



1813 - Unveiling Stellar Light from Host Galaxies of $z \sim 6$ Quasars

Cycle: 1, Proposal Category: GO

INVESTIGATORS

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Ms. Victoria R Jones (CoI)	University of Arizona
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Dr. Stephen Matthew Wilkins (CoI) (ESA Member)	University of Sussex
Dr. Christopher Nicholas Andrew Willmer (CoI)	University of Arizona
Dr. Brent Matthew Smith (CoI)	Arizona State University
Yueying Ni (CoI)	Carnegie Mellon University

OBSERVATIONS

<i>Folder</i>	<i>Observation</i>	<i>Label</i>	<i>Observing Template</i>	<i>Science Target</i>
Observation Folder				
	1	QSO J2054	NIRCam Imaging	(2) QUASAR-SDSS-J2054-0005
	2	PSF J2130	NIRCam Imaging	(8) PSF-STAR-SDSS-J2130+0028
	3	QSO J0129	NIRCam Imaging	(3) QUASAR-SDSS-J0129-0035
	5	QSO J0129	NIRCam Imaging	(3) QUASAR-SDSS-J0129-0035
	4	PSF J0101	NIRCam Imaging	(10) PSF-STAR-SDSS-J0101+0007
	6	PSF J0101	NIRCam Imaging	(10) PSF-STAR-SDSS-J0101+0007
	56	PSF J0101	NIRCam Imaging	(10) PSF-STAR-SDSS-J0101+0007

ABSTRACT

We propose to observe two $z \sim 6$ quasars with NIRCam to prove the detectability of their host galaxies. High- z quasars outshine their hosts at rest frame UV/optical wavelengths. Observing the underlying host galaxy emission has eluded HST, even with advanced PSF-modelling techniques. However, detailed simulations predict that the improved resolution of JWST/NIRCam will result in successful detections of these host galaxies for the first time, with our observational strategy predicted to yield optimal detections. The two quasars selected for this pilot program were comprehensively studied with HST and ALMA, and are expected to have relatively low contrast between the quasar and host, improving detectability. The proposed pilot program will demonstrate the capability of JWST to observe high- z quasar host galaxies, and provide valuable insight into the growth of black holes and galaxies in the early Universe, and of the relationships between black holes and their host galaxies.

With these NIRCam data we will:

- (a) Characterize the rest frame UV/optical SEDs of these quasar host galaxies, determining their star formation histories and dust content
- (b) Determine the stellar mass of the hosts, allowing us to measure the black hole–stellar mass ratio for high- z quasars for the first time
- (c) Compare the stellar (JWST) and gas (ALMA) properties of the galaxies such as their star formation rates, sizes, morphologies and masses, to see the full picture of these host galaxies
- (d) Study the environments of these high- z quasars, photometrically identifying and characterizing any potential companion galaxies.

OBSERVING DESCRIPTION

We propose to obtain NIRCam photometry of the two quasars SDSS J0129-0035 at $z=5.78$ and SDSS J2054-0005 at $z=6.04$, with the aim of detecting and characterising their host galaxies. We will use the F150W, F200W, F277W, F356W and F444W filters, with exposure times of 7.5 ks

JWST Proposal 1813 (Created: Friday, August 18, 2023 at 12:00:38 PM Eastern Standard Time) - Overview

for the short-wavelength filters and 5 ks for the long-wavelength filters. These will be observed with the 8-point small-grid dither pattern for accurate sub-pixel sampling of the PSF.

Alongside these quasar observations, we will observe two stars to accurately characterize the instrument PSF, to be used for detailed point-source modelling of the quasar to detect the underlying host galaxy. These PSF stars SDSS J0132-0002 and SDSS J2130+0028 are chosen as they are M-type stars with colors very similar to those of the quasars, so as to minimize chromatic PSF errors. They are faint enough to be detected with the NIRCam full array, are close to the quasars on the sky, and are single stars with no nearby contaminating objects. These PSF stars will be observed directly after the quasar observations, and at the same position angle and similar position on the detector, to minimize any temporal or spatial variation in the PSF so that the quasar PSF is modelled as accurately as possible.

