



3743 - You (Don't?) Spin Me Round: Resolving Disk Formation in High-Redshift Dusty Starburst Galaxies

Cycle: 2, Proposal Category: GO

INVESTIGATORS

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OBSERVATIONS

<i>Folder</i>	<i>Observation</i>	<i>Label</i>	<i>Observing Template</i>	<i>Science Target</i>
SPT0202-61				

JWST Proposal 3743 (Created: Friday, January 19, 2024 at 2:00:35 PM Eastern Standard Time) - Overview

<i>Folder</i>	<i>Observation</i>	<i>Label</i>	<i>Observing Template</i>	<i>Science Target</i>
	1	SPT0202-61 NIRSpec IFU	NIRSpec IFU Spectroscopy	(1) SPT0202-61
	2	SPT0202-61 MIRI Imaging	MIRI Imaging	(1) SPT0202-61
	3	SPT0202-61 NIRCAM Imaging	NIRCam Imaging	(1) SPT0202-61
SPT0345-47				
	4	SPT0345-47 NIRSpec IFU	NIRSpec IFU Spectroscopy	(2) SPT0345-47
	5	SPT0345-47 MIRI Imaging	MIRI Imaging	(2) SPT0345-47
	6	SPT0345-47 NIRCAM Imaging	NIRCam Imaging	(2) SPT0345-47
SPT0441-46				
	7	SPT0441-46 NIRSpec IFU	NIRSpec IFU Spectroscopy	(3) SPT0441-46
	8	SPT0441-46 MIRI Imaging	MIRI Imaging	(3) SPT0441-46
	48	SPT0441-46 MIRI Imaging	MIRI Imaging	(3) SPT0441-46
	9	SPT0441-46 NIRCAM Imaging	NIRCam Imaging	(3) SPT0441-46
SPT2146-55				
	13	SPT2146-55 NIRSpec IFU	NIRSpec IFU Spectroscopy	(5) SPT2146-55
	14	SPT2146-55 MIRI Imaging	MIRI Imaging	(5) SPT2146-55
	15	SPT2146-55 NIRCAM Imaging	NIRCam Imaging	(5) SPT2146-55
SPT2132-58				
	10	SPT2132-58 NIRSpec IFU	NIRSpec IFU Spectroscopy	(4) SPT2132-58
	11	SPT2132-58 MIRI Imaging	MIRI Imaging	(4) SPT2132-58
	51	SPT2132-58 MIRI Imaging	MIRI Imaging	(4) SPT2132-58

<i>Folder</i>	<i>Observation</i>	<i>Label</i>	<i>Observing Template</i>	<i>Science Target</i>
	12	SPT2132-58 NIRCAM Imaging	NIRCam Imaging	(4) SPT2132-58

ABSTRACT

The most rapidly star-forming galaxies in the early universe are ubiquitously obscured by dust. Over the last decade, consensus emerged that nearly all such dusty starbursts were the result of gas-rich major mergers that triggered the intense star formation and rapid dust production. Recent ALMA observations have challenged this view, finding kinematics consistent with secular rotation-dominated kinematics in the cold atomic gas. These controversial findings have drawn scrutiny from both observational and theoretical perspectives, with explanations ranging from mismatched comparisons with lower-redshift galaxies to unexpected consequences of cosmological gas accretion. We propose to address this controversy head-on, using NIRSpec IFU observations of H-alpha in five $z\sim 4-5$ galaxies with existing high-resolution ALMA CII 158um data supplemented by inexpensive imaging to map the stellar light. Our observations will give an independent constraint on the galaxy kinematics using a different gas tracer that also avoids the complexities of interferometric ALMA data. We will make the first direct comparisons of the level of turbulent support between the warm ionized and cold neutral gas phases in individual galaxies at $z>4$, pushing the frontier of large $1<z<3$ ground-based samples to the first ~ 1 Gyr after the Big Bang. Together, the combination of deep, high-resolution JWST IFU and imaging data and ALMA CII and dust observations will settle recent controversies in the starburst galaxy kinematics and enable a novel multi-wavelength view of the stars, warm and cold gas, and dust in rapidly-assembling high-redshift galaxies.

OBSERVING DESCRIPTION

We are proposing for 5 targets at $z>4$ to study ionized gas kinematics at high redshift.

All 5 targets will use NIRSpec IFU with Grating/Filter: G395H/290LP, Readout: NRSIRS2, 4-8 cycling dither points.

Tot. exp. time 9ks-15ks depending on expected H-alpha flux. [Aimed at spectrally and spatially resolved detection of H-alpha]

A single exposure of MSA leak cal is proposed similar to the GTO teams' proposal to find any bright sources near stuck open MSA shutters.

Dedicated background exposures are not proposed as continuum measurement in NIRSpec is not the main goal of the proposal. None of the observations are background limited.

NIRCam Imaging is proposed with 3 filters to help partially constrain stellar mass. We will use only module B with 4 primary dithers (INTRASCA).

Filters: F200W+F356W, Readout: BRIGHT2

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Filters: F200W+F444W, Readout: RAPID

Exposure times are decided to detect the lensed source at LW with SNR greater than 5

MIRI Imaging with 3 filters (F560W, F770W, F1000W) is further proposed to constrain stellar masses up to 0.2 dex. 4 point dither cycling optimized for extended source will be used.

