



# 1762 - Halfway to the peak: A bridge program to map coeval star formation and supermassive black hole growth

Cycle: 1, Proposal Category: GO

## INVESTIGATORS

<i>Name</i>	<i>Institution</i>	<i>E-Mail</i>
<b>Dr. Alexandra Pope (PI)</b>	<b>University of Massachusetts - Amherst</b>	<b>pope@astro.umass.edu</b>
Dr. Anna Sajina (CoI) (CoPI)	Tufts University	anna.sajina@tufts.edu
Dr. Lin Yan (CoI) (CoPI)	California Institute of Technology	lyan@caltech.edu
Dr. Stacey Alberts (CoI)	University of Arizona	salberts@email.arizona.edu
Dr. Lee Armus (CoI)	California Institute of Technology	lee@ipac.caltech.edu
Matteo Bonato (CoI) (ESA Member)	INAF, Istituto di Fisica Spaziale e Fisica Cosmica-Bologna	bonato@ira.inaf.it
Dr. Ranga-Ram Chary (CoI)	California Institute of Technology	rchary@caltech.edu
Prof. Kristen Coppin (CoI) (ESA Member)	University of Hertfordshire	k.coppin@herts.ac.uk
Dr. Daniel Dale (CoI)	University of Wyoming	ddale@uwyo.edu
Dr. Duncan Farrah (CoI)	University of Hawaii	dfarrah@hawaii.edu
Dr. Carl Ferkinhoff (CoI)	Winona State University	cferkinhoff@winona.edu
Dr. Brent Groves (CoI)	University of Western Australia	brent.groves@uwa.edu.au
Dr. Christopher Hayward (CoI)	Simons Foundation Center for Computational Astrophysics	chayward@flatironinstitute.org
Dr. Allison Kirkpatrick (CoI)	University of Kansas Center for Research, Inc.	akirkpatrick@ku.edu
Guilaine Lagache (CoI) (ESA Member)	Laboratoire d'Astrophysique de Marseille	guilaine.lagache@lam.fr
Jed McKinney (CoI)	University of Massachusetts - Amherst	jedmck@me.com
Dr. Eric J. Murphy (CoI)	Associated Universities, Inc.	emurphy@nrao.edu
Dr. Nicole Nesvadba (CoI) (ESA Member)	Observatoire de la Cote d'Azur	nicole.nesvadba@oca.eu
Dr. Patrick Michael Ogle (CoI)	Space Telescope Science Institute	pogle@stsci.edu
Prof. Sylvain Veilleux (CoI)	University of Maryland	veilleux@astro.umd.edu

**OBSERVATIONS**

<i>Folder</i>	<i>Observation</i>	<i>Label</i>	<i>Observing Template</i>	<i>Science Target</i>
MIRI MRS				
	1	xFLS15967z=0.579	MIRI Medium Resolution Spectroscopy	(1) XFLS-IRS15967Z0.579
	2	xFLSSSTJ171324z=0.609	MIRI Medium Resolution Spectroscopy	(2) XFLS-SSTJ171324Z0.609
	3	xFLSSSTJ172118z=0.555	MIRI Medium Resolution Spectroscopy	(3) XFLS-SSTJ172118Z0.555
	4	xFLS562z=0.545	MIRI Medium Resolution Spectroscopy	(4) XFLS-IRS562Z0.545
	5	xFLSSSTJ172458z=0.494	MIRI Medium Resolution Spectroscopy	(5) XFLS-SSTJ172458Z0.494
	6	xFLS16047z=0.523	MIRI Medium Resolution Spectroscopy	(6) XFLS-IRS16047Z0.523
	7	XFLS-BKG	MIRI Medium Resolution Spectroscopy	(9) XFLS-BKG
	8	COS51728z=0.614	MIRI Medium Resolution Spectroscopy	(7) COSMOS-MIPS51728Z0.614
	9	COS51982z=0.595	MIRI Medium Resolution Spectroscopy	(8) COSMOS-MIPS51982Z0.595
	34	COSMOS-BKG	MIRI Medium Resolution Spectroscopy	(10) COSMOS-BKG
	33	xFLSSSTJ172118z=0.555	MIRI Medium Resolution Spectroscopy	(3) XFLS-SSTJ172118Z0.555

**ABSTRACT**

The rate of star formation and supermassive black hole growth in galaxies has been decreasing over the last 10 billion years. This proposal aims to understand this decline by localizing and quantifying the active galactic nucleus (AGN), spatially resolving the star formation activity, and measuring the interstellar medium (ISM) conditions in eight infrared-luminous galaxies at  $z \sim 0.6$ . Our sample exists at a time when the cosmic star formation rate density was  $>3$  times higher than locally, but when locally well-established diagnostic lines are still visible to MIRI/MRS. Mid-IR spectroscopy is a powerful way to separate the AGN and star formation energetics in galaxies, and only now with MIRI/MRS are we able to detect the rich atomic lines to quantify the black hole accretion rates ( [NeV], [NeVI] ) and spatially resolve the star formation (Br-alpha) outside the local Universe. Coupling these key lines with the polycyclic aromatic hydrocarbon dust features, the warm molecular hydrogen emission lines and other key spectral features, we will establish the physical state of the ISM halfway to the peak epoch of galaxy evolution. Our program leverages existing Spitzer/IRS spectroscopy to select an optimized sample spanning the full range of star formation to AGN dominated systems. Our program will produce a valuable dataset bridging the local and high redshift Universe by testing diagnostics of the AGN, star formation and ISM conditions at intermediate redshifts so they can be extended to higher redshifts in subsequent JWST cycles.

## OBSERVING DESCRIPTION

### (1) Instruments

We propose to use MIRI/MRS IFU to observe 8 galaxies at redshift of 0.6. We will use all four IFUs in three grating angles and obtain the spectra covering the full available wavelength region between 5 - 28 micron. As a bonus, we plan to take simultaneous direct images using in F560W filter with MIRI. This will produce 8 deep 5.6 micron images, covering a total of 18 sq. arcminutes.

### (2) Targets

Our eight targets are summarized in Table 1 in the Technical Justification. Multiple targets within a same field reduces the telescope slew time after the first target. Furthermore, because the physical sizes of our targets are not larger than 1 arcseconds, our observations can be done efficiently in a single pointing for each target.

These sources all have Spitzer low resolution mid-IR spectra (see Figure 4 in the proposal). They are well studied in several published papers. In addition, these targets also have multi-wavelength photometry, HST images (both optical and Near-IR NICMOS), and optical spectroscopy. The detailed analysis has been performed on the Spitzer spectra and the fractional contribution to the total infrared luminosity has been quantified by the AGN fraction listed in the last column of Table 1.

### (3) Expected mid-IR line fluxes and exposure time calculation

Our primary science goal is to detect mid-IR spectral features, including atomic fine structure lines, broad PAH features, and H<sub>2</sub> molecular lines from rotational transitions. In order to estimate the expected line fluxes, we scale the line fluxes measured for a sample of nearby IR-luminous galaxies with high resolution spectra from Spitzer, assuming the same relation between line to total IR luminosity ratio as a function of AGN fraction (see left panel of Figure 5).

We are targeting a suite of lines, including [NeII], [NeIII], [NeV], Br-alpha, [NeVI], PAH3.3, PAH6.2, PAH7.7, H<sub>2</sub>S(2), H<sub>2</sub>S(3) etc. Of these features, the weakest are [NeV] in the star forming systems and Br-alpha because it is extended over an assumed region of 0.8"x0.8". We expect fluxes of 1.0e-16 erg/s/cm<sup>2</sup> for spatially unresolved [NeV] at the observed wavelength of ~22 micron and 1.05e-17 erg/s/cm<sup>2</sup> for Br-alpha within a

single resolution element of 0.3" FWHM at roughly 6.25 micron.

With the primary science goal of detecting central accreting blackholes and spatially resolving star forming regions, we require our observations to achieve the minimum SNR of 5 for the weakest lines, [NeV] from a star forming galaxy, and Br-alpha in a single resolution element of 0.3" from an AGN dominated target. The JWST Exposure Time Calculator (ETC) gives 2220 seconds per pixel in order to achieve the minimum required SNR. Most of the other spectral features should be detected with much higher SNR (middle panel Figure 5).