Proposal 1813 - Targets - Unveiling Stellar Light from Host Galaxies of z~6 Quasars

#	Name	Target Coordinates	Targ. Coord. Corrections	Miscellaneous	
(2)	QUASAR-SDSS-J2054-0005	RA: 20 54 6.4896 (313.5270400d) Dec: -00 05 14.78 (-.08744d) Equinox: J2000			
<p><i>Comments: This object was generated by the targetselector and retrieved from the NED database.</i> <i>Category=Galaxy</i> <i>Description=[Active galactic nuclei, High-redshift galaxies, Quasars]</i></p>					
(3)	QUASAR-SDSS-J0129-0035	RA: 01 29 58.5000 (22.4937500d) Dec: -00 35 39.00 (-.59417d) Equinox: J2000	Epoch of Position: 2015.5		
<p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> <i>Category=Galaxy</i> <i>Description=[Active galactic nuclei, High-redshift galaxies, Quasars]</i></p>					
Fixed Targets	(8)	PSF-STAR-SDSS-J2130+0028 RA: 21 30 48.0295 (322.7001229d) Dec: +00 28 56.51 (.48236d) Equinox: J2000	Proper Motion RA: -3.6787970368638227E-4 sec of time/yr Proper Motion Dec: -0.008643999922242074 arcsec/yr Epoch of Position: 2015.5		
	<p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> <i>Category=Star</i> <i>Description=[M stars]</i></p>				
	(9)	PSF-STAR-SDSS-J0132-0002 RA: 01 32 15.2600 (23.0635833d) Dec: -00 02 33.66 (-.04268d) Equinox: J2000	Proper Motion RA: 3.0813341883169387E-4 sec of time/yr Proper Motion Dec: 5.08E-4 arcsec/yr Epoch of Position: 2015.5		
	<p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> <i>Category=Star</i> <i>Description=[M stars]</i></p>				
(10)	PSF-STAR-SDSS-J0101+0007 RA: 01 01 3.0072 (15.2625300d) Dec: +00 07 27.84 (.12440d) Equinox: J2000	Proper Motion RA: 2.5086725797121773E-4 sec of time/yr Proper Motion Dec: -0.007425000057992293 arcsec/yr Epoch of Position: 2015.5			
<p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> <i>Category=Star</i> <i>Description=[M stars]</i></p>					

Proposal 1813 - Observation 1 - Unveiling Stellar Light from Host Galaxies of z~6 Quasars

Fri Aug 18 17:00:38 GMT 2023

Observation	<p>Proposal 1813, Observation 1: QSO J2054</p> <p>Diagnostic Status: Warning</p> <p>Observing Template: NIRCam Imaging</p>									
Diagnostics	<p>(Visit 1:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.</p> <p>(QSO J2054 (Obs 1)) Informational (Form): The Visit Planner and Spike may produce different schedulability results.</p>									
Fixed Targets	#	Name	Target Coordinates		Targ. Coord. Corrections			Miscellaneous		
	(2)	QUASAR-SDSS-J2054-0005	RA: 20 54 6.4896 (313.5270400d) Dec: -00 05 14.78 (-.08744d) Equinox: J2000							
	<p><i>Comments: This object was generated by the targetselector and retrieved from the NED database.</i></p> <p><i>Category=Galaxy</i></p> <p><i>Description=[Active galactic nuclei, High-redshift galaxies, Quasars]</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	NONE				SMALL-GRID-DITHER			8	
Spectral Elements	#	Short Filter	Long Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Dithers	Total Exposure Time	ETC Wkbk.Calc ID
	1	F150W	F277W	MEDIUM8	6	1	8	8	4981.861	57125
	2	F150W	F356W	SHALLOW4	6	1	8	8	2490.931	57125
	3	F200W	F356W	SHALLOW4	6	1	8	8	2490.931	57125
	4	F200W	F444W	MEDIUM8	6	1	8	8	4981.861	57125
Special Requirements	<p>Offset 55.0 arcsec, 35.0 arcsec</p> <p>Sequence Observations 1, 2, Non-interruptible</p> <p>Same V3 PA 1, 2 (Aperture PAs differ)</p>									

Proposal 1813 - Observation 2 - Unveiling Stellar Light from Host Galaxies of z~6 Quasars

Fri Aug 18 17:00:38 GMT 2023

Observation	<p>Proposal 1813, Observation 2: PSF J2130</p> <p>Diagnostic Status: Warning</p> <p>Observing Template: NIRCam Imaging</p>									
Diagnostics	<p>(Visit 2:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.</p> <p>(PSF J2130 (Obs 2)) Informational (Form): The Visit Planner and Spike may produce different schedulability results.</p>									
Fixed Targets	#	Name	Target Coordinates			Targ. Coord. Corrections			Miscellaneous	
	(8)	PSF-STAR-SDSS-J2130+0028	RA: 21 30 48.0295 (322.7001229d) Dec: +00 28 56.51 (.48236d) Equinox: J2000			Proper Motion RA: -3.6787970368638227E-4 sec of time/yr Proper Motion Dec: -0.008643999922242074 arcsec/yr Epoch of Position: 2015.5				
	<p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i></p> <p><i>Category=Star</i></p> <p><i>Description=[M stars]</i></p>									
Template	Module		Subarray				Target Placement			
	B		FULL				Module Gap			
Dithers	#	Primary Dither Type		Primary Dithers		Subpixel Dither Type		Dither Size	Subpixel Positions	
	1	NONE				SMALL-GRID-DITHER			8	
Spectral Elements	#	Short Filter	Long Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Dithers	Total Exposure Time	ETC Wkbk.Calc ID
	1	F150W	F277W	RAPID	2	3	24	8	687.153	57124
	2	F150W	F356W	RAPID	2	2	16	8	429.471	57124
	3	F200W	F356W	RAPID	2	1	8	8	171.788	57124
	4	F200W	F444W	RAPID	2	4	32	8	944.836	57124
Special Requirements	<p>Offset -26.705 arcsec, 37.979 arcsec</p> <p>Sequence Observations 1, 2, Non-interruptible</p> <p>Same V3 PA 1, 2 (Aperture PAs differ)</p>									