Proposal 3743 - Targets - You (Don't?) Spin Me Round: Resolving Disk Formation in High-Redshift Dusty Starburst Galaxies

#	Name	Target Coordinates	Targ. Coord. Corrections	Miscellaneous
(1)	SPT0202-61	RA: 02 02 58.8740 (30.7453083d) Dec: -61 21 11.10 (-61.35308d) Equinox: J2000		
<i>Comments:</i> <i>Category=Galaxy</i> <i>Description=[Starburst galaxies]</i> <i>Extended=YES</i>				
(2)	SPT0345-47	RA: 03 45 10.7405 (56.2947521d) Dec: -47 25 39.66 (-47.42768d) Equinox: J2000		
<i>Comments:</i> <i>Category=Galaxy</i> <i>Description=[Starburst galaxies]</i> <i>Extended=YES</i>				
(3)	SPT0441-46	RA: 04 41 44.0866 (70.4336942d) Dec: -46 05 25.03 (-46.09029d) Equinox: J2000		
<i>Comments:</i> <i>Category=Galaxy</i> <i>Description=[Starburst galaxies]</i> <i>Extended=YES</i>				
(4)	SPT2132-58	RA: 21 32 43.2215 (323.1800896d) Dec: -58 02 46.12 (-58.04614d) Equinox: J2000		
<i>Comments:</i> <i>Category=Galaxy</i> <i>Description=[Starburst galaxies]</i> <i>Extended=YES</i>				
(5)	SPT2146-55	RA: 21 46 54.0470 (326.7251958d) Dec: -55 07 54.44 (-55.13179d) Equinox: J2000		
<i>Comments:</i> <i>Category=Galaxy</i> <i>Description=[Starburst galaxies]</i> <i>Extended=YES</i>				

Fixed Targets

Proposal 3743 - Observation 1 - You (Don't?) Spin Me Round: Resolving Disk Formation in High-Redshift Dusty Starburst Galaxies

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Observation	Proposal 3743, Observation 1: SPT0202-61 NIRSpec IFU Diagnostic Status: Warning Observing Template: NIRSpec IFU Spectroscopy																																															
	(Visit 1:1) 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>(1)</td> <td>SPT0202-61</td> <td>RA: 02 02 58.8740 (30.7453083d) Dec: -61 21 11.10 (-61.35308d) Equinox: J2000</td> <td></td> <td></td> </tr> </tbody> </table>												#	Name	Target Coordinates	Targ. Coord. Corrections	Miscellaneous	(1)	SPT0202-61	RA: 02 02 58.8740 (30.7453083d) Dec: -61 21 11.10 (-61.35308d) Equinox: J2000																												
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Template	TA Method																																															
	VERIFY_ONLY																																															
Dithers	<table border="1"> <thead> <tr> <th>#</th> <th>Dither Type</th> <th>Size</th> <th>Starting Point</th> <th>Number of Points</th> <th>Points</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>CYCLING</td> <td>MEDIUM</td> <td>1</td> <td>12</td> <td></td> </tr> </tbody> </table>												#	Dither Type	Size	Starting Point	Number of Points	Points	1	CYCLING	MEDIUM	1	12																									
	#	Dither Type	Size	Starting Point	Number of Points	Points																																										
1	CYCLING	MEDIUM	1	12																																												
Pointing Verification	<table border="1"> <thead> <tr> <th>#</th> <th>PV MSA Configuration</th> <th>Filter</th> <th>PV Readout Pattern</th> <th>PV Groups/Int</th> <th>PV Integrations/Exp</th> <th>PV Total Dithers</th> <th>PV Total Integrations</th> <th>PV Total Exposure Time</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>ALLCLOSED</td> <td>F140X</td> <td>NRSRAPID</td> <td>3</td> <td>1</td> <td>1</td> <td>1</td> <td>42.947</td> </tr> </tbody> </table>												#	PV MSA Configuration	Filter	PV Readout Pattern	PV Groups/Int	PV Integrations/Exp	PV Total Dithers	PV Total Integrations	PV Total Exposure Time	1	ALLCLOSED	F140X	NRSRAPID	3	1	1	1	42.947																		
	#	PV MSA Configuration	Filter	PV Readout Pattern	PV Groups/Int	PV Integrations/Exp	PV Total Dithers	PV Total Integrations	PV Total Exposure Time																																							
1	ALLCLOSED	F140X	NRSRAPID	3	1	1	1	42.947																																								
Spectral Elements	<table border="1"> <thead> <tr> <th>#</th> <th>Grating/Filter</th> <th>Readout Pattern</th> <th>Groups/Int</th> <th>Integrations/Exp</th> <th>Leakcal</th> <th>Dither</th> <th>Autocal</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>G395H/F290LP</td> <td>NRSIRS2</td> <td>18</td> <td>1</td> <td>false</td> <td>true</td> <td>NONE</td> <td>12</td> <td>12</td> <td>15931.068</td> <td>145050.1</td> </tr> <tr> <td>2</td> <td>G395H/F290LP</td> <td>NRSIRS2</td> <td>18</td> <td>1</td> <td>true</td> <td>false</td> <td>NONE</td> <td>1</td> <td>1</td> <td>1327.589</td> <td></td> </tr> </tbody> </table>												#	Grating/Filter	Readout Pattern	Groups/Int	Integrations/Exp	Leakcal	Dither	Autocal	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID	1	G395H/F290LP	NRSIRS2	18	1	false	true	NONE	12	12	15931.068	145050.1	2	G395H/F290LP	NRSIRS2	18	1	true	false	NONE	1	1	1327.589	
	#	Grating/Filter	Readout Pattern	Groups/Int	Integrations/Exp	Leakcal	Dither	Autocal	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID																																				
	1	G395H/F290LP	NRSIRS2	18	1	false	true	NONE	12	12	15931.068	145050.1																																				
2	G395H/F290LP	NRSIRS2	18	1	true	false	NONE	1	1	1327.589																																						

Proposal 3743 - Observation 2 - You (Don't?) Spin Me Round: Resolving Disk Formation in High-Redshift Dusty Starburst Galaxies