#### (4) Observational Plans:

As AGN indicators, the [NeV] and [NeVI] lines will be spatially unresolved at a spatial resolution 0.7". Also at >20 micron, [NeII] and [NeIII] lines are likely marginally resolved. Dust features such as PAH6.2 and 7.7um could be resolved in Channel 3 (FWHM ~ 0.4"), but should not be more than 1", much smaller than FOV~5.6"x6.2". The spatially resolved Br-alpha is in Channel 1, with a FOV of 3.3"x3.7". Our assumption of Br-alpha is a square region of 0.8"x0.8". We adopt 4-point dither and optimize it for all channels for an extended source. Using APT Aladin to visualize the focal plan over an HST NICMOS image of three of our targets, we find that the extended 4-point dither pattern will offer enough sky pixels without galaxy contamination for good background subtraction, as well as ensuring that Br-alpha are mostly within the Channel 1 FOV for all four exposures (see also Figure 5 right panel). For both short and long wavelength detectors, the science exposures will use group of 200, integration 1, fast readout mode and extended 4-point dither, which yields 2220 seconds per pixel. While MIRI IFU is taking the spectrum, we will also take bonus MIRI imaging in F560W filter simultaneously.

Proposal 1762 - Targets - Halfway to the peak: A bridge program to map coeval star formation and supermassive black hole growth

#	Name	Target Coordinates	Targ. Coord. Corrections	Miscellaneous
(1)	XFLS-IRS15967Z0.579	RA: 17 19 24.6000 (259.8525000d) Dec: +59 28 58.80 (59.48300d) Equinox: J2000		
<p>Comments: FLS5 --- FLS15967 <math>z=0.579</math> 1.45mJy <math>F(AGN)=100</math> 5.7um flux = 155uJy            Category=Galaxy            Description=[Active galaxies, High-redshift galaxies, Infrared galaxies, Starburst galaxies, Ultraluminous infrared galaxies]</p>				
(2)	XFLS-SSTJ171324Z0.609	RA: 17 13 24.1680 (258.3507000d) Dec: +58 55 49.08 (58.93030d) Equinox: J2000		
<p>Comments: FLS6 -- (also FLS14016256) <math>z=0.609</math> <math>F(AGN)=88\%</math> 4.94mJy LIR=11.96            5.7um flux=437uJy            Category=Galaxy            Description=[Ultraluminous infrared galaxies]</p>				
(3)	XFLS-SSTJ172118Z0.555	RA: 17 21 18.3120 (260.3263000d) Dec: +58 46 1.56 (58.76710d) Equinox: J2000		
<p>Comments: FLS3 --- (also called FLS14135040) <math>z=0.555</math> <math>F(AGN) = 70\%</math> 1.68mJy            5.7um flux = 206uJy group 5            Category=Galaxy            Description=[Ultraluminous infrared galaxies]</p>				
(4)	XFLS-IRS562Z0.545	RA: 17 12 39.6240 (258.1651000d) Dec: +58 59 54.96 (58.99860d) Equinox: J2000		
<p>Comments: FLS1 -- (FLS-IRS562) <math>z=0.545</math> <math>F(AGN)=23\%</math> 1.01mJy            IRAC 5.7um 0.15mJy            Category=Galaxy            Description=[Ultraluminous infrared galaxies]</p>				
(5)	XFLS-SSTJ172458Z0.494	RA: 17 24 58.3000 (261.2429167d) Dec: +59 15 45.00 (59.26250d) Equinox: J2000		
<p>Comments: FLS2 -- (Lacy FLS1724) <math>z=0.494</math> <math>F(AGN)=50\%</math>            5.7um flux = 433uJy            Category=Galaxy            Description=[Ultraluminous infrared galaxies]</p>				
(6)	XFLS-IRS16047Z0.523	RA: 17 23 1.4400 (260.7560000d) Dec: +59 40 54.12 (59.68170d) Equinox: J2000		
<p>Comments: FLS4 -- (also FLS16047) <math>z=0.523</math> 1.29mJy composite            5.7um flux = 163uJy            Category=Galaxy            Description=[Ultraluminous infrared galaxies]</p>				
(7)	COSMOS-MIPS51728Z0.614	RA: 10 01 9.5352 (150.2897300d) Dec: +02 24 0.06 (2.40002d) Equinox: J2000		
<p>Comments: COSMOS1 -- (also COSMOS mips51728) <math>z=0.614</math> 0.71mJy            5.7um flux = 71uJy            Category=Galaxy            Description=[Ultraluminous infrared galaxies]</p>				

Fixed Targets

Proposal 1762 - Targets - Halfway to the peak: A bridge program to map coeval star formation and supermassive black hole growth

(8)	COSMOS-MIPS51982Z0.595	RA: 10 01 37.0950 (150.4045625d)
		Dec: +02 46 49.98 (2.78055d)
		Equinox: J2000
<p><i>Comments: COSMOS2 -- (also COSMOS mips51982) <math>z=0.595</math> <math>F(AGN)=100\%</math> 1.33mJy  5.7um flux = 282uJy  ALMA dust continuum detection  Category=Galaxy  Description=[Ultraluminous infrared galaxies]</i></p>		
(9)	XFLS-BKG	RA: 17 18 38.0000 (259.6583333d)
		Dec: +59 06 50.00 (59.11389d)
		Equinox: J2000
<p><i>Comments: this is a background target for all 6 XFLS sources  Category=Calibration  Description=[Telescope/sky background]</i></p>		
(10)	COSMOS-BKG	RA: 10 01 17.2640 (150.3219333d)
		Dec: +02 39 39.35 (2.66093d)
		Equinox: J2000
<p><i>Comments: this is a background target for the 2 COSMOS sources  Category=Galaxy  Description=[Ultraluminous infrared galaxies]</i></p>		

Proposal 1762 - Observation 1 - Halfway to the peak: A bridge program to map coeval star formation and supermassive black hole gro...

Wed Dec 21 19:04:18 GMT 2022

Observation	Proposal 1762, Observation 1: xFLS15967z=0.579 Diagnostic Status: Warning Observing Template: MIRI Medium Resolution Spectroscopy												
	(Visit 1:1) Warning (Form): Data Excess over lower threshold (Visit 1:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.												
Fixed Targets	#	Name	Target Coordinates				Targ. Coord. Corrections			Miscellaneous			
	(1)	XFLS-IRS15967Z0.579	RA: 17 19 24.6000 (259.8525000d) Dec: +59 28 58.80 (59.48300d) Equinox: J2000 Comments: FLS5 --- FLS15967 z=0.579 1.45mJy F(AGN)=100 5.7um flux = 155uJy Category=Galaxy Description=[Active galaxies, High-redshift galaxies, Infrared galaxies, Starburst 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	200	1	1	Dither 1	4	4	2220.032	56254
	1	SHORT(A)	MRSLONG		FASTR1	200	1	1	Dither 1	4	4	2220.032	56254
	1	SHORT(A)	MRSSHORT		FASTR1	200	1	1	Dither 1	4	4	2220.032	56254
	2		IMAGER	F560W	FASTR1	200	1	1	Dither 1	4	4	2220.032	56254
	2	MEDIUM(B)	MRSLONG		FASTR1	200	1	1	Dither 1	4	4	2220.032	56254
	2	MEDIUM(B)	MRSSHORT		FASTR1	200	1	1	Dither 1	4	4	2220.032	56254
	3		IMAGER	F560W	FASTR1	200	1	1	Dither 1	4	4	2220.032	56254
	3	LONG(C)	MRSLONG		FASTR1	200	1	1	Dither 1	4	4	2220.032	56254
	3	LONG(C)	MRSSHORT		FASTR1	200	1	1	Dither 1	4	4	2220.032	56254

Proposal 1762 - Observation 2 - Halfway to the peak: A bridge program to map coeval star formation and supermassive black hole gro...