Proposal 1813 - Observation 3 - Unveiling Stellar Light from Host Galaxies of z~6 Quasars

Fri Aug 18 17:00:38 GMT 2023

Observation	<p>Proposal 1813, Observation 3: QSO J0129</p> <p>Diagnostic Status: Warning</p> <p>Observing Template: NIRCam Imaging</p>																																																											
Diagnostics	<p>(Visit 3:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.</p> <p>(QSO J0129 (Obs 3)) Informational (Form): The Visit Planner and Spike may produce different schedulability results.</p>																																																											
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Special Requirements	<p>Offset 55.0 arcsec, 35.0 arcsec</p> <p>Sequence Observations 3, 4, Non-interruptible</p> <p>Same V3 PA 3, 4 (Aperture PAs differ)</p>																																																											

Proposal 1813 - Observation 5 - Unveiling Stellar Light from Host Galaxies of z~6 Quasars

Fri Aug 18 17:00:38 GMT 2023

Observation	<p>Proposal 1813, Observation 5: QSO J0129</p> <p>Diagnostic Status: Warning</p> <p>Observing Template: NIRCam Imaging</p>									
Diagnostics	<p>(Visit 5:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.</p> <p>(QSO J0129 (Obs 5)) Informational (Form): The Visit Planner and Spike may produce different schedulability results.</p>									
Fixed Targets	#	Name	Target Coordinates		Targ. Coord. Corrections			Miscellaneous		
	(3)	QUASAR-SDSS-J0129-0035	RA: 01 29 58.5000 (22.4937500d) Dec: -00 35 39.00 (-.59417d) Equinox: J2000		Epoch of Position: 2015.5					
	<p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i></p> <p><i>Category=Galaxy</i></p> <p><i>Description=[Active galactic nuclei, High-redshift galaxies, Quasars]</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	NONE				SMALL-GRID-DITHER			8	
Spectral Elements	#	Short Filter	Long Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Dithers	Total Exposure Time	ETC Wkbk.Calc ID
	1	F150W	F277W	MEDIUM8	6	1	8	8	4981.861	57125
	2	F150W	F356W	SHALLOW4	6	1	8	8	2490.931	57125
	3	F200W	F356W	SHALLOW4	6	1	8	8	2490.931	57125
	4	F200W	F444W	MEDIUM8	6	1	8	8	4981.861	57125
Special Requirements	<p>Offset 55.0 arcsec, 35.0 arcsec</p> <p>Sequence Observations 5, 6, Non-interruptible</p> <p>Same V3 PA 5, 6 (Aperture PAs differ)</p>									

Proposal 1813 - Observation 4 - Unveiling Stellar Light from Host Galaxies of z~6 Quasars

Fri Aug 18 17:00:38 GMT 2023

Observation	<p>Proposal 1813, Observation 4: PSF J0101</p> <p>Diagnostic Status: Warning</p> <p>Observing Template: NIRCcam Imaging</p>																																																											
Diagnostics	<p>(Visit 4:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.</p> <p>(PSF J0101 (Obs 4)) Informational (Form): The Visit Planner and Spike may produce different schedulability results.</p>																																																											
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Special Requirements	<p>Offset -26.705 arcsec, 37.979 arcsec</p> <p>Sequence Observations 3, 4, Non-interruptible</p> <p>Same V3 PA 3, 4 (Aperture PAs differ)</p>																																																											

Proposal 1813 - Observation 6 - Unveiling Stellar Light from Host Galaxies of z~6 Quasars

