



17834 - Confirming Serendipitous Microlens Host Detections with New and Archival HST Imaging

Cycle: 32, Proposal Category: GO
(Availability Mode: SUPPORTED)

INVESTIGATORS

<i>Name</i>	<i>Institution</i>
Dr. Sean Terry (PI) (Contact)	University of Maryland
Dr. Przemek Mroz (CoI) (ESA Member)	Warsaw University Observatory

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) OGLE-2006-BLG-284	WFC3/UVIS	2	08-May-2025 07:00:22.0	yes
02	(2) KMT-2019-BLG-0253	WFC3/UVIS	2	08-May-2025 07:00:25.0	yes
52	(2) KMT-2019-BLG-0253	WFC3/UVIS	1	08-May-2025 07:00:27.0	yes
03	(3) OGLE-2019-BLG-0954	WFC3/UVIS	2	08-May-2025 07:00:30.0	yes
04	(4) MOA-2022-BLG-465	WFC3/UVIS	2	08-May-2025 07:00:34.0	yes
06	(5) OGLE-2023-BLG-0524	WFC3/UVIS	2	08-May-2025 07:00:37.0	yes

11 Total Orbits Used

ABSTRACT

We propose a GO-Archival program to study seven planetary microlensing events for which we identify serendipitous HST archival data that have observed these targets between 8 - 25 years prior to the gravitational microlensing events. We will couple this archival data with new HST observations in order to definitively confirm the candidate lens objects via their proper motions. Three of the seven targets likely represent very

exotic lenses; two of the targets are candidate white dwarf (WD) hosts and one target is a free-floating planet (FFP) candidate. Successful confirmation of any of the proposed targets requires a second-epoch HST observation, and would represent a first of its kind precursor detection of a lens object prior to the microlensing event. Further, confirmation of either of the WD or FFP candidates will help inform planet formation and evolution theory for unbound FFPs as well as bound planets in stellar remnant systems.

OBSERVING DESCRIPTION

We will conduct ten (10) total orbits, five in each of the WFC3/UVIS F814W and F606W passbands to get good spatial sampling of the effective PSFs (Anderson & King 2004). Each of the five targets are relatively bright, we expect a sufficient number of stars with a similar color and brightness to our target(s) which can be used to construct precise PSF models and calibrate the data. We select the UVIS2-C1K1C-SUB subarray to obtain > 50 stars within 0.5 in magnitude and V - I color from the targets.

The visits for each target will consist of one orbit that includes 16 x 60 sec exposures in the F814W passband, and one orbit that includes approximately 16 x 80 sec exposures in the F606W passband. We will use a custom sub-pixel dither pattern designed to optimally map the PSF in the 16 total exposures. Using the WFC3 exposure time calculator (ETC), we estimate our observations will yield a S/N > 80 in both passbands for all five targets.

Proposal 17834 - OB06284 (01) - Confirming Serendipitous Microlens Host Detections with New and Archival HST Imaging

Visit	Proposal 17834, OB06284 (01), completed Thu May 08 11:00:38 GMT 2025 Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/UVIS Special Requirements: ORIENT 269D TO 269 D					
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes
(1)		OGLE-2006-BLG-284	RA: 17 58 38.2200 (269.6592500d) Dec: -29 08 12.10 (-29.13669d) Equinox: J2000		V=21.82+/-0.04 I-Magnitude = 19.99 +/- 0.04	Reference Frame: ICRS
	Comments: Category=STAR Description=[BULGE, GRAVITATIONAL LENS]					

