



## 6553 - MIRI imaging of merger-driven features in galaxy pair

Cycle: 2, Proposal Category: DD

### INVESTIGATORS

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Yesenia Perez (CoI)	Space Telescope Science Institute
Christine Pulliam (CoI)	Space Telescope Science Institute

### OBSERVATIONS

<i>Folder</i>	<i>Observation</i>	<i>Label</i>	<i>Observing Template</i>	<i>Science Target</i>
Galaxy_pair_CTR Imaging				
	1	Galaxy_pair_CTR MIR I	MIRI Imaging	(1) Galaxy_pair_CTR

### ABSTRACT

Galaxy mergers and interactions are important catalysts of star formation and a key process in galaxy evolution. We propose broadband MIR imaging of an interacting galaxy pair with the MIRI instrument, in filters F770W, F1130W, and F1500W. This wide mosaic will enable detection of small scale structures of both PAH and thermal dust emission in this system.

### OBSERVING DESCRIPTION

This proposal will use the MIRI imaging mode to obtain 3-band imaging of an interacting galaxy.

The selected MIRI filters are: F770W, F1130W, F1500W. In all cases we use a 6 points dither pattern with 10 groups and 3 integrations.

To cover the extent of the interacting pair we use a 2x4 mosaic.

The PA is restricted to ensure adequate coverage of the target.

Proposal 6553 - Targets - MIRI imaging of merger-driven features in galaxy pair

Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Miscellaneous
	(1)	Galaxy_pair_CTR	RA: 06 16 24.1886 (94.1007858d) Dec: -21 22 21.76 (-21.37271d) Equinox: J2000	Epoch of Position: 2000	
<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> <i>Category=Galaxy</i> <i>Description=[Interacting galaxies, Tidal tails]</i>					

Proposal 6553 - Observation 1 - MIRI imaging of merger-driven features in galaxy pair

Wed Dec 20 21:00:17 GMT 2023

<b>Observation</b>	<p>Proposal 6553, Observation 1: Galaxy_pair_CTR MIRI</p> <p><b>Diagnostic Status: Warning</b></p> <p>Observing Template: MIRI Imaging</p>																																																					
<b>Diagnostics</b>	<p>(Visit 1:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.</p> <p>(Visit 1:2) Warning (Form): Overheads are provisional until the Visit Planner has been run.</p> <p>(Visit 1:3) Warning (Form): Overheads are provisional until the Visit Planner has been run.</p> <p>(Visit 1:4) Warning (Form): Overheads are provisional until the Visit Planner has been run.</p> <p>(Visit 1:5) Warning (Form): Overheads are provisional until the Visit Planner has been run.</p> <p>(Visit 1:6) Warning (Form): Overheads are provisional until the Visit Planner has been run.</p> <p>(Visit 1:7) Warning (Form): Overheads are provisional until the Visit Planner has been run.</p> <p>(Visit 1:8) Warning (Form): Overheads are provisional until the Visit Planner has been run.</p>																																																					
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Special Requirements

Group Visits within 53.0 Days  
Aperture PA Range 4.83544897 to 49.83544897 Degrees (V3 0.0 to 45.0)  
Aperture PA Range 314.83544897 to 4.73544897 Degrees (V3 310.0 to 359.9)  
Visits Same PA