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Observation	Proposal 3743, Observation 2: SPT0202-61 MIRI Imaging Diagnostic Status: Warning Observing Template: MIRI Imaging										
Diagnostics	(Visit 2:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.										
Fixed Targets	#	Name	Target Coordinates			Targ. Coord. Corrections		Miscellaneous			
	(1)	SPT0202-61	RA: 02 02 58.8740 (30.7453083d) Dec: -61 21 11.10 (-61.35308d) Equinox: J2000								
	Comments: Category=Galaxy Description=[Starburst galaxies] Extended=YES										
Template	Subarray										
	FULL										
Dithers	#	Dither Type	Starting Point	Number of Points	Points	Starting Set	Number of Sets	Optimized For	Direction	Pattern Size	
	1	4-Point-Sets				6	1	EXTENDED SOURCE	POSITIVE	DEFAULT	
Spectral Elements	#	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Exposures/Dith	Dither	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
	1	F560W	FASTR1	50	1	1	Dither 1	4	4	555.008	
	2	F770W	FASTR1	55	1	1	Dither 1	4	4	610.509	
	3	F1000W	FASTR1	70	1	1	Dither 1	4	4	777.011	

Proposal 3743 - Observation 3 - You (Don't?) Spin Me Round: Resolving Disk Formation in High-Redshift Dusty Starburst Galaxies

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Observation	<p>Proposal 3743, Observation 3: SPT0202-61 NIRCAM Imaging</p> <p>Diagnostic Status: Warning</p> <p>Observing Template: NIRCAM Imaging</p>									
Diagnostics	(Visit 3:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.									
Fixed Targets	#	Name	Target Coordinates		Targ. Coord. Corrections			Miscellaneous		
	(1)	SPT0202-61	RA: 02 02 58.8740 (30.7453083d) Dec: -61 21 11.10 (-61.35308d) Equinox: J2000							
	<p><i>Comments:</i> <i>Category=Galaxy</i> <i>Description=[Starburst galaxies]</i> <i>Extended=YES</i></p>									
Template	Module		Subarray			Target Placement				
	ALL		FULL			Module Gap				
Dithers	#	Primary Dither Type		Primary Dithers	Subpixel Dither Type		Dither Size	Subpixel Positions		
	1	INTRASCA		4	STANDARD		8" (SMALL)	1		
Spectral Elements	#	Short Filter	Long Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Dithers	Total Exposure Time	ETC Wkbk.Calc ID
	1	F200W	F356W	BRIGHT2	10	1	4	4	858.942	
	2	F200W	F444W	BRIGHT1	10	1	4	4	815.995	
Special Requirements	<p>Aperture PA Range 51.9286469 to 60.9286469 Degrees (V3 52.0 to 61.0) Aperture PA Range 68.9286469 to 69.9286469 Degrees (V3 69.0 to 70.0) Aperture PA Range 74.9286469 to 161.9286469 Degrees (V3 75.0 to 162.0) Aperture PA Range 172.9286469 to 175.9286469 Degrees (V3 173.0 to 176.0) Aperture PA Range 177.9286469 to 179.9286469 Degrees (V3 178.0 to 180.0) Aperture PA Range 184.9286469 to 271.9286469 Degrees (V3 185.0 to 272.0) Aperture PA Range 280.9286469 to 342.9286469 Degrees (V3 281.0 to 343.0) Aperture PA Range 347.9286469 to 350.9286469 Degrees (V3 348.0 to 351.0) Aperture PA Range 356.9286469 to 45.9286469 Degrees (V3 357.0 to 46.0) Offset -60.75458270676721 arcsec, 35.78063540408274 arcsec</p>									

Proposal 3743 - Observation 4 - You (Don't?) Spin Me Round: Resolving Disk Formation in High-Redshift Dusty Starburst Galaxies

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Observation	Proposal 3743, Observation 4: SPT0345-47 NIRSpec IFU Diagnostic Status: Warning Observing Template: NIRSpec IFU Spectroscopy											
	(Visit 4:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.											
Fixed Targets	#	Name	Target Coordinates			Targ. Coord. Corrections			Miscellaneous			
	(2)	SPT0345-47	RA: 03 45 10.7405 (56.2947521d) Dec: -47 25 39.66 (-47.42768d) Equinox: J2000									
<i>Comments:</i> Category=Galaxy Description=[Starburst galaxies] Extended=YES												
Template	TA Method											
	VERIFY_ONLY											
Dithers	#	Dither Type		Size	Starting Point		Number of Points	Points				
	1	CYCLING		MEDIUM	1		8					
Pointing Verification	#	PV MSA Configuration	Filter	PV Readout Pattern	PV Groups/Int	PV Integrations/Exp	PV Total Dithers	PV Total Integrations	PV Total Exposure Time			
	1	ALLCLOSED	F140X	NRSRAPID	3	1	1	1	42.947			
Spectral Elements	#	Grating/Filter	Readout Pattern	Groups/Int	Integrations/Exp	Leakcal	Dither	Autocal	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
	1	G395H/F290LP	NRSIRS2	17	1	false	true	NONE	8	8	10037.156	143341.1
	2	G395H/F290LP	NRSIRS2	17	1	true	false	NONE	1	1	1254.645	

Proposal 3743 - Observation 4 - You (Don't?) Spin Me Round: Resolving Disk Formation in High-Redshift Dusty Starburst Galaxies

Special Requirements

Aperture PA Range 121.97164917 to 126.97164917 Degrees (V3 343.0 to 348.0)
Aperture PA Range 166.97164917 to 80.97164917 Degrees (V3 28.0 to 302.0)

Proposal 3743 - Observation 5 - You (Don't?) Spin Me Round: Resolving Disk Formation in High-Redshift Dusty Starburst Galaxies