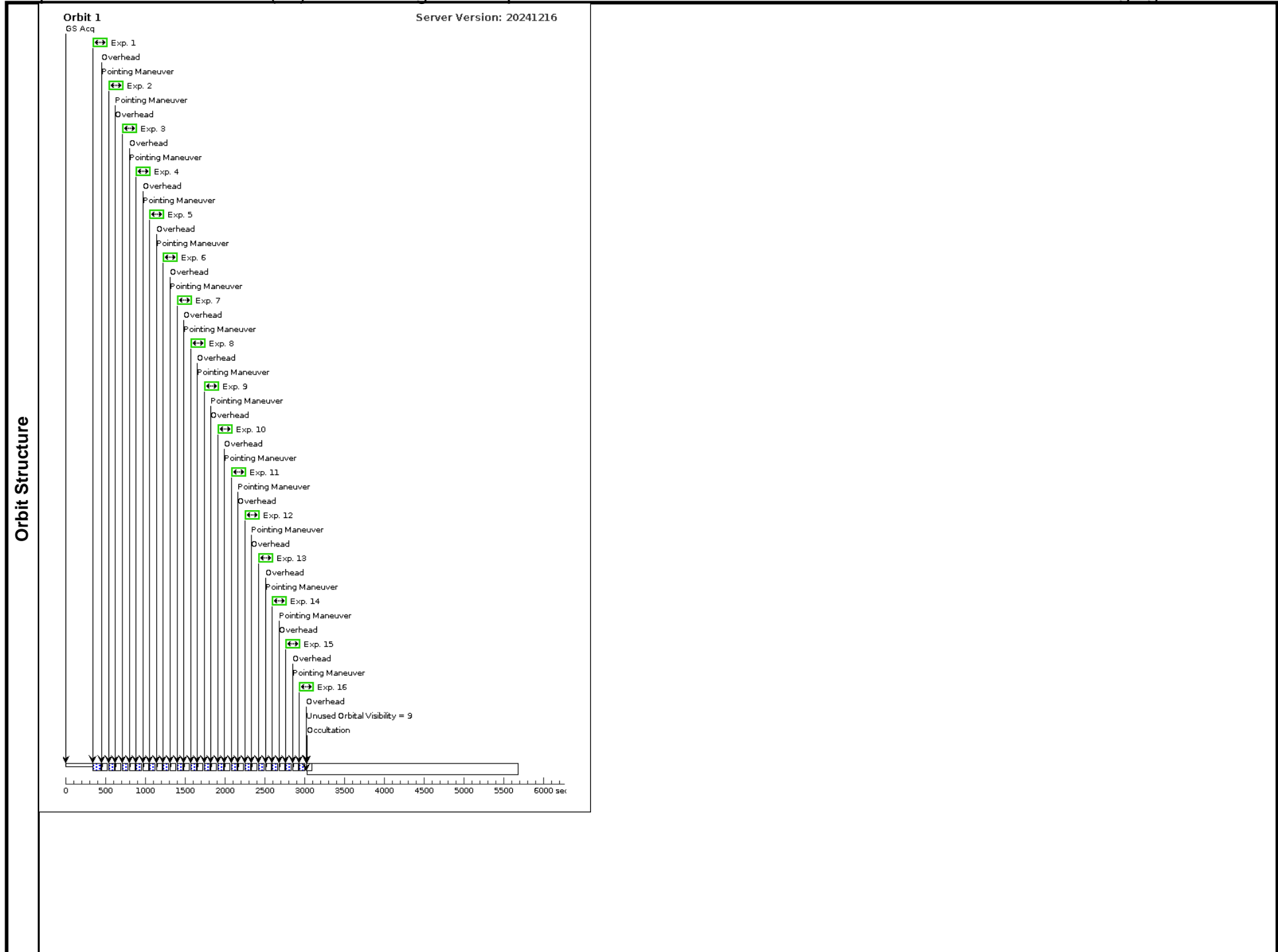
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#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]		Orbit
Exposures	1	(1) OGLE-2006-BL G-284	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F606W	FLASH=20	POS TARG 0.0,0.0		80 Secs (70 Secs)	[1]	
								[==>70.0 Secs]		
	2	(1) OGLE-2006-BL G-284	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F606W	FLASH=20	POS TARG 0.21846, 0.01351		80 Secs (70 Secs)	[1]	
								[==>70.0 Secs]		
	3	(1) OGLE-2006-BL G-284	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F606W	FLASH=20	POS TARG 0.08043, 0.22512		80 Secs (70 Secs)	[1]	
								[==>70.0 Secs]		
	4	(1) OGLE-2006-BL G-284	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F606W	FLASH=20	POS TARG 0.29889, 0.23864		80 Secs (70 Secs)	[1]	
								[==>70.0 Secs]		
	5	(1) OGLE-2006-BL G-284	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F606W	FLASH=20	POS TARG 0.56639, 0.11508		80 Secs (70 Secs)	[1]	
								[==>70.0 Secs]		
	6	(1) OGLE-2006-BL G-284	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F606W	FLASH=20	POS TARG 0.78486, 0.12860		80 Secs (70 Secs)	[1]	
								[==>70.0 Secs]		
	7	(1) OGLE-2006-BL G-284	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F606W	FLASH=20	POS TARG 0.64681, 0.34021		80 Secs (70 Secs)	[1]	
								[==>70.0 Secs]		
	8	(1) OGLE-2006-BL G-284	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F606W	FLASH=20	POS TARG 0.90498, 0.35619		80 Secs (70 Secs)	[1]	
								[==>70.0 Secs]		
	9	(1) OGLE-2006-BL G-284	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F606W	FLASH=20	POS TARG 0.08678, 0.53571		80 Secs (70 Secs)	[1]	
								[==>70.0 Secs]		
	10	(1) OGLE-2006-BL G-284	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F606W	FLASH=20	POS TARG 0.30523, 0.54923		80 Secs (70 Secs)	[1]	
								[==>70.0 Secs]		
	11	(1) OGLE-2006-BL G-284	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F606W	FLASH=20	POS TARG 0.20692, 0.76328		80 Secs (70 Secs)	[1]	
								[==>70.0 Secs]		
12	(1) OGLE-2006-BL G-284	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F606W	FLASH=20	POS TARG 0.38565, 0.77434		80 Secs (70 Secs)	[1]		
							[==>70.0 Secs]			
13	(1) OGLE-2006-BL G-284	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F606W	FLASH=20	POS TARG 0.65315, 0.65081		80 Secs (70 Secs)	[1]		
							[==>70.0 Secs]			
14	(1) OGLE-2006-BL G-284	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F606W	FLASH=20	POS TARG 0.87159, 0.66433		80 Secs (70 Secs)	[1]		
							[==>70.0 Secs]			
15	(1) OGLE-2006-BL G-284	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F606W	FLASH=20	POS TARG 0.73356, 0.87593		80 Secs (70 Secs)	[1]		
							[==>70.0 Secs]			
16	(1) OGLE-2006-BL G-284	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F606W	FLASH=20	POS TARG 0.95199, 0.88945		80 Secs (70 Secs)	[1]		
							[==>70.0 Secs]			
17	(1) OGLE-2006-BL G-284	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F814W	FLASH=20	POS TARG 0.0,0.0		80 Secs (69 Secs)	[2]		
							[==>69.0 Secs]			
18	(1) OGLE-2006-BL G-284	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F814W	FLASH=20	POS TARG 0.21846, 0.01351		80 Secs (69 Secs)	[2]		
							[==>69.0 Secs]			
19	(1) OGLE-2006-BL G-284	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F814W	FLASH=20	POS TARG 0.08043, 0.22512		80 Secs (69 Secs)	[2]		
							[==>69.0 Secs]			
20	(1) OGLE-2006-BL G-284	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F814W	FLASH=20	POS TARG 0.29889, 0.23864		80 Secs (69 Secs)	[2]		
							[==>69.0 Secs]			
21	(1) OGLE-2006-BL G-284	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F814W	FLASH=20	POS TARG 0.56639, 0.11508		80 Secs (69 Secs)	[2]		
							[==>69.0 Secs]			
22	(1) OGLE-2006-BL G-284	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F814W	FLASH=20	POS TARG 0.78486, 0.12860		80 Secs (69 Secs)	[2]		
							[==>69.0 Secs]			

