



# 15829 - Probing Black Hole/Galaxy Co-Evolution at Cosmic Dawn in High Definition with a Gravitationally Lensed Quasar

Cycle: 27, Proposal Category: GO  
(Availability Mode: SUPPORTED)

## INVESTIGATORS

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## VISITS

<i>Visit</i>	<i>Targets used in Visit</i>	<i>Configurations used in Visit</i>	<i>Orbits Used</i>	<i>Last Orbit Planner Run</i>	<i>OP Current with Visit?</i>
01	(1) J0439+1634	WFC3/IR	1	21-Apr-2020 12:00:24.0	yes
02	(1) J0439+1634	WFC3/IR	1	21-Apr-2020 12:00:28.0	yes
03	(1) J0439+1634	WFC3/IR	1	21-Apr-2020 12:00:31.0	yes

<i>Visit</i>	<i>Targets used in Visit</i>	<i>Configurations used in Visit</i>	<i>Orbits Used</i>	<i>Last Orbit Planner Run</i>	<i>OP Current with Visit?</i>
04	(1) J0439+1634	WFC3/IR	1	21-Apr-2020 12:00:36.0	yes
05	(1) J0439+1634	WFC3/IR	1	21-Apr-2020 12:00:39.0	yes
06	(1) J0439+1634	WFC3/IR	1	21-Apr-2020 12:00:43.0	yes
H6	(1) J0439+1634	WFC3/IR	1	21-Apr-2020 12:00:46.0	yes
07	(1) J0439+1634	WFC3/IR	1	21-Apr-2020 12:00:50.0	yes
H7	(1) J0439+1634	WFC3/IR	1	21-Apr-2020 12:00:54.0	yes
08	(1) J0439+1634	WFC3/IR	1	21-Apr-2020 12:00:57.0	yes
H8	(1) J0439+1634	WFC3/IR	1	21-Apr-2020 12:01:00.0	yes
09	(2) PSF0439+1636	WFC3/IR	1	21-Apr-2020 12:01:04.0	yes

12 Total Orbits Used

## **ABSTRACT**

Gravitational lensing brightens the images of quasars by a significant amount and provides a powerful probe of the physical properties of quasar population and their host galaxies. At  $z=6.51$ , recently discovered quasar J0439 is the most distant gravitationally lensed quasar known and the first such object detected at the epoch of reionization. Shallow HST/ACS observations reveal a compact lensing system, with Einstein ring radius of 0.2" and a high magnification factor of 51 for the central point source. J0439 is the brightest quasar observed at both optical and far-infrared wavelengths, indicating strong black hole (BH) accretion activities accompanied by a powerful starburst with an intrinsic star formation rate  $SFR > 1000$  solar mass per year. A shallow, low resolution ALMA image has resolved the lensed quasar host into a 1"-long arc. We propose to carry out deep HST/WFC3 F125W and F160W imaging to study the quasar host galaxy. It will detect and spatially resolved the rest-frame UV radiation from the host galaxy, allowing measurements of its unobscured star formation rate and size. The combination of the new HST observations with approved deep ALMA observations will measure the host galaxy SED, and, further aided by the extra resolution gain from lensing magnification, probe star formation and dust obscuration in its nuclear region. With additional multi-wavelength observations from X-ray through radio, J0439 will provide a unique laboratory to study BH/galaxy co-evolution at cosmic dawn in unprecedented detail. In particular, future JWST observations would probe the ISM kinematics in this starburst/quasar system within the BH sphere of influence.

## **OBSERVING DESCRIPTION**

We aim at imaging the host galaxy of a most distant known gravitationally lensed quasar J0439 in the rest frame UV to explore the star formation in its host. The proposed HST observations providing the indispensable UV imaging will allow the investigation of a quasar host galaxy at such early Universe in unprecedented detail.

### 1. Configuration and Exposure time.

The goal of HST observations is to detect the host galaxy and to study the light profile of the host galaxy in the rest frame UV. We also want to constrain the UV slope, so at least two filters are needed. Compared with the broader filters (e.g., WFC3/F140W), the relative narrow filters would minimize the PSF subtraction uncertainties introduced by the different SED shape between our target and the PSF star. Therefore, we choose WFC3/F125W (J) and WFC3/F160W (H), which represent the wavelengths around the rest frame 1660 Å and 2130 Å, respectively.

With the spatial resolution in these two bands (diffraction limit of  $\sim 0.1$ - $0.15$  arcsec), the host galaxy will be resolved. The lensed host galaxy of J0439 will make it easier to subtract the PSF and detect the host galaxy. In order to reach the accurate PSF subtraction (see details below), we will observe one PSF star in these two bands. The observing strategies for PSF star and target are exactly the same in order to get the most accurate PSF subtraction. We request 8 orbits for the science target and 1 orbit for the PSF star. We need 9 orbits for our WFC3/IR F125W and F160W observations in total.

### 2. PSF subtraction.

The main challenge of host galaxy observation is accurate PSF subtraction. For this, we will closely follow the successful observing strategy used in Mechtley et al. (2012) for the observations of another quasar J1148+5251 ( $z=6.42$ ). We will devote one orbit to the observation of the PSF star. To minimize thermal variations due to spacecraft attitude, we constrain our PSF star to be within 2 deg of the target quasar, and require that the quasar and PSF star observations will be collected in contiguous orbits. We will alternate between J and H filter observations in the primary orbits, and match the exact same filter sequence and dithering pattern in the PSF orbit, further minimize the temporal and positional PSF variation.

We selected the PSF star to match the quasar's near-infrared colors ( $J= 16.52$ ,  $J-H = 0.52$ ,  $H-K = 0.90$ , in Vega) as closely as possible. We selected the star 2MASS 043956.29+163605.2 ( $J= 16.96$ ,  $J-H = 0.43$ ,  $H-K_s=0.87$ , in Vega). This will ensure optimal calibration by minimizing any color, positional or temporal variation of the PSF shape as well as achieving high S/N of the PSF measurement.

The PSF model will be constructed both from the PSF star and Tinytim software.

We will fit and subtract PSF model following the strategies of Mechtley et al. (2012), which used Markov Chain Monte Carlo parameter estimation

Proposal 15829 (STScI Edit Number: 1, Created: Tuesday, April 21, 2020 at 11:01:05 AM Eastern Standard Time) - Overview and simultaneous modeling of the point source and host galaxy and/or using galfit (Peng et al. 2010) to subtract PSF model.

### 3. Reduced Gyro mode

The reduced gyro mode resulting on reduced field of regard and limited spatial scan speed will not affect our program. Our program focuses on fixed target.

Proposal 15829 - J0439 (01) - Probing Black Hole/Galaxy Co-Evolution at Cosmic Dawn in High Definition with a Gravitationally Lense...

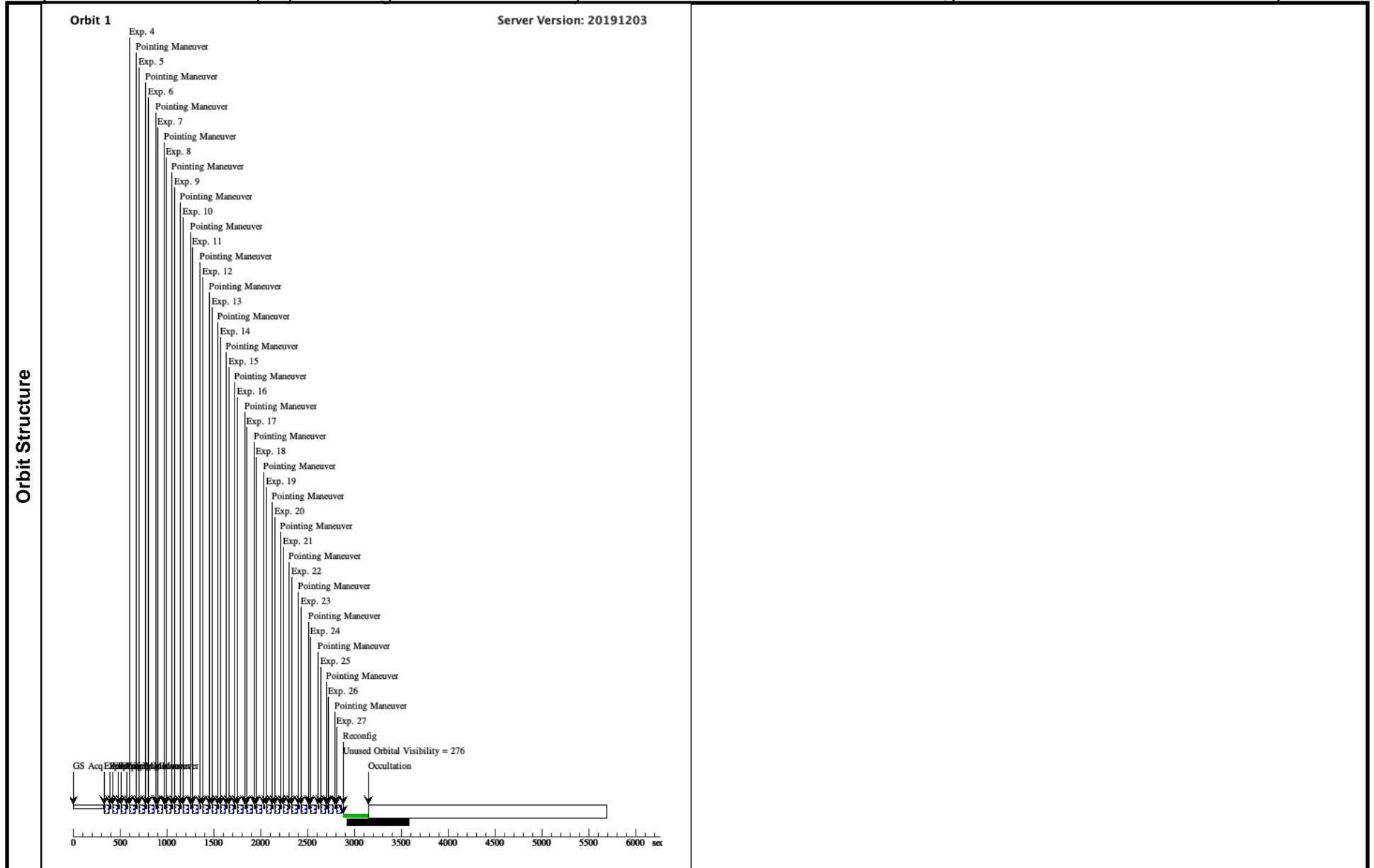
<b>Visit</b>	Proposal 15829, J0439 (01), completed <span style="float: right;">Tue Apr 21 16:01:05 GMT 2020</span> Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: (none)					
	<b>Fixed Targets</b>	<b>#</b>	<b>Name</b>	<b>Target Coordinates</b>	<b>Targ. Coord. Corrections</b>	<b>Fluxes</b>
(1)		J0439+1634	RA: 04 39 47.0980 (69.9462417d) Dec: +16 34 15.82 (16.57106d) Equinox: J2000		V=(?) J_Vega = 16.52	Reference Frame: ICRS
	Comments: Category=GALAXY Description=[QUASAR]					

Proposal 15829 - J0439 (01) - Probing Black Hole/Galaxy Co-Evolution at Cosmic Dawn in High Definition with a Gravitationally Lense...

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]		Orbit
Exposures	1	J Dither 1	(1) J0439+1634	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F125W	SAMP-SEQ=SPARS 25; NSAMP=2	POS TARG -6.233,-2.1798	Sequence 1-27 Non-Int in J0439 (01)	23.774278 Secs (23.774 Secs)	[1]
	2	J Dither 1	(1) J0439+1634	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F125W	SAMP-SEQ=SPARS 25; NSAMP=2	POS TARG -2.439,-2.1798	Sequence 1-27 Non-Int in J0439 (01)	23.774278 Secs (23.774 Secs)	[1]
	3	J Dither 1	(1) J0439+1634	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F125W	SAMP-SEQ=SPARS 25; NSAMP=2	POS TARG 2.439,-2.1798	Sequence 1-27 Non-Int in J0439 (01)	23.774278 Secs (23.774 Secs)	[1]
	4	H Dither 1	(1) J0439+1634	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F160W	SAMP-SEQ=STEP2 5; NSAMP=6	POS TARG 6.233,2.1798	Sequence 1-27 Non-Int in J0439 (01)	36.754642 Secs (36.755 Secs)	[1]
	5	H Dither 1	(1) J0439+1634	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F160W	SAMP-SEQ=STEP2 5; NSAMP=6	POS TARG 2.439,2.1798	Sequence 1-27 Non-Int in J0439 (01)	36.754642 Secs (36.755 Secs)	[1]
	6	H Dither 1	(1) J0439+1634	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F160W	SAMP-SEQ=STEP2 5; NSAMP=6	POS TARG -2.439,2.1798	Sequence 1-27 Non-Int in J0439 (01)	36.754642 Secs (36.755 Secs)	[1]
	7	J Dither 2	(1) J0439+1634	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F125W	SAMP-SEQ=SPARS 25; NSAMP=2	POS TARG -4.93942,-1.70092	Sequence 1-27 Non-Int in J0439 (01)	23.774278 Secs (23.774 Secs)	[1]
	8	J Dither 2	(1) J0439+1634	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F125W	SAMP-SEQ=SPARS 25; NSAMP=2	POS TARG -1.14542,-1.70092	Sequence 1-27 Non-Int in J0439 (01)	23.774278 Secs (23.774 Secs)	[1]
	9	J Dither 2	(1) J0439+1634	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F125W	SAMP-SEQ=SPARS 25; NSAMP=2	POS TARG 3.73258,-1.70092	Sequence 1-27 Non-Int in J0439 (01)	23.774278 Secs (23.774 Secs)	[1]
	10	H Dither 2	(1) J0439+1634	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F160W	SAMP-SEQ=STEP2 5; NSAMP=6	POS TARG 7.52658,2.65868	Sequence 1-27 Non-Int in J0439 (01)	36.754642 Secs (36.755 Secs)	[1]
	11	H Dither 2	(1) J0439+1634	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F160W	SAMP-SEQ=STEP2 5; NSAMP=6	POS TARG 3.73258,2.65868	Sequence 1-27 Non-Int in J0439 (01)	36.754642 Secs (36.755 Secs)	[1]
	12	H Dither 2	(1) J0439+1634	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F160W	SAMP-SEQ=STEP2 5; NSAMP=6	POS TARG -1.14542,2.65868	Sequence 1-27 Non-Int in J0439 (01)	36.754642 Secs (36.755 Secs)	[1]
	13	J Dither 3	(1) J0439+1634	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F125W	SAMP-SEQ=SPARS 25; NSAMP=2	POS TARG -7.52658,-2.65868	Sequence 1-27 Non-Int in J0439 (01)	23.774278 Secs (23.774 Secs)	[1]
	14	J Dither 3	(1) J0439+1634	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F125W	SAMP-SEQ=SPARS 25; NSAMP=2	POS TARG -3.73258,-2.65868	Sequence 1-27 Non-Int in J0439 (01)	23.774278 Secs (23.774 Secs)	[1]
	15	J Dither 3	(1) J0439+1634	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F125W	SAMP-SEQ=SPARS 25; NSAMP=2	POS TARG 1.14542,-2.65868	Sequence 1-27 Non-Int in J0439 (01)	23.774278 Secs (23.774 Secs)	[1]
	16	H Dither 3	(1) J0439+1634	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F160W	SAMP-SEQ=STEP2 5; NSAMP=6	POS TARG 4.93942,1.70092	Sequence 1-27 Non-Int in J0439 (01)	36.754642 Secs (36.755 Secs)	[1]

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17	H Dither 3	(1) J0439+1634	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F160W	SAMP-SEQ=STEP2 5; NSAMP=6	POS TARG 1.14542, 1.70092	Sequence 1-27 Non-Int in J0439 (01)	36.754642 Secs (36.755 Secs) [==>]	[1]
18	H Dither 3	(1) J0439+1634	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F160W	SAMP-SEQ=STEP2 5; NSAMP=6	POS TARG -3.7325 8,1.70092	Sequence 1-27 Non-Int in J0439 (01)	36.754642 Secs (36.755 Secs) [==>]	[1]
19	J Dither 4	(1) J0439+1634	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F125W	SAMP-SEQ=SPARS 25; NSAMP=2	POS TARG -5.6971 8,-3.33591	Sequence 1-27 Non-Int in J0439 (01)	23.774278 Secs (23.774 Secs) [==>]	[1]
20	J Dither 4	(1) J0439+1634	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F125W	SAMP-SEQ=SPARS 25; NSAMP=2	POS TARG -1.9031 8,-1.02369	Sequence 1-27 Non-Int in J0439 (01)	23.774278 Secs (23.774 Secs) [==>]	[1]
21	J Dither 4	(1) J0439+1634	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F125W	SAMP-SEQ=SPARS 25; NSAMP=2	POS TARG 2.97482, -3.33591	Sequence 1-27 Non-Int in J0439 (01)	23.774278 Secs (23.774 Secs) [==>]	[1]
22	H Dither 4	(1) J0439+1634	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F160W	SAMP-SEQ=STEP2 5; NSAMP=6	POS TARG 6.76882, 1.02369	Sequence 1-27 Non-Int in J0439 (01)	36.754642 Secs (36.755 Secs) [==>]	[1]
23	H Dither 4	(1) J0439+1634	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F160W	SAMP-SEQ=STEP2 5; NSAMP=6	POS TARG 2.97482, 1.02369	Sequence 1-27 Non-Int in J0439 (01)	36.754642 Secs (36.755 Secs) [==>]	[1]
24	H Dither 4	(1) J0439+1634	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F160W	SAMP-SEQ=STEP2 5; NSAMP=6	POS TARG -1.9031 8,1.02369	Sequence 1-27 Non-Int in J0439 (01)	36.754642 Secs (36.755 Secs) [==>]	[1]
25	J Dither 5	(1) J0439+1634	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F125W	SAMP-SEQ=SPARS 25; NSAMP=2	POS TARG -6.7688 2,-1.02369	Sequence 1-27 Non-Int in J0439 (01)	23.774278 Secs (23.774 Secs) [==>]	[1]
26	J Dither 5	(1) J0439+1634	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F125W	SAMP-SEQ=SPARS 25; NSAMP=2	POS TARG -2.9748 2,-1.02369	Sequence 1-27 Non-Int in J0439 (01)	23.774278 Secs (23.774 Secs) [==>]	[1]
27	J Dither 5	(1) J0439+1634	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F125W	SAMP-SEQ=SPARS 25; NSAMP=2	POS TARG 1.90318, -1.02369	Sequence 1-27 Non-Int in J0439 (01)	23.774278 Secs (23.774 Secs) [==>]	[1]



Proposal 15829 - J0439 (02) - Probing Black Hole/Galaxy Co-Evolution at Cosmic Dawn in High Definition with a Gravitationally Lense...