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Observation	<p>Proposal 3743, Observation 5: SPT0345-47 MIRI Imaging</p> <p>Diagnostic Status: Warning</p> <p>Observing Template: MIRI Imaging</p>										
Diagnostics	(Visit 5:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.										
Fixed Targets	#	Name	Target Coordinates			Targ. Coord. Corrections		Miscellaneous			
	(2)	SPT0345-47	RA: 03 45 10.7405 (56.2947521d) Dec: -47 25 39.66 (-47.42768d) Equinox: J2000								
	<p><i>Comments:</i> <i>Category=Galaxy</i> <i>Description=[Starburst galaxies]</i> <i>Extended=YES</i></p>										
Template	<p>Subarray</p> <p>FULL</p>										
Dithers	#	Dither Type	Starting Point	Number of Points	Points	Starting Set	Number of Sets	Optimized For	Direction	Pattern Size	
	1	4-Point-Sets				6	1	EXTENDED SOURCE	POSITIVE	DEFAULT	
Spectral Elements	#	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Exposures/Dith	Dither	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
	1	F560W	FASTR1	50	1	1	Dither 1	4	4	555.008	
	2	F770W	FASTR1	55	1	1	Dither 1	4	4	610.509	
	3	F1000W	FASTR1	70	1	1	Dither 1	4	4	777.011	

Proposal 3743 - Observation 6 - You (Don't?) Spin Me Round: Resolving Disk Formation in High-Redshift Dusty Starburst Galaxies

Fri Jan 19 19:00:35 GMT 2024

Observation	<p>Proposal 3743, Observation 6: SPT0345-47 NIRCAM Imaging</p> <p>Diagnostic Status: Warning</p> <p>Observing Template: NIRCAM Imaging</p>									
Diagnostics	(Visit 6:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.									
Fixed Targets	#	Name	Target Coordinates		Targ. Coord. Corrections			Miscellaneous		
	(2)	SPT0345-47	RA: 03 45 10.7405 (56.2947521d) Dec: -47 25 39.66 (-47.42768d) Equinox: J2000							
	<p><i>Comments:</i> <i>Category=Galaxy</i> <i>Description=[Starburst galaxies]</i> <i>Extended=YES</i></p>									
Template	Module		Subarray			Target Placement				
	ALL		FULL			Module Gap				
Dithers	#	Primary Dither Type		Primary Dithers	Subpixel Dither Type		Dither Size	Subpixel Positions		
	1	INTRASCA		4	STANDARD		8" (SMALL)	1		
Spectral Elements	#	Short Filter	Long Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Dithers	Total Exposure Time	ETC Wkbk.Calc ID
	1	F200W	F356W	BRIGHT2	8	1	4	4	687.153	
	2	F200W	F444W	BRIGHT1	7	1	4	4	558.312	
Special Requirements	<p>Aperture PA Range 228.9286469 to 237.9286469 Degrees (V3 229.0 to 238.0) Aperture PA Range 243.9286469 to 343.9286469 Degrees (V3 244.0 to 344.0) Aperture PA Range 352.9286469 to 219.9286469 Degrees (V3 353.0 to 220.0) Offset -60.75458270676721 arcsec, 35.78063540408274 arcsec</p>									

Proposal 3743 - Observation 7 - You (Don't?) Spin Me Round: Resolving Disk Formation in High-Redshift Dusty Starburst Galaxies

Fri Jan 19 19:00:35 GMT 2024

Observation	<p>Proposal 3743, Observation 7: SPT0441-46 NIRSpec IFU</p> <p>Diagnostic Status: Warning</p> <p>Observing Template: NIRSpec IFU Spectroscopy</p>											
Diagnostics	(Visit 7:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.											
Fixed Targets	#	Name	Target Coordinates			Targ. Coord. Corrections			Miscellaneous			
	(3)	SPT0441-46	RA: 04 41 44.0866 (70.4336942d) Dec: -46 05 25.03 (-46.09029d) Equinox: J2000									
	<p><i>Comments:</i> Category=Galaxy Description=[Starburst galaxies] Extended=YES</p>											
Template	<p>TA Method</p> <p>VERIFY_ONLY</p>											
Dithers	#	Dither Type		Size	Starting Point		Number of Points		Points			
	1	CYCLING		MEDIUM	1		12					
Pointing Verification	#	PV MSA Configuration	Filter	PV Readout Pattern	PV Groups/Int	PV Integrations/Exp	PV Total Dithers	PV Total Integrations	PV Total Exposure Time			
	1	ALLCLOSED	F140X	NRSRAPID	3	1	1	1	42.947			
Spectral Elements	#	Grating/Filter	Readout Pattern	Groups/Int	Integrations/Exp	Leakcal	Dither	Autocal	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
	1	G395H/F290LP	NRSIRS2	18	1	false	true	NONE	12	12	15931.068	143452.1
	2	G395H/F290LP	NRSIRS2	18	1	true	false	NONE	1	1	1327.589	

Proposal 3743 - Observation 7 - You (Don't?) Spin Me Round: Resolving Disk Formation in High-Redshift Dusty Starburst Galaxies

Special Requirements

Aperture PA Range 15.97164917 to 18.97164917 Degrees (V3 237.0 to 240.0)
Aperture PA Range 54.97164917 to 73.97164917 Degrees (V3 276.0 to 295.0)
Aperture PA Range 105.97164917 to 114.97164917 Degrees (V3 327.0 to 336.0)
Aperture PA Range 148.97164917 to 341.97164917 Degrees (V3 10.0 to 203.0)

Proposal 3743 - Observation 8 - You (Don't?) Spin Me Round: Resolving Disk Formation in High-Redshift Dusty Starburst Galaxies