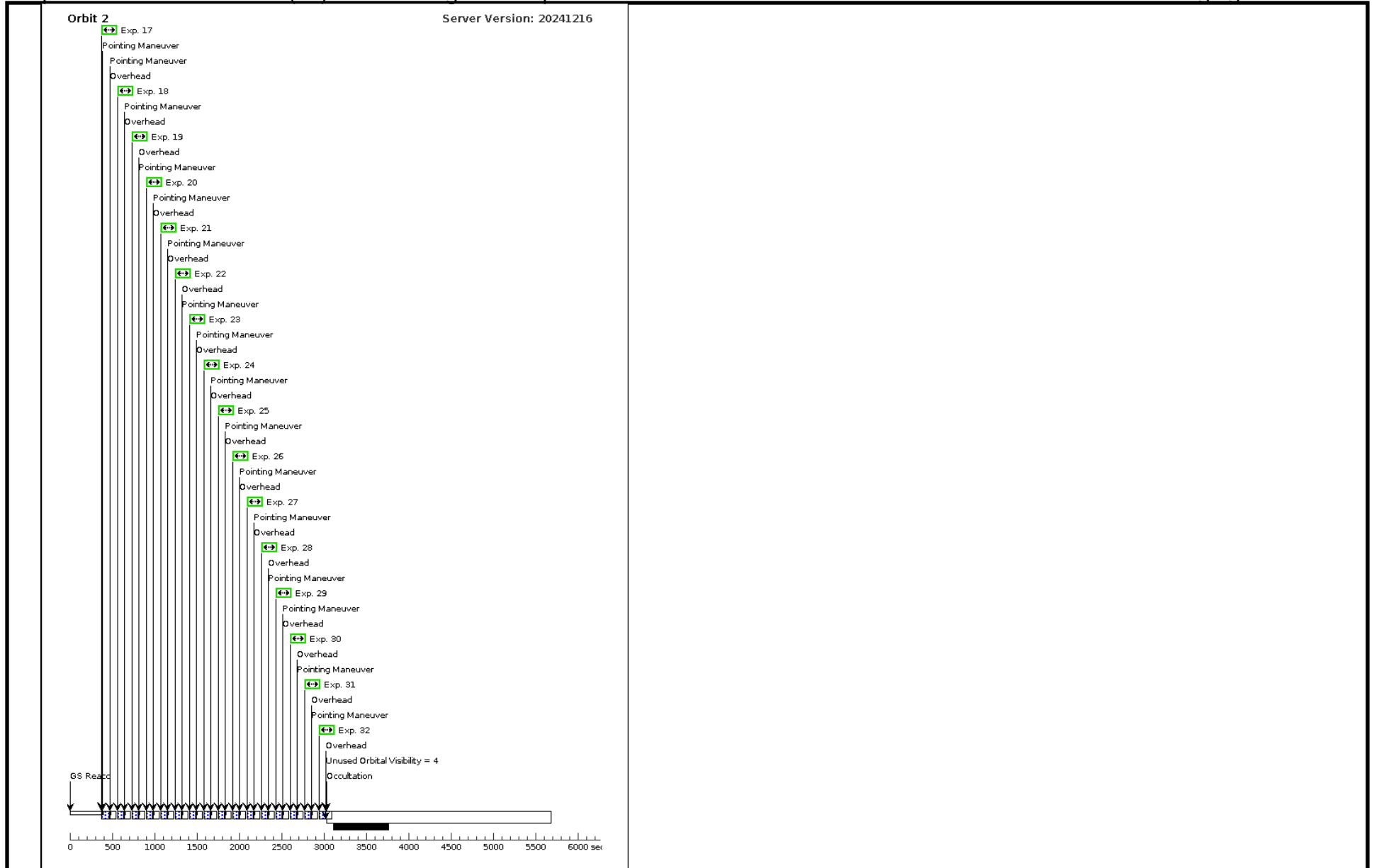
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23	(1) OGLE-2006-BL G-284	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F814W	FLASH=20	POS TARG 0.64681, 0.34021	80 Secs (69 Secs) [==>69.0 Secs]	[2]
24	(1) OGLE-2006-BL G-284	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F814W	FLASH=20	POS TARG 0.90498, 0.35619	80 Secs (69 Secs) [==>69.0 Secs]	[2]
25	(1) OGLE-2006-BL G-284	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F814W	FLASH=20	POS TARG 0.08678, 0.53571	80 Secs (69 Secs) [==>69.0 Secs]	[2]
26	(1) OGLE-2006-BL G-284	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F814W	FLASH=20	POS TARG 0.30523, 0.54923	80 Secs (69 Secs) [==>69.0 Secs]	[2]
27	(1) OGLE-2006-BL G-284	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F814W	FLASH=20	POS TARG 0.20692, 0.76328	80 Secs (69 Secs) [==>69.0 Secs]	[2]
28	(1) OGLE-2006-BL G-284	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F814W	FLASH=20	POS TARG 0.38565, 0.77434	80 Secs (69 Secs) [==>69.0 Secs]	[2]
29	(1) OGLE-2006-BL G-284	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F814W	FLASH=20	POS TARG 0.65315, 0.65081	80 Secs (69 Secs) [==>69.0 Secs]	[2]
30	(1) OGLE-2006-BL G-284	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F814W	FLASH=20	POS TARG 0.87159, 0.66433	80 Secs (69 Secs) [==>69.0 Secs]	[2]
31	(1) OGLE-2006-BL G-284	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F814W	FLASH=20	POS TARG 0.73356, 0.87593	80 Secs (69 Secs) [==>69.0 Secs]	[2]
32	(1) OGLE-2006-BL G-284	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F814W	FLASH=20	POS TARG 0.95199, 0.88945	80 Secs (69 Secs) [==>69.0 Secs]	[2]

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Proposal 17834 - KB190253 (02) - Confirming Serendipitous Microlens Host Detections with New and Archival HST Imaging

Visit	Proposal 17834, KB190253 (02), completed Thu May 08 11:00:38 GMT 2025 Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/UVIS Special Requirements: ORIENT 269D TO 269 D					
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes
(2)		KMT-2019-BLG-0253	RA: 17 51 31.8200 (267.8825833d) Dec: -29 33 55.70 (-29.56547d) Equinox: J2000		V=22.72+/-0.02 I-Magnitude = 19.80 +/- 0.02	Reference Frame: ICRS
	Comments: Category=STAR Description=[BULGE, GRAVITATIONAL LENS]					