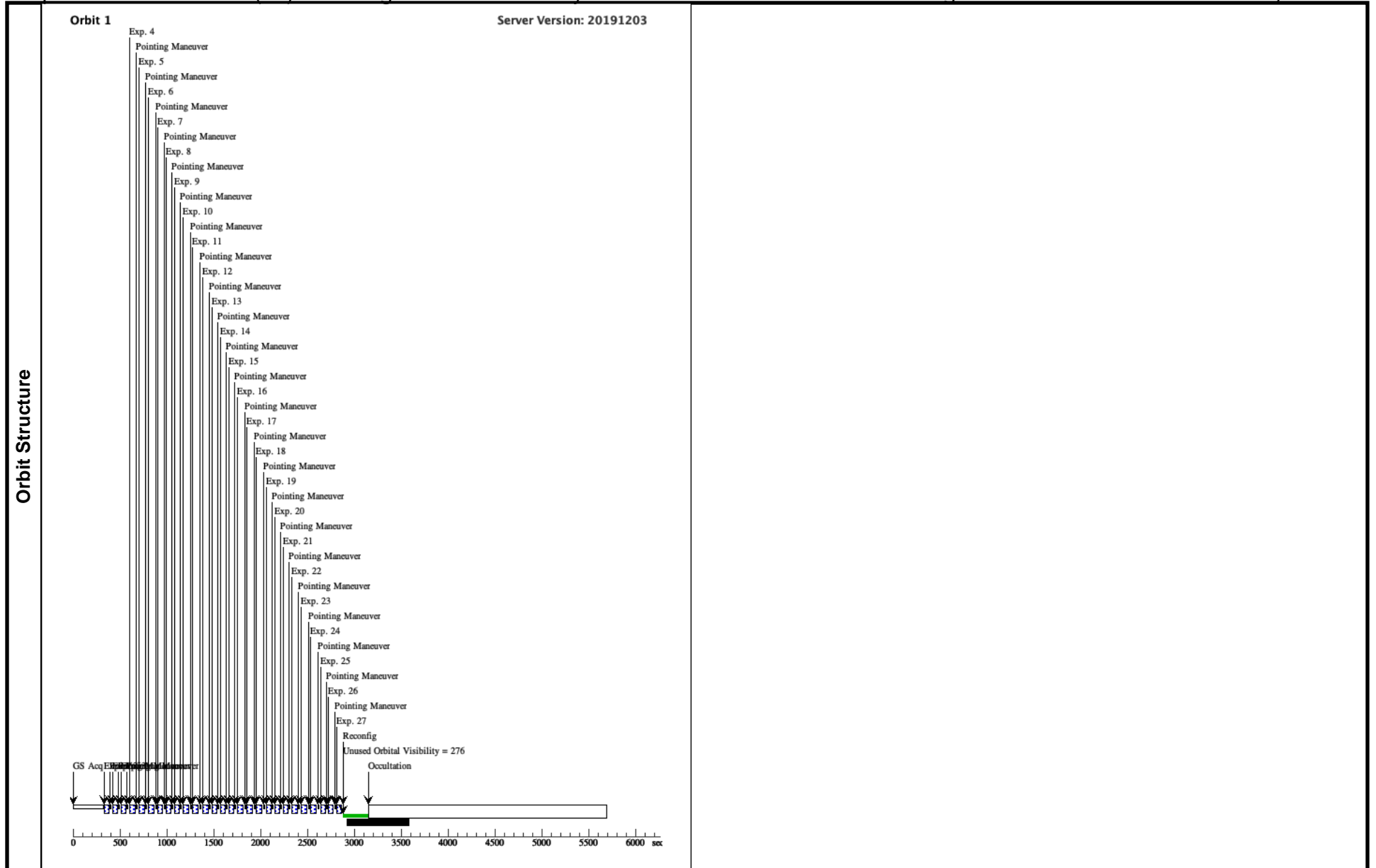
<b>Visit</b>	Proposal 15829, J0439 (02), completed <span style="float: right;">Tue Apr 21 16:01:05 GMT 2020</span> Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: (none)					
	<b>Fixed Targets</b>	<b>#</b>	<b>Name</b>	<b>Target Coordinates</b>	<b>Targ. Coord. Corrections</b>	<b>Fluxes</b>
(1)		J0439+1634	RA: 04 39 47.0980 (69.9462417d) Dec: +16 34 15.82 (16.57106d) Equinox: J2000		V=(?) J_Vega = 16.52	Reference Frame: ICRS
	Comments: Category=GALAXY Description=[QUASAR]					

Proposal 15829 - J0439 (02) - Probing Black Hole/Galaxy Co-Evolution at Cosmic Dawn in High Definition with a Gravitationally Lense...

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]		Orbit
Exposures	1	J Dither 1	(1) J0439+1634	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F125W	SAMP-SEQ=SPARS 25; NSAMP=2	POS TARG -6.233,-2.1798	Sequence 1-27 Non-Int in J0439 (02)	23.774278 Secs (23.774 Secs)	[1]
	2	J Dither 1	(1) J0439+1634	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F125W	SAMP-SEQ=SPARS 25; NSAMP=2	POS TARG -2.439,-2.1798	Sequence 1-27 Non-Int in J0439 (02)	23.774278 Secs (23.774 Secs)	[1]
	3	J Dither 1	(1) J0439+1634	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F125W	SAMP-SEQ=SPARS 25; NSAMP=2	POS TARG 2.439,-2.1798	Sequence 1-27 Non-Int in J0439 (02)	23.774278 Secs (23.774 Secs)	[1]
	4	H Dither 1	(1) J0439+1634	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F160W	SAMP-SEQ=STEP2 5; NSAMP=6	POS TARG 6.233,2.1798	Sequence 1-27 Non-Int in J0439 (02)	36.754642 Secs (36.755 Secs)	[1]
	5	H Dither 1	(1) J0439+1634	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F160W	SAMP-SEQ=STEP2 5; NSAMP=6	POS TARG 2.439,2.1798	Sequence 1-27 Non-Int in J0439 (02)	36.754642 Secs (36.755 Secs)	[1]
	6	H Dither 1	(1) J0439+1634	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F160W	SAMP-SEQ=STEP2 5; NSAMP=6	POS TARG -2.439,2.1798	Sequence 1-27 Non-Int in J0439 (02)	36.754642 Secs (36.755 Secs)	[1]
	7	J Dither 2	(1) J0439+1634	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F125W	SAMP-SEQ=SPARS 25; NSAMP=2	POS TARG -4.93942,-1.70092	Sequence 1-27 Non-Int in J0439 (02)	23.774278 Secs (23.774 Secs)	[1]
	8	J Dither 2	(1) J0439+1634	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F125W	SAMP-SEQ=SPARS 25; NSAMP=2	POS TARG -1.14542,-1.70092	Sequence 1-27 Non-Int in J0439 (02)	23.774278 Secs (23.774 Secs)	[1]
	9	J Dither 2	(1) J0439+1634	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F125W	SAMP-SEQ=SPARS 25; NSAMP=2	POS TARG 3.73258,-1.70092	Sequence 1-27 Non-Int in J0439 (02)	23.774278 Secs (23.774 Secs)	[1]
	10	H Dither 2	(1) J0439+1634	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F160W	SAMP-SEQ=STEP2 5; NSAMP=6	POS TARG 7.52658,2.65868	Sequence 1-27 Non-Int in J0439 (02)	36.754642 Secs (36.755 Secs)	[1]
	11	H Dither 2	(1) J0439+1634	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F160W	SAMP-SEQ=STEP2 5; NSAMP=6	POS TARG 3.73258,2.65868	Sequence 1-27 Non-Int in J0439 (02)	36.754642 Secs (36.755 Secs)	[1]
	12	H Dither 2	(1) J0439+1634	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F160W	SAMP-SEQ=STEP2 5; NSAMP=6	POS TARG -1.14542,2.2.65868	Sequence 1-27 Non-Int in J0439 (02)	36.754642 Secs (36.755 Secs)	[1]
	13	J Dither 3	(1) J0439+1634	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F125W	SAMP-SEQ=SPARS 25; NSAMP=2	POS TARG -7.52658,-2.65868	Sequence 1-27 Non-Int in J0439 (02)	23.774278 Secs (23.774 Secs)	[1]
	14	J Dither 3	(1) J0439+1634	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F125W	SAMP-SEQ=SPARS 25; NSAMP=2	POS TARG -3.73258,-2.65868	Sequence 1-27 Non-Int in J0439 (02)	23.774278 Secs (23.774 Secs)	[1]
	15	J Dither 3	(1) J0439+1634	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F125W	SAMP-SEQ=SPARS 25; NSAMP=2	POS TARG 1.14542,-2.65868	Sequence 1-27 Non-Int in J0439 (02)	23.774278 Secs (23.774 Secs)	[1]
	16	H Dither 3	(1) J0439+1634	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F160W	SAMP-SEQ=STEP2 5; NSAMP=6	POS TARG 4.93942,1.70092	Sequence 1-27 Non-Int in J0439 (02)	36.754642 Secs (36.755 Secs)	[1]

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17	H Dither 3	(1) J0439+1634	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F160W	SAMP-SEQ=STEP2 5; NSAMP=6	POS TARG 1.14542, 1.70092	Sequence 1-27 Non-Int in J0439 (02)	36.754642 Secs (36.755 Secs) [==>]	[1]
18	H Dither 3	(1) J0439+1634	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F160W	SAMP-SEQ=STEP2 5; NSAMP=6	POS TARG -3.7325 8,1.70092	Sequence 1-27 Non-Int in J0439 (02)	36.754642 Secs (36.755 Secs) [==>]	[1]
19	J Dither 4	(1) J0439+1634	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F125W	SAMP-SEQ=SPARS 25; NSAMP=2	POS TARG -5.6971 8,-3.33591	Sequence 1-27 Non-Int in J0439 (02)	23.774278 Secs (23.774 Secs) [==>]	[1]
20	J Dither 4	(1) J0439+1634	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F125W	SAMP-SEQ=SPARS 25; NSAMP=2	POS TARG -1.9031 8,-1.02369	Sequence 1-27 Non-Int in J0439 (02)	23.774278 Secs (23.774 Secs) [==>]	[1]
21	J Dither 4	(1) J0439+1634	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F125W	SAMP-SEQ=SPARS 25; NSAMP=2	POS TARG 2.97482, -3.33591	Sequence 1-27 Non-Int in J0439 (02)	23.774278 Secs (23.774 Secs) [==>]	[1]
22	H Dither 4	(1) J0439+1634	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F160W	SAMP-SEQ=STEP2 5; NSAMP=6	POS TARG 6.76882, 1.02369	Sequence 1-27 Non-Int in J0439 (02)	36.754642 Secs (36.755 Secs) [==>]	[1]
23	H Dither 4	(1) J0439+1634	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F160W	SAMP-SEQ=STEP2 5; NSAMP=6	POS TARG 2.97482, 1.02369	Sequence 1-27 Non-Int in J0439 (02)	36.754642 Secs (36.755 Secs) [==>]	[1]
24	H Dither 4	(1) J0439+1634	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F160W	SAMP-SEQ=STEP2 5; NSAMP=6	POS TARG -1.9031 8,1.02369	Sequence 1-27 Non-Int in J0439 (02)	36.754642 Secs (36.755 Secs) [==>]	[1]
25	J Dither 5	(1) J0439+1634	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F125W	SAMP-SEQ=SPARS 25; NSAMP=2	POS TARG -6.7688 2,-1.02369	Sequence 1-27 Non-Int in J0439 (02)	23.774278 Secs (23.774 Secs) [==>]	[1]
26	J Dither 5	(1) J0439+1634	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F125W	SAMP-SEQ=SPARS 25; NSAMP=2	POS TARG -2.9748 2,-1.02369	Sequence 1-27 Non-Int in J0439 (02)	23.774278 Secs (23.774 Secs) [==>]	[1]
27	J Dither 5	(1) J0439+1634	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F125W	SAMP-SEQ=SPARS 25; NSAMP=2	POS TARG 1.90318, -1.02369	Sequence 1-27 Non-Int in J0439 (02)	23.774278 Secs (23.774 Secs) [==>]	[1]



Proposal 15829 - J0439 (03) - Probing Black Hole/Galaxy Co-Evolution at Cosmic Dawn in High Definition with a Gravitationally Lense...

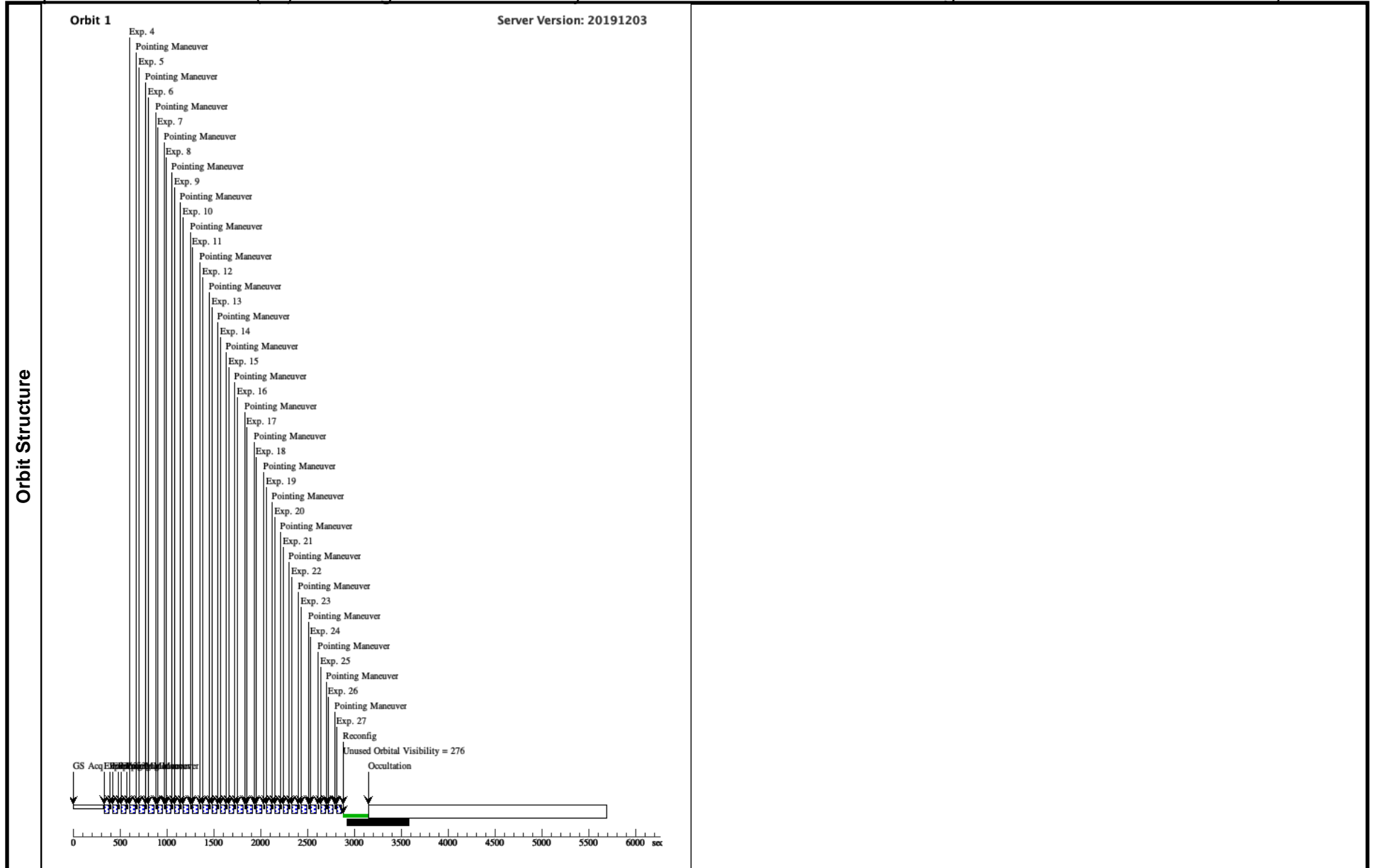
<b>Visit</b>	Proposal 15829, J0439 (03), completed <span style="float: right;">Tue Apr 21 16:01:05 GMT 2020</span> Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: (none)					
	<b>Fixed Targets</b>	<b>#</b>	<b>Name</b>	<b>Target Coordinates</b>	<b>Targ. Coord. Corrections</b>	<b>Fluxes</b>
(1)		J0439+1634	RA: 04 39 47.0980 (69.9462417d) Dec: +16 34 15.82 (16.57106d) Equinox: J2000		V=(?) J_Vega = 16.52	Reference Frame: ICRS
	Comments: Category=GALAXY Description=[QUASAR]					

Proposal 15829 - J0439 (03) - Probing Black Hole/Galaxy Co-Evolution at Cosmic Dawn in High Definition with a Gravitationally Lense...