Wed Dec 21 19:04:18 GMT 2022

<b>Observation</b>	<b>Proposal 1762, Observation 2: xFLSSSTJ171324z=0.609</b> <b>Diagnostic Status: Warning</b> Observing Template: MIRI Medium Resolution Spectroscopy																																																																																																																																													
	(Visit 2:1) Warning (Form): Data Excess over lower threshold (Visit 2:1) 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>(2)</td> <td>XFLS-SSTJ171324Z0.609</td> <td>RA: 17 13 24.1680 (258.3507000d) Dec: +58 55 49.08 (58.93030d) Equinox: J2000</td> <td></td> <td></td> </tr> </tbody> </table> <p><i>Comments: FLS6 -- (also FLS14016256) z=0.609 F(AGN)=88% 4.94mJy LIR=11.96 5.7um flux=437uJy Category=Galaxy Description=[Ultraluminous infrared galaxies]</i></p>												#	Name	Target Coordinates	Targ. Coord. Corrections	Miscellaneous	(2)	XFLS-SSTJ171324Z0.609	RA: 17 13 24.1680 (258.3507000d) Dec: +58 55 49.08 (58.93030d) Equinox: J2000																																																																																																																										
	#	Name	Target Coordinates	Targ. Coord. Corrections	Miscellaneous																																																																																																																																									
(2)	XFLS-SSTJ171324Z0.609	RA: 17 13 24.1680 (258.3507000d) Dec: +58 55 49.08 (58.93030d) Equinox: J2000																																																																																																																																												
<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>F560W</td> <td>FASTR1</td> <td>200</td> <td>1</td> <td>1</td> <td>Dither 1</td> <td>4</td> <td>4</td> <td>2220.032</td> <td>56254</td> </tr> <tr> <td>1</td> <td>SHORT(A)</td> <td>MRSLONG</td> <td></td> <td>FASTR1</td> <td>200</td> <td>1</td> <td>1</td> <td>Dither 1</td> <td>4</td> <td>4</td> <td>2220.032</td> <td>56254</td> </tr> <tr> <td>1</td> <td>SHORT(A)</td> <td>MRSSSHORT</td> <td></td> <td>FASTR1</td> <td>200</td> <td>1</td> <td>1</td> <td>Dither 1</td> <td>4</td> <td>4</td> <td>2220.032</td> <td>56254</td> </tr> <tr> <td>2</td> <td></td> <td>IMAGER</td> <td>F560W</td> <td>FASTR1</td> <td>200</td> <td>1</td> <td>1</td> <td>Dither 1</td> <td>4</td> <td>4</td> <td>2220.032</td> <td>56254</td> </tr> <tr> <td>2</td> <td>MEDIUM(B)</td> <td>MRSLONG</td> <td></td> <td>FASTR1</td> <td>200</td> <td>1</td> <td>1</td> <td>Dither 1</td> <td>4</td> <td>4</td> <td>2220.032</td> <td>56254</td> </tr> <tr> <td>2</td> <td>MEDIUM(B)</td> <td>MRSSSHORT</td> <td></td> <td>FASTR1</td> <td>200</td> <td>1</td> <td>1</td> <td>Dither 1</td> <td>4</td> <td>4</td> <td>2220.032</td> <td>56254</td> </tr> <tr> <td>3</td> <td></td> <td>IMAGER</td> <td>F560W</td> <td>FASTR1</td> <td>200</td> <td>1</td> <td>1</td> <td>Dither 1</td> <td>4</td> <td>4</td> <td>2220.032</td> <td>56254</td> </tr> <tr> <td>3</td> <td>LONG(C)</td> <td>MRSLONG</td> <td></td> <td>FASTR1</td> <td>200</td> <td>1</td> <td>1</td> <td>Dither 1</td> <td>4</td> <td>4</td> <td>2220.032</td> <td>56254</td> </tr> <tr> <td>3</td> <td>LONG(C)</td> <td>MRSSSHORT</td> <td></td> <td>FASTR1</td> <td>200</td> <td>1</td> <td>1</td> <td>Dither 1</td> <td>4</td> <td>4</td> <td>2220.032</td> <td>56254</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	F560W	FASTR1	200	1	1	Dither 1	4	4	2220.032	56254	1	SHORT(A)	MRSLONG		FASTR1	200	1	1	Dither 1	4	4	2220.032	56254	1	SHORT(A)	MRSSSHORT		FASTR1	200	1	1	Dither 1	4	4	2220.032	56254	2		IMAGER	F560W	FASTR1	200	1	1	Dither 1	4	4	2220.032	56254	2	MEDIUM(B)	MRSLONG		FASTR1	200	1	1	Dither 1	4	4	2220.032	56254	2	MEDIUM(B)	MRSSSHORT		FASTR1	200	1	1	Dither 1	4	4	2220.032	56254	3		IMAGER	F560W	FASTR1	200	1	1	Dither 1	4	4	2220.032	56254	3	LONG(C)	MRSLONG		FASTR1	200	1	1	Dither 1	4	4	2220.032	56254	3	LONG(C)	MRSSSHORT		FASTR1	200	1	1	Dither 1	4	4	2220.032	56254
	#	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	200	1	1	Dither 1	4	4	2220.032	56254																																																																																																																																	
	1	SHORT(A)	MRSLONG		FASTR1	200	1	1	Dither 1	4	4	2220.032	56254																																																																																																																																	
	1	SHORT(A)	MRSSSHORT		FASTR1	200	1	1	Dither 1	4	4	2220.032	56254																																																																																																																																	
	2		IMAGER	F560W	FASTR1	200	1	1	Dither 1	4	4	2220.032	56254																																																																																																																																	
	2	MEDIUM(B)	MRSLONG		FASTR1	200	1	1	Dither 1	4	4	2220.032	56254																																																																																																																																	
	2	MEDIUM(B)	MRSSSHORT		FASTR1	200	1	1	Dither 1	4	4	2220.032	56254																																																																																																																																	
	3		IMAGER	F560W	FASTR1	200	1	1	Dither 1	4	4	2220.032	56254																																																																																																																																	
	3	LONG(C)	MRSLONG		FASTR1	200	1	1	Dither 1	4	4	2220.032	56254																																																																																																																																	
3	LONG(C)	MRSSSHORT		FASTR1	200	1	1	Dither 1	4	4	2220.032	56254																																																																																																																																		

Proposal 1762 - Observation 3 - Halfway to the peak: A bridge program to map coeval star formation and supermassive black hole gro...