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Observation	Proposal 3743, Observation 8: SPT0441-46 MIRI Imaging Diagnostic Status: Warning Observing Template: MIRI Imaging										
Diagnostics	(Visit 8:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.										
Fixed Targets	#	Name	Target Coordinates			Targ. Coord. Corrections		Miscellaneous			
	(3)	SPT0441-46	RA: 04 41 44.0866 (70.4336942d) Dec: -46 05 25.03 (-46.09029d) Equinox: J2000								
	Comments: Category=Galaxy Description=[Starburst galaxies] Extended=YES										
Template	Subarray										
	FULL										
Dithers	#	Dither Type	Starting Point	Number of Points	Points	Starting Set	Number of Sets	Optimized For	Direction	Pattern Size	
	1	4-Point-Sets				6	1	EXTENDED SOURCE	POSITIVE	DEFAULT	
Spectral Elements	#	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Exposures/Dith	Dither	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
	1	F560W	FASTR1	50	1	1	Dither 1	4	4	555.008	
	2	F770W	FASTR1	55	1	1	Dither 1	4	4	610.509	
	3	F1000W	FASTR1	70	1	1	Dither 1	4	4	777.011	

Proposal 3743 - Observation 48 - You (Don't?) Spin Me Round: Resolving Disk Formation in High-Redshift Dusty Starburst Galaxies

Fri Jan 19 19:00:35 GMT 2024

Observation	Proposal 3743, Observation 48: SPT0441-46 MIRI Imaging Diagnostic Status: Warning Observing Template: MIRI Imaging										
Diagnostics	(Visit 48:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.										
Fixed Targets	#	Name	Target Coordinates			Targ. Coord. Corrections		Miscellaneous			
	(3)	SPT0441-46	RA: 04 41 44.0866 (70.4336942d) Dec: -46 05 25.03 (-46.09029d) Equinox: J2000								
	Comments: Category=Galaxy Description=[Starburst galaxies] Extended=YES										
Template	Subarray										
	FULL										
Dithers	#	Dither Type	Starting Point	Number of Points	Points	Starting Set	Number of Sets	Optimized For	Direction	Pattern Size	
	1	4-Point-Sets				6	1	EXTENDED SOURCE	POSITIVE	DEFAULT	
Spectral Elements	#	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Exposures/Dith	Dither	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
	1	F560W	FASTR1	50	1	1	Dither 1	4	4	555.008	
	2	F770W	FASTR1	55	1	1	Dither 1	4	4	610.509	
	3	F1000W	FASTR1	70	1	1	Dither 1	4	4	777.011	

Proposal 3743 - Observation 9 - You (Don't?) Spin Me Round: Resolving Disk Formation in High-Redshift Dusty Starburst Galaxies

Fri Jan 19 19:00:35 GMT 2024

Observation	<p>Proposal 3743, Observation 9: SPT0441-46 NIRCAM Imaging</p> <p>Diagnostic Status: Warning</p> <p>Observing Template: NIRCAM Imaging</p>									
Diagnostics	(Visit 9:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.									
Fixed Targets	#	Name	Target Coordinates			Targ. Coord. Corrections		Miscellaneous		
	(3)	SPT0441-46	RA: 04 41 44.0866 (70.4336942d) Dec: -46 05 25.03 (-46.09029d) Equinox: J2000							
	<p><i>Comments:</i> <i>Category=Galaxy</i> <i>Description=[Starburst galaxies]</i> <i>Extended=YES</i></p>									
Template	Module		Subarray			Target Placement				
	ALL		FULL			Module Gap				
Dithers	#	Primary Dither Type		Primary Dithers	Subpixel Dither Type		Dither Size	Subpixel Positions		
	1	INTRASCA		4	STANDARD		8" (SMALL)	1		
Spectral Elements	#	Short Filter	Long Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Dithers	Total Exposure Time	ETC Wkbk.Calc ID
	1	F200W	F356W	BRIGHT2	8	1	4	4	687.153	
	2	F200W	F444W	BRIGHT1	10	1	4	4	815.995	
Special Requirements	<p>Aperture PA Range 0.9286469 to 21.9286469 Degrees (V3 1.0 to 22.0) Aperture PA Range 28.9286469 to 39.9286469 Degrees (V3 29.0 to 40.0) Aperture PA Range 50.9286469 to 52.9286469 Degrees (V3 51.0 to 53.0) Aperture PA Range 55.9286469 to 81.9286469 Degrees (V3 56.0 to 82.0) Aperture PA Range 94.9286469 to 99.9286469 Degrees (V3 95.0 to 100.0) Aperture PA Range 110.9286469 to 179.9286469 Degrees (V3 111.0 to 180.0) Aperture PA Range 183.9286469 to 214.9286469 Degrees (V3 184.0 to 215.0) Aperture PA Range 227.9286469 to 229.9286469 Degrees (V3 228.0 to 230.0) Aperture PA Range 241.9286469 to 355.9286469 Degrees (V3 242.0 to 356.0) Offset -60.75458270676721 arcsec, 35.78063540408274 arcsec</p>									

Proposal 3743 - Observation 13 - You (Don't?) Spin Me Round: Resolving Disk Formation in High-Redshift Dusty Starburst Galaxies