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]		Orbit
Exposures	1	J Dither 1	(1) J0439+1634	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F125W	SAMP-SEQ=SPARS 25; NSAMP=2	POS TARG -6.233,-2.1798	Sequence 1-27 Non-Int in J0439 (03)	23.774278 Secs (23.774 Secs)	[1]
	2	J Dither 1	(1) J0439+1634	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F125W	SAMP-SEQ=SPARS 25; NSAMP=2	POS TARG -2.439,-2.1798	Sequence 1-27 Non-Int in J0439 (03)	23.774278 Secs (23.774 Secs)	[1]
	3	J Dither 1	(1) J0439+1634	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F125W	SAMP-SEQ=SPARS 25; NSAMP=2	POS TARG 2.439,-2.1798	Sequence 1-27 Non-Int in J0439 (03)	23.774278 Secs (23.774 Secs)	[1]
	4	H Dither 1	(1) J0439+1634	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F160W	SAMP-SEQ=STEP2 5; NSAMP=6	POS TARG 6.233,2.1798	Sequence 1-27 Non-Int in J0439 (03)	36.754642 Secs (36.755 Secs)	[1]
	5	H Dither 1	(1) J0439+1634	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F160W	SAMP-SEQ=STEP2 5; NSAMP=6	POS TARG 2.439,2.1798	Sequence 1-27 Non-Int in J0439 (03)	36.754642 Secs (36.755 Secs)	[1]
	6	H Dither 1	(1) J0439+1634	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F160W	SAMP-SEQ=STEP2 5; NSAMP=6	POS TARG -2.439,2.1798	Sequence 1-27 Non-Int in J0439 (03)	36.754642 Secs (36.755 Secs)	[1]
	7	J Dither 2	(1) J0439+1634	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F125W	SAMP-SEQ=SPARS 25; NSAMP=2	POS TARG -4.93942,-1.70092	Sequence 1-27 Non-Int in J0439 (03)	23.774278 Secs (23.774 Secs)	[1]
	8	J Dither 2	(1) J0439+1634	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F125W	SAMP-SEQ=SPARS 25; NSAMP=2	POS TARG -1.14542,-1.70092	Sequence 1-27 Non-Int in J0439 (03)	23.774278 Secs (23.774 Secs)	[1]
	9	J Dither 2	(1) J0439+1634	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F125W	SAMP-SEQ=SPARS 25; NSAMP=2	POS TARG 3.73258,-1.70092	Sequence 1-27 Non-Int in J0439 (03)	23.774278 Secs (23.774 Secs)	[1]
	10	H Dither 2	(1) J0439+1634	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F160W	SAMP-SEQ=STEP2 5; NSAMP=6	POS TARG 7.52658,2.65868	Sequence 1-27 Non-Int in J0439 (03)	36.754642 Secs (36.755 Secs)	[1]
	11	H Dither 2	(1) J0439+1634	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F160W	SAMP-SEQ=STEP2 5; NSAMP=6	POS TARG 3.73258,2.65868	Sequence 1-27 Non-Int in J0439 (03)	36.754642 Secs (36.755 Secs)	[1]
	12	H Dither 2	(1) J0439+1634	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F160W	SAMP-SEQ=STEP2 5; NSAMP=6	POS TARG -1.14542,2.2.65868	Sequence 1-27 Non-Int in J0439 (03)	36.754642 Secs (36.755 Secs)	[1]
	13	J Dither 3	(1) J0439+1634	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F125W	SAMP-SEQ=SPARS 25; NSAMP=2	POS TARG -7.52658,-2.65868	Sequence 1-27 Non-Int in J0439 (03)	23.774278 Secs (23.774 Secs)	[1]
	14	J Dither 3	(1) J0439+1634	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F125W	SAMP-SEQ=SPARS 25; NSAMP=2	POS TARG -3.73258,-2.65868	Sequence 1-27 Non-Int in J0439 (03)	23.774278 Secs (23.774 Secs)	[1]
	15	J Dither 3	(1) J0439+1634	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F125W	SAMP-SEQ=SPARS 25; NSAMP=2	POS TARG 1.14542,-2.65868	Sequence 1-27 Non-Int in J0439 (03)	23.774278 Secs (23.774 Secs)	[1]
	16	H Dither 3	(1) J0439+1634	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F160W	SAMP-SEQ=STEP2 5; NSAMP=6	POS TARG 4.93942,1.70092	Sequence 1-27 Non-Int in J0439 (03)	36.754642 Secs (36.755 Secs)	[1]

Proposal 15829 - J0439 (03) - Probing Black Hole/Galaxy Co-Evolution at Cosmic Dawn in High Definition with a Gravitationally Lense...

17	H Dither 3	(1) J0439+1634	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F160W	SAMP-SEQ=STEP2 5; NSAMP=6	POS TARG 1.14542, 1.70092	Sequence 1-27 Non-Int in J0439 (03)	36.754642 Secs (36.755 Secs) [==>]	[1]
18	H Dither 3	(1) J0439+1634	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F160W	SAMP-SEQ=STEP2 5; NSAMP=6	POS TARG -3.7325 8,1.70092	Sequence 1-27 Non-Int in J0439 (03)	36.754642 Secs (36.755 Secs) [==>]	[1]
19	J Dither 4	(1) J0439+1634	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F125W	SAMP-SEQ=SPARS 25; NSAMP=2	POS TARG -5.6971 8,-3.33591	Sequence 1-27 Non-Int in J0439 (03)	23.774278 Secs (23.774 Secs) [==>]	[1]
20	J Dither 4	(1) J0439+1634	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F125W	SAMP-SEQ=SPARS 25; NSAMP=2	POS TARG -1.9031 8,-1.02369	Sequence 1-27 Non-Int in J0439 (03)	23.774278 Secs (23.774 Secs) [==>]	[1]
21	J Dither 4	(1) J0439+1634	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F125W	SAMP-SEQ=SPARS 25; NSAMP=2	POS TARG 2.97482, -3.33591	Sequence 1-27 Non-Int in J0439 (03)	23.774278 Secs (23.774 Secs) [==>]	[1]
22	H Dither 4	(1) J0439+1634	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F160W	SAMP-SEQ=STEP2 5; NSAMP=6	POS TARG 6.76882, 1.02369	Sequence 1-27 Non-Int in J0439 (03)	36.754642 Secs (36.755 Secs) [==>]	[1]
23	H Dither 4	(1) J0439+1634	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F160W	SAMP-SEQ=STEP2 5; NSAMP=6	POS TARG 2.97482, 1.02369	Sequence 1-27 Non-Int in J0439 (03)	36.754642 Secs (36.755 Secs) [==>]	[1]
24	H Dither 4	(1) J0439+1634	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F160W	SAMP-SEQ=STEP2 5; NSAMP=6	POS TARG -1.9031 8,1.02369	Sequence 1-27 Non-Int in J0439 (03)	36.754642 Secs (36.755 Secs) [==>]	[1]
25	J Dither 5	(1) J0439+1634	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F125W	SAMP-SEQ=SPARS 25; NSAMP=2	POS TARG -6.7688 2,-1.02369	Sequence 1-27 Non-Int in J0439 (03)	23.774278 Secs (23.774 Secs) [==>]	[1]
26	J Dither 5	(1) J0439+1634	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F125W	SAMP-SEQ=SPARS 25; NSAMP=2	POS TARG -2.9748 2,-1.02369	Sequence 1-27 Non-Int in J0439 (03)	23.774278 Secs (23.774 Secs) [==>]	[1]
27	J Dither 5	(1) J0439+1634	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F125W	SAMP-SEQ=SPARS 25; NSAMP=2	POS TARG 1.90318, -1.02369	Sequence 1-27 Non-Int in J0439 (03)	23.774278 Secs (23.774 Secs) [==>]	[1]



Proposal 15829 - J0439 (04) - Probing Black Hole/Galaxy Co-Evolution at Cosmic Dawn in High Definition with a Gravitationally Lense...

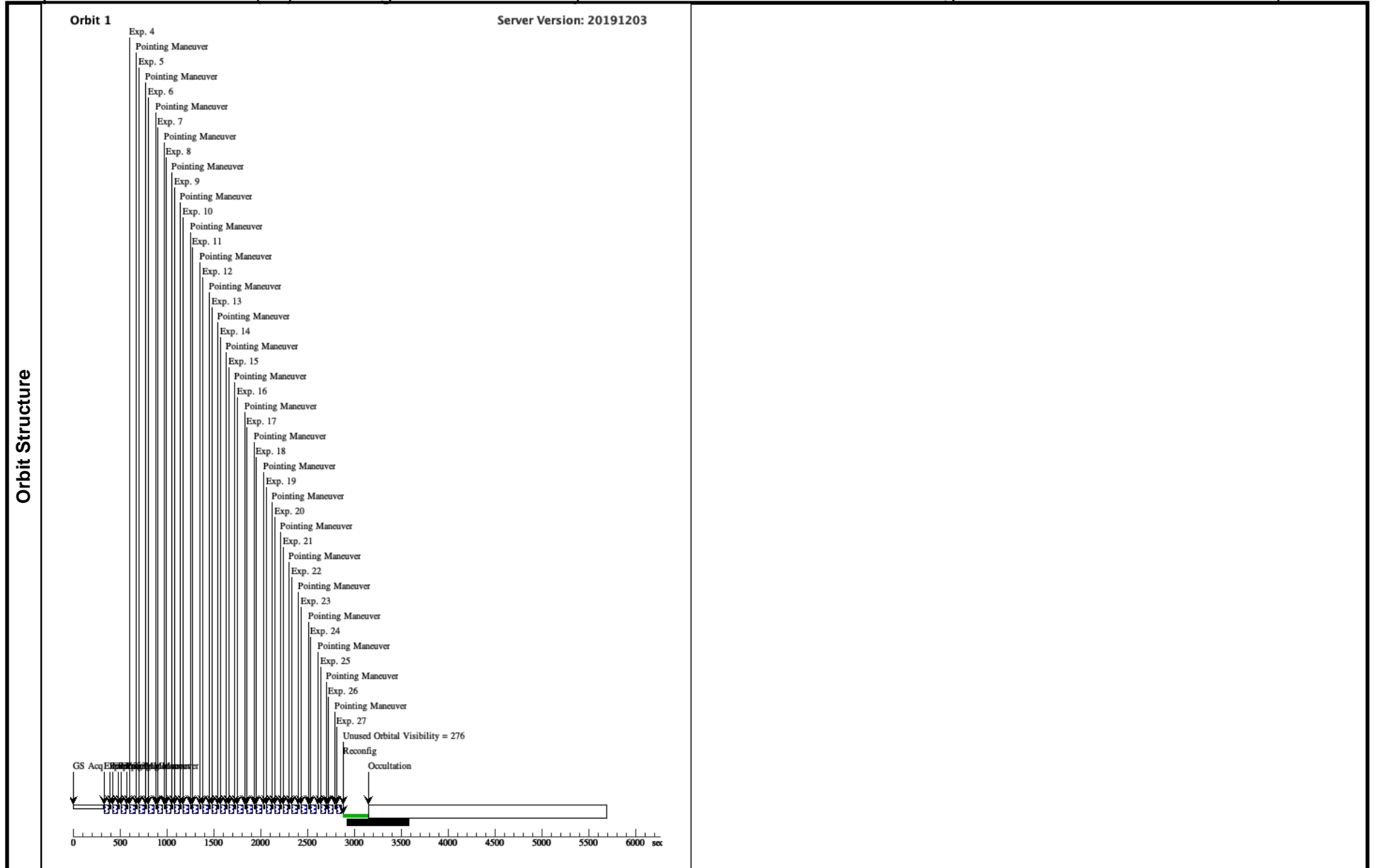
<b>Visit</b>	Proposal 15829, J0439 (04), completed <span style="float: right;">Tue Apr 21 16:01:05 GMT 2020</span> Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: (none)					
	<b>Fixed Targets</b>	<b>#</b>	<b>Name</b>	<b>Target Coordinates</b>	<b>Targ. Coord. Corrections</b>	<b>Fluxes</b>
(1)		J0439+1634	RA: 04 39 47.0980 (69.9462417d) Dec: +16 34 15.82 (16.57106d) Equinox: J2000		V=(?) J_Vega = 16.52	Reference Frame: ICRS
	Comments: Category=GALAXY Description=[QUASAR]					

Proposal 15829 - J0439 (04) - Probing Black Hole/Galaxy Co-Evolution at Cosmic Dawn in High Definition with a Gravitationally Lense...

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]		Orbit
Exposures	1	J Dither 1	(1) J0439+1634	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F125W	SAMP-SEQ=SPARS 25; NSAMP=2	POS TARG -6.233,-2.1798	Sequence 1-27 Non-Int in J0439 (04)	23.774278 Secs (23.774 Secs)	[1]
	2	J Dither 1	(1) J0439+1634	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F125W	SAMP-SEQ=SPARS 25; NSAMP=2	POS TARG -2.439,-2.1798	Sequence 1-27 Non-Int in J0439 (04)	23.774278 Secs (23.774 Secs)	[1]
	3	J Dither 1	(1) J0439+1634	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F125W	SAMP-SEQ=SPARS 25; NSAMP=2	POS TARG 2.439,-2.1798	Sequence 1-27 Non-Int in J0439 (04)	23.774278 Secs (23.774 Secs)	[1]
	4	H Dither 1	(1) J0439+1634	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F160W	SAMP-SEQ=STEP2 5; NSAMP=6	POS TARG 6.233,2.1798	Sequence 1-27 Non-Int in J0439 (04)	36.754642 Secs (36.755 Secs)	[1]
	5	H Dither 1	(1) J0439+1634	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F160W	SAMP-SEQ=STEP2 5; NSAMP=6	POS TARG 2.439,2.1798	Sequence 1-27 Non-Int in J0439 (04)	36.754642 Secs (36.755 Secs)	[1]
	6	H Dither 1	(1) J0439+1634	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F160W	SAMP-SEQ=STEP2 5; NSAMP=6	POS TARG -2.439,2.1798	Sequence 1-27 Non-Int in J0439 (04)	36.754642 Secs (36.755 Secs)	[1]
	7	J Dither 2	(1) J0439+1634	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F125W	SAMP-SEQ=SPARS 25; NSAMP=2	POS TARG -4.93942,-1.70092	Sequence 1-27 Non-Int in J0439 (04)	23.774278 Secs (23.774 Secs)	[1]
	8	J Dither 2	(1) J0439+1634	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F125W	SAMP-SEQ=SPARS 25; NSAMP=2	POS TARG -1.14542,-1.70092	Sequence 1-27 Non-Int in J0439 (04)	23.774278 Secs (23.774 Secs)	[1]
	9	J Dither 2	(1) J0439+1634	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F125W	SAMP-SEQ=SPARS 25; NSAMP=2	POS TARG 3.73258,-1.70092	Sequence 1-27 Non-Int in J0439 (04)	23.774278 Secs (23.774 Secs)	[1]
	10	H Dither 2	(1) J0439+1634	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F160W	SAMP-SEQ=STEP2 5; NSAMP=6	POS TARG 7.52658,2.65868	Sequence 1-27 Non-Int in J0439 (04)	36.754642 Secs (36.755 Secs)	[1]
	11	H Dither 2	(1) J0439+1634	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F160W	SAMP-SEQ=STEP2 5; NSAMP=6	POS TARG 3.73258,2.65868	Sequence 1-27 Non-Int in J0439 (04)	36.754642 Secs (36.755 Secs)	[1]
	12	H Dither 2	(1) J0439+1634	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F160W	SAMP-SEQ=STEP2 5; NSAMP=6	POS TARG -1.14542,2.2.65868	Sequence 1-27 Non-Int in J0439 (04)	36.754642 Secs (36.755 Secs)	[1]
	13	J Dither 3	(1) J0439+1634	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F125W	SAMP-SEQ=SPARS 25; NSAMP=2	POS TARG -7.52658,-2.65868	Sequence 1-27 Non-Int in J0439 (04)	23.774278 Secs (23.774 Secs)	[1]
	14	J Dither 3	(1) J0439+1634	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F125W	SAMP-SEQ=SPARS 25; NSAMP=2	POS TARG -3.73258,-2.65868	Sequence 1-27 Non-Int in J0439 (04)	23.774278 Secs (23.774 Secs)	[1]
	15	J Dither 3	(1) J0439+1634	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F125W	SAMP-SEQ=SPARS 25; NSAMP=2	POS TARG 1.14542,-2.65868	Sequence 1-27 Non-Int in J0439 (04)	23.774278 Secs (23.774 Secs)	[1]
	16	H Dither 3	(1) J0439+1634	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F160W	SAMP-SEQ=STEP2 5; NSAMP=6	POS TARG 4.93942,1.70092	Sequence 1-27 Non-Int in J0439 (04)	36.754642 Secs (36.755 Secs)	[1]

Proposal 15829 - J0439 (04) - Probing Black Hole/Galaxy Co-Evolution at Cosmic Dawn in High Definition with a Gravitationally Lense...

17	H Dither 3	(1) J0439+1634	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F160W	SAMP-SEQ=STEP2 5; NSAMP=6	POS TARG 1.14542, 1.70092	Sequence 1-27 Non-Int in J0439 (04)	36.754642 Secs (36.755 Secs) [==>]	[1]
18	H Dither 3	(1) J0439+1634	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F160W	SAMP-SEQ=STEP2 5; NSAMP=6	POS TARG -3.7325 8,1.70092	Sequence 1-27 Non-Int in J0439 (04)	36.754642 Secs (36.755 Secs) [==>]	[1]
19	J Dither 4	(1) J0439+1634	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F125W	SAMP-SEQ=SPARS 25; NSAMP=2	POS TARG -5.6971 8,-3.33591	Sequence 1-27 Non-Int in J0439 (04)	23.774278 Secs (23.774 Secs) [==>]	[1]
20	J Dither 4	(1) J0439+1634	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F125W	SAMP-SEQ=SPARS 25; NSAMP=2	POS TARG -1.9031 8,-1.02369	Sequence 1-27 Non-Int in J0439 (04)	23.774278 Secs (23.774 Secs) [==>]	[1]
21	J Dither 4	(1) J0439+1634	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F125W	SAMP-SEQ=SPARS 25; NSAMP=2	POS TARG 2.97482, -3.33591	Sequence 1-27 Non-Int in J0439 (04)	23.774278 Secs (23.774 Secs) [==>]	[1]
22	H Dither 4	(1) J0439+1634	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F160W	SAMP-SEQ=STEP2 5; NSAMP=6	POS TARG 6.76882, 1.02369	Sequence 1-27 Non-Int in J0439 (04)	36.754642 Secs (36.755 Secs) [==>]	[1]
23	H Dither 4	(1) J0439+1634	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F160W	SAMP-SEQ=STEP2 5; NSAMP=6	POS TARG 2.97482, 1.02369	Sequence 1-27 Non-Int in J0439 (04)	36.754642 Secs (36.755 Secs) [==>]	[1]
24	H Dither 4	(1) J0439+1634	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F160W	SAMP-SEQ=STEP2 5; NSAMP=6	POS TARG -1.9031 8,1.02369	Sequence 1-27 Non-Int in J0439 (04)	36.754642 Secs (36.755 Secs) [==>]	[1]
25	J Dither 5	(1) J0439+1634	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F125W	SAMP-SEQ=SPARS 25; NSAMP=2	POS TARG -6.7688 2,-1.02369	Sequence 1-27 Non-Int in J0439 (04)	23.774278 Secs (23.774 Secs) [==>]	[1]
26	J Dither 5	(1) J0439+1634	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F125W	SAMP-SEQ=SPARS 25; NSAMP=2	POS TARG -2.9748 2,-1.02369	Sequence 1-27 Non-Int in J0439 (04)	23.774278 Secs (23.774 Secs) [==>]	[1]
27	J Dither 5	(1) J0439+1634	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F125W	SAMP-SEQ=SPARS 25; NSAMP=2	POS TARG 1.90318, -1.02369	Sequence 1-27 Non-Int in J0439 (04)	23.774278 Secs (23.774 Secs) [==>]	[1]



Proposal 15829 - J0439 (05) - Probing Black Hole/Galaxy Co-Evolution at Cosmic Dawn in High Definition with a Gravitationally Lense...