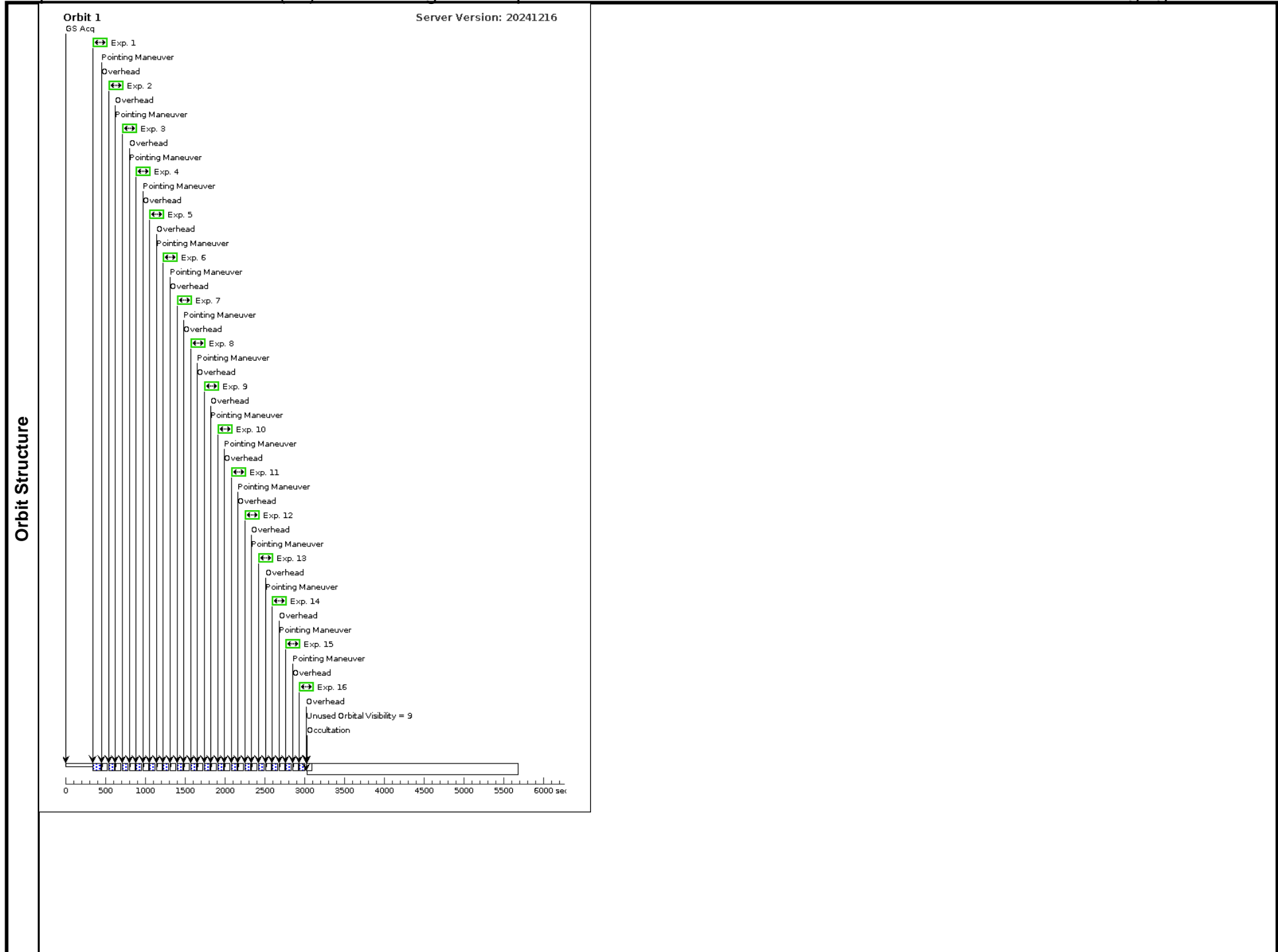
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								[=>70.0 Secs]		
	2	(2) KMT-2019-BLG-0253	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F606W	FLASH=20	POS TARG 0.21846, 0.01351		80 Secs (70 Secs)	[1]	
								[=>70.0 Secs]		
	3	(2) KMT-2019-BLG-0253	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F606W	FLASH=20	POS TARG 0.08043, 0.22512		80 Secs (70 Secs)	[1]	
								[=>70.0 Secs]		
	4	(2) KMT-2019-BLG-0253	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F606W	FLASH=20	POS TARG 0.29889, 0.23864		80 Secs (70 Secs)	[1]	
								[=>70.0 Secs]		
	5	(2) KMT-2019-BLG-0253	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F606W	FLASH=20	POS TARG 0.56639, 0.11508		80 Secs (70 Secs)	[1]	
								[=>70.0 Secs]		
	6	(2) KMT-2019-BLG-0253	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F606W	FLASH=20	POS TARG 0.78486, 0.12860		80 Secs (70 Secs)	[1]	
								[=>70.0 Secs]		
	7	(2) KMT-2019-BLG-0253	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F606W	FLASH=20	POS TARG 0.64681, 0.34021		80 Secs (70 Secs)	[1]	
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								[=>70.0 Secs]		
	10	(2) KMT-2019-BLG-0253	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F606W	FLASH=20	POS TARG 0.30523, 0.54923		80 Secs (70 Secs)	[1]	
								[=>70.0 Secs]		
	11	(2) KMT-2019-BLG-0253	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F606W	FLASH=20	POS TARG 0.20692, 0.76328		80 Secs (70 Secs)	[1]	
								[=>70.0 Secs]		
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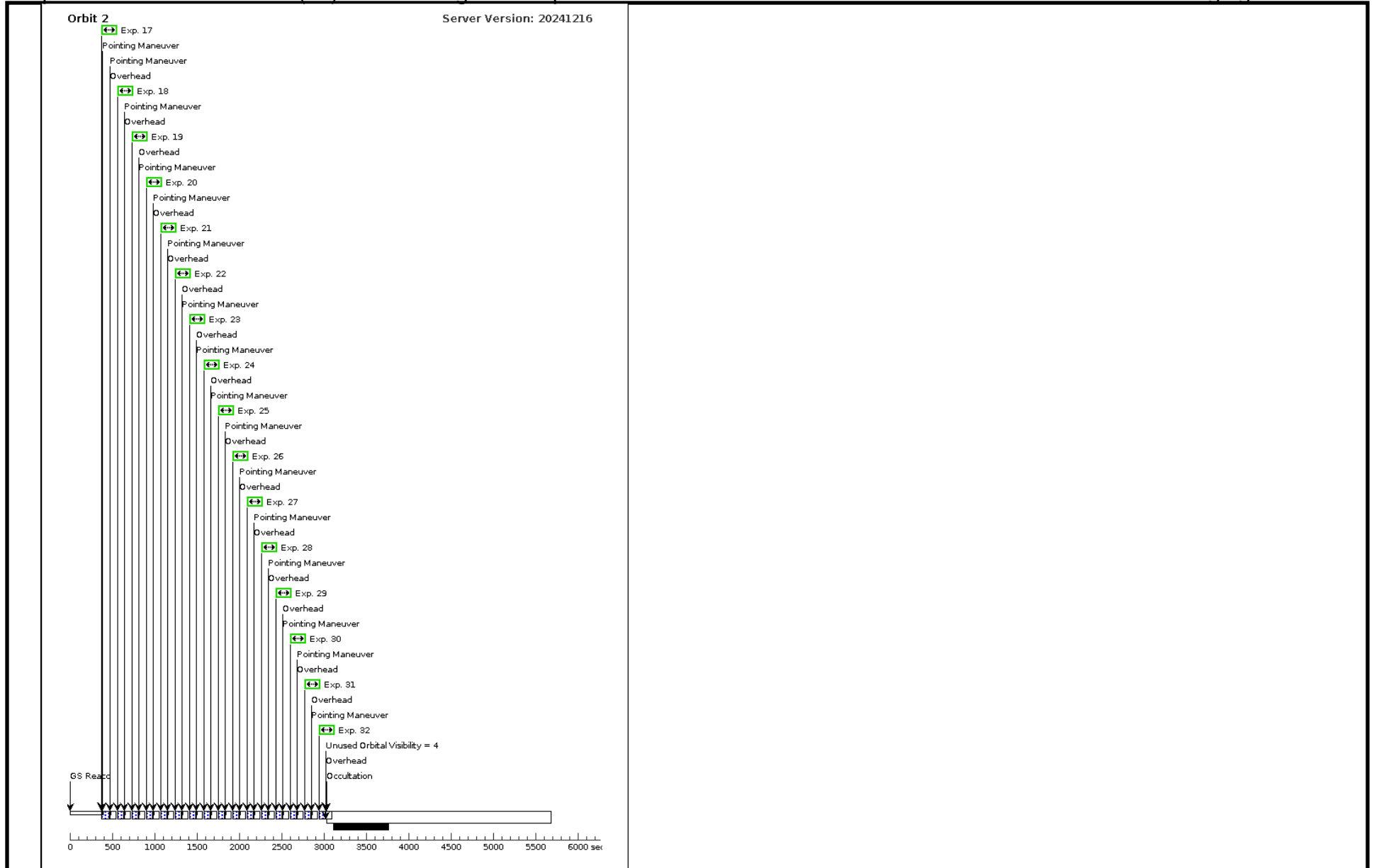
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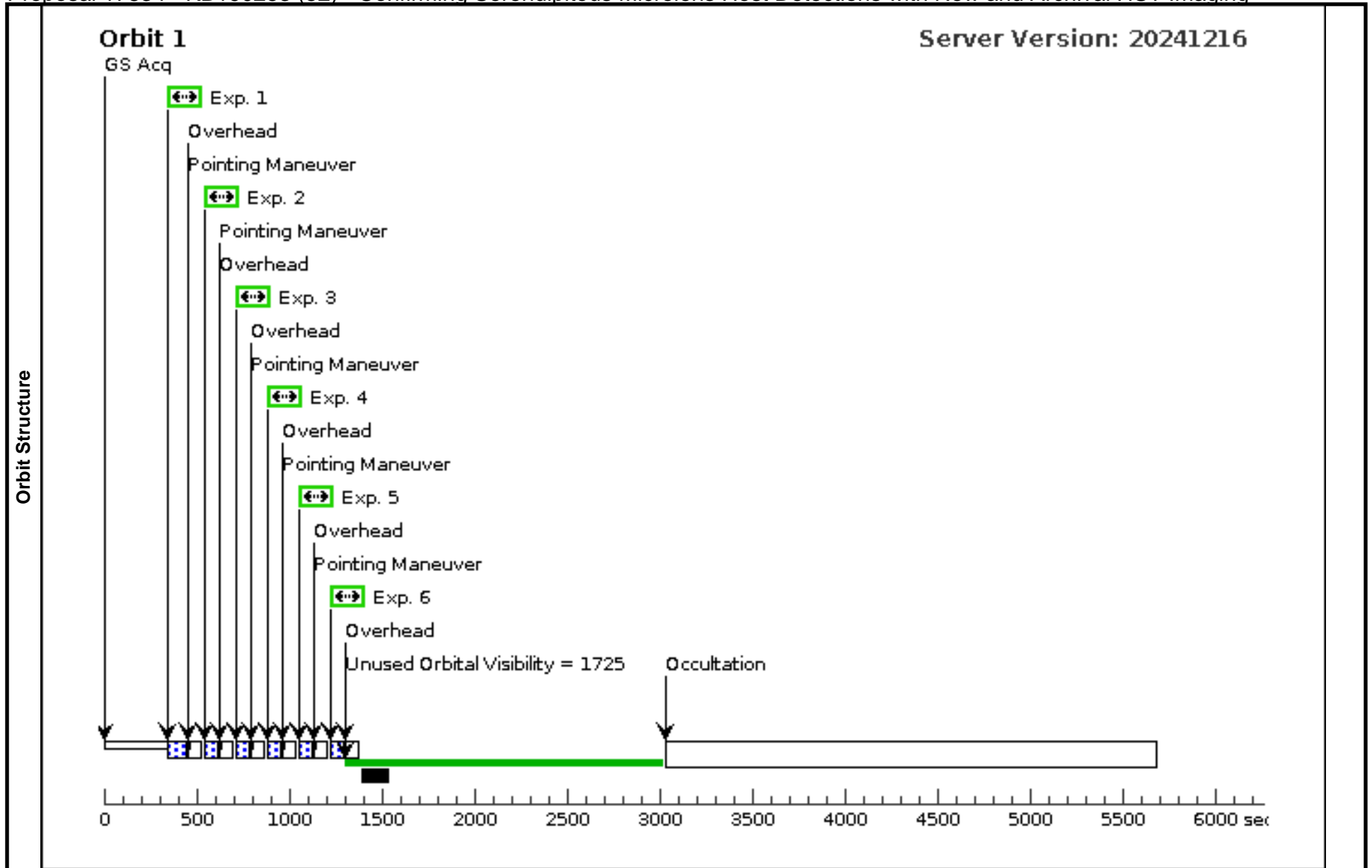
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Proposal 17834 - KB190253 (52) - Confirming Serendipitous Microlens Host Detections with New and Archival HST Imaging