Observation	Proposal 3743, Observation 13: SPT2146-55 NIRSpec IFU Fri Jan 19 19:00:35 GMT 2024 Diagnostic Status: Warning Observing Template: NIRSpec IFU Spectroscopy																																														
	(Visit 13:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.																																														
Fixed Targets	<table border="1" style="width: 100%; border-collapse: collapse;"> <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>SPT2146-55</td> <td>RA: 21 46 54.0470 (326.7251958d) Dec: -55 07 54.44 (-55.13179d) Equinox: J2000</td> <td></td> <td></td> </tr> </tbody> </table> <p><i>Comments:</i> Category=Galaxy Description=[Starburst galaxies] Extended=YES</p>											#	Name	Target Coordinates	Targ. Coord. Corrections	Miscellaneous	(5)	SPT2146-55	RA: 21 46 54.0470 (326.7251958d) Dec: -55 07 54.44 (-55.13179d) Equinox: J2000																												
	#	Name	Target Coordinates	Targ. Coord. Corrections	Miscellaneous																																										
(5)	SPT2146-55	RA: 21 46 54.0470 (326.7251958d) Dec: -55 07 54.44 (-55.13179d) Equinox: J2000																																													
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	#	Dither Type	Size	Starting Point	Number of Points	Points																																									
1	CYCLING	MEDIUM	1	11																																											
Pointing Verification	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>#</th> <th>PV MSA Configuration</th> <th>Filter</th> <th>PV Readout Pattern</th> <th>PV Groups/Int</th> <th>PV Integrations/Exp</th> <th>PV Total Dithers</th> <th>PV Total Integrations</th> <th>PV Total Exposure Time</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>ALLCLOSED</td> <td>F140X</td> <td>NRSRAPID</td> <td>3</td> <td>1</td> <td>1</td> <td>1</td> <td>42.947</td> </tr> </tbody> </table>											#	PV MSA Configuration	Filter	PV Readout Pattern	PV Groups/Int	PV Integrations/Exp	PV Total Dithers	PV Total Integrations	PV Total Exposure Time	1	ALLCLOSED	F140X	NRSRAPID	3	1	1	1	42.947																		
	#	PV MSA Configuration	Filter	PV Readout Pattern	PV Groups/Int	PV Integrations/Exp	PV Total Dithers	PV Total Integrations	PV Total Exposure Time																																						
1	ALLCLOSED	F140X	NRSRAPID	3	1	1	1	42.947																																							
Spectral Elements	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>#</th> <th>Grating/Filter</th> <th>Readout Pattern</th> <th>Groups/Int</th> <th>Integrations/Exp</th> <th>Leakcal</th> <th>Dither</th> <th>Autocal</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>G395H/F290LP</td> <td>NRSIRS2</td> <td>18</td> <td>1</td> <td>false</td> <td>true</td> <td>NONE</td> <td>11</td> <td>11</td> <td>14603.479</td> <td>143453.1</td> </tr> <tr> <td>2</td> <td>G395H/F290LP</td> <td>NRSIRS2</td> <td>18</td> <td>1</td> <td>true</td> <td>false</td> <td>NONE</td> <td>1</td> <td>1</td> <td>1327.589</td> <td></td> </tr> </tbody> </table>											#	Grating/Filter	Readout Pattern	Groups/Int	Integrations/Exp	Leakcal	Dither	Autocal	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID	1	G395H/F290LP	NRSIRS2	18	1	false	true	NONE	11	11	14603.479	143453.1	2	G395H/F290LP	NRSIRS2	18	1	true	false	NONE	1	1	1327.589	
	#	Grating/Filter	Readout Pattern	Groups/Int	Integrations/Exp	Leakcal	Dither	Autocal	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID																																			
	1	G395H/F290LP	NRSIRS2	18	1	false	true	NONE	11	11	14603.479	143453.1																																			
2	G395H/F290LP	NRSIRS2	18	1	true	false	NONE	1	1	1327.589																																					

Proposal 3743 - Observation 13 - You (Don't?) Spin Me Round: Resolving Disk Formation in High-Redshift Dusty Starburst Galaxies

Special Requirements

Aperture PA Range 88.97164917 to 98.97164917 Degrees (V3 310.0 to 320.0)
Aperture PA Range 189.97164917 to 220.97164917 Degrees (V3 51.0 to 82.0)
Aperture PA Range 258.97164917 to 266.97164917 Degrees (V3 120.0 to 128.0)
Aperture PA Range 303.97164917 to 357.97164917 Degrees (V3 165.0 to 219.0)

Proposal 3743 - Observation 14 - You (Don't?) Spin Me Round: Resolving Disk Formation in High-Redshift Dusty Starburst Galaxies

Fri Jan 19 19:00:35 GMT 2024

Observation	<p>Proposal 3743, Observation 14: SPT2146-55 MIRI Imaging</p> <p>Diagnostic Status: Warning</p> <p>Observing Template: MIRI Imaging</p>										
Diagnostics	(Visit 14:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.										
Fixed Targets	#	Name	Target Coordinates			Targ. Coord. Corrections		Miscellaneous			
	(5)	SPT2146-55	RA: 21 46 54.0470 (326.7251958d) Dec: -55 07 54.44 (-55.13179d) Equinox: J2000								
	<p><i>Comments:</i> <i>Category=Galaxy</i> <i>Description=[Starburst galaxies]</i> <i>Extended=YES</i></p>										
Template	<p>Subarray</p> <p>FULL</p>										
Dithers	#	Dither Type	Starting Point	Number of Points	Points	Starting Set	Number of Sets	Optimized For	Direction	Pattern Size	
	1	4-Point-Sets				6	1	EXTENDED SOURCE	POSITIVE	DEFAULT	
Spectral Elements	#	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Exposures/Dith	Dither	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
	1	F560W	FASTR1	50	1	1	Dither 1	4	4	555.008	
	2	F770W	FASTR1	55	1	1	Dither 1	4	4	610.509	
	3	F1000W	FASTR1	70	1	1	Dither 1	4	4	777.011	

Proposal 3743 - Observation 15 - You (Don't?) Spin Me Round: Resolving Disk Formation in High-Redshift Dusty Starburst Galaxies