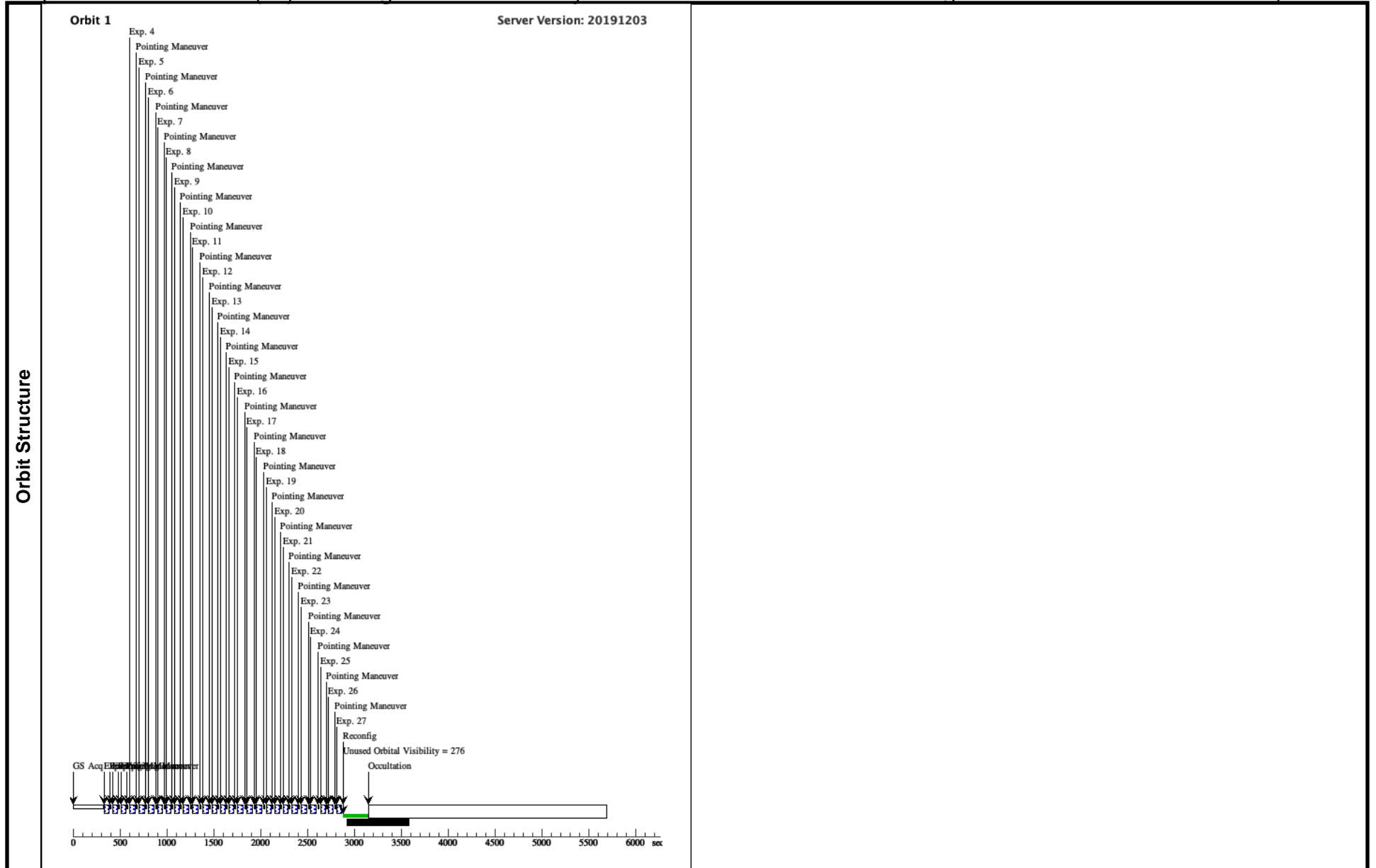
<b>Visit</b>	Proposal 15829, J0439 (05), completed <span style="float: right;">Tue Apr 21 16:01:06 GMT 2020</span> Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: (none)					
	<b>Fixed Targets</b>	<b>#</b>	<b>Name</b>	<b>Target Coordinates</b>	<b>Targ. Coord. Corrections</b>	<b>Fluxes</b>
(1)		J0439+1634	RA: 04 39 47.0980 (69.9462417d) Dec: +16 34 15.82 (16.57106d) Equinox: J2000		V=(?) J_Vega = 16.52	Reference Frame: ICRS
	Comments: Category=GALAXY Description=[QUASAR]					

Proposal 15829 - J0439 (05) - Probing Black Hole/Galaxy Co-Evolution at Cosmic Dawn in High Definition with a Gravitationally Lense...

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]		Orbit
Exposures	1	J Dither 1	(1) J0439+1634	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F125W	SAMP-SEQ=SPARS 25; NSAMP=2	POS TARG -6.233,-2.1798	Sequence 1-27 Non-Int in J0439 (05)	23.774278 Secs (23.774 Secs)	[1]
	2	J Dither 1	(1) J0439+1634	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F125W	SAMP-SEQ=SPARS 25; NSAMP=2	POS TARG -2.439,-2.1798	Sequence 1-27 Non-Int in J0439 (05)	23.774278 Secs (23.774 Secs)	[1]
	3	J Dither 1	(1) J0439+1634	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F125W	SAMP-SEQ=SPARS 25; NSAMP=2	POS TARG 2.439,-2.1798	Sequence 1-27 Non-Int in J0439 (05)	23.774278 Secs (23.774 Secs)	[1]
	4	H Dither 1	(1) J0439+1634	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F160W	SAMP-SEQ=STEP2 5; NSAMP=6	POS TARG 6.233,2.1798	Sequence 1-27 Non-Int in J0439 (05)	36.754642 Secs (36.755 Secs)	[1]
	5	H Dither 1	(1) J0439+1634	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F160W	SAMP-SEQ=STEP2 5; NSAMP=6	POS TARG 2.439,2.1798	Sequence 1-27 Non-Int in J0439 (05)	36.754642 Secs (36.755 Secs)	[1]
	6	H Dither 1	(1) J0439+1634	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F160W	SAMP-SEQ=STEP2 5; NSAMP=6	POS TARG -2.439,2.1798	Sequence 1-27 Non-Int in J0439 (05)	36.754642 Secs (36.755 Secs)	[1]
	7	J Dither 2	(1) J0439+1634	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F125W	SAMP-SEQ=SPARS 25; NSAMP=2	POS TARG -4.93942,-1.70092	Sequence 1-27 Non-Int in J0439 (05)	23.774278 Secs (23.774 Secs)	[1]
	8	J Dither 2	(1) J0439+1634	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F125W	SAMP-SEQ=SPARS 25; NSAMP=2	POS TARG -1.14542,-1.70092	Sequence 1-27 Non-Int in J0439 (05)	23.774278 Secs (23.774 Secs)	[1]
	9	J Dither 2	(1) J0439+1634	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F125W	SAMP-SEQ=SPARS 25; NSAMP=2	POS TARG 3.73258,-1.70092	Sequence 1-27 Non-Int in J0439 (05)	23.774278 Secs (23.774 Secs)	[1]
	10	H Dither 2	(1) J0439+1634	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F160W	SAMP-SEQ=STEP2 5; NSAMP=6	POS TARG 7.52658,2.65868	Sequence 1-27 Non-Int in J0439 (05)	36.754642 Secs (36.755 Secs)	[1]
	11	H Dither 2	(1) J0439+1634	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F160W	SAMP-SEQ=STEP2 5; NSAMP=6	POS TARG 3.73258,2.65868	Sequence 1-27 Non-Int in J0439 (05)	36.754642 Secs (36.755 Secs)	[1]
	12	H Dither 2	(1) J0439+1634	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F160W	SAMP-SEQ=STEP2 5; NSAMP=6	POS TARG -1.14542,2.2.65868	Sequence 1-27 Non-Int in J0439 (05)	36.754642 Secs (36.755 Secs)	[1]
	13	J Dither 3	(1) J0439+1634	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F125W	SAMP-SEQ=SPARS 25; NSAMP=2	POS TARG -7.52658,-2.65868	Sequence 1-27 Non-Int in J0439 (05)	23.774278 Secs (23.774 Secs)	[1]
	14	J Dither 3	(1) J0439+1634	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F125W	SAMP-SEQ=SPARS 25; NSAMP=2	POS TARG -3.73258,-2.65868	Sequence 1-27 Non-Int in J0439 (05)	23.774278 Secs (23.774 Secs)	[1]
	15	J Dither 3	(1) J0439+1634	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F125W	SAMP-SEQ=SPARS 25; NSAMP=2	POS TARG 1.14542,-2.65868	Sequence 1-27 Non-Int in J0439 (05)	23.774278 Secs (23.774 Secs)	[1]
	16	H Dither 3	(1) J0439+1634	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F160W	SAMP-SEQ=STEP2 5; NSAMP=6	POS TARG 4.93942,1.70092	Sequence 1-27 Non-Int in J0439 (05)	36.754642 Secs (36.755 Secs)	[1]

Proposal 15829 - J0439 (05) - Probing Black Hole/Galaxy Co-Evolution at Cosmic Dawn in High Definition with a Gravitationally Lense...

17	H Dither 3	(1) J0439+1634	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F160W	SAMP-SEQ=STEP2 5; NSAMP=6	POS TARG 1.14542, 1.70092	Sequence 1-27 Non-Int in J0439 (05)	36.754642 Secs (36.755 Secs) [==>]	[1]
18	H Dither 3	(1) J0439+1634	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F160W	SAMP-SEQ=STEP2 5; NSAMP=6	POS TARG -3.7325 8,1.70092	Sequence 1-27 Non-Int in J0439 (05)	36.754642 Secs (36.755 Secs) [==>]	[1]
19	J Dither 4	(1) J0439+1634	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F125W	SAMP-SEQ=SPARS 25; NSAMP=2	POS TARG -5.6971 8,-3.33591	Sequence 1-27 Non-Int in J0439 (05)	23.774278 Secs (23.774 Secs) [==>]	[1]
20	J Dither 4	(1) J0439+1634	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F125W	SAMP-SEQ=SPARS 25; NSAMP=2	POS TARG -1.9031 8,-1.02369	Sequence 1-27 Non-Int in J0439 (05)	23.774278 Secs (23.774 Secs) [==>]	[1]
21	J Dither 4	(1) J0439+1634	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F125W	SAMP-SEQ=SPARS 25; NSAMP=2	POS TARG 2.97482, -3.33591	Sequence 1-27 Non-Int in J0439 (05)	23.774278 Secs (23.774 Secs) [==>]	[1]
22	H Dither 4	(1) J0439+1634	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F160W	SAMP-SEQ=STEP2 5; NSAMP=6	POS TARG 6.76882, 1.02369	Sequence 1-27 Non-Int in J0439 (05)	36.754642 Secs (36.755 Secs) [==>]	[1]
23	H Dither 4	(1) J0439+1634	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F160W	SAMP-SEQ=STEP2 5; NSAMP=6	POS TARG 2.97482, 1.02369	Sequence 1-27 Non-Int in J0439 (05)	36.754642 Secs (36.755 Secs) [==>]	[1]
24	H Dither 4	(1) J0439+1634	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F160W	SAMP-SEQ=STEP2 5; NSAMP=6	POS TARG -1.9031 8,1.02369	Sequence 1-27 Non-Int in J0439 (05)	36.754642 Secs (36.755 Secs) [==>]	[1]
25	J Dither 5	(1) J0439+1634	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F125W	SAMP-SEQ=SPARS 25; NSAMP=2	POS TARG -6.7688 2,-1.02369	Sequence 1-27 Non-Int in J0439 (05)	23.774278 Secs (23.774 Secs) [==>]	[1]
26	J Dither 5	(1) J0439+1634	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F125W	SAMP-SEQ=SPARS 25; NSAMP=2	POS TARG -2.9748 2,-1.02369	Sequence 1-27 Non-Int in J0439 (05)	23.774278 Secs (23.774 Secs) [==>]	[1]
27	J Dither 5	(1) J0439+1634	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F125W	SAMP-SEQ=SPARS 25; NSAMP=2	POS TARG 1.90318, -1.02369	Sequence 1-27 Non-Int in J0439 (05)	23.774278 Secs (23.774 Secs) [==>]	[1]



Proposal 15829 - J0439 (06) - Probing Black Hole/Galaxy Co-Evolution at Cosmic Dawn in High Definition with a Gravitationally Lense...

<b>Visit</b>	Proposal 15829, J0439 (06), failed <span style="float: right;">Tue Apr 21 16:01:06 GMT 2020</span> Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: (none)					
	<b>Fixed Targets</b>	<b>#</b>	<b>Name</b>	<b>Target Coordinates</b>	<b>Targ. Coord. Corrections</b>	<b>Fluxes</b>
(1)		J0439+1634	RA: 04 39 47.0980 (69.9462417d) Dec: +16 34 15.82 (16.57106d) Equinox: J2000		V=(?) J_Vega = 16.52	Reference Frame: ICRS
Comments: Category=GALAXY Description=[QUASAR]						

Proposal 15829 - J0439 (06) - Probing Black Hole/Galaxy Co-Evolution at Cosmic Dawn in High Definition with a Gravitationally Lense...

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]		Orbit
Exposures	1	J Dither 1	(1) J0439+1634	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F125W	SAMP-SEQ=SPARS 25; NSAMP=2	POS TARG -6.233,-2.1798	Sequence 1-27 Non-Int in J0439 (06)	23.774278 Secs (23.774 Secs)	[1]
	2	J Dither 1	(1) J0439+1634	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F125W	SAMP-SEQ=SPARS 25; NSAMP=2	POS TARG -2.439,-2.1798	Sequence 1-27 Non-Int in J0439 (06)	23.774278 Secs (23.774 Secs)	[1]
	3	J Dither 1	(1) J0439+1634	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F125W	SAMP-SEQ=SPARS 25; NSAMP=2	POS TARG 2.439,-2.1798	Sequence 1-27 Non-Int in J0439 (06)	23.774278 Secs (23.774 Secs)	[1]
	4	H Dither 1	(1) J0439+1634	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F160W	SAMP-SEQ=STEP2 5; NSAMP=6	POS TARG 6.233,2.1798	Sequence 1-27 Non-Int in J0439 (06)	36.754642 Secs (36.755 Secs)	[1]
	5	H Dither 1	(1) J0439+1634	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F160W	SAMP-SEQ=STEP2 5; NSAMP=6	POS TARG 2.439,2.1798	Sequence 1-27 Non-Int in J0439 (06)	36.754642 Secs (36.755 Secs)	[1]
	6	H Dither 1	(1) J0439+1634	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F160W	SAMP-SEQ=STEP2 5; NSAMP=6	POS TARG -2.439,2.1798	Sequence 1-27 Non-Int in J0439 (06)	36.754642 Secs (36.755 Secs)	[1]
	7	J Dither 2	(1) J0439+1634	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F125W	SAMP-SEQ=SPARS 25; NSAMP=2	POS TARG -4.93942,-1.70092	Sequence 1-27 Non-Int in J0439 (06)	23.774278 Secs (23.774 Secs)	[1]
	8	J Dither 2	(1) J0439+1634	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F125W	SAMP-SEQ=SPARS 25; NSAMP=2	POS TARG -1.14542,-1.70092	Sequence 1-27 Non-Int in J0439 (06)	23.774278 Secs (23.774 Secs)	[1]
	9	J Dither 2	(1) J0439+1634	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F125W	SAMP-SEQ=SPARS 25; NSAMP=2	POS TARG 3.73258,-1.70092	Sequence 1-27 Non-Int in J0439 (06)	23.774278 Secs (23.774 Secs)	[1]
	10	H Dither 2	(1) J0439+1634	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F160W	SAMP-SEQ=STEP2 5; NSAMP=6	POS TARG 7.52658,2.65868	Sequence 1-27 Non-Int in J0439 (06)	36.754642 Secs (36.755 Secs)	[1]
	11	H Dither 2	(1) J0439+1634	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F160W	SAMP-SEQ=STEP2 5; NSAMP=6	POS TARG 3.73258,2.65868	Sequence 1-27 Non-Int in J0439 (06)	36.754642 Secs (36.755 Secs)	[1]
	12	H Dither 2	(1) J0439+1634	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F160W	SAMP-SEQ=STEP2 5; NSAMP=6	POS TARG -1.14542,2.65868	Sequence 1-27 Non-Int in J0439 (06)	36.754642 Secs (36.755 Secs)	[1]
	13	J Dither 3	(1) J0439+1634	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F125W	SAMP-SEQ=SPARS 25; NSAMP=2	POS TARG -7.52658,-2.65868	Sequence 1-27 Non-Int in J0439 (06)	23.774278 Secs (23.774 Secs)	[1]
	14	J Dither 3	(1) J0439+1634	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F125W	SAMP-SEQ=SPARS 25; NSAMP=2	POS TARG -3.73258,-2.65868	Sequence 1-27 Non-Int in J0439 (06)	23.774278 Secs (23.774 Secs)	[1]
	15	J Dither 3	(1) J0439+1634	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F125W	SAMP-SEQ=SPARS 25; NSAMP=2	POS TARG 1.14542,-2.65868	Sequence 1-27 Non-Int in J0439 (06)	23.774278 Secs (23.774 Secs)	[1]
	16	H Dither 3	(1) J0439+1634	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F160W	SAMP-SEQ=STEP2 5; NSAMP=6	POS TARG 4.93942,1.70092	Sequence 1-27 Non-Int in J0439 (06)	36.754642 Secs (36.755 Secs)	[1]

Proposal 15829 - J0439 (06) - Probing Black Hole/Galaxy Co-Evolution at Cosmic Dawn in High Definition with a Gravitationally Lense...