Thu May 08 11:00:39 GMT 2025

Visit	Proposal 17834, KB190253 (52) Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/UVIS Special Requirements: ORIENT 269D TO 269 D Comments: HOPR copy of the last 6 exposures of orbit 2, visit 2, exposure 27-32									
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous			
	(2)	KMT-2019-BLG-0253	RA: 17 51 31.8200 (267.8825833d) Dec: -29 33 55.70 (-29.56547d) Equinox: J2000		V=22.72+/-0.02 I-Magnitude = 19.80 +/- 0.02	Reference Frame: ICRS				
	Comments: Category=STAR Description=[BULGE, GRAVITATIONAL LENS]									
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(2) KMT-2019-BLG-0253	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F814W	FLASH=20	POS TARG 0.20692, 0.76328		80 Secs (69 Secs) [==>69.0 Secs]	[1]
	2		(2) KMT-2019-BLG-0253	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F814W	FLASH=20	POS TARG 0.38565, 0.77434		80 Secs (69 Secs) [==>69.0 Secs]	[1]
	3		(2) KMT-2019-BLG-0253	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F814W	FLASH=20	POS TARG 0.65315, 0.65081		80 Secs (69 Secs) [==>69.0 Secs]	[1]
	4		(2) KMT-2019-BLG-0253	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F814W	FLASH=20	POS TARG 0.87159, 0.66433		80 Secs (69 Secs) [==>69.0 Secs]	[1]
	5		(2) KMT-2019-BLG-0253	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F814W	FLASH=20	POS TARG 0.73356, 0.87593		80 Secs (69 Secs) [==>69.0 Secs]	[1]
	6		(2) KMT-2019-BLG-0253	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F814W	FLASH=20	POS TARG 0.95199, 0.88945		80 Secs (69 Secs) [==>69.0 Secs]	[1]



Proposal 17834 - OB190954 (03) - Confirming Serendipitous Microlens Host Detections with New and Archival HST Imaging

Visit	Proposal 17834, OB190954 (03), completed Thu May 08 11:00:39 GMT 2025 Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/UVIS Special Requirements: ORIENT 269D TO 269 D					
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes
(3)		OGLE-2019-BLG-0954	RA: 17 51 39.1900 (267.9132917d) Dec: -29 36 39.80 (-29.61106d) Equinox: J2000		V=23.68+/-0.10 I-Magnitude = 20.32 +/- 0.07	Reference Frame: ICRS
	Comments: Category=STAR Description=[BULGE, GRAVITATIONAL LENS]					