Observation	Proposal 1762, Observation 3: xFLSSSTJ172118z=0.555 <span style="float: right;">Wed Dec 21 19:04:18 GMT 2022</span> Diagnostic Status: Warning Observing Template: MIRI Medium Resolution Spectroscopy																																																																																																																																													
	(Visit 3:1) Warning (Form): Data Excess over lower threshold (Visit 3:1) 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>(3)</td> <td>XFLS-SSTJ172118Z0.555</td> <td>RA: 17 21 18.3120 (260.3263000d) Dec: +58 46 1.56 (58.76710d) Equinox: J2000</td> <td></td> <td></td> </tr> </tbody> </table> Comments: FLS3 --- (also called FLS14135040) z=0.555 F(AGN) = 70% 1.68mJy 5.7um flux = 206uJy group 5 Category=Galaxy Description=[Ultraluminous infrared galaxies]												#	Name	Target Coordinates	Targ. Coord. Corrections	Miscellaneous	(3)	XFLS-SSTJ172118Z0.555	RA: 17 21 18.3120 (260.3263000d) Dec: +58 46 1.56 (58.76710d) Equinox: J2000																																																																																																																										
	#	Name	Target Coordinates	Targ. Coord. Corrections	Miscellaneous																																																																																																																																									
(3)	XFLS-SSTJ172118Z0.555	RA: 17 21 18.3120 (260.3263000d) Dec: +58 46 1.56 (58.76710d) Equinox: J2000																																																																																																																																												
Acquisition	<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>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																																																																																																																																											
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/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>F560W</td> <td>FASTR1</td> <td>200</td> <td>1</td> <td>1</td> <td>Dither 1</td> <td>4</td> <td>4</td> <td>2220.032</td> <td>56254</td> </tr> <tr> <td>1</td> <td>SHORT(A)</td> <td>MRSLONG</td> <td></td> <td>FASTR1</td> <td>200</td> <td>1</td> <td>1</td> <td>Dither 1</td> <td>4</td> <td>4</td> <td>2220.032</td> <td>56254</td> </tr> <tr> <td>1</td> <td>SHORT(A)</td> <td>MRSSHORT</td> <td></td> <td>FASTR1</td> <td>200</td> <td>1</td> <td>1</td> <td>Dither 1</td> <td>4</td> <td>4</td> <td>2220.032</td> <td>56254</td> </tr> <tr> <td>2</td> <td></td> <td>IMAGER</td> <td>F560W</td> <td>FASTR1</td> <td>200</td> <td>1</td> <td>1</td> <td>Dither 1</td> <td>4</td> <td>4</td> <td>2220.032</td> <td>56254</td> </tr> <tr> <td>2</td> <td>MEDIUM(B)</td> <td>MRSLONG</td> <td></td> <td>FASTR1</td> <td>200</td> <td>1</td> <td>1</td> <td>Dither 1</td> <td>4</td> <td>4</td> <td>2220.032</td> <td>56254</td> </tr> <tr> <td>2</td> <td>MEDIUM(B)</td> <td>MRSSHORT</td> <td></td> <td>FASTR1</td> <td>200</td> <td>1</td> <td>1</td> <td>Dither 1</td> <td>4</td> <td>4</td> <td>2220.032</td> <td>56254</td> </tr> <tr> <td>3</td> <td></td> <td>IMAGER</td> <td>F560W</td> <td>FASTR1</td> <td>200</td> <td>1</td> <td>1</td> <td>Dither 1</td> <td>4</td> <td>4</td> <td>2220.032</td> <td>56254</td> </tr> <tr> <td>3</td> <td>LONG(C)</td> <td>MRSLONG</td> <td></td> <td>FASTR1</td> <td>200</td> <td>1</td> <td>1</td> <td>Dither 1</td> <td>4</td> <td>4</td> <td>2220.032</td> <td>56254</td> </tr> <tr> <td>3</td> <td>LONG(C)</td> <td>MRSSHORT</td> <td></td> <td>FASTR1</td> <td>200</td> <td>1</td> <td>1</td> <td>Dither 1</td> <td>4</td> <td>4</td> <td>2220.032</td> <td>56254</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	F560W	FASTR1	200	1	1	Dither 1	4	4	2220.032	56254	1	SHORT(A)	MRSLONG		FASTR1	200	1	1	Dither 1	4	4	2220.032	56254	1	SHORT(A)	MRSSHORT		FASTR1	200	1	1	Dither 1	4	4	2220.032	56254	2		IMAGER	F560W	FASTR1	200	1	1	Dither 1	4	4	2220.032	56254	2	MEDIUM(B)	MRSLONG		FASTR1	200	1	1	Dither 1	4	4	2220.032	56254	2	MEDIUM(B)	MRSSHORT		FASTR1	200	1	1	Dither 1	4	4	2220.032	56254	3		IMAGER	F560W	FASTR1	200	1	1	Dither 1	4	4	2220.032	56254	3	LONG(C)	MRSLONG		FASTR1	200	1	1	Dither 1	4	4	2220.032	56254	3	LONG(C)	MRSSHORT		FASTR1	200	1	1	Dither 1	4	4	2220.032	56254
	#	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	F560W	FASTR1	200	1	1	Dither 1	4	4	2220.032	56254																																																																																																																																	
	1	SHORT(A)	MRSLONG		FASTR1	200	1	1	Dither 1	4	4	2220.032	56254																																																																																																																																	
	1	SHORT(A)	MRSSHORT		FASTR1	200	1	1	Dither 1	4	4	2220.032	56254																																																																																																																																	
	2		IMAGER	F560W	FASTR1	200	1	1	Dither 1	4	4	2220.032	56254																																																																																																																																	
	2	MEDIUM(B)	MRSLONG		FASTR1	200	1	1	Dither 1	4	4	2220.032	56254																																																																																																																																	
	2	MEDIUM(B)	MRSSHORT		FASTR1	200	1	1	Dither 1	4	4	2220.032	56254																																																																																																																																	
	3		IMAGER	F560W	FASTR1	200	1	1	Dither 1	4	4	2220.032	56254																																																																																																																																	
	3	LONG(C)	MRSLONG		FASTR1	200	1	1	Dither 1	4	4	2220.032	56254																																																																																																																																	
3	LONG(C)	MRSSHORT		FASTR1	200	1	1	Dither 1	4	4	2220.032	56254																																																																																																																																		

Proposal 1762 - Observation 4 - Halfway to the peak: A bridge program to map coeval star formation and supermassive black hole gro...

Wed Dec 21 19:04:18 GMT 2022

Observation	Proposal 1762, Observation 4: xFLS562z=0.545 Diagnostic Status: Warning Observing Template: MIRI Medium Resolution Spectroscopy												
	(Visit 4:1) Warning (Form): Data Excess over lower threshold (Visit 4:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.												
Fixed Targets	#	Name	Target Coordinates		Targ. Coord. Corrections				Miscellaneous				
	(4)	XFLS-IRS562Z0.545	RA: 17 12 39.6240 (258.1651000d) Dec: +58 59 54.96 (58.99860d) Equinox: J2000										
Comments: FLS1 -- (FLS-IRS562) z=0.545 F(AGN)=23% 1.01mJy IRAC 5.7um 0.15mJy Category=Galaxy Description=[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/Exp	Exposures/Dith	Dither	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
	1		IMAGER	F560W	FASTR1	200	1	1	Dither 1	4	4	2220.032	56254
	1	SHORT(A)	MRSLONG		FASTR1	200	1	1	Dither 1	4	4	2220.032	56254
	1	SHORT(A)	MRSSHORT		FASTR1	200	1	1	Dither 1	4	4	2220.032	56254
	2		IMAGER	F560W	FASTR1	200	1	1	Dither 1	4	4	2220.032	56254
	2	MEDIUM(B)	MRSLONG		FASTR1	200	1	1	Dither 1	4	4	2220.032	56254
	2	MEDIUM(B)	MRSSHORT		FASTR1	200	1	1	Dither 1	4	4	2220.032	56254
	3		IMAGER	F560W	FASTR1	200	1	1	Dither 1	4	4	2220.032	56254
	3	LONG(C)	MRSLONG		FASTR1	200	1	1	Dither 1	4	4	2220.032	56254
	3	LONG(C)	MRSSHORT		FASTR1	200	1	1	Dither 1	4	4	2220.032	56254

Proposal 1762 - Observation 5 - Halfway to the peak: A bridge program to map coeval star formation and supermassive black hole gro...