Fri Jan 19 19:00:35 GMT 2024

Observation	<p>Proposal 3743, Observation 15: SPT2146-55 NIRCAM Imaging</p> <p>Diagnostic Status: Warning</p> <p>Observing Template: NIRCAM Imaging</p>									
Diagnostics	(Visit 15:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.									
Fixed Targets	#	Name	Target Coordinates		Targ. Coord. Corrections			Miscellaneous		
	(5)	SPT2146-55	RA: 21 46 54.0470 (326.7251958d) Dec: -55 07 54.44 (-55.13179d) Equinox: J2000							
	<p><i>Comments:</i> <i>Category=Galaxy</i> <i>Description=[Starburst galaxies]</i> <i>Extended=YES</i></p>									
Template	Module		Subarray			Target Placement				
	ALL		FULL			Module Gap				
Dithers	#	Primary Dither Type		Primary Dithers	Subpixel Dither Type		Dither Size	Subpixel Positions		
	1	INTRASCA		4	STANDARD		8" (SMALL)	1		
Spectral Elements	#	Short Filter	Long Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Dithers	Total Exposure Time	ETC Wkbk.Calc ID
	1	F200W	F356W	BRIGHT2	10	1	4	4	858.942	
	2	F200W	F444W	BRIGHT1	10	1	4	4	815.995	
Special Requirements	<p>Aperture PA Range 135.9286469 to 143.9286469 Degrees (V3 136.0 to 144.0)</p> <p>Aperture PA Range 148.9286469 to 162.9286469 Degrees (V3 149.0 to 163.0)</p> <p>Aperture PA Range 167.9286469 to 224.9286469 Degrees (V3 168.0 to 225.0)</p> <p>Aperture PA Range 228.9286469 to 234.9286469 Degrees (V3 229.0 to 235.0)</p> <p>Aperture PA Range 264.9286469 to 265.9286469 Degrees (V3 265.0 to 266.0)</p> <p>Aperture PA Range 271.9286469 to 296.9286469 Degrees (V3 272.0 to 297.0)</p> <p>Aperture PA Range 302.9286469 to 125.9286469 Degrees (V3 303.0 to 126.0)</p> <p>Offset -60.75458270676721 arcsec, 35.78063540408274 arcsec</p>									

Proposal 3743 - Observation 10 - You (Don't?) Spin Me Round: Resolving Disk Formation in High-Redshift Dusty Starburst Galaxies

Observation	Proposal 3743, Observation 10: SPT2132-58 NIRSpec IFU Fri Jan 19 19:00:35 GMT 2024 Diagnostic Status: Warning Observing Template: NIRSpec IFU Spectroscopy																																														
	(Visit 10:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.																																														
Fixed Targets	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>#</th> <th>Name</th> <th>Target Coordinates</th> <th>Targ. Coord. Corrections</th> <th>Miscellaneous</th> </tr> </thead> <tbody> <tr> <td>(4)</td> <td>SPT2132-58</td> <td>RA: 21 32 43.2215 (323.1800896d) Dec: -58 02 46.12 (-58.04614d) Equinox: J2000</td> <td></td> <td></td> </tr> </tbody> </table> <p><i>Comments:</i> Category=Galaxy Description=[Starburst galaxies] Extended=YES</p>											#	Name	Target Coordinates	Targ. Coord. Corrections	Miscellaneous	(4)	SPT2132-58	RA: 21 32 43.2215 (323.1800896d) Dec: -58 02 46.12 (-58.04614d) Equinox: J2000																												
	#	Name	Target Coordinates	Targ. Coord. Corrections	Miscellaneous																																										
(4)	SPT2132-58	RA: 21 32 43.2215 (323.1800896d) Dec: -58 02 46.12 (-58.04614d) Equinox: J2000																																													
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	#	Dither Type	Size	Starting Point	Number of Points	Points																																									
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	#	PV MSA Configuration	Filter	PV Readout Pattern	PV Groups/Int	PV Integrations/Exp	PV Total Dithers	PV Total Integrations	PV Total Exposure Time																																						
1	ALLCLOSED	F140X	NRSRAPID	3	1	1	1	42.947																																							
Spectral Elements	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>#</th> <th>Grating/Filter</th> <th>Readout Pattern</th> <th>Groups/Int</th> <th>Integrations/Exp</th> <th>Leakcal</th> <th>Dither</th> <th>Autocal</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>G395H/F290LP</td> <td>NRSIRS2</td> <td>17</td> <td>1</td> <td>false</td> <td>true</td> <td>NONE</td> <td>10</td> <td>10</td> <td>12546.445</td> <td>143455.1</td> </tr> <tr> <td>2</td> <td>G395H/F290LP</td> <td>NRSIRS2</td> <td>17</td> <td>1</td> <td>true</td> <td>false</td> <td>NONE</td> <td>1</td> <td>1</td> <td>1254.645</td> <td></td> </tr> </tbody> </table>											#	Grating/Filter	Readout Pattern	Groups/Int	Integrations/Exp	Leakcal	Dither	Autocal	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID	1	G395H/F290LP	NRSIRS2	17	1	false	true	NONE	10	10	12546.445	143455.1	2	G395H/F290LP	NRSIRS2	17	1	true	false	NONE	1	1	1254.645	
	#	Grating/Filter	Readout Pattern	Groups/Int	Integrations/Exp	Leakcal	Dither	Autocal	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID																																			
	1	G395H/F290LP	NRSIRS2	17	1	false	true	NONE	10	10	12546.445	143455.1																																			
2	G395H/F290LP	NRSIRS2	17	1	true	false	NONE	1	1	1254.645																																					

Proposal 3743 - Observation 10 - You (Don't?) Spin Me Round: Resolving Disk Formation in High-Redshift Dusty Starburst Galaxies