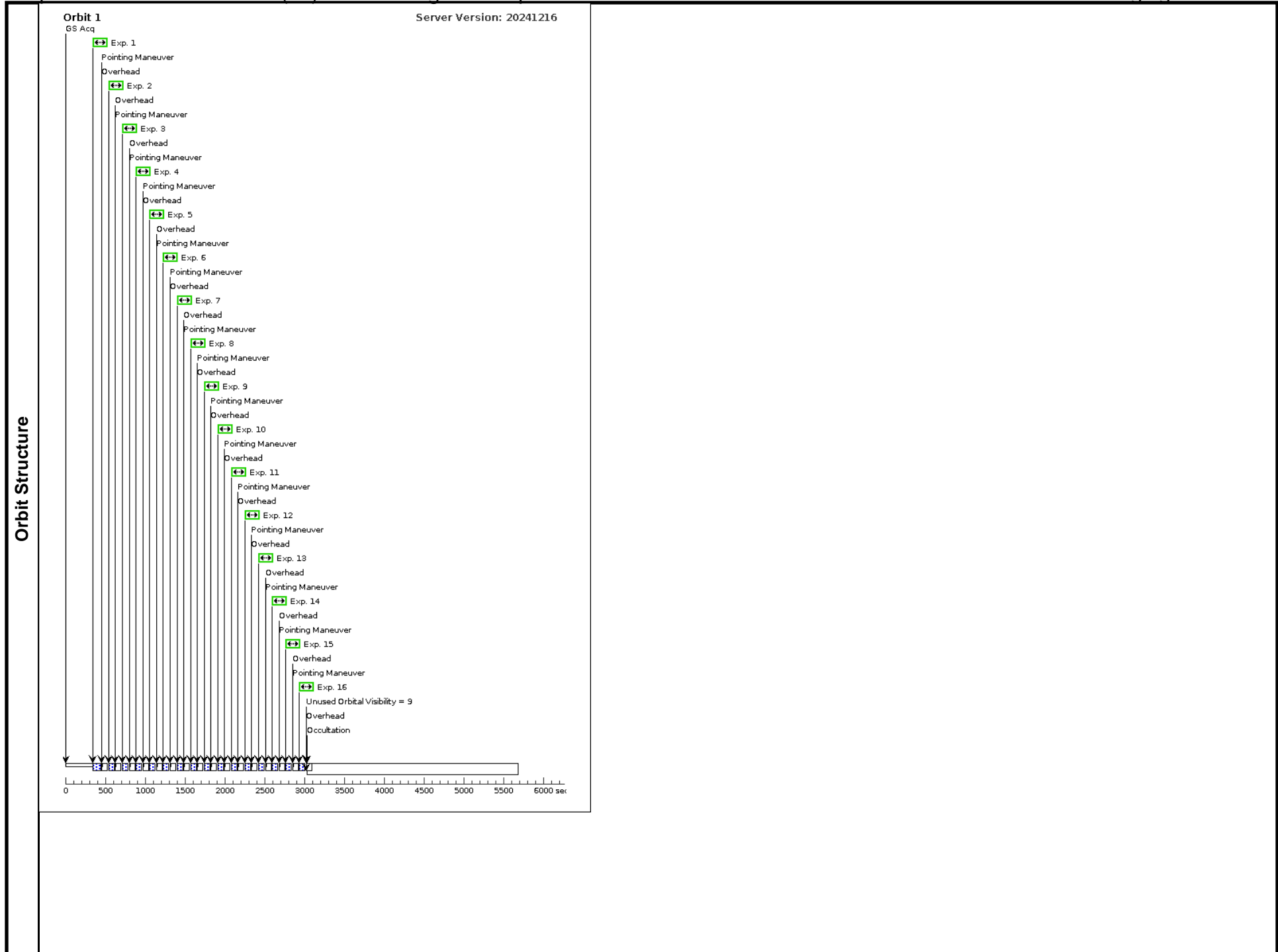
Proposal 17834 - OB190954 (03) - Confirming Serendipitous Microlens Host Detections with New and Archival HST Imaging

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]		Orbit
Exposures	1	(3) OGLE-2019-BL G-0954	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F606W	FLASH=20	POS TARG 0.0,0.0		80 Secs (70 Secs)	[1]	
								[=>70.0 Secs]		
	2	(3) OGLE-2019-BL G-0954	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F606W	FLASH=20	POS TARG 0.21846, 0.01351		80 Secs (70 Secs)	[1]	
								[=>70.0 Secs]		
	3	(3) OGLE-2019-BL G-0954	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F606W	FLASH=20	POS TARG 0.08043, 0.22512		80 Secs (70 Secs)	[1]	
								[=>70.0 Secs]		
	4	(3) OGLE-2019-BL G-0954	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F606W	FLASH=20	POS TARG 0.29889, 0.23864		80 Secs (70 Secs)	[1]	
								[=>70.0 Secs]		
	5	(3) OGLE-2019-BL G-0954	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F606W	FLASH=20	POS TARG 0.56639, 0.11508		80 Secs (70 Secs)	[1]	
								[=>70.0 Secs]		
	6	(3) OGLE-2019-BL G-0954	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F606W	FLASH=20	POS TARG 0.78486, 0.12860		80 Secs (70 Secs)	[1]	
								[=>70.0 Secs]		
	7	(3) OGLE-2019-BL G-0954	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F606W	FLASH=20	POS TARG 0.64681, 0.34021		80 Secs (70 Secs)	[1]	
								[=>70.0 Secs]		
	8	(3) OGLE-2019-BL G-0954	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F606W	FLASH=20	POS TARG 0.90498, 0.35619		80 Secs (70 Secs)	[1]	
								[=>70.0 Secs]		
	9	(3) OGLE-2019-BL G-0954	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F606W	FLASH=20	POS TARG 0.08678, 0.53571		80 Secs (70 Secs)	[1]	
								[=>70.0 Secs]		
	10	(3) OGLE-2019-BL G-0954	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F606W	FLASH=20	POS TARG 0.30523, 0.54923		80 Secs (70 Secs)	[1]	
								[=>70.0 Secs]		
	11	(3) OGLE-2019-BL G-0954	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F606W	FLASH=20	POS TARG 0.20692, 0.76328		80 Secs (70 Secs)	[1]	
								[=>70.0 Secs]		
12	(3) OGLE-2019-BL G-0954	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F606W	FLASH=20	POS TARG 0.38565, 0.77434		80 Secs (70 Secs)	[1]		
							[=>70.0 Secs]			
13	(3) OGLE-2019-BL G-0954	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F606W	FLASH=20	POS TARG 0.65315, 0.65081		80 Secs (70 Secs)	[1]		
							[=>70.0 Secs]			
14	(3) OGLE-2019-BL G-0954	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F606W	FLASH=20	POS TARG 0.87159, 0.66433		80 Secs (70 Secs)	[1]		
							[=>70.0 Secs]			
15	(3) OGLE-2019-BL G-0954	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F606W	FLASH=20	POS TARG 0.73356, 0.87593		80 Secs (70 Secs)	[1]		
							[=>70.0 Secs]			
16	(3) OGLE-2019-BL G-0954	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F606W	FLASH=20	POS TARG 0.95199, 0.88945		80 Secs (70 Secs)	[1]		
							[=>70.0 Secs]			
17	(3) OGLE-2019-BL G-0954	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F814W	FLASH=20	POS TARG 0.0,0.0		80 Secs (69 Secs)	[2]		
							[=>69.0 Secs]			
18	(3) OGLE-2019-BL G-0954	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F814W	FLASH=20	POS TARG 0.21846, 0.01351		80 Secs (69 Secs)	[2]		
							[=>69.0 Secs]			
19	(3) OGLE-2019-BL G-0954	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F814W	FLASH=20	POS TARG 0.08043, 0.22512		80 Secs (69 Secs)	[2]		
							[=>69.0 Secs]			
20	(3) OGLE-2019-BL G-0954	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F814W	FLASH=20	POS TARG 0.29889, 0.23864		80 Secs (69 Secs)	[2]		
							[=>69.0 Secs]			
21	(3) OGLE-2019-BL G-0954	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F814W	FLASH=20	POS TARG 0.56639, 0.11508		80 Secs (69 Secs)	[2]		
							[=>69.0 Secs]			
22	(3) OGLE-2019-BL G-0954	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F814W	FLASH=20	POS TARG 0.78486, 0.12860		80 Secs (69 Secs)	[2]		
							[=>69.0 Secs]			