Wed Dec 21 19:04:18 GMT 2022

<b>Observation</b>	Proposal 1762, Observation 5: xFLSSSTJ172458z=0.494 Diagnostic Status: Warning Observing Template: MIRI Medium Resolution Spectroscopy																																																																																																																																													
	(Visit 5:1) Warning (Form): Data Excess over lower threshold (Visit 5:1) 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>(5)</td> <td>XFLS-SSTJ172458Z0.494</td> <td>RA: 17 24 58.3000 (261.2429167d) Dec: +59 15 45.00 (59.26250d) Equinox: J2000</td> <td></td> <td></td> </tr> </tbody> </table>												#	Name	Target Coordinates	Targ. Coord. Corrections	Miscellaneous	(5)	XFLS-SSTJ172458Z0.494	RA: 17 24 58.3000 (261.2429167d) Dec: +59 15 45.00 (59.26250d) Equinox: J2000																																																																																																																										
	#	Name	Target Coordinates	Targ. Coord. Corrections	Miscellaneous																																																																																																																																									
(5)	XFLS-SSTJ172458Z0.494	RA: 17 24 58.3000 (261.2429167d) Dec: +59 15 45.00 (59.26250d) Equinox: J2000																																																																																																																																												
Comments: FLS2 -- (Lacy FLS1724) z=0.494 F(AGN)=50% 5.7um flux = 433uJy Category=Galaxy Description=[Ultraluminous infrared galaxies]																																																																																																																																														
<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>F1500W</td> <td>ALL</td> <td>YES</td> <td>FULL</td> </tr> </tbody> </table>												AcqFilter	Primary Channel	Simultaneous Imaging	Imager Subarray	F1500W	ALL	YES	FULL																																																																																																																										
	AcqFilter	Primary Channel	Simultaneous Imaging	Imager Subarray																																																																																																																																										
F1500W	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>F560W</td> <td>FASTR1</td> <td>200</td> <td>1</td> <td>1</td> <td>Dither 1</td> <td>4</td> <td>4</td> <td>2220.032</td> <td>56254</td> </tr> <tr> <td>1</td> <td>SHORT(A)</td> <td>MRSLONG</td> <td></td> <td>FASTR1</td> <td>200</td> <td>1</td> <td>1</td> <td>Dither 1</td> <td>4</td> <td>4</td> <td>2220.032</td> <td>56254</td> </tr> <tr> <td>1</td> <td>SHORT(A)</td> <td>MRSSSHORT</td> <td></td> <td>FASTR1</td> <td>200</td> <td>1</td> <td>1</td> <td>Dither 1</td> <td>4</td> <td>4</td> <td>2220.032</td> <td>56254</td> </tr> <tr> <td>2</td> <td></td> <td>IMAGER</td> <td>F560W</td> <td>FASTR1</td> <td>200</td> <td>1</td> <td>1</td> <td>Dither 1</td> <td>4</td> <td>4</td> <td>2220.032</td> <td>56254</td> </tr> <tr> <td>2</td> <td>MEDIUM(B)</td> <td>MRSLONG</td> <td></td> <td>FASTR1</td> <td>200</td> <td>1</td> <td>1</td> <td>Dither 1</td> <td>4</td> <td>4</td> <td>2220.032</td> <td>56254</td> </tr> <tr> <td>2</td> <td>MEDIUM(B)</td> <td>MRSSSHORT</td> <td></td> <td>FASTR1</td> <td>200</td> <td>1</td> <td>1</td> <td>Dither 1</td> <td>4</td> <td>4</td> <td>2220.032</td> <td>56254</td> </tr> <tr> <td>3</td> <td></td> <td>IMAGER</td> <td>F560W</td> <td>FASTR1</td> <td>200</td> <td>1</td> <td>1</td> <td>Dither 1</td> <td>4</td> <td>4</td> <td>2220.032</td> <td>56254</td> </tr> <tr> <td>3</td> <td>LONG(C)</td> <td>MRSLONG</td> <td></td> <td>FASTR1</td> <td>200</td> <td>1</td> <td>1</td> <td>Dither 1</td> <td>4</td> <td>4</td> <td>2220.032</td> <td>56254</td> </tr> <tr> <td>3</td> <td>LONG(C)</td> <td>MRSSSHORT</td> <td></td> <td>FASTR1</td> <td>200</td> <td>1</td> <td>1</td> <td>Dither 1</td> <td>4</td> <td>4</td> <td>2220.032</td> <td>56254</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	F560W	FASTR1	200	1	1	Dither 1	4	4	2220.032	56254	1	SHORT(A)	MRSLONG		FASTR1	200	1	1	Dither 1	4	4	2220.032	56254	1	SHORT(A)	MRSSSHORT		FASTR1	200	1	1	Dither 1	4	4	2220.032	56254	2		IMAGER	F560W	FASTR1	200	1	1	Dither 1	4	4	2220.032	56254	2	MEDIUM(B)	MRSLONG		FASTR1	200	1	1	Dither 1	4	4	2220.032	56254	2	MEDIUM(B)	MRSSSHORT		FASTR1	200	1	1	Dither 1	4	4	2220.032	56254	3		IMAGER	F560W	FASTR1	200	1	1	Dither 1	4	4	2220.032	56254	3	LONG(C)	MRSLONG		FASTR1	200	1	1	Dither 1	4	4	2220.032	56254	3	LONG(C)	MRSSSHORT		FASTR1	200	1	1	Dither 1	4	4	2220.032	56254
	#	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	F560W	FASTR1	200	1	1	Dither 1	4	4	2220.032	56254																																																																																																																																	
	1	SHORT(A)	MRSLONG		FASTR1	200	1	1	Dither 1	4	4	2220.032	56254																																																																																																																																	
	1	SHORT(A)	MRSSSHORT		FASTR1	200	1	1	Dither 1	4	4	2220.032	56254																																																																																																																																	
	2		IMAGER	F560W	FASTR1	200	1	1	Dither 1	4	4	2220.032	56254																																																																																																																																	
	2	MEDIUM(B)	MRSLONG		FASTR1	200	1	1	Dither 1	4	4	2220.032	56254																																																																																																																																	
	2	MEDIUM(B)	MRSSSHORT		FASTR1	200	1	1	Dither 1	4	4	2220.032	56254																																																																																																																																	
	3		IMAGER	F560W	FASTR1	200	1	1	Dither 1	4	4	2220.032	56254																																																																																																																																	
	3	LONG(C)	MRSLONG		FASTR1	200	1	1	Dither 1	4	4	2220.032	56254																																																																																																																																	
3	LONG(C)	MRSSSHORT		FASTR1	200	1	1	Dither 1	4	4	2220.032	56254																																																																																																																																		

Proposal 1762 - Observation 6 - Halfway to the peak: A bridge program to map coeval star formation and supermassive black hole gro...

Wed Dec 21 19:04:18 GMT 2022

<b>Observation</b>	Proposal 1762, Observation 6: xFLS16047z=0.523 Diagnostic Status: Warning Observing Template: MIRI Medium Resolution Spectroscopy																																																																																																																																													
	(Visit 6:1) Warning (Form): Data Excess over lower threshold (Visit 6:1) 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>(6)</td> <td>XFLS-IRS16047Z0.523</td> <td>RA: 17 23 1.4400 (260.7560000d) Dec: +59 40 54.12 (59.68170d) Equinox: J2000</td> <td></td> <td></td> </tr> </tbody> </table>												#	Name	Target Coordinates	Targ. Coord. Corrections	Miscellaneous	(6)	XFLS-IRS16047Z0.523	RA: 17 23 1.4400 (260.7560000d) Dec: +59 40 54.12 (59.68170d) Equinox: J2000																																																																																																																										
	#	Name	Target Coordinates	Targ. Coord. Corrections	Miscellaneous																																																																																																																																									
(6)	XFLS-IRS16047Z0.523	RA: 17 23 1.4400 (260.7560000d) Dec: +59 40 54.12 (59.68170d) Equinox: J2000																																																																																																																																												
Comments: FLS4 -- (also FLS16047) z=0.523 1.29mJy composite 5.7um flux = 163uJy Category=Galaxy Description=[Ultraluminous infrared galaxies]																																																																																																																																														
<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>F560W</td> <td>FASTR1</td> <td>200</td> <td>1</td> <td>1</td> <td>Dither 1</td> <td>4</td> <td>4</td> <td>2220.032</td> <td>56254</td> </tr> <tr> <td>1</td> <td>SHORT(A)</td> <td>MRSLONG</td> <td></td> <td>FASTR1</td> <td>200</td> <td>1</td> <td>1</td> <td>Dither 1</td> <td>4</td> <td>4</td> <td>2220.032</td> <td>56254</td> </tr> <tr> <td>1</td> <td>SHORT(A)</td> <td>MRSSHORT</td> <td></td> <td>FASTR1</td> <td>200</td> <td>1</td> <td>1</td> <td>Dither 1</td> <td>4</td> <td>4</td> <td>2220.032</td> <td>56254</td> </tr> <tr> <td>2</td> <td></td> <td>IMAGER</td> <td>F560W</td> <td>FASTR1</td> <td>200</td> <td>1</td> <td>1</td> <td>Dither 1</td> <td>4</td> <td>4</td> <td>2220.032</td> <td>56254</td> </tr> <tr> <td>2</td> <td>MEDIUM(B)</td> <td>MRSLONG</td> <td></td> <td>FASTR1</td> <td>200</td> <td>1</td> <td>1</td> <td>Dither 1</td> <td>4</td> <td>4</td> <td>2220.032</td> <td>56254</td> </tr> <tr> <td>2</td> <td>MEDIUM(B)</td> <td>MRSSHORT</td> <td></td> <td>FASTR1</td> <td>200</td> <td>1</td> <td>1</td> <td>Dither 1</td> <td>4</td> <td>4</td> <td>2220.032</td> <td>56254</td> </tr> <tr> <td>3</td> <td></td> <td>IMAGER</td> <td>F560W</td> <td>FASTR1</td> <td>200</td> <td>1</td> <td>1</td> <td>Dither 1</td> <td>4</td> <td>4</td> <td>2220.032</td> <td>56254</td> </tr> <tr> <td>3</td> <td>LONG(C)</td> <td>MRSLONG</td> <td></td> <td>FASTR1</td> <td>200</td> <td>1</td> <td>1</td> <td>Dither 1</td> <td>4</td> <td>4</td> <td>2220.032</td> <td>56254</td> </tr> <tr> <td>3</td> <td>LONG(C)</td> <td>MRSSHORT</td> <td></td> <td>FASTR1</td> <td>200</td> <td>1</td> <td>1</td> <td>Dither 1</td> <td>4</td> <td>4</td> <td>2220.032</td> <td>56254</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	F560W	FASTR1	200	1	1	Dither 1	4	4	2220.032	56254	1	SHORT(A)	MRSLONG		FASTR1	200	1	1	Dither 1	4	4	2220.032	56254	1	SHORT(A)	MRSSHORT		FASTR1	200	1	1	Dither 1	4	4	2220.032	56254	2		IMAGER	F560W	FASTR1	200	1	1	Dither 1	4	4	2220.032	56254	2	MEDIUM(B)	MRSLONG		FASTR1	200	1	1	Dither 1	4	4	2220.032	56254	2	MEDIUM(B)	MRSSHORT		FASTR1	200	1	1	Dither 1	4	4	2220.032	56254	3		IMAGER	F560W	FASTR1	200	1	1	Dither 1	4	4	2220.032	56254	3	LONG(C)	MRSLONG		FASTR1	200	1	1	Dither 1	4	4	2220.032	56254	3	LONG(C)	MRSSHORT		FASTR1	200	1	1	Dither 1	4	4	2220.032	56254
	#	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	200	1	1	Dither 1	4	4	2220.032	56254																																																																																																																																	
	1	SHORT(A)	MRSLONG		FASTR1	200	1	1	Dither 1	4	4	2220.032	56254																																																																																																																																	
	1	SHORT(A)	MRSSHORT		FASTR1	200	1	1	Dither 1	4	4	2220.032	56254																																																																																																																																	
	2		IMAGER	F560W	FASTR1	200	1	1	Dither 1	4	4	2220.032	56254																																																																																																																																	
	2	MEDIUM(B)	MRSLONG		FASTR1	200	1	1	Dither 1	4	4	2220.032	56254																																																																																																																																	
	2	MEDIUM(B)	MRSSHORT		FASTR1	200	1	1	Dither 1	4	4	2220.032	56254																																																																																																																																	
	3		IMAGER	F560W	FASTR1	200	1	1	Dither 1	4	4	2220.032	56254																																																																																																																																	
	3	LONG(C)	MRSLONG		FASTR1	200	1	1	Dither 1	4	4	2220.032	56254																																																																																																																																	
3	LONG(C)	MRSSHORT		FASTR1	200	1	1	Dither 1	4	4	2220.032	56254																																																																																																																																		