Special Requirements

Aperture PA Range 56.97164917 to 60.97164917 Degrees (V3 278.0 to 282.0)
Aperture PA Range 95.97164917 to 104.97164917 Degrees (V3 317.0 to 326.0)
Aperture PA Range 143.97164917 to 50.97164917 Degrees (V3 5.0 to 272.0)

Proposal 3743 - Observation 11 - You (Don't?) Spin Me Round: Resolving Disk Formation in High-Redshift Dusty Starburst Galaxies

Fri Jan 19 19:00:35 GMT 2024

Observation	<p>Proposal 3743, Observation 11: SPT2132-58 MIRI Imaging</p> <p>Diagnostic Status: Warning</p> <p>Observing Template: MIRI Imaging</p>										
Diagnostics	(Visit 11:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.										
Fixed Targets	#	Name	Target Coordinates			Targ. Coord. Corrections		Miscellaneous			
	(4)	SPT2132-58	RA: 21 32 43.2215 (323.1800896d) Dec: -58 02 46.12 (-58.04614d) Equinox: J2000								
	<p><i>Comments:</i> <i>Category=Galaxy</i> <i>Description=[Starburst galaxies]</i> <i>Extended=YES</i></p>										
Template	<p>Subarray</p> <p>FULL</p>										
Dithers	#	Dither Type	Starting Point	Number of Points	Points	Starting Set	Number of Sets	Optimized For	Direction	Pattern Size	
	1	4-Point-Sets				6	1	EXTENDED SOURCE	POSITIVE	DEFAULT	
Spectral Elements	#	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Exposures/Dith	Dither	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
	1	F560W	FASTR1	50	1	1	Dither 1	4	4	555.008	
	2	F770W	FASTR1	55	1	1	Dither 1	4	4	610.509	
	3	F1000W	FASTR1	70	1	1	Dither 1	4	4	777.011	

Proposal 3743 - Observation 51 - You (Don't?) Spin Me Round: Resolving Disk Formation in High-Redshift Dusty Starburst Galaxies

Fri Jan 19 19:00:35 GMT 2024

Observation	<p>Proposal 3743, Observation 51: SPT2132-58 MIRI Imaging</p> <p>Diagnostic Status: Warning</p> <p>Observing Template: MIRI Imaging</p>										
Diagnostics	(Visit 51:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.										
Fixed Targets	#	Name	Target Coordinates			Targ. Coord. Corrections		Miscellaneous			
	(4)	SPT2132-58	RA: 21 32 43.2215 (323.1800896d) Dec: -58 02 46.12 (-58.04614d) Equinox: J2000								
	<p><i>Comments:</i> <i>Category=Galaxy</i> <i>Description=[Starburst galaxies]</i> <i>Extended=YES</i></p>										
Template	<p>Subarray</p> <p>FULL</p>										
Dithers	#	Dither Type	Starting Point	Number of Points	Points	Starting Set	Number of Sets	Optimized For	Direction	Pattern Size	
	1	4-Point-Sets				6	1	EXTENDED SOURCE	POSITIVE	DEFAULT	
Spectral Elements	#	Filter	Readout Pattern	Groups/Int	Integrations/Exp	Exposures/Dith	Dither	Total Dithers	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
	1	F560W	FASTR1	50	1	1	Dither 1	4	4	555.008	
	2	F770W	FASTR1	55	1	1	Dither 1	4	4	610.509	
	3	F1000W	FASTR1	70	1	1	Dither 1	4	4	777.011	

Proposal 3743 - Observation 12 - You (Don't?) Spin Me Round: Resolving Disk Formation in High-Redshift Dusty Starburst Galaxies

Fri Jan 19 19:00:35 GMT 2024

Observation	<p>Proposal 3743, Observation 12: SPT2132-58 NIRCAM Imaging</p> <p>Diagnostic Status: Warning</p> <p>Observing Template: NIRCAM Imaging</p>									
Diagnostics	(Visit 12:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.									
Fixed Targets	#	Name	Target Coordinates		Targ. Coord. Corrections			Miscellaneous		
	(4)	SPT2132-58	RA: 21 32 43.2215 (323.1800896d)							
			Dec: -58 02 46.12 (-58.04614d)							
			Equinox: J2000							
	<p><i>Comments:</i></p> <p><i>Category=Galaxy</i></p> <p><i>Description=[Starburst galaxies]</i></p> <p><i>Extended=YES</i></p>									
Template	Module		Subarray			Target Placement				
	ALL		FULL			Module Gap				
Dithers	#	Primary Dither Type		Primary Dithers	Subpixel Dither Type		Dither Size	Subpixel Positions		
	1	INTRASCA		4	STANDARD		8" (SMALL)	1		
Spectral Elements	#	Short Filter	Long Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Dithers	Total Exposure Time	ETC Wkbk.Calc ID
	1	F200W	F356W	BRIGHT2	10	1	4	4	858.942	
	2	F200W	F444W	BRIGHT1	8	1	4	4	644.206	
Special Requirements	<p>Aperture PA Range 28.9286469 to 30.9286469 Degrees (V3 29.0 to 31.0)</p> <p>Aperture PA Range 34.9286469 to 36.9286469 Degrees (V3 35.0 to 37.0)</p> <p>Aperture PA Range 48.9286469 to 95.9286469 Degrees (V3 49.0 to 96.0)</p> <p>Aperture PA Range 112.9286469 to 115.9286469 Degrees (V3 113.0 to 116.0)</p> <p>Aperture PA Range 119.9286469 to 308.9286469 Degrees (V3 120.0 to 309.0)</p> <p>Aperture PA Range 314.9286469 to 19.9286469 Degrees (V3 315.0 to 20.0)</p> <p>Offset -60.75458270676721 arcsec, 35.78063540408274 arcsec</p>									