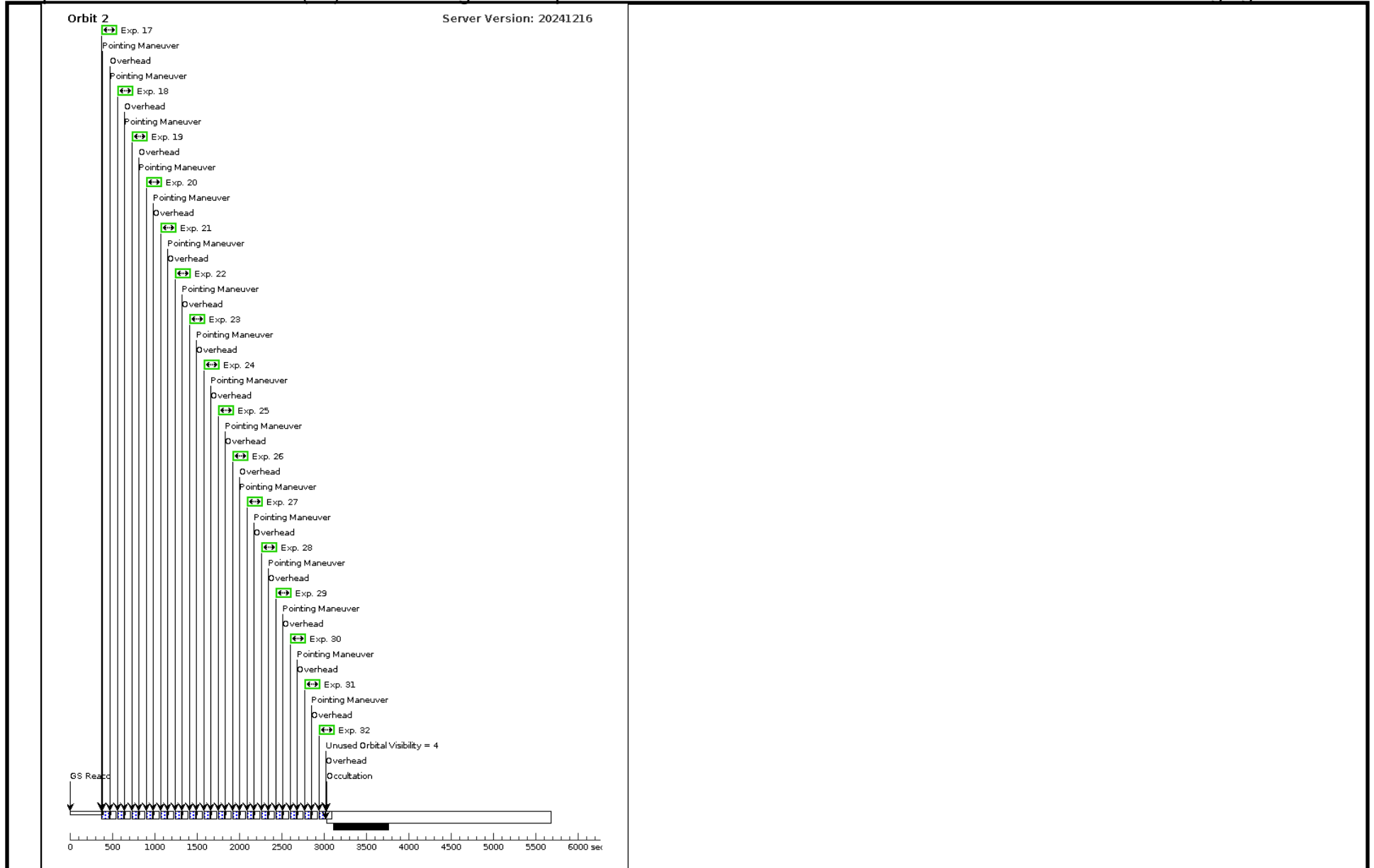
Proposal 17834 - OB190954 (03) - Confirming Serendipitous Microlens Host Detections with New and Archival HST Imaging

23	(3) OGLE-2019-BL G-0954	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F814W	FLASH=20	POS TARG 0.64681, 0.34021	80 Secs (69 Secs) [==>69.0 Secs]	[2]
24	(3) OGLE-2019-BL G-0954	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F814W	FLASH=20	POS TARG 0.90498, 0.35619	80 Secs (69 Secs) [==>69.0 Secs]	[2]
25	(3) OGLE-2019-BL G-0954	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F814W	FLASH=20	POS TARG 0.08678, 0.53571	80 Secs (69 Secs) [==>69.0 Secs]	[2]
26	(3) OGLE-2019-BL G-0954	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F814W	FLASH=20	POS TARG 0.30523, 0.54923	80 Secs (69 Secs) [==>69.0 Secs]	[2]
27	(3) OGLE-2019-BL G-0954	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F814W	FLASH=20	POS TARG 0.20692, 0.76328	80 Secs (69 Secs) [==>69.0 Secs]	[2]
28	(3) OGLE-2019-BL G-0954	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F814W	FLASH=20	POS TARG 0.38565, 0.77434	80 Secs (69 Secs) [==>69.0 Secs]	[2]
29	(3) OGLE-2019-BL G-0954	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F814W	FLASH=20	POS TARG 0.65315, 0.65081	80 Secs (69 Secs) [==>69.0 Secs]	[2]
30	(3) OGLE-2019-BL G-0954	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F814W	FLASH=20	POS TARG 0.87159, 0.66433	80 Secs (69 Secs) [==>69.0 Secs]	[2]
31	(3) OGLE-2019-BL G-0954	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F814W	FLASH=20	POS TARG 0.73356, 0.87593	80 Secs (69 Secs) [==>69.0 Secs]	[2]
32	(3) OGLE-2019-BL G-0954	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F814W	FLASH=20	POS TARG 0.95199, 0.88945	80 Secs (69 Secs) [==>69.0 Secs]	[2]