Proposal 1762 - Observation 7 - Halfway to the peak: A bridge program to map coeval star formation and supermassive black hole gro...

Wed Dec 21 19:04:18 GMT 2022

Observation	Proposal 1762, Observation 7: XFLS-BKG Diagnostic Status: Warning Observing Template: MIRI Medium Resolution Spectroscopy												
	(Visit 7:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.												
Fixed Targets	#	Name	Target Coordinates				Targ. Coord. Corrections			Miscellaneous			
	(9)	XFLS-BKG	RA: 17 18 38.0000 (259.6583333d) Dec: +59 06 50.00 (59.11389d) Equinox: J2000  <i>Comments: this is a background target for all 6 XFLS sources</i> <i>Category=Calibration</i> <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	20	1	1	Dither 1	4	4	222.003	56254
	1	SHORT(A)	MRSLONG		FASTR1	20	1	1	Dither 1	4	4	222.003	56254
	1	SHORT(A)	MRSSHORT		FASTR1	20	1	1	Dither 1	4	4	222.003	56254
	2		IMAGER	F560W	FASTR1	20	1	1	Dither 1	4	4	222.003	56254
	2	MEDIUM(B)	MRSLONG		FASTR1	20	1	1	Dither 1	4	4	222.003	56254
	2	MEDIUM(B)	MRSSHORT		FASTR1	20	1	1	Dither 1	4	4	222.003	56254
	3		IMAGER	F560W	FASTR1	20	1	1	Dither 1	4	4	222.003	56254
	3	LONG(C)	MRSLONG		FASTR1	20	1	1	Dither 1	4	4	222.003	56254
	3	LONG(C)	MRSSHORT		FASTR1	20	1	1	Dither 1	4	4	222.003	56254

Proposal 1762 - Observation 8 - Halfway to the peak: A bridge program to map coeval star formation and supermassive black hole gro...

Wed Dec 21 19:04:18 GMT 2022

<b>Observation</b>	<b>Proposal 1762, Observation 8: COS51728z=0.614</b> <b>Diagnostic Status: Warning</b> Observing Template: MIRI Medium Resolution Spectroscopy																																																																																																																																													
	(Visit 8:1) Warning (Form): Data Excess over lower threshold (Visit 8:1) 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>(7)</td> <td>COSMOS-MIPS51728Z0.614</td> <td>RA: 10 01 9.5352 (150.2897300d) Dec: +02 24 0.06 (2.40002d) Equinox: J2000</td> <td></td> <td></td> </tr> </tbody> </table>												#	Name	Target Coordinates	Targ. Coord. Corrections	Miscellaneous	(7)	COSMOS-MIPS51728Z0.614	RA: 10 01 9.5352 (150.2897300d) Dec: +02 24 0.06 (2.40002d) Equinox: J2000																																																																																																																										
	#	Name	Target Coordinates	Targ. Coord. Corrections	Miscellaneous																																																																																																																																									
(7)	COSMOS-MIPS51728Z0.614	RA: 10 01 9.5352 (150.2897300d) Dec: +02 24 0.06 (2.40002d) Equinox: J2000																																																																																																																																												
Comments: COSMOS1 -- (also COSMOS mips51728) z=0.614 0.71mJy 5.7um flux = 71uJy Category=Galaxy Description=[Ultraluminous infrared galaxies]																																																																																																																																														
<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/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>F560W</td> <td>FASTR1</td> <td>200</td> <td>1</td> <td>1</td> <td>Dither 1</td> <td>4</td> <td>4</td> <td>2220.032</td> <td>56254</td> </tr> <tr> <td>1</td> <td>LONG(C)</td> <td>MRSLONG</td> <td></td> <td>FASTR1</td> <td>200</td> <td>1</td> <td>1</td> <td>Dither 1</td> <td>4</td> <td>4</td> <td>2220.032</td> <td>56254</td> </tr> <tr> <td>1</td> <td>LONG(C)</td> <td>MRSSHORT</td> <td></td> <td>FASTR1</td> <td>200</td> <td>1</td> <td>1</td> <td>Dither 1</td> <td>4</td> <td>4</td> <td>2220.032</td> <td>56254</td> </tr> <tr> <td>2</td> <td></td> <td>IMAGER</td> <td>F560W</td> <td>FASTR1</td> <td>200</td> <td>1</td> <td>1</td> <td>Dither 1</td> <td>4</td> <td>4</td> <td>2220.032</td> <td>56254</td> </tr> <tr> <td>2</td> <td>MEDIUM(B)</td> <td>MRSLONG</td> <td></td> <td>FASTR1</td> <td>200</td> <td>1</td> <td>1</td> <td>Dither 1</td> <td>4</td> <td>4</td> <td>2220.032</td> <td>56254</td> </tr> <tr> <td>2</td> <td>MEDIUM(B)</td> <td>MRSSHORT</td> <td></td> <td>FASTR1</td> <td>200</td> <td>1</td> <td>1</td> <td>Dither 1</td> <td>4</td> <td>4</td> <td>2220.032</td> <td>56254</td> </tr> <tr> <td>3</td> <td></td> <td>IMAGER</td> <td>F560W</td> <td>FASTR1</td> <td>200</td> <td>1</td> <td>1</td> <td>Dither 1</td> <td>4</td> <td>4</td> <td>2220.032</td> <td>56254</td> </tr> <tr> <td>3</td> <td>SHORT(A)</td> <td>MRSLONG</td> <td></td> <td>FASTR1</td> <td>200</td> <td>1</td> <td>1</td> <td>Dither 1</td> <td>4</td> <td>4</td> <td>2220.032</td> <td>56254</td> </tr> <tr> <td>3</td> <td>SHORT(A)</td> <td>MRSSHORT</td> <td></td> <td>FASTR1</td> <td>200</td> <td>1</td> <td>1</td> <td>Dither 1</td> <td>4</td> <td>4</td> <td>2220.032</td> <td>56254</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	F560W	FASTR1	200	1	1	Dither 1	4	4	2220.032	56254	1	LONG(C)	MRSLONG		FASTR1	200	1	1	Dither 1	4	4	2220.032	56254	1	LONG(C)	MRSSHORT		FASTR1	200	1	1	Dither 1	4	4	2220.032	56254	2		IMAGER	F560W	FASTR1	200	1	1	Dither 1	4	4	2220.032	56254	2	MEDIUM(B)	MRSLONG		FASTR1	200	1	1	Dither 1	4	4	2220.032	56254	2	MEDIUM(B)	MRSSHORT		FASTR1	200	1	1	Dither 1	4	4	2220.032	56254	3		IMAGER	F560W	FASTR1	200	1	1	Dither 1	4	4	2220.032	56254	3	SHORT(A)	MRSLONG		FASTR1	200	1	1	Dither 1	4	4	2220.032	56254	3	SHORT(A)	MRSSHORT		FASTR1	200	1	1	Dither 1	4	4	2220.032	56254
	#	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	F560W	FASTR1	200	1	1	Dither 1	4	4	2220.032	56254																																																																																																																																	
	1	LONG(C)	MRSLONG		FASTR1	200	1	1	Dither 1	4	4	2220.032	56254																																																																																																																																	
	1	LONG(C)	MRSSHORT		FASTR1	200	1	1	Dither 1	4	4	2220.032	56254																																																																																																																																	
	2		IMAGER	F560W	FASTR1	200	1	1	Dither 1	4	4	2220.032	56254																																																																																																																																	
	2	MEDIUM(B)	MRSLONG		FASTR1	200	1	1	Dither 1	4	4	2220.032	56254																																																																																																																																	
	2	MEDIUM(B)	MRSSHORT		FASTR1	200	1	1	Dither 1	4	4	2220.032	56254																																																																																																																																	
	3		IMAGER	F560W	FASTR1	200	1	1	Dither 1	4	4	2220.032	56254																																																																																																																																	
	3	SHORT(A)	MRSLONG		FASTR1	200	1	1	Dither 1	4	4	2220.032	56254																																																																																																																																	
3	SHORT(A)	MRSSHORT		FASTR1	200	1	1	Dither 1	4	4	2220.032	56254																																																																																																																																		