Fri Aug 18 17:00:38 GMT 2023

Observation	<p>Proposal 1813, Observation 6: PSF J0101</p> <p>Diagnostic Status: Warning</p> <p>Observing Template: NIRCcam Imaging</p>																																																											
Diagnostics	<p>(Visit 6:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.</p> <p>(PSF J0101 (Obs 6)) Informational (Form): The Visit Planner and Spike may produce different schedulability results.</p>																																																											
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>(10)</td> <td>PSF-STAR-SDSS-J0101+0007</td> <td>RA: 01 01 3.0072 (15.2625300d) Dec: +00 07 27.84 (.12440d) Equinox: J2000</td> <td>Proper Motion RA: 2.5086725797121773E-4 sec of time/yr Proper Motion Dec: -0.007425000057992293 arcsec/yr Epoch of Position: 2015.5</td> <td></td> </tr> </tbody> </table> <p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> <i>Category=Star</i> <i>Description=[M stars]</i></p>										#	Name	Target Coordinates	Targ. Coord. Corrections	Miscellaneous	(10)	PSF-STAR-SDSS-J0101+0007	RA: 01 01 3.0072 (15.2625300d) Dec: +00 07 27.84 (.12440d) Equinox: J2000	Proper Motion RA: 2.5086725797121773E-4 sec of time/yr Proper Motion Dec: -0.007425000057992293 arcsec/yr Epoch of Position: 2015.5																																									
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Template	<table border="1"> <thead> <tr> <th>Module</th> <th>Subarray</th> <th>Target Placement</th> </tr> </thead> <tbody> <tr> <td>B</td> <td>FULL</td> <td>Module Gap</td> </tr> </tbody> </table>										Module	Subarray	Target Placement	B	FULL	Module Gap																																												
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Spectral Elements	<table border="1"> <thead> <tr> <th>#</th> <th>Short Filter</th> <th>Long Filter</th> <th>Readout Pattern</th> <th>Groups/Int</th> <th>Integrations/Exp</th> <th>Total Integrations</th> <th>Total Dithers</th> <th>Total Exposure Time</th> <th>ETC Wkbk.Calc ID</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>F150W</td> <td>F277W</td> <td>RAPID</td> <td>2</td> <td>3</td> <td>24</td> <td>8</td> <td>687.153</td> <td>57124</td> </tr> <tr> <td>2</td> <td>F150W</td> <td>F356W</td> <td>RAPID</td> <td>2</td> <td>2</td> <td>16</td> <td>8</td> <td>429.471</td> <td>57124</td> </tr> <tr> <td>3</td> <td>F200W</td> <td>F356W</td> <td>RAPID</td> <td>2</td> <td>1</td> <td>8</td> <td>8</td> <td>171.788</td> <td>57124</td> </tr> <tr> <td>4</td> <td>F200W</td> <td>F444W</td> <td>RAPID</td> <td>2</td> <td>3</td> <td>24</td> <td>8</td> <td>687.153</td> <td>57124</td> </tr> </tbody> </table>										#	Short Filter	Long Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Dithers	Total Exposure Time	ETC Wkbk.Calc ID	1	F150W	F277W	RAPID	2	3	24	8	687.153	57124	2	F150W	F356W	RAPID	2	2	16	8	429.471	57124	3	F200W	F356W	RAPID	2	1	8	8	171.788	57124	4	F200W	F444W	RAPID	2	3	24	8	687.153	57124
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Special Requirements	<p>Offset -26.705 arcsec, 37.979 arcsec</p> <p>Sequence Observations 5, 6, Non-interruptible</p> <p>Same V3 PA 5, 6 (Aperture PAs differ)</p>																																																											

Proposal 1813 - Observation 56 - Unveiling Stellar Light from Host Galaxies of z~6 Quasars

Fri Aug 18 17:00:38 GMT 2023

Observation	<p>Proposal 1813, Observation 56: PSF J0101</p> <p>Diagnostic Status: Warning</p> <p>Observing Template: NIRCam Imaging</p> <p><i>Comments: Repeat of failed Obs 06</i></p>									
Diagnostics	(Visit 56:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.									
Fixed Targets	#	Name	Target Coordinates			Targ. Coord. Corrections			Miscellaneous	
	(10)	PSF-STAR-SDSS-J0101+0007	RA: 01 01 3.0072 (15.2625300d) Dec: +00 07 27.84 (.12440d) Equinox: J2000			Proper Motion RA: 2.5086725797121773E-4 sec of time/yr Proper Motion Dec: -0.007425000057992293 arcsec/yr Epoch of Position: 2015.5				
	<p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i></p> <p>Category=Star</p> <p>Description=[M stars]</p>									
Template	Module		Subarray				Target Placement			
	B		FULL				Module Gap			
Dithers	#	Primary Dither Type		Primary Dithers		Subpixel Dither Type		Dither Size	Subpixel Positions	
	1	NONE				SMALL-GRID-DITHER			8	
Spectral Elements	#	Short Filter	Long Filter	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Dithers	Total Exposure Time	ETC Wkbk.Calc ID
	1	F150W	F277W	RAPID	2	3	24	8	687.153	57124
	2	F150W	F356W	RAPID	2	2	16	8	429.471	57124
	3	F200W	F356W	RAPID	2	1	8	8	171.788	57124
	4	F200W	F444W	RAPID	2	3	24	8	687.153	57124
Special Requirements	Offset -26.705 arcsec, 37.979 arcsec									