17	H Dither 3	(1) J0439+1634	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F160W	SAMP-SEQ=STEP2 5; NSAMP=6	POS TARG 1.14542, 1.70092	Sequence 1-27 Non-Int in J0439 (06)	36.754642 Secs (36.755 Secs) [==>]	[1]
18	H Dither 3	(1) J0439+1634	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F160W	SAMP-SEQ=STEP2 5; NSAMP=6	POS TARG -3.7325 8,1.70092	Sequence 1-27 Non-Int in J0439 (06)	36.754642 Secs (36.755 Secs) [==>]	[1]
19	J Dither 4	(1) J0439+1634	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F125W	SAMP-SEQ=SPARS 25; NSAMP=2	POS TARG -5.6971 8,-3.33591	Sequence 1-27 Non-Int in J0439 (06)	23.774278 Secs (23.774 Secs) [==>]	[1]
20	J Dither 4	(1) J0439+1634	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F125W	SAMP-SEQ=SPARS 25; NSAMP=2	POS TARG -1.9031 8,-1.02369	Sequence 1-27 Non-Int in J0439 (06)	23.774278 Secs (23.774 Secs) [==>]	[1]
21	J Dither 4	(1) J0439+1634	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F125W	SAMP-SEQ=SPARS 25; NSAMP=2	POS TARG 2.97482, -3.33591	Sequence 1-27 Non-Int in J0439 (06)	23.774278 Secs (23.774 Secs) [==>]	[1]
22	H Dither 4	(1) J0439+1634	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F160W	SAMP-SEQ=STEP2 5; NSAMP=6	POS TARG 6.76882, 1.02369	Sequence 1-27 Non-Int in J0439 (06)	36.754642 Secs (36.755 Secs) [==>]	[1]
23	H Dither 4	(1) J0439+1634	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F160W	SAMP-SEQ=STEP2 5; NSAMP=6	POS TARG 2.97482, 1.02369	Sequence 1-27 Non-Int in J0439 (06)	36.754642 Secs (36.755 Secs) [==>]	[1]
24	H Dither 4	(1) J0439+1634	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F160W	SAMP-SEQ=STEP2 5; NSAMP=6	POS TARG -1.9031 8,1.02369	Sequence 1-27 Non-Int in J0439 (06)	36.754642 Secs (36.755 Secs) [==>]	[1]
25	J Dither 5	(1) J0439+1634	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F125W	SAMP-SEQ=SPARS 25; NSAMP=2	POS TARG -6.7688 2,-1.02369	Sequence 1-27 Non-Int in J0439 (06)	23.774278 Secs (23.774 Secs) [==>]	[1]
26	J Dither 5	(1) J0439+1634	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F125W	SAMP-SEQ=SPARS 25; NSAMP=2	POS TARG -2.9748 2,-1.02369	Sequence 1-27 Non-Int in J0439 (06)	23.774278 Secs (23.774 Secs) [==>]	[1]
27	J Dither 5	(1) J0439+1634	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F125W	SAMP-SEQ=SPARS 25; NSAMP=2	POS TARG 1.90318, -1.02369	Sequence 1-27 Non-Int in J0439 (06)	23.774278 Secs (23.774 Secs) [==>]	[1]



Proposal 15829 - J0439 (H6) - Probing Black Hole/Galaxy Co-Evolution at Cosmic Dawn in High Definition with a Gravitationally Lens...

Tue Apr 21 16:01:06 GMT 2020

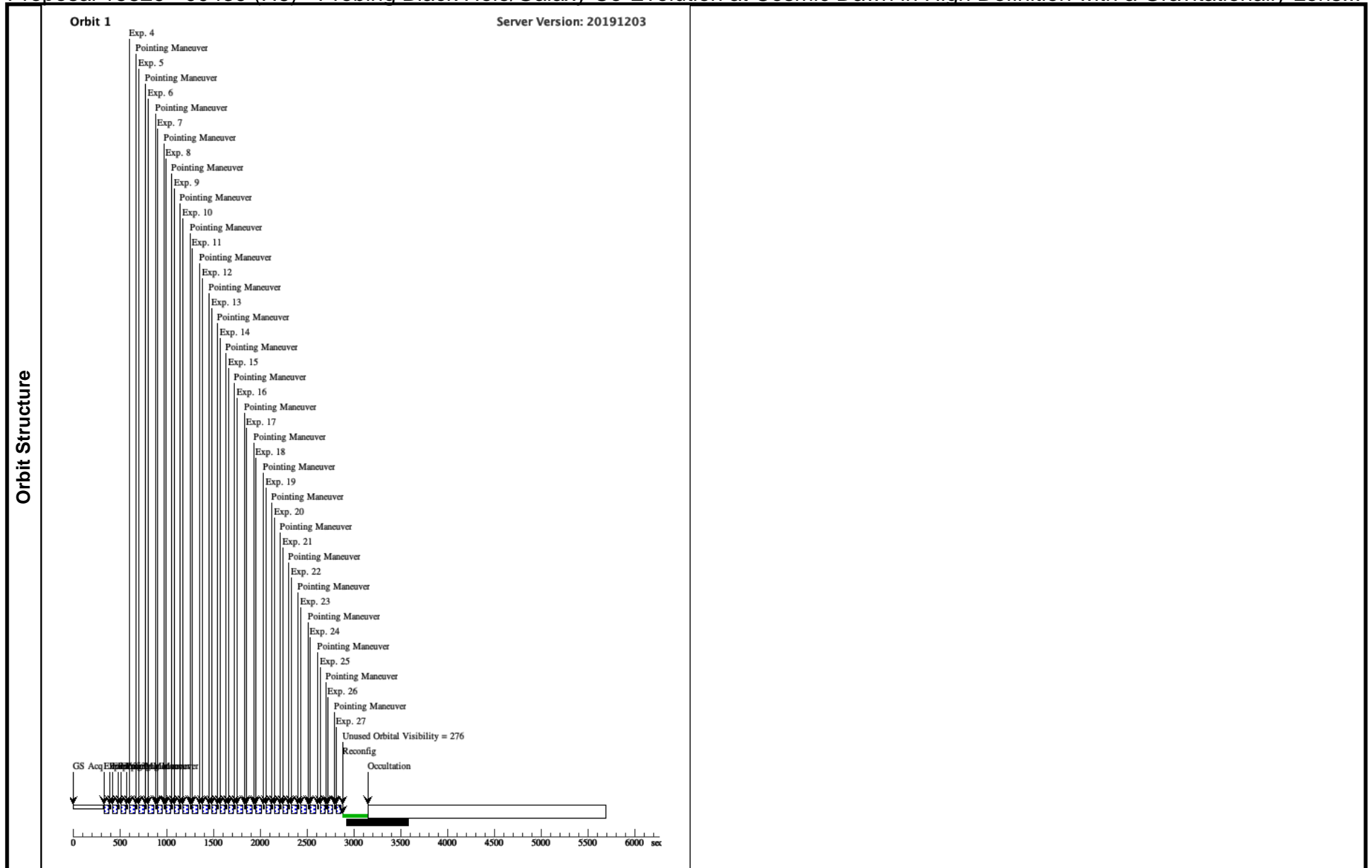
<b>Visit</b>	<b>Proposal 15829, J0439 (H6)</b> <b>Diagnostic Status: No Diagnostics</b> Scientific Instruments: WFC3/IR Special Requirements: (none) <i>Comments: This is a HOPR Repeat of failed visit 06</i>					
	<b>Fixed Targets</b>	<b>#</b>	<b>Name</b>	<b>Target Coordinates</b>	<b>Targ. Coord. Corrections</b>	<b>Fluxes</b>
(1)		J0439+1634	RA: 04 39 47.0980 (69.9462417d) Dec: +16 34 15.82 (16.57106d) Equinox: J2000		V=(?) J_Vega = 16.52	Reference Frame: ICRS
<i>Comments:</i> Category=GALAXY Description=[QUASAR]						

Proposal 15829 - J0439 (H6) - Probing Black Hole/Galaxy Co-Evolution at Cosmic Dawn in High Definition with a Gravitationally Lens...

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]		Orbit
Exposures	1	J Dither 1	(1) J0439+1634	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F125W	SAMP-SEQ=SPARS 25; NSAMP=2	POS TARG -6.233,-2.1798	Sequence 1-27 Non-Int in J0439 (H6)	23.774278 Secs (23.774 Secs)	[1]
	2	J Dither 1	(1) J0439+1634	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F125W	SAMP-SEQ=SPARS 25; NSAMP=2	POS TARG -2.439,-2.1798	Sequence 1-27 Non-Int in J0439 (H6)	23.774278 Secs (23.774 Secs)	[1]
	3	J Dither 1	(1) J0439+1634	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F125W	SAMP-SEQ=SPARS 25; NSAMP=2	POS TARG 2.439,-2.1798	Sequence 1-27 Non-Int in J0439 (H6)	23.774278 Secs (23.774 Secs)	[1]
	4	H Dither 1	(1) J0439+1634	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F160W	SAMP-SEQ=STEP2 5; NSAMP=6	POS TARG 6.233,2.1798	Sequence 1-27 Non-Int in J0439 (H6)	36.754642 Secs (36.755 Secs)	[1]
	5	H Dither 1	(1) J0439+1634	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F160W	SAMP-SEQ=STEP2 5; NSAMP=6	POS TARG 2.439,2.1798	Sequence 1-27 Non-Int in J0439 (H6)	36.754642 Secs (36.755 Secs)	[1]
	6	H Dither 1	(1) J0439+1634	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F160W	SAMP-SEQ=STEP2 5; NSAMP=6	POS TARG -2.439,2.1798	Sequence 1-27 Non-Int in J0439 (H6)	36.754642 Secs (36.755 Secs)	[1]
	7	J Dither 2	(1) J0439+1634	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F125W	SAMP-SEQ=SPARS 25; NSAMP=2	POS TARG -4.93942,-1.70092	Sequence 1-27 Non-Int in J0439 (H6)	23.774278 Secs (23.774 Secs)	[1]
	8	J Dither 2	(1) J0439+1634	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F125W	SAMP-SEQ=SPARS 25; NSAMP=2	POS TARG -1.14542,-1.70092	Sequence 1-27 Non-Int in J0439 (H6)	23.774278 Secs (23.774 Secs)	[1]
	9	J Dither 2	(1) J0439+1634	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F125W	SAMP-SEQ=SPARS 25; NSAMP=2	POS TARG 3.73258,-1.70092	Sequence 1-27 Non-Int in J0439 (H6)	23.774278 Secs (23.774 Secs)	[1]
	10	H Dither 2	(1) J0439+1634	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F160W	SAMP-SEQ=STEP2 5; NSAMP=6	POS TARG 7.52658,2.65868	Sequence 1-27 Non-Int in J0439 (H6)	36.754642 Secs (36.755 Secs)	[1]
	11	H Dither 2	(1) J0439+1634	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F160W	SAMP-SEQ=STEP2 5; NSAMP=6	POS TARG 3.73258,2.65868	Sequence 1-27 Non-Int in J0439 (H6)	36.754642 Secs (36.755 Secs)	[1]
	12	H Dither 2	(1) J0439+1634	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F160W	SAMP-SEQ=STEP2 5; NSAMP=6	POS TARG -1.14542,2.65868	Sequence 1-27 Non-Int in J0439 (H6)	36.754642 Secs (36.755 Secs)	[1]
	13	J Dither 3	(1) J0439+1634	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F125W	SAMP-SEQ=SPARS 25; NSAMP=2	POS TARG -7.52658,-2.65868	Sequence 1-27 Non-Int in J0439 (H6)	23.774278 Secs (23.774 Secs)	[1]
	14	J Dither 3	(1) J0439+1634	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F125W	SAMP-SEQ=SPARS 25; NSAMP=2	POS TARG -3.73258,-2.65868	Sequence 1-27 Non-Int in J0439 (H6)	23.774278 Secs (23.774 Secs)	[1]
	15	J Dither 3	(1) J0439+1634	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F125W	SAMP-SEQ=SPARS 25; NSAMP=2	POS TARG 1.14542,-2.65868	Sequence 1-27 Non-Int in J0439 (H6)	23.774278 Secs (23.774 Secs)	[1]
	16	H Dither 3	(1) J0439+1634	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F160W	SAMP-SEQ=STEP2 5; NSAMP=6	POS TARG 4.93942,1.70092	Sequence 1-27 Non-Int in J0439 (H6)	36.754642 Secs (36.755 Secs)	[1]

Proposal 15829 - J0439 (H6) - Probing Black Hole/Galaxy Co-Evolution at Cosmic Dawn in High Definition with a Gravitationally Lens...

17	H Dither 3	(1) J0439+1634	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F160W	SAMP-SEQ=STEP2 5; NSAMP=6	POS TARG 1.14542, 1.70092	Sequence 1-27 Non-Int in J0439 (H6)	36.754642 Secs (36.755 Secs) [==>]	[1]
18	H Dither 3	(1) J0439+1634	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F160W	SAMP-SEQ=STEP2 5; NSAMP=6	POS TARG -3.73258, 1.70092	Sequence 1-27 Non-Int in J0439 (H6)	36.754642 Secs (36.755 Secs) [==>]	[1]
19	J Dither 4	(1) J0439+1634	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F125W	SAMP-SEQ=SPARS 25; NSAMP=2	POS TARG -5.69718, -3.33591	Sequence 1-27 Non-Int in J0439 (H6)	23.774278 Secs (23.774 Secs) [==>]	[1]
20	J Dither 4	(1) J0439+1634	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F125W	SAMP-SEQ=SPARS 25; NSAMP=2	POS TARG -1.90318, -1.02369	Sequence 1-27 Non-Int in J0439 (H6)	23.774278 Secs (23.774 Secs) [==>]	[1]
21	J Dither 4	(1) J0439+1634	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F125W	SAMP-SEQ=SPARS 25; NSAMP=2	POS TARG 2.97482, -3.33591	Sequence 1-27 Non-Int in J0439 (H6)	23.774278 Secs (23.774 Secs) [==>]	[1]
22	H Dither 4	(1) J0439+1634	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F160W	SAMP-SEQ=STEP2 5; NSAMP=6	POS TARG 6.76882, 1.02369	Sequence 1-27 Non-Int in J0439 (H6)	36.754642 Secs (36.755 Secs) [==>]	[1]
23	H Dither 4	(1) J0439+1634	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F160W	SAMP-SEQ=STEP2 5; NSAMP=6	POS TARG 2.97482, 1.02369	Sequence 1-27 Non-Int in J0439 (H6)	36.754642 Secs (36.755 Secs) [==>]	[1]
24	H Dither 4	(1) J0439+1634	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F160W	SAMP-SEQ=STEP2 5; NSAMP=6	POS TARG -1.90318, 1.02369	Sequence 1-27 Non-Int in J0439 (H6)	36.754642 Secs (36.755 Secs) [==>]	[1]
25	J Dither 5	(1) J0439+1634	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F125W	SAMP-SEQ=SPARS 25; NSAMP=2	POS TARG -6.76882, -1.02369	Sequence 1-27 Non-Int in J0439 (H6)	23.774278 Secs (23.774 Secs) [==>]	[1]
26	J Dither 5	(1) J0439+1634	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F125W	SAMP-SEQ=SPARS 25; NSAMP=2	POS TARG -2.97482, -1.02369	Sequence 1-27 Non-Int in J0439 (H6)	23.774278 Secs (23.774 Secs) [==>]	[1]
27	J Dither 5	(1) J0439+1634	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F125W	SAMP-SEQ=SPARS 25; NSAMP=2	POS TARG 1.90318, -1.02369	Sequence 1-27 Non-Int in J0439 (H6)	23.774278 Secs (23.774 Secs) [==>]	[1]



Proposal 15829 - J0439 (07) - Probing Black Hole/Galaxy Co-Evolution at Cosmic Dawn in High Definition with a Gravitationally Lense...

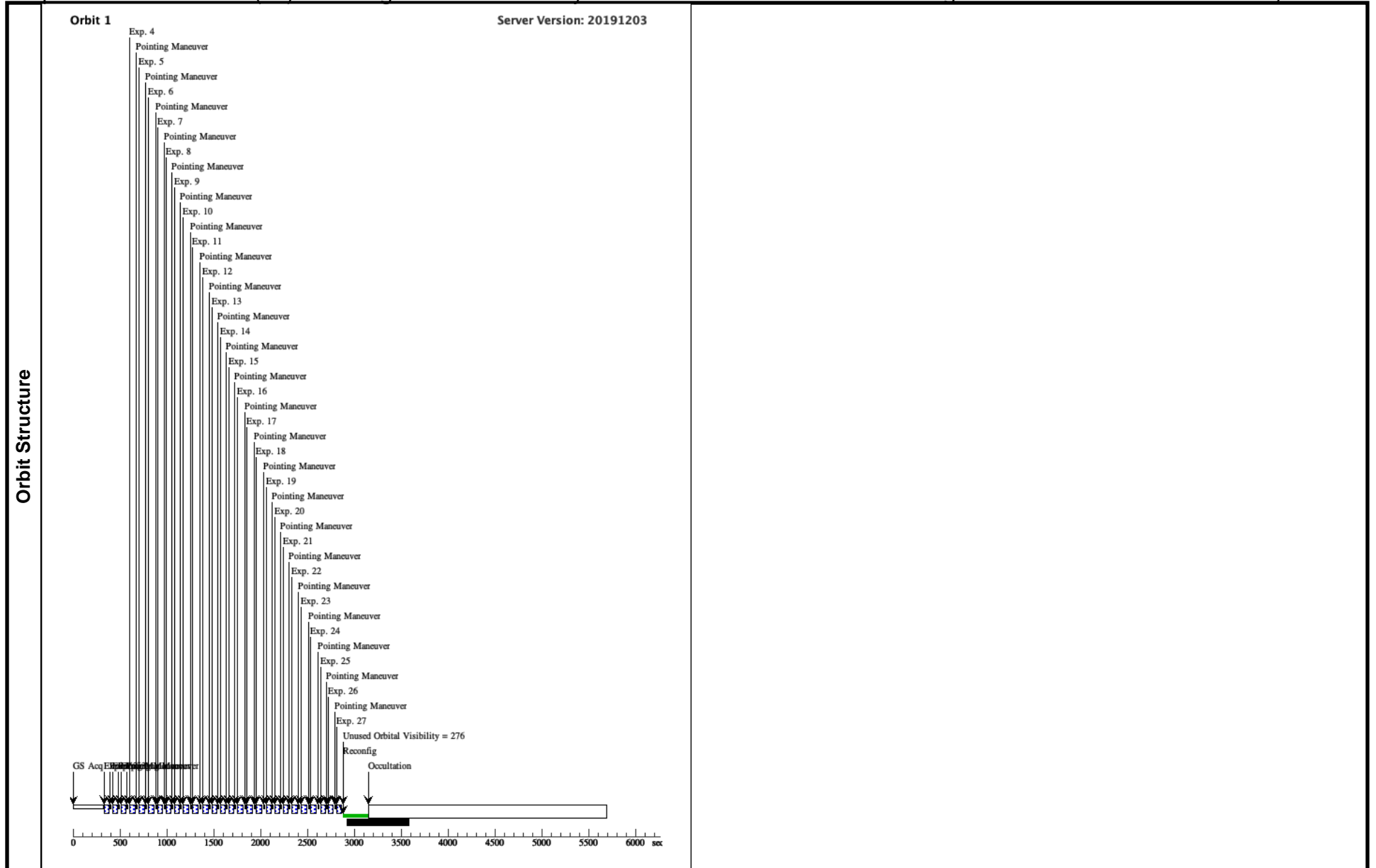
<b>Visit</b>	Proposal 15829, J0439 (07), failed <span style="float: right;">Tue Apr 21 16:01:06 GMT 2020</span> Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: (none)					
	<b>Fixed Targets</b>	<b>#</b>	<b>Name</b>	<b>Target Coordinates</b>	<b>Targ. Coord. Corrections</b>	<b>Fluxes</b>
(1)		J0439+1634	RA: 04 39 47.0980 (69.9462417d) Dec: +16 34 15.82 (16.57106d) Equinox: J2000		V=(?) J_Vega = 16.52	Reference Frame: ICRS
	Comments: Category=GALAXY Description=[QUASAR]					

Proposal 15829 - J0439 (07) - Probing Black Hole/Galaxy Co-Evolution at Cosmic Dawn in High Definition with a Gravitationally Lense...

