29)  | IIZW96                     | RA: 20 57 24.4000 (314.3516667d)<br>Dec: +17 07 39.70 (17.12769d)<br>Equinox: J2000 |                        |                                 |                         |                           |                           |                            |                         |
|                             | <p>Comments:<br/>Category=Galaxy<br/>Description=[Infrared galaxies, Interacting galaxies]</p>  |                            |   |                        |                                 |                         |                           |                           |                            |                         |
| <b>Template</b>             | <b>Module</b>   |                            |   |                        | <b>Subarray</b>                 |                         |                           |                           |                            |                         |
|                             | B   |                            |   |                        | FULL                            |                         |                           |                           |                            |                         |
| <b>Dithers</b>              | <b>#</b>  | <b>Primary Dither Type</b> |   | <b>Primary Dithers</b> | <b>Subpixel Dither Type</b>     |                         | <b>Dither Size</b>        | <b>Subpixel Positions</b> |                            |                         |
|                             | 1   | INTRAMODULE                |   | 3                      | STANDARD                        |                         |                           | 3                         |                            |                         |
| <b>Spectral Elements</b>    | <b>#</b>  | <b>Short Filter</b>        | <b>Long Filter</b>  | <b>Readout Pattern</b> | <b>Groups/Int</b>               | <b>Integrations/Exp</b> | <b>Total Integrations</b> | <b>Total Dithers</b>      | <b>Total Exposure Time</b> | <b>ETC Wkbk.Calc ID</b> |
|                             | 1   | F150W                      | F356W   | RAPID                  | 6                               | 1                       | 9                         | 9                         | 579.786                    |                         |
|                             | 2   | F200W                      | F444W   | RAPID                  | 6                               | 1                       | 9                         | 9                         | 579.786                    |                         |
| <b>Special Requirements</b> | <p>Aperture PA Range 65 to 175 Degrees (V3 64.94416471 to 174.94416471)</p> <p>Aperture PA Range 195 to 209 Degrees (V3 194.94416471 to 208.94416471)</p> <p>Aperture PA Range 241 to 33 Degrees (V3 240.94416471 to 32.94416471)</p> <p>Offset 18.0 arcsec, -15.0 arcsec</p> |                            |   |                        |                                 |                         |                           |                           |                            |                         |