Special Requirements

Group Observations 8, 9, 34 within 2 Days

Proposal 1762 - Observation 9 - Halfway to the peak: A bridge program to map coeval star formation and supermassive black hole gro...

Wed Dec 21 19:04:18 GMT 2022

<b>Observation</b>	<b>Proposal 1762, Observation 9: COS51982z=0.595</b> <b>Diagnostic Status: Warning</b> Observing Template: MIRI Medium Resolution Spectroscopy																																																																																																																																														
	(Visit 9:1) Warning (Form): Data Excess over lower threshold (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>(8)</td> <td>COSMOS-MIPS51982Z0.595</td> <td>RA: 10 01 37.0950 (150.4045625d) Dec: +02 46 49.98 (2.78055d) Equinox: J2000</td> <td></td> <td></td> </tr> </tbody> </table> <p><i>Comments: COSMOS2 -- (also COSMOS mips51982) z=0.595 F(AGN)=100% 1.33mJy 5.7um flux = 282uJy ALMA dust continuum detection Category=Galaxy Description=[Ultraluminous infrared galaxies]</i></p>													#	Name	Target Coordinates	Targ. Coord. Corrections	Miscellaneous	(8)	COSMOS-MIPS51982Z0.595	RA: 10 01 37.0950 (150.4045625d) Dec: +02 46 49.98 (2.78055d) Equinox: J2000																																																																																																																										
	#	Name	Target Coordinates	Targ. Coord. Corrections	Miscellaneous																																																																																																																																										
(8)	COSMOS-MIPS51982Z0.595	RA: 10 01 37.0950 (150.4045625d) Dec: +02 46 49.98 (2.78055d) Equinox: J2000																																																																																																																																													
<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/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>F560W</td> <td>FASTR1</td> <td>200</td> <td>1</td> <td>1</td> <td>Dither 1</td> <td>4</td> <td>4</td> <td>2220.032</td> <td>56254</td> </tr> <tr> <td>1</td> <td>LONG(C)</td> <td>MRSLONG</td> <td></td> <td>FASTR1</td> <td>200</td> <td>1</td> <td>1</td> <td>Dither 1</td> <td>4</td> <td>4</td> <td>2220.032</td> <td>56254</td> </tr> <tr> <td>1</td> <td>LONG(C)</td> <td>MRSSHORT</td> <td></td> <td>FASTR1</td> <td>200</td> <td>1</td> <td>1</td> <td>Dither 1</td> <td>4</td> <td>4</td> <td>2220.032</td> <td>56254</td> </tr> <tr> <td>2</td> <td></td> <td>IMAGER</td> <td>F560W</td> <td>FASTR1</td> <td>200</td> <td>1</td> <td>1</td> <td>Dither 1</td> <td>4</td> <td>4</td> <td>2220.032</td> <td>56254</td> </tr> <tr> <td>2</td> <td>MEDIUM(B)</td> <td>MRSLONG</td> <td></td> <td>FASTR1</td> <td>200</td> <td>1</td> <td>1</td> <td>Dither 1</td> <td>4</td> <td>4</td> <td>2220.032</td> <td>56254</td> </tr> <tr> <td>2</td> <td>MEDIUM(B)</td> <td>MRSSHORT</td> <td></td> <td>FASTR1</td> <td>200</td> <td>1</td> <td>1</td> <td>Dither 1</td> <td>4</td> <td>4</td> <td>2220.032</td> <td>56254</td> </tr> <tr> <td>3</td> <td></td> <td>IMAGER</td> <td>F560W</td> <td>FASTR1</td> <td>200</td> <td>1</td> <td>1</td> <td>Dither 1</td> <td>4</td> <td>4</td> <td>2220.032</td> <td>56254</td> </tr> <tr> <td>3</td> <td>SHORT(A)</td> <td>MRSLONG</td> <td></td> <td>FASTR1</td> <td>200</td> <td>1</td> <td>1</td> <td>Dither 1</td> <td>4</td> <td>4</td> <td>2220.032</td> <td>56254</td> </tr> <tr> <td>3</td> <td>SHORT(A)</td> <td>MRSSHORT</td> <td></td> <td>FASTR1</td> <td>200</td> <td>1</td> <td>1</td> <td>Dither 1</td> <td>4</td> <td>4</td> <td>2220.032</td> <td>56254</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	F560W	FASTR1	200	1	1	Dither 1	4	4	2220.032	56254	1	LONG(C)	MRSLONG		FASTR1	200	1	1	Dither 1	4	4	2220.032	56254	1	LONG(C)	MRSSHORT		FASTR1	200	1	1	Dither 1	4	4	2220.032	56254	2		IMAGER	F560W	FASTR1	200	1	1	Dither 1	4	4	2220.032	56254	2	MEDIUM(B)	MRSLONG		FASTR1	200	1	1	Dither 1	4	4	2220.032	56254	2	MEDIUM(B)	MRSSHORT		FASTR1	200	1	1	Dither 1	4	4	2220.032	56254	3		IMAGER	F560W	FASTR1	200	1	1	Dither 1	4	4	2220.032	56254	3	SHORT(A)	MRSLONG		FASTR1	200	1	1	Dither 1	4	4	2220.032	56254	3	SHORT(A)	MRSSHORT		FASTR1	200	1	1	Dither 1	4	4	2220.032	56254
	#	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	F560W	FASTR1	200	1	1	Dither 1	4	4	2220.032	56254																																																																																																																																		
	1	LONG(C)	MRSLONG		FASTR1	200	1	1	Dither 1	4	4	2220.032	56254																																																																																																																																		
	1	LONG(C)	MRSSHORT		FASTR1	200	1	1	Dither 1	4	4	2220.032	56254																																																																																																																																		
	2		IMAGER	F560W	FASTR1	200	1	1	Dither 1	4	4	2220.032	56254																																																																																																																																		
	2	MEDIUM(B)	MRSLONG		FASTR1	200	1	1	Dither 1	4	4	2220.032	56254																																																																																																																																		
	2	MEDIUM(B)	MRSSHORT		FASTR1	200	1	1	Dither 1	4	4	2220.032	56254																																																																																																																																		
	3		IMAGER	F560W	FASTR1	200	1	1	Dither 1	4	4	2220.032	56254																																																																																																																																		
	3	SHORT(A)	MRSLONG		FASTR1	200	1	1	Dither 1	4	4	2220.032	56254																																																																																																																																		
3	SHORT(A)	MRSSHORT		FASTR1	200	1	1	Dither 1	4	4	2220.032	56254																																																																																																																																			

Special Requirements

Group Observations 8, 9, 34 within 2 Days

Proposal 1762 - Observation 34 - Halfway to the peak: A bridge program to map coeval star formation and supermassive black hole gr...