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]		Orbit
Exposures	1	J Dither 1	(1) J0439+1634	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F125W	SAMP-SEQ=SPARS 25; NSAMP=2	POS TARG -6.233,-2.1798	Sequence 1-27 Non-Int in J0439 (07)	23.774278 Secs (23.774 Secs)	[1]
	2	J Dither 1	(1) J0439+1634	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F125W	SAMP-SEQ=SPARS 25; NSAMP=2	POS TARG -2.439,-2.1798	Sequence 1-27 Non-Int in J0439 (07)	23.774278 Secs (23.774 Secs)	[1]
	3	J Dither 1	(1) J0439+1634	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F125W	SAMP-SEQ=SPARS 25; NSAMP=2	POS TARG 2.439,-2.1798	Sequence 1-27 Non-Int in J0439 (07)	23.774278 Secs (23.774 Secs)	[1]
	4	H Dither 1	(1) J0439+1634	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F160W	SAMP-SEQ=STEP2 5; NSAMP=6	POS TARG 6.233,2.1798	Sequence 1-27 Non-Int in J0439 (07)	36.754642 Secs (36.755 Secs)	[1]
	5	H Dither 1	(1) J0439+1634	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F160W	SAMP-SEQ=STEP2 5; NSAMP=6	POS TARG 2.439,2.1798	Sequence 1-27 Non-Int in J0439 (07)	36.754642 Secs (36.755 Secs)	[1]
	6	H Dither 1	(1) J0439+1634	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F160W	SAMP-SEQ=STEP2 5; NSAMP=6	POS TARG -2.439,2.1798	Sequence 1-27 Non-Int in J0439 (07)	36.754642 Secs (36.755 Secs)	[1]
	7	J Dither 2	(1) J0439+1634	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F125W	SAMP-SEQ=SPARS 25; NSAMP=2	POS TARG -4.93942,-1.70092	Sequence 1-27 Non-Int in J0439 (07)	23.774278 Secs (23.774 Secs)	[1]
	8	J Dither 2	(1) J0439+1634	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F125W	SAMP-SEQ=SPARS 25; NSAMP=2	POS TARG -1.14542,-1.70092	Sequence 1-27 Non-Int in J0439 (07)	23.774278 Secs (23.774 Secs)	[1]
	9	J Dither 2	(1) J0439+1634	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F125W	SAMP-SEQ=SPARS 25; NSAMP=2	POS TARG 3.73258,-1.70092	Sequence 1-27 Non-Int in J0439 (07)	23.774278 Secs (23.774 Secs)	[1]
	10	H Dither 2	(1) J0439+1634	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F160W	SAMP-SEQ=STEP2 5; NSAMP=6	POS TARG 7.52658,2.65868	Sequence 1-27 Non-Int in J0439 (07)	36.754642 Secs (36.755 Secs)	[1]
	11	H Dither 2	(1) J0439+1634	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F160W	SAMP-SEQ=STEP2 5; NSAMP=6	POS TARG 3.73258,2.65868	Sequence 1-27 Non-Int in J0439 (07)	36.754642 Secs (36.755 Secs)	[1]
	12	H Dither 2	(1) J0439+1634	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F160W	SAMP-SEQ=STEP2 5; NSAMP=6	POS TARG -1.14542,2.65868	Sequence 1-27 Non-Int in J0439 (07)	36.754642 Secs (36.755 Secs)	[1]
	13	J Dither 3	(1) J0439+1634	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F125W	SAMP-SEQ=SPARS 25; NSAMP=2	POS TARG -7.52658,-2.65868	Sequence 1-27 Non-Int in J0439 (07)	23.774278 Secs (23.774 Secs)	[1]
	14	J Dither 3	(1) J0439+1634	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F125W	SAMP-SEQ=SPARS 25; NSAMP=2	POS TARG -3.73258,-2.65868	Sequence 1-27 Non-Int in J0439 (07)	23.774278 Secs (23.774 Secs)	[1]
	15	J Dither 3	(1) J0439+1634	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F125W	SAMP-SEQ=SPARS 25; NSAMP=2	POS TARG 1.14542,-2.65868	Sequence 1-27 Non-Int in J0439 (07)	23.774278 Secs (23.774 Secs)	[1]
	16	H Dither 3	(1) J0439+1634	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F160W	SAMP-SEQ=STEP2 5; NSAMP=6	POS TARG 4.93942,1.70092	Sequence 1-27 Non-Int in J0439 (07)	36.754642 Secs (36.755 Secs)	[1]

Proposal 15829 - J0439 (07) - Probing Black Hole/Galaxy Co-Evolution at Cosmic Dawn in High Definition with a Gravitationally Lense...

17	H Dither 3	(1) J0439+1634	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F160W	SAMP-SEQ=STEP2 5; NSAMP=6	POS TARG 1.14542, 1.70092	Sequence 1-27 Non-Int in J0439 (07)	36.754642 Secs (36.755 Secs) [==>]	[1]
18	H Dither 3	(1) J0439+1634	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F160W	SAMP-SEQ=STEP2 5; NSAMP=6	POS TARG -3.73258, 1.70092	Sequence 1-27 Non-Int in J0439 (07)	36.754642 Secs (36.755 Secs) [==>]	[1]
19	J Dither 4	(1) J0439+1634	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F125W	SAMP-SEQ=SPARS 25; NSAMP=2	POS TARG -5.69718, -3.33591	Sequence 1-27 Non-Int in J0439 (07)	23.774278 Secs (23.774 Secs) [==>]	[1]
20	J Dither 4	(1) J0439+1634	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F125W	SAMP-SEQ=SPARS 25; NSAMP=2	POS TARG -1.90318, -1.02369	Sequence 1-27 Non-Int in J0439 (07)	23.774278 Secs (23.774 Secs) [==>]	[1]
21	J Dither 4	(1) J0439+1634	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F125W	SAMP-SEQ=SPARS 25; NSAMP=2	POS TARG 2.97482, -3.33591	Sequence 1-27 Non-Int in J0439 (07)	23.774278 Secs (23.774 Secs) [==>]	[1]
22	H Dither 4	(1) J0439+1634	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F160W	SAMP-SEQ=STEP2 5; NSAMP=6	POS TARG 6.76882, 1.02369	Sequence 1-27 Non-Int in J0439 (07)	36.754642 Secs (36.755 Secs) [==>]	[1]
23	H Dither 4	(1) J0439+1634	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F160W	SAMP-SEQ=STEP2 5; NSAMP=6	POS TARG 2.97482, 1.02369	Sequence 1-27 Non-Int in J0439 (07)	36.754642 Secs (36.755 Secs) [==>]	[1]
24	H Dither 4	(1) J0439+1634	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F160W	SAMP-SEQ=STEP2 5; NSAMP=6	POS TARG -1.90318, 1.02369	Sequence 1-27 Non-Int in J0439 (07)	36.754642 Secs (36.755 Secs) [==>]	[1]
25	J Dither 5	(1) J0439+1634	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F125W	SAMP-SEQ=SPARS 25; NSAMP=2	POS TARG -6.76882, -1.02369	Sequence 1-27 Non-Int in J0439 (07)	23.774278 Secs (23.774 Secs) [==>]	[1]
26	J Dither 5	(1) J0439+1634	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F125W	SAMP-SEQ=SPARS 25; NSAMP=2	POS TARG -2.97482, -1.02369	Sequence 1-27 Non-Int in J0439 (07)	23.774278 Secs (23.774 Secs) [==>]	[1]
27	J Dither 5	(1) J0439+1634	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F125W	SAMP-SEQ=SPARS 25; NSAMP=2	POS TARG 1.90318, -1.02369	Sequence 1-27 Non-Int in J0439 (07)	23.774278 Secs (23.774 Secs) [==>]	[1]



Proposal 15829 - J0439 (H7) - Probing Black Hole/Galaxy Co-Evolution at Cosmic Dawn in High Definition with a Gravitationally Lens...

Tue Apr 21 16:01:06 GMT 2020

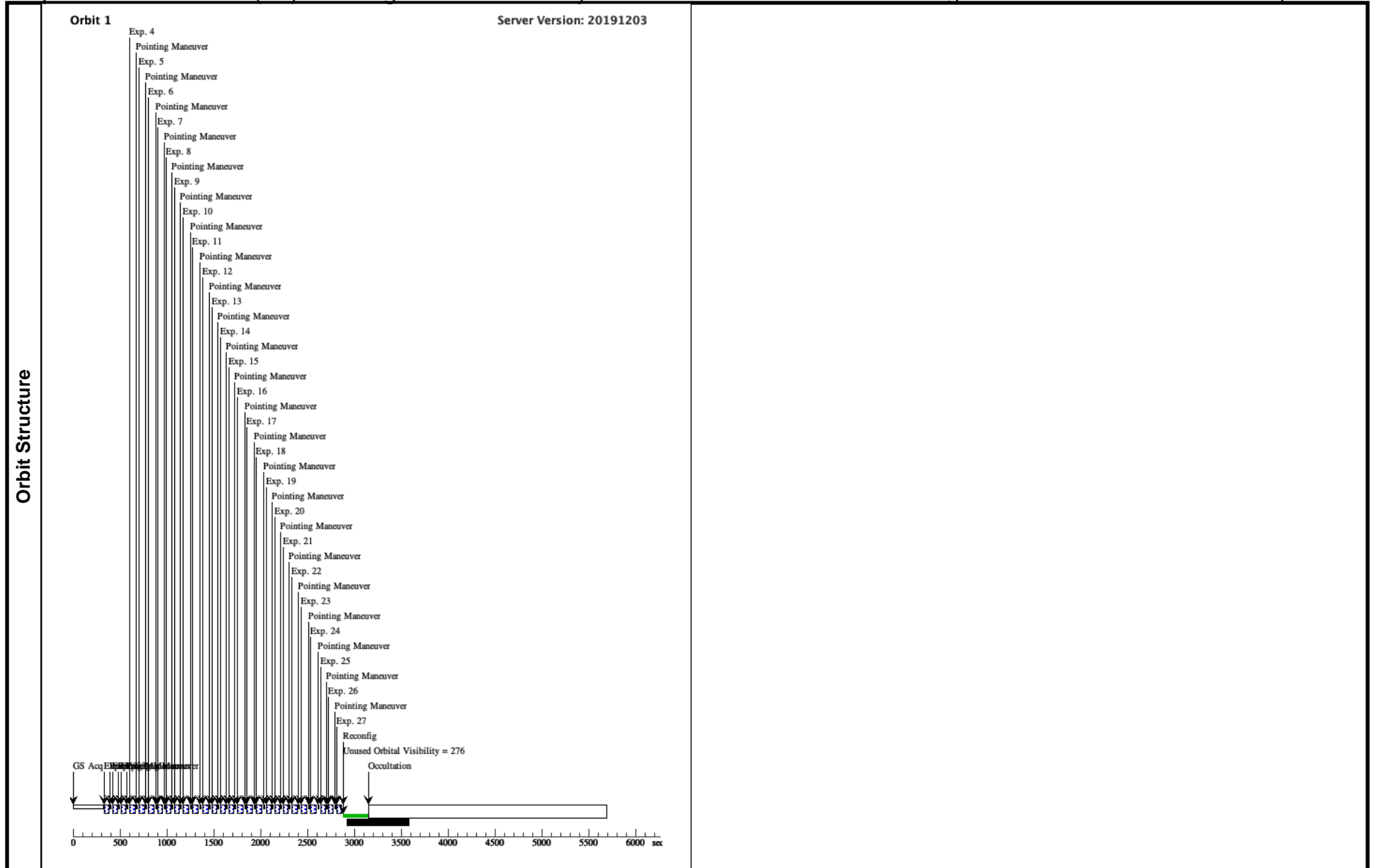
<b>Visit</b>	<b>Proposal 15829, J0439 (H7)</b> <b>Diagnostic Status: No Diagnostics</b> Scientific Instruments: WFC3/IR Special Requirements: (none) <i>Comments: This is a HOPR repeat for failed visit 07</i>					
	<b>Fixed Targets</b>	<b>#</b>	<b>Name</b>	<b>Target Coordinates</b>	<b>Targ. Coord. Corrections</b>	<b>Fluxes</b>
(1)		J0439+1634	RA: 04 39 47.0980 (69.9462417d) Dec: +16 34 15.82 (16.57106d) Equinox: J2000		V=(?) J_Vega = 16.52	Reference Frame: ICRS
	<i>Comments:</i> Category=GALAXY Description=[QUASAR]					

Proposal 15829 - J0439 (H7) - Probing Black Hole/Galaxy Co-Evolution at Cosmic Dawn in High Definition with a Gravitationally Lens...

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]		Orbit
Exposures	1	J Dither 1	(1) J0439+1634	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F125W	SAMP-SEQ=SPARS 25; NSAMP=2	POS TARG -6.233,-2.1798	Sequence 1-27 Non-Int in J0439 (H7)	23.774278 Secs (23.774 Secs)	[1]
	2	J Dither 1	(1) J0439+1634	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F125W	SAMP-SEQ=SPARS 25; NSAMP=2	POS TARG -2.439,-2.1798	Sequence 1-27 Non-Int in J0439 (H7)	23.774278 Secs (23.774 Secs)	[1]
	3	J Dither 1	(1) J0439+1634	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F125W	SAMP-SEQ=SPARS 25; NSAMP=2	POS TARG 2.439,-2.1798	Sequence 1-27 Non-Int in J0439 (H7)	23.774278 Secs (23.774 Secs)	[1]
	4	H Dither 1	(1) J0439+1634	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F160W	SAMP-SEQ=STEP2 5; NSAMP=6	POS TARG 6.233,2.1798	Sequence 1-27 Non-Int in J0439 (H7)	36.754642 Secs (36.755 Secs)	[1]
	5	H Dither 1	(1) J0439+1634	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F160W	SAMP-SEQ=STEP2 5; NSAMP=6	POS TARG 2.439,2.1798	Sequence 1-27 Non-Int in J0439 (H7)	36.754642 Secs (36.755 Secs)	[1]
	6	H Dither 1	(1) J0439+1634	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F160W	SAMP-SEQ=STEP2 5; NSAMP=6	POS TARG -2.439,2.1798	Sequence 1-27 Non-Int in J0439 (H7)	36.754642 Secs (36.755 Secs)	[1]
	7	J Dither 2	(1) J0439+1634	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F125W	SAMP-SEQ=SPARS 25; NSAMP=2	POS TARG -4.93942,-1.70092	Sequence 1-27 Non-Int in J0439 (H7)	23.774278 Secs (23.774 Secs)	[1]
	8	J Dither 2	(1) J0439+1634	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F125W	SAMP-SEQ=SPARS 25; NSAMP=2	POS TARG -1.14542,-1.70092	Sequence 1-27 Non-Int in J0439 (H7)	23.774278 Secs (23.774 Secs)	[1]
	9	J Dither 2	(1) J0439+1634	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F125W	SAMP-SEQ=SPARS 25; NSAMP=2	POS TARG 3.73258,-1.70092	Sequence 1-27 Non-Int in J0439 (H7)	23.774278 Secs (23.774 Secs)	[1]
	10	H Dither 2	(1) J0439+1634	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F160W	SAMP-SEQ=STEP2 5; NSAMP=6	POS TARG 7.52658,2.65868	Sequence 1-27 Non-Int in J0439 (H7)	36.754642 Secs (36.755 Secs)	[1]
	11	H Dither 2	(1) J0439+1634	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F160W	SAMP-SEQ=STEP2 5; NSAMP=6	POS TARG 3.73258,2.65868	Sequence 1-27 Non-Int in J0439 (H7)	36.754642 Secs (36.755 Secs)	[1]
	12	H Dither 2	(1) J0439+1634	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F160W	SAMP-SEQ=STEP2 5; NSAMP=6	POS TARG -1.14542,2.65868	Sequence 1-27 Non-Int in J0439 (H7)	36.754642 Secs (36.755 Secs)	[1]
	13	J Dither 3	(1) J0439+1634	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F125W	SAMP-SEQ=SPARS 25; NSAMP=2	POS TARG -7.52658,-2.65868	Sequence 1-27 Non-Int in J0439 (H7)	23.774278 Secs (23.774 Secs)	[1]
	14	J Dither 3	(1) J0439+1634	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F125W	SAMP-SEQ=SPARS 25; NSAMP=2	POS TARG -3.73258,-2.65868	Sequence 1-27 Non-Int in J0439 (H7)	23.774278 Secs (23.774 Secs)	[1]
	15	J Dither 3	(1) J0439+1634	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F125W	SAMP-SEQ=SPARS 25; NSAMP=2	POS TARG 1.14542,-2.65868	Sequence 1-27 Non-Int in J0439 (H7)	23.774278 Secs (23.774 Secs)	[1]
	16	H Dither 3	(1) J0439+1634	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F160W	SAMP-SEQ=STEP2 5; NSAMP=6	POS TARG 4.93942,1.70092	Sequence 1-27 Non-Int in J0439 (H7)	36.754642 Secs (36.755 Secs)	[1]

Proposal 15829 - J0439 (H7) - Probing Black Hole/Galaxy Co-Evolution at Cosmic Dawn in High Definition with a Gravitationally Lens...

17	H Dither 3	(1) J0439+1634	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F160W	SAMP-SEQ=STEP2 5; NSAMP=6	POS TARG 1.14542, 1.70092	Sequence 1-27 Non-Int in J0439 (H7)	36.754642 Secs (36.755 Secs) [==>]	[1]
18	H Dither 3	(1) J0439+1634	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F160W	SAMP-SEQ=STEP2 5; NSAMP=6	POS TARG -3.73258, 1.70092	Sequence 1-27 Non-Int in J0439 (H7)	36.754642 Secs (36.755 Secs) [==>]	[1]
19	J Dither 4	(1) J0439+1634	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F125W	SAMP-SEQ=SPARS 25; NSAMP=2	POS TARG -5.69718, -3.33591	Sequence 1-27 Non-Int in J0439 (H7)	23.774278 Secs (23.774 Secs) [==>]	[1]
20	J Dither 4	(1) J0439+1634	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F125W	SAMP-SEQ=SPARS 25; NSAMP=2	POS TARG -1.90318, -1.02369	Sequence 1-27 Non-Int in J0439 (H7)	23.774278 Secs (23.774 Secs) [==>]	[1]
21	J Dither 4	(1) J0439+1634	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F125W	SAMP-SEQ=SPARS 25; NSAMP=2	POS TARG 2.97482, -3.33591	Sequence 1-27 Non-Int in J0439 (H7)	23.774278 Secs (23.774 Secs) [==>]	[1]
22	H Dither 4	(1) J0439+1634	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F160W	SAMP-SEQ=STEP2 5; NSAMP=6	POS TARG 6.76882, 1.02369	Sequence 1-27 Non-Int in J0439 (H7)	36.754642 Secs (36.755 Secs) [==>]	[1]
23	H Dither 4	(1) J0439+1634	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F160W	SAMP-SEQ=STEP2 5; NSAMP=6	POS TARG 2.97482, 1.02369	Sequence 1-27 Non-Int in J0439 (H7)	36.754642 Secs (36.755 Secs) [==>]	[1]
24	H Dither 4	(1) J0439+1634	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F160W	SAMP-SEQ=STEP2 5; NSAMP=6	POS TARG -1.90318, 1.02369	Sequence 1-27 Non-Int in J0439 (H7)	36.754642 Secs (36.755 Secs) [==>]	[1]
25	J Dither 5	(1) J0439+1634	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F125W	SAMP-SEQ=SPARS 25; NSAMP=2	POS TARG -6.76882, -1.02369	Sequence 1-27 Non-Int in J0439 (H7)	23.774278 Secs (23.774 Secs) [==>]	[1]
26	J Dither 5	(1) J0439+1634	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F125W	SAMP-SEQ=SPARS 25; NSAMP=2	POS TARG -2.97482, -1.02369	Sequence 1-27 Non-Int in J0439 (H7)	23.774278 Secs (23.774 Secs) [==>]	[1]
27	J Dither 5	(1) J0439+1634	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F125W	SAMP-SEQ=SPARS 25; NSAMP=2	POS TARG 1.90318, -1.02369	Sequence 1-27 Non-Int in J0439 (H7)	23.774278 Secs (23.774 Secs) [==>]	[1]



Proposal 15829 - J0439 (08) - Probing Black Hole/Galaxy Co-Evolution at Cosmic Dawn in High Definition with a Gravitationally Lense...

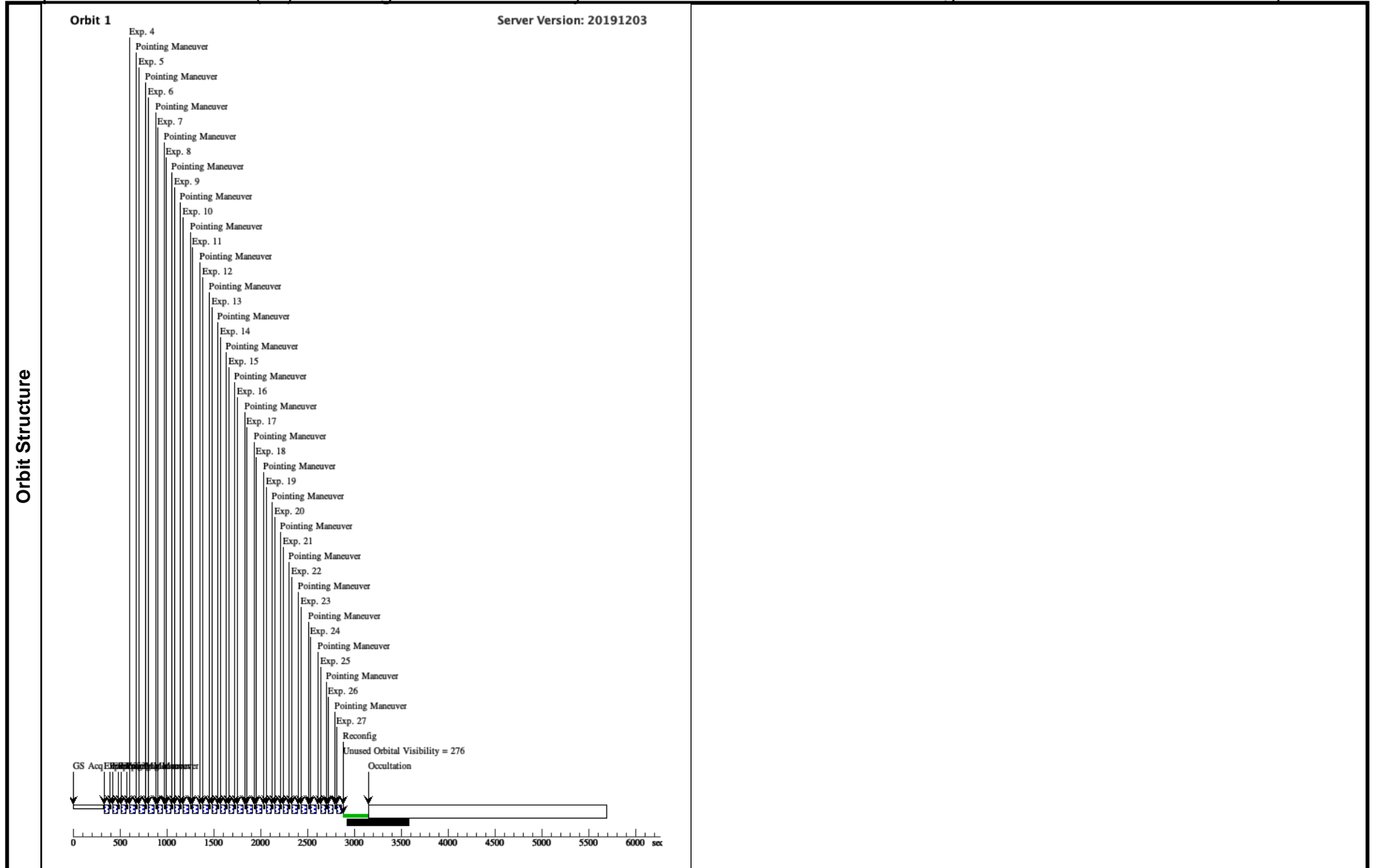
<b>Visit</b>	Proposal 15829, J0439 (08), failed <span style="float: right;">Tue Apr 21 16:01:06 GMT 2020</span> Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: (none)					
	<b>Fixed Targets</b>	<b>#</b>	<b>Name</b>	<b>Target Coordinates</b>	<b>Targ. Coord. Corrections</b>	<b>Fluxes</b>
(1)		J0439+1634	RA: 04 39 47.0980 (69.9462417d) Dec: +16 34 15.82 (16.57106d) Equinox: J2000		V=(?) J_Vega = 16.52	Reference Frame: ICRS
	Comments: Category=GALAXY Description=[QUASAR]					

Proposal 15829 - J0439 (08) - Probing Black Hole/Galaxy Co-Evolution at Cosmic Dawn in High Definition with a Gravitationally Lense...

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]		Orbit
Exposures	1	J Dither 1	(1) J0439+1634	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F125W	SAMP-SEQ=SPARS 25; NSAMP=2	POS TARG -6.233,-2.1798	Sequence 1-27 Non-Int in J0439 (08)	23.774278 Secs (23.774 Secs)	[1]
	2	J Dither 1	(1) J0439+1634	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F125W	SAMP-SEQ=SPARS 25; NSAMP=2	POS TARG -2.439,-2.1798	Sequence 1-27 Non-Int in J0439 (08)	23.774278 Secs (23.774 Secs)	[1]
	3	J Dither 1	(1) J0439+1634	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F125W	SAMP-SEQ=SPARS 25; NSAMP=2	POS TARG 2.439,-2.1798	Sequence 1-27 Non-Int in J0439 (08)	23.774278 Secs (23.774 Secs)	[1]
	4	H Dither 1	(1) J0439+1634	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F160W	SAMP-SEQ=STEP2 5; NSAMP=6	POS TARG 6.233,2.1798	Sequence 1-27 Non-Int in J0439 (08)	36.754642 Secs (36.755 Secs)	[1]
	5	H Dither 1	(1) J0439+1634	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F160W	SAMP-SEQ=STEP2 5; NSAMP=6	POS TARG 2.439,2.1798	Sequence 1-27 Non-Int in J0439 (08)	36.754642 Secs (36.755 Secs)	[1]
	6	H Dither 1	(1) J0439+1634	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F160W	SAMP-SEQ=STEP2 5; NSAMP=6	POS TARG -2.439,2.1798	Sequence 1-27 Non-Int in J0439 (08)	36.754642 Secs (36.755 Secs)	[1]
	7	J Dither 2	(1) J0439+1634	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F125W	SAMP-SEQ=SPARS 25; NSAMP=2	POS TARG -4.93942,-1.70092	Sequence 1-27 Non-Int in J0439 (08)	23.774278 Secs (23.774 Secs)	[1]
	8	J Dither 2	(1) J0439+1634	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F125W	SAMP-SEQ=SPARS 25; NSAMP=2	POS TARG -1.14542,-1.70092	Sequence 1-27 Non-Int in J0439 (08)	23.774278 Secs (23.774 Secs)	[1]
	9	J Dither 2	(1) J0439+1634	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F125W	SAMP-SEQ=SPARS 25; NSAMP=2	POS TARG 3.73258,-1.70092	Sequence 1-27 Non-Int in J0439 (08)	23.774278 Secs (23.774 Secs)	[1]
	10	H Dither 2	(1) J0439+1634	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F160W	SAMP-SEQ=STEP2 5; NSAMP=6	POS TARG 7.52658,2.65868	Sequence 1-27 Non-Int in J0439 (08)	36.754642 Secs (36.755 Secs)	[1]
	11	H Dither 2	(1) J0439+1634	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F160W	SAMP-SEQ=STEP2 5; NSAMP=6	POS TARG 3.73258,2.65868	Sequence 1-27 Non-Int in J0439 (08)	36.754642 Secs (36.755 Secs)	[1]
	12	H Dither 2	(1) J0439+1634	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F160W	SAMP-SEQ=STEP2 5; NSAMP=6	POS TARG -1.14542,2.65868	Sequence 1-27 Non-Int in J0439 (08)	36.754642 Secs (36.755 Secs)	[1]
	13	J Dither 3	(1) J0439+1634	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F125W	SAMP-SEQ=SPARS 25; NSAMP=2	POS TARG -7.52658,-2.65868	Sequence 1-27 Non-Int in J0439 (08)	23.774278 Secs (23.774 Secs)	[1]
	14	J Dither 3	(1) J0439+1634	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F125W	SAMP-SEQ=SPARS 25; NSAMP=2	POS TARG -3.73258,-2.65868	Sequence 1-27 Non-Int in J0439 (08)	23.774278 Secs (23.774 Secs)	[1]
	15	J Dither 3	(1) J0439+1634	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F125W	SAMP-SEQ=SPARS 25; NSAMP=2	POS TARG 1.14542,-2.65868	Sequence 1-27 Non-Int in J0439 (08)	23.774278 Secs (23.774 Secs)	[1]
	16	H Dither 3	(1) J0439+1634	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F160W	SAMP-SEQ=STEP2 5; NSAMP=6	POS TARG 4.93942,1.70092	Sequence 1-27 Non-Int in J0439 (08)	36.754642 Secs (36.755 Secs)	[1]

Proposal 15829 - J0439 (08) - Probing Black Hole/Galaxy Co-Evolution at Cosmic Dawn in High Definition with a Gravitationally Lense...

17	H Dither 3	(1) J0439+1634	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F160W	SAMP-SEQ=STEP2 5; NSAMP=6	POS TARG 1.14542, 1.70092	Sequence 1-27 Non-Int in J0439 (08)	36.754642 Secs (36.755 Secs) [==>]	[1]
18	H Dither 3	(1) J0439+1634	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F160W	SAMP-SEQ=STEP2 5; NSAMP=6	POS TARG -3.7325 8,1.70092	Sequence 1-27 Non-Int in J0439 (08)	36.754642 Secs (36.755 Secs) [==>]	[1]
19	J Dither 4	(1) J0439+1634	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F125W	SAMP-SEQ=SPARS 25; NSAMP=2	POS TARG -5.6971 8,-3.33591	Sequence 1-27 Non-Int in J0439 (08)	23.774278 Secs (23.774 Secs) [==>]	[1]
20	J Dither 4	(1) J0439+1634	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F125W	SAMP-SEQ=SPARS 25; NSAMP=2	POS TARG -1.9031 8,-1.02369	Sequence 1-27 Non-Int in J0439 (08)	23.774278 Secs (23.774 Secs) [==>]	[1]
21	J Dither 4	(1) J0439+1634	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F125W	SAMP-SEQ=SPARS 25; NSAMP=2	POS TARG 2.97482, -3.33591	Sequence 1-27 Non-Int in J0439 (08)	23.774278 Secs (23.774 Secs) [==>]	[1]
22	H Dither 4	(1) J0439+1634	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F160W	SAMP-SEQ=STEP2 5; NSAMP=6	POS TARG 6.76882, 1.02369	Sequence 1-27 Non-Int in J0439 (08)	36.754642 Secs (36.755 Secs) [==>]	[1]
23	H Dither 4	(1) J0439+1634	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F160W	SAMP-SEQ=STEP2 5; NSAMP=6	POS TARG 2.97482, 1.02369	Sequence 1-27 Non-Int in J0439 (08)	36.754642 Secs (36.755 Secs) [==>]	[1]
24	H Dither 4	(1) J0439+1634	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F160W	SAMP-SEQ=STEP2 5; NSAMP=6	POS TARG -1.9031 8,1.02369	Sequence 1-27 Non-Int in J0439 (08)	36.754642 Secs (36.755 Secs) [==>]	[1]
25	J Dither 5	(1) J0439+1634	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F125W	SAMP-SEQ=SPARS 25; NSAMP=2	POS TARG -6.7688 2,-1.02369	Sequence 1-27 Non-Int in J0439 (08)	23.774278 Secs (23.774 Secs) [==>]	[1]
26	J Dither 5	(1) J0439+1634	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F125W	SAMP-SEQ=SPARS 25; NSAMP=2	POS TARG -2.9748 2,-1.02369	Sequence 1-27 Non-Int in J0439 (08)	23.774278 Secs (23.774 Secs) [==>]	[1]
27	J Dither 5	(1) J0439+1634	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F125W	SAMP-SEQ=SPARS 25; NSAMP=2	POS TARG 1.90318, -1.02369	Sequence 1-27 Non-Int in J0439 (08)	23.774278 Secs (23.774 Secs) [==>]	[1]



Proposal 15829 - J0439 (H8) - Probing Black Hole/Galaxy Co-Evolution at Cosmic Dawn in High Definition with a Gravitationally Lens...

Tue Apr 21 16:01:06 GMT 2020

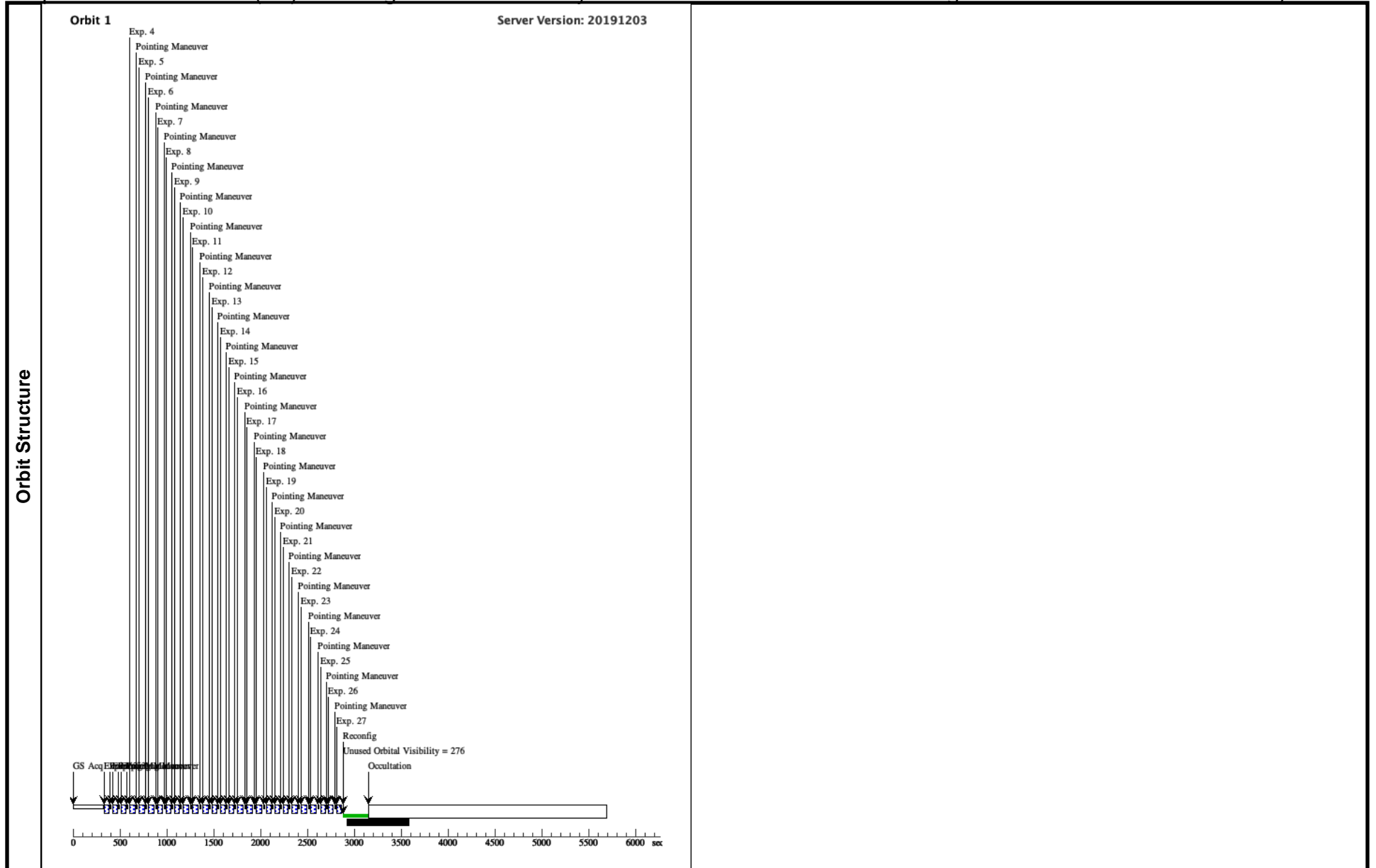
<b>Visit</b>	<b>Proposal 15829, J0439 (H8)</b> <b>Diagnostic Status: No Diagnostics</b> Scientific Instruments: WFC3/IR Special Requirements: (none) <i>Comments: This is a HOPR repeat for failed visit 08</i>					
	<b>Fixed Targets</b>	<b>#</b>	<b>Name</b>	<b>Target Coordinates</b>	<b>Targ. Coord. Corrections</b>	<b>Fluxes</b>
(1)		J0439+1634	RA: 04 39 47.0980 (69.9462417d) Dec: +16 34 15.82 (16.57106d) Equinox: J2000		V=(?) J_Vega = 16.52	Reference Frame: ICRS
<i>Comments:</i> Category=GALAXY Description=[QUASAR]						

Proposal 15829 - J0439 (H8) - Probing Black Hole/Galaxy Co-Evolution at Cosmic Dawn in High Definition with a Gravitationally Lens...