Wed Dec 21 19:04:18 GMT 2022

Observation	Proposal 1762, Observation 34: COSMOS-BKG Diagnostic Status: Warning Observing Template: MIRI Medium Resolution Spectroscopy												
	(Visit 34:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.												
Fixed Targets	#	Name	Target Coordinates			Targ. Coord. Corrections			Miscellaneous				
	(10)	COSMOS-BKG	RA: 10 01 17.2640 (150.3219333d) Dec: +02 39 39.35 (2.66093d) Equinox: J2000 Comments: this is a background target for the 2 COSMOS sources Category=Galaxy Description=[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	2-Point			EXTENDED SOURCE			NEGATIVE					
Spectral Elements	#	Wavelength Range	Detector	Filter	Readout Pattern	Groups/Int	Integrations/E xp	Exposures/Dit h	Dither	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
	1		IMAGER	F560W	FASTR1	200	1	1	Dither 1	2	2	1110.016	56254
	1	LONG(C)	MRSLONG		FASTR1	200	1	1	Dither 1	2	2	1110.016	56254
	1	LONG(C)	MRSSHORT		FASTR1	200	1	1	Dither 1	2	2	1110.016	56254
	2		IMAGER	F560W	FASTR1	200	1	1	Dither 1	2	2	1110.016	56254
	2	MEDIUM(B)	MRSLONG		FASTR1	200	1	1	Dither 1	2	2	1110.016	56254
	2	MEDIUM(B)	MRSSHORT		FASTR1	200	1	1	Dither 1	2	2	1110.016	56254
	3		IMAGER	F560W	FASTR1	200	1	1	Dither 1	2	2	1110.016	56254
	3	SHORT(A)	MRSLONG		FASTR1	200	1	1	Dither 1	2	2	1110.016	56254
	3	SHORT(A)	MRSSHORT		FASTR1	200	1	1	Dither 1	2	2	1110.016	56254

Proposal 1762 - Observation 34 - Halfway to the peak: A bridge program to map coeval star formation and supermassive black hole gr...

Special Requirements

Group Observations 8, 9, 34 within 2 Days

Proposal 1762 - Observation 33 - Halfway to the peak: A bridge program to map coeval star formation and supermassive black hole gr...

Wed Dec 21 19:04:19 GMT 2022

<b>Observation</b>	<b>Proposal 1762, Observation 33: xFLSSSTJ172118z=0.555</b> <b>Diagnostic Status: Warning</b> Observing Template: MIRI Medium Resolution Spectroscopy Comments: Copy of observation 3																																																																																																																																													
	(Visit 33:1) Warning (Form): Data Excess over lower threshold (Visit 33:1) 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>(3)</td> <td>XFLS-SSTJ172118Z0.555</td> <td>RA: 17 21 18.3120 (260.3263000d) Dec: +58 46 1.56 (58.76710d) Equinox: J2000</td> <td></td> <td></td> </tr> </tbody> </table> Comments: FLS3 --- (also called FLS14135040) z=0.555 F(AGN) = 70% 1.68mJy 5.7um flux = 206uJy group 5 Category=Galaxy Description=[Ultraluminous infrared galaxies]												#	Name	Target Coordinates	Targ. Coord. Corrections	Miscellaneous	(3)	XFLS-SSTJ172118Z0.555	RA: 17 21 18.3120 (260.3263000d) Dec: +58 46 1.56 (58.76710d) Equinox: J2000																																																																																																																										
	#	Name	Target Coordinates	Targ. Coord. Corrections	Miscellaneous																																																																																																																																									
(3)	XFLS-SSTJ172118Z0.555	RA: 17 21 18.3120 (260.3263000d) Dec: +58 46 1.56 (58.76710d) Equinox: J2000																																																																																																																																												
<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>F560W</td> <td>FASTR1</td> <td>200</td> <td>1</td> <td>1</td> <td>Dither 1</td> <td>4</td> <td>4</td> <td>2220.032</td> <td>56254</td> </tr> <tr> <td>1</td> <td>SHORT(A)</td> <td>MRSLONG</td> <td></td> <td>FASTR1</td> <td>200</td> <td>1</td> <td>1</td> <td>Dither 1</td> <td>4</td> <td>4</td> <td>2220.032</td> <td>56254</td> </tr> <tr> <td>1</td> <td>SHORT(A)</td> <td>MRSSSHORT</td> <td></td> <td>FASTR1</td> <td>200</td> <td>1</td> <td>1</td> <td>Dither 1</td> <td>4</td> <td>4</td> <td>2220.032</td> <td>56254</td> </tr> <tr> <td>2</td> <td></td> <td>IMAGER</td> <td>F560W</td> <td>FASTR1</td> <td>200</td> <td>1</td> <td>1</td> <td>Dither 1</td> <td>4</td> <td>4</td> <td>2220.032</td> <td>56254</td> </tr> <tr> <td>2</td> <td>MEDIUM(B)</td> <td>MRSLONG</td> <td></td> <td>FASTR1</td> <td>200</td> <td>1</td> <td>1</td> <td>Dither 1</td> <td>4</td> <td>4</td> <td>2220.032</td> <td>56254</td> </tr> <tr> <td>2</td> <td>MEDIUM(B)</td> <td>MRSSSHORT</td> <td></td> <td>FASTR1</td> <td>200</td> <td>1</td> <td>1</td> <td>Dither 1</td> <td>4</td> <td>4</td> <td>2220.032</td> <td>56254</td> </tr> <tr> <td>3</td> <td></td> <td>IMAGER</td> <td>F560W</td> <td>FASTR1</td> <td>200</td> <td>1</td> <td>1</td> <td>Dither 1</td> <td>4</td> <td>4</td> <td>2220.032</td> <td>56254</td> </tr> <tr> <td>3</td> <td>LONG(C)</td> <td>MRSLONG</td> <td></td> <td>FASTR1</td> <td>200</td> <td>1</td> <td>1</td> <td>Dither 1</td> <td>4</td> <td>4</td> <td>2220.032</td> <td>56254</td> </tr> <tr> <td>3</td> <td>LONG(C)</td> <td>MRSSSHORT</td> <td></td> <td>FASTR1</td> <td>200</td> <td>1</td> <td>1</td> <td>Dither 1</td> <td>4</td> <td>4</td> <td>2220.032</td> <td>56254</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	F560W	FASTR1	200	1	1	Dither 1	4	4	2220.032	56254	1	SHORT(A)	MRSLONG		FASTR1	200	1	1	Dither 1	4	4	2220.032	56254	1	SHORT(A)	MRSSSHORT		FASTR1	200	1	1	Dither 1	4	4	2220.032	56254	2		IMAGER	F560W	FASTR1	200	1	1	Dither 1	4	4	2220.032	56254	2	MEDIUM(B)	MRSLONG		FASTR1	200	1	1	Dither 1	4	4	2220.032	56254	2	MEDIUM(B)	MRSSSHORT		FASTR1	200	1	1	Dither 1	4	4	2220.032	56254	3		IMAGER	F560W	FASTR1	200	1	1	Dither 1	4	4	2220.032	56254	3	LONG(C)	MRSLONG		FASTR1	200	1	1	Dither 1	4	4	2220.032	56254	3	LONG(C)	MRSSSHORT		FASTR1	200	1	1	Dither 1	4	4	2220.032	56254
	#	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	200	1	1	Dither 1	4	4	2220.032	56254																																																																																																																																	
	1	SHORT(A)	MRSLONG		FASTR1	200	1	1	Dither 1	4	4	2220.032	56254																																																																																																																																	
	1	SHORT(A)	MRSSSHORT		FASTR1	200	1	1	Dither 1	4	4	2220.032	56254																																																																																																																																	
	2		IMAGER	F560W	FASTR1	200	1	1	Dither 1	4	4	2220.032	56254																																																																																																																																	
	2	MEDIUM(B)	MRSLONG		FASTR1	200	1	1	Dither 1	4	4	2220.032	56254																																																																																																																																	
	2	MEDIUM(B)	MRSSSHORT		FASTR1	200	1	1	Dither 1	4	4	2220.032	56254																																																																																																																																	
	3		IMAGER	F560W	FASTR1	200	1	1	Dither 1	4	4	2220.032	56254																																																																																																																																	
	3	LONG(C)	MRSLONG		FASTR1	200	1	1	Dither 1	4	4	2220.032	56254																																																																																																																																	
3	LONG(C)	MRSSSHORT		FASTR1	200	1	1	Dither 1	4	4	2220.032	56254																																																																																																																																		