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]		Orbit
Exposures	1	J Dither 1	(1) J0439+1634	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F125W	SAMP-SEQ=SPARS 25; NSAMP=2	POS TARG -6.233,-2.1798	Sequence 1-27 Non-Int in J0439 (H8)	23.774278 Secs (23.774 Secs)	[1]
	2	J Dither 1	(1) J0439+1634	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F125W	SAMP-SEQ=SPARS 25; NSAMP=2	POS TARG -2.439,-2.1798	Sequence 1-27 Non-Int in J0439 (H8)	23.774278 Secs (23.774 Secs)	[1]
	3	J Dither 1	(1) J0439+1634	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F125W	SAMP-SEQ=SPARS 25; NSAMP=2	POS TARG 2.439,-2.1798	Sequence 1-27 Non-Int in J0439 (H8)	23.774278 Secs (23.774 Secs)	[1]
	4	H Dither 1	(1) J0439+1634	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F160W	SAMP-SEQ=STEP2 5; NSAMP=6	POS TARG 6.233,2.1798	Sequence 1-27 Non-Int in J0439 (H8)	36.754642 Secs (36.755 Secs)	[1]
	5	H Dither 1	(1) J0439+1634	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F160W	SAMP-SEQ=STEP2 5; NSAMP=6	POS TARG 2.439,2.1798	Sequence 1-27 Non-Int in J0439 (H8)	36.754642 Secs (36.755 Secs)	[1]
	6	H Dither 1	(1) J0439+1634	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F160W	SAMP-SEQ=STEP2 5; NSAMP=6	POS TARG -2.439,2.1798	Sequence 1-27 Non-Int in J0439 (H8)	36.754642 Secs (36.755 Secs)	[1]
	7	J Dither 2	(1) J0439+1634	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F125W	SAMP-SEQ=SPARS 25; NSAMP=2	POS TARG -4.93942,-1.70092	Sequence 1-27 Non-Int in J0439 (H8)	23.774278 Secs (23.774 Secs)	[1]
	8	J Dither 2	(1) J0439+1634	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F125W	SAMP-SEQ=SPARS 25; NSAMP=2	POS TARG -1.14542,-1.70092	Sequence 1-27 Non-Int in J0439 (H8)	23.774278 Secs (23.774 Secs)	[1]
	9	J Dither 2	(1) J0439+1634	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F125W	SAMP-SEQ=SPARS 25; NSAMP=2	POS TARG 3.73258,-1.70092	Sequence 1-27 Non-Int in J0439 (H8)	23.774278 Secs (23.774 Secs)	[1]
	10	H Dither 2	(1) J0439+1634	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F160W	SAMP-SEQ=STEP2 5; NSAMP=6	POS TARG 7.52658,2.65868	Sequence 1-27 Non-Int in J0439 (H8)	36.754642 Secs (36.755 Secs)	[1]
	11	H Dither 2	(1) J0439+1634	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F160W	SAMP-SEQ=STEP2 5; NSAMP=6	POS TARG 3.73258,2.65868	Sequence 1-27 Non-Int in J0439 (H8)	36.754642 Secs (36.755 Secs)	[1]
	12	H Dither 2	(1) J0439+1634	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F160W	SAMP-SEQ=STEP2 5; NSAMP=6	POS TARG -1.14542,2.2.65868	Sequence 1-27 Non-Int in J0439 (H8)	36.754642 Secs (36.755 Secs)	[1]
	13	J Dither 3	(1) J0439+1634	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F125W	SAMP-SEQ=SPARS 25; NSAMP=2	POS TARG -7.52658,-2.65868	Sequence 1-27 Non-Int in J0439 (H8)	23.774278 Secs (23.774 Secs)	[1]
	14	J Dither 3	(1) J0439+1634	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F125W	SAMP-SEQ=SPARS 25; NSAMP=2	POS TARG -3.73258,-2.65868	Sequence 1-27 Non-Int in J0439 (H8)	23.774278 Secs (23.774 Secs)	[1]
	15	J Dither 3	(1) J0439+1634	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F125W	SAMP-SEQ=SPARS 25; NSAMP=2	POS TARG 1.14542,-2.65868	Sequence 1-27 Non-Int in J0439 (H8)	23.774278 Secs (23.774 Secs)	[1]
	16	H Dither 3	(1) J0439+1634	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F160W	SAMP-SEQ=STEP2 5; NSAMP=6	POS TARG 4.93942,1.70092	Sequence 1-27 Non-Int in J0439 (H8)	36.754642 Secs (36.755 Secs)	[1]

Proposal 15829 - J0439 (H8) - Probing Black Hole/Galaxy Co-Evolution at Cosmic Dawn in High Definition with a Gravitationally Lens...

17	H Dither 3	(1) J0439+1634	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F160W	SAMP-SEQ=STEP2 5; NSAMP=6	POS TARG 1.14542, 1.70092	Sequence 1-27 Non-Int in J0439 (H8)	36.754642 Secs (36.755 Secs) [==>]	[1]
18	H Dither 3	(1) J0439+1634	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F160W	SAMP-SEQ=STEP2 5; NSAMP=6	POS TARG -3.73258, 1.70092	Sequence 1-27 Non-Int in J0439 (H8)	36.754642 Secs (36.755 Secs) [==>]	[1]
19	J Dither 4	(1) J0439+1634	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F125W	SAMP-SEQ=SPARS 25; NSAMP=2	POS TARG -5.69718, -3.33591	Sequence 1-27 Non-Int in J0439 (H8)	23.774278 Secs (23.774 Secs) [==>]	[1]
20	J Dither 4	(1) J0439+1634	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F125W	SAMP-SEQ=SPARS 25; NSAMP=2	POS TARG -1.90318, -1.02369	Sequence 1-27 Non-Int in J0439 (H8)	23.774278 Secs (23.774 Secs) [==>]	[1]
21	J Dither 4	(1) J0439+1634	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F125W	SAMP-SEQ=SPARS 25; NSAMP=2	POS TARG 2.97482, -3.33591	Sequence 1-27 Non-Int in J0439 (H8)	23.774278 Secs (23.774 Secs) [==>]	[1]
22	H Dither 4	(1) J0439+1634	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F160W	SAMP-SEQ=STEP2 5; NSAMP=6	POS TARG 6.76882, 1.02369	Sequence 1-27 Non-Int in J0439 (H8)	36.754642 Secs (36.755 Secs) [==>]	[1]
23	H Dither 4	(1) J0439+1634	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F160W	SAMP-SEQ=STEP2 5; NSAMP=6	POS TARG 2.97482, 1.02369	Sequence 1-27 Non-Int in J0439 (H8)	36.754642 Secs (36.755 Secs) [==>]	[1]
24	H Dither 4	(1) J0439+1634	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F160W	SAMP-SEQ=STEP2 5; NSAMP=6	POS TARG -1.90318, 1.02369	Sequence 1-27 Non-Int in J0439 (H8)	36.754642 Secs (36.755 Secs) [==>]	[1]
25	J Dither 5	(1) J0439+1634	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F125W	SAMP-SEQ=SPARS 25; NSAMP=2	POS TARG -6.76882, -1.02369	Sequence 1-27 Non-Int in J0439 (H8)	23.774278 Secs (23.774 Secs) [==>]	[1]
26	J Dither 5	(1) J0439+1634	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F125W	SAMP-SEQ=SPARS 25; NSAMP=2	POS TARG -2.97482, -1.02369	Sequence 1-27 Non-Int in J0439 (H8)	23.774278 Secs (23.774 Secs) [==>]	[1]
27	J Dither 5	(1) J0439+1634	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F125W	SAMP-SEQ=SPARS 25; NSAMP=2	POS TARG 1.90318, -1.02369	Sequence 1-27 Non-Int in J0439 (H8)	23.774278 Secs (23.774 Secs) [==>]	[1]



Proposal 15829 - PSF Star (09) - Probing Black Hole/Galaxy Co-Evolution at Cosmic Dawn in High Definition with a Gravitationally Le...

<b>Visit</b>	Proposal 15829, PSF Star (09), completed <span style="float: right;">Tue Apr 21 16:01:06 GMT 2020</span> Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: (none)					
	<b>Fixed Targets</b>	<b>#</b>	<b>Name</b>	<b>Target Coordinates</b>	<b>Targ. Coord. Corrections</b>	<b>Fluxes</b>
(2)		PSF0439+1636	RA: 04 39 56.2900 (69.9845417d) Dec: +16 36 5.20 (16.60144d) Equinox: J2000		V=(?) J_Vega = 16.96	Reference Frame: ICRS
	Comments: Category=STAR Description=[M V-IV]					

Proposal 15829 - PSF Star (09) - Probing Black Hole/Galaxy Co-Evolution at Cosmic Dawn in High Definition with a Gravitationally Le...

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]		Orbit
Exposures	1	J Dither 1	(2) PSF0439+1636	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F125W	SAMP-SEQ=SPARS 25; NSAMP=2	POS TARG -6.233,-2.1798	Sequence 1-27 Non-Int in PSF Star (09)	23.774278 Secs (23.774 Secs)	[1]
	2	J Dither 1	(2) PSF0439+1636	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F125W	SAMP-SEQ=SPARS 25; NSAMP=2	POS TARG -2.439,-2.1798	Sequence 1-27 Non-Int in PSF Star (09)	23.774278 Secs (23.774 Secs)	[1]
	3	J Dither 1	(2) PSF0439+1636	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F125W	SAMP-SEQ=SPARS 25; NSAMP=2	POS TARG 2.439,-2.1798	Sequence 1-27 Non-Int in PSF Star (09)	23.774278 Secs (23.774 Secs)	[1]
	4	H Dither 1	(2) PSF0439+1636	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F160W	SAMP-SEQ=STEP2 5; NSAMP=6	POS TARG 6.233,2.1798	Sequence 1-27 Non-Int in PSF Star (09)	36.754642 Secs (36.755 Secs)	[1]
	5	H Dither 1	(2) PSF0439+1636	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F160W	SAMP-SEQ=STEP2 5; NSAMP=6	POS TARG 2.439,2.1798	Sequence 1-27 Non-Int in PSF Star (09)	36.754642 Secs (36.755 Secs)	[1]
	6	H Dither 1	(2) PSF0439+1636	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F160W	SAMP-SEQ=STEP2 5; NSAMP=6	POS TARG -2.439,2.1798	Sequence 1-27 Non-Int in PSF Star (09)	36.754642 Secs (36.755 Secs)	[1]
	7	J Dither 2	(2) PSF0439+1636	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F125W	SAMP-SEQ=SPARS 25; NSAMP=2	POS TARG -4.93942,-1.70092	Sequence 1-27 Non-Int in PSF Star (09)	23.774278 Secs (23.774 Secs)	[1]
	8	J Dither 2	(2) PSF0439+1636	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F125W	SAMP-SEQ=SPARS 25; NSAMP=2	POS TARG -1.14542,-1.70092	Sequence 1-27 Non-Int in PSF Star (09)	23.774278 Secs (23.774 Secs)	[1]
	9	J Dither 2	(2) PSF0439+1636	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F125W	SAMP-SEQ=SPARS 25; NSAMP=2	POS TARG 3.73258,-1.70092	Sequence 1-27 Non-Int in PSF Star (09)	23.774278 Secs (23.774 Secs)	[1]
	10	H Dither 2	(2) PSF0439+1636	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F160W	SAMP-SEQ=STEP2 5; NSAMP=6	POS TARG 7.52658,2.65868	Sequence 1-27 Non-Int in PSF Star (09)	36.754642 Secs (36.755 Secs)	[1]
	11	H Dither 2	(2) PSF0439+1636	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F160W	SAMP-SEQ=STEP2 5; NSAMP=6	POS TARG 3.73258,2.65868	Sequence 1-27 Non-Int in PSF Star (09)	36.754642 Secs (36.755 Secs)	[1]
	12	H Dither 2	(2) PSF0439+1636	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F160W	SAMP-SEQ=STEP2 5; NSAMP=6	POS TARG -1.14542,2.65868	Sequence 1-27 Non-Int in PSF Star (09)	36.754642 Secs (36.755 Secs)	[1]
	13	J Dither 3	(2) PSF0439+1636	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F125W	SAMP-SEQ=SPARS 25; NSAMP=2	POS TARG -7.52658,-2.65868	Sequence 1-27 Non-Int in PSF Star (09)	23.774278 Secs (23.774 Secs)	[1]
	14	J Dither 3	(2) PSF0439+1636	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F125W	SAMP-SEQ=SPARS 25; NSAMP=2	POS TARG -3.73258,-2.65868	Sequence 1-27 Non-Int in PSF Star (09)	23.774278 Secs (23.774 Secs)	[1]
	15	J Dither 3	(2) PSF0439+1636	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F125W	SAMP-SEQ=SPARS 25; NSAMP=2	POS TARG 1.14542,-2.65868	Sequence 1-27 Non-Int in PSF Star (09)	23.774278 Secs (23.774 Secs)	[1]
	16	H Dither 3	(2) PSF0439+1636	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F160W	SAMP-SEQ=STEP2 5; NSAMP=6	POS TARG 4.93942,1.70092	Sequence 1-27 Non-Int in PSF Star (09)	36.754642 Secs (36.755 Secs)	[1]

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17	H Dither 3	(2) PSF0439+1636	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F160W	SAMP-SEQ=STEP2 5; NSAMP=6	POS TARG 1.14542, 1.70092	Sequence 1-27 Non-Int in PSF Star (09)	36.754642 Secs (36.755 Secs) [==>]	[1]
18	H Dither 3	(2) PSF0439+1636	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F160W	SAMP-SEQ=STEP2 5; NSAMP=6	POS TARG -3.7325 8,1.70092	Sequence 1-27 Non-Int in PSF Star (09)	36.754642 Secs (36.755 Secs) [==>]	[1]
19	J Dither 4	(2) PSF0439+1636	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F125W	SAMP-SEQ=SPARS 25; NSAMP=2	POS TARG -5.6971 8,-3.33591	Sequence 1-27 Non-Int in PSF Star (09)	23.774278 Secs (23.774 Secs) [==>]	[1]
20	J Dither 4	(2) PSF0439+1636	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F125W	SAMP-SEQ=SPARS 25; NSAMP=2	POS TARG -1.9031 8,-1.02369	Sequence 1-27 Non-Int in PSF Star (09)	23.774278 Secs (23.774 Secs) [==>]	[1]
21	J Dither 4	(2) PSF0439+1636	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F125W	SAMP-SEQ=SPARS 25; NSAMP=2	POS TARG 2.97482, -3.33591	Sequence 1-27 Non-Int in PSF Star (09)	23.774278 Secs (23.774 Secs) [==>]	[1]
22	H Dither 4	(2) PSF0439+1636	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F160W	SAMP-SEQ=STEP2 5; NSAMP=6	POS TARG 6.76882, 1.02369	Sequence 1-27 Non-Int in PSF Star (09)	36.754642 Secs (36.755 Secs) [==>]	[1]
23	H Dither 4	(2) PSF0439+1636	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F160W	SAMP-SEQ=STEP2 5; NSAMP=6	POS TARG 2.97482, 1.02369	Sequence 1-27 Non-Int in PSF Star (09)	36.754642 Secs (36.755 Secs) [==>]	[1]
24	H Dither 4	(2) PSF0439+1636	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F160W	SAMP-SEQ=STEP2 5; NSAMP=6	POS TARG -1.9031 8,1.02369	Sequence 1-27 Non-Int in PSF Star (09)	36.754642 Secs (36.755 Secs) [==>]	[1]
25	J Dither 5	(2) PSF0439+1636	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F125W	SAMP-SEQ=SPARS 25; NSAMP=2	POS TARG -6.7688 2,-1.02369	Sequence 1-27 Non-Int in PSF Star (09)	23.774278 Secs (23.774 Secs) [==>]	[1]
26	J Dither 5	(2) PSF0439+1636	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F125W	SAMP-SEQ=SPARS 25; NSAMP=2	POS TARG -2.9748 2,-1.02369	Sequence 1-27 Non-Int in PSF Star (09)	23.774278 Secs (23.774 Secs) [==>]	[1]
27	J Dither 5	(2) PSF0439+1636	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F125W	SAMP-SEQ=SPARS 25; NSAMP=2	POS TARG 1.90318, -1.02369	Sequence 1-27 Non-Int in PSF Star (09)	23.774278 Secs (23.774 Secs) [==>]	[1]