Proposal 17834 - OB190954 (03) - Confirming Serendipitous Microlens Host Detections with New and Archival HST Imaging



Proposal 17834 - OB190954 (03) - Confirming Serendipitous Microlens Host Detections with New and Archival HST Imaging



Proposal 17834 - MB22465 (04) - Confirming Serendipitous Microlens Host Detections with New and Archival HST Imaging

Visit	Proposal 17834, MB22465 (04), scheduling Thu May 08 11:00:39 GMT 2025 Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/UVIS Special Requirements: ORIENT 269D TO 269 D					
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes
(4)		MOA-2022-BLG-465	RA: 17 58 17.7900 (269.5741250d) Dec: -29 03 12.20 (-29.05339d) Equinox: J2000		V=22.39+/-0.04 I-Magnitude = 20.84 +/- 0.03	Reference Frame: ICRS
	Comments: Category=STAR Description=[BULGE, GRAVITATIONAL LENS]					

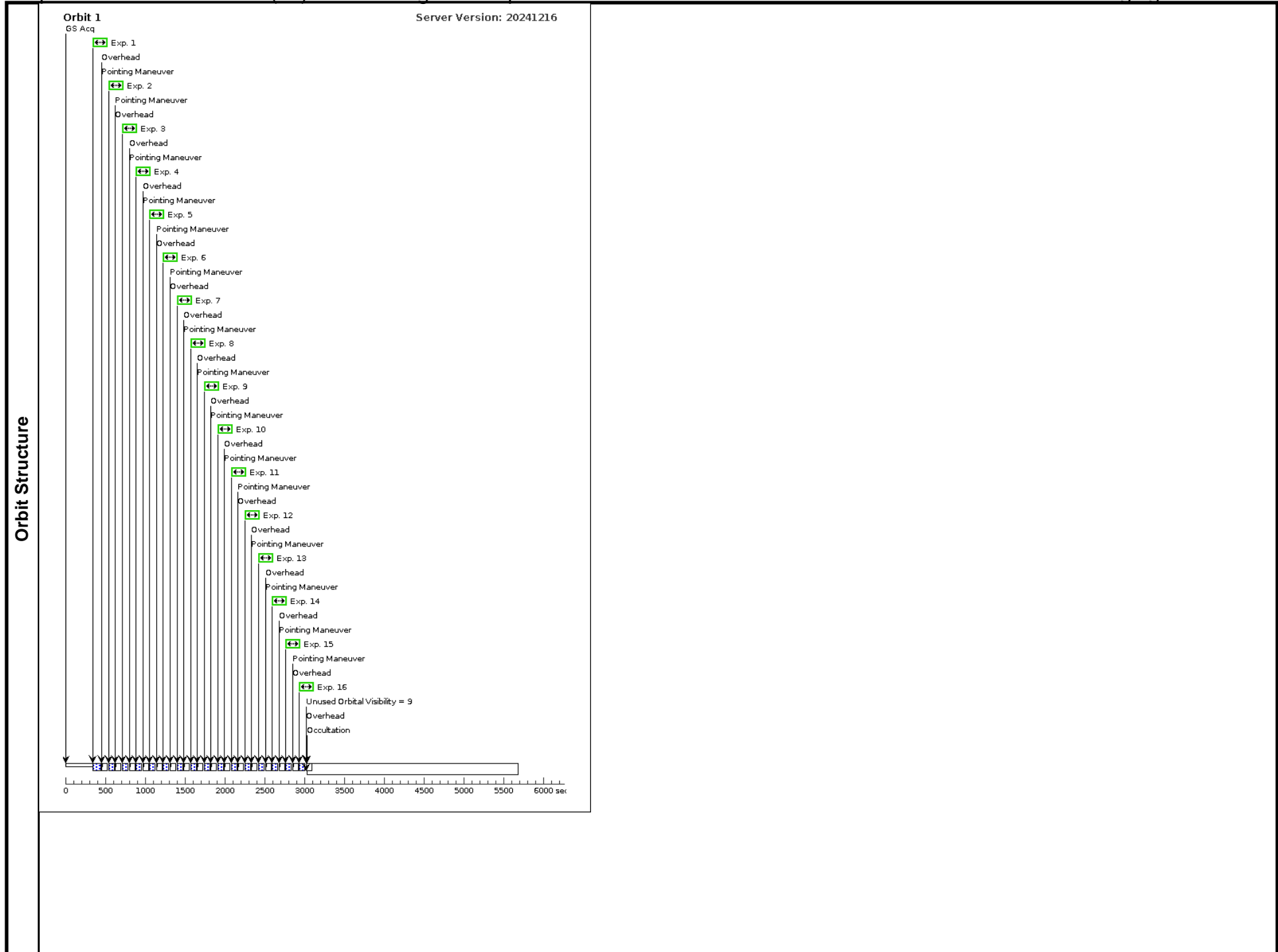
Proposal 17834 - MB22465 (04) - Confirming Serendipitous Microlens Host Detections with New and Archival HST Imaging

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]		Orbit
Exposures	1	(4) MOA-2022-BLG-465	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F606W	FLASH=20	POS TARG 0.0,0.0		80 Secs (70 Secs)	[1]	
								[=>70.0 Secs]		
	2	(4) MOA-2022-BLG-465	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F606W	FLASH=20	POS TARG 0.21846, 0.01351		80 Secs (70 Secs)	[1]	
								[=>70.0 Secs]		
	3	(4) MOA-2022-BLG-465	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F606W	FLASH=20	POS TARG 0.08043, 0.22512		80 Secs (70 Secs)	[1]	
								[=>70.0 Secs]		
	4	(4) MOA-2022-BLG-465	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F606W	FLASH=20	POS TARG 0.29889, 0.23864		80 Secs (70 Secs)	[1]	
								[=>70.0 Secs]		
	5	(4) MOA-2022-BLG-465	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F606W	FLASH=20	POS TARG 0.56639, 0.11508		80 Secs (70 Secs)	[1]	
								[=>70.0 Secs]		
	6	(4) MOA-2022-BLG-465	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F606W	FLASH=20	POS TARG 0.78486, 0.12860		80 Secs (70 Secs)	[1]	
								[=>70.0 Secs]		
	7	(4) MOA-2022-BLG-465	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F606W	FLASH=20	POS TARG 0.64681, 0.34021		80 Secs (70 Secs)	[1]	
								[=>70.0 Secs]		
	8	(4) MOA-2022-BLG-465	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F606W	FLASH=20	POS TARG 0.90498, 0.35619		80 Secs (70 Secs)	[1]	
								[=>70.0 Secs]		
	9	(4) MOA-2022-BLG-465	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F606W	FLASH=20	POS TARG 0.08678, 0.53571		80 Secs (70 Secs)	[1]	
								[=>70.0 Secs]		
	10	(4) MOA-2022-BLG-465	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F606W	FLASH=20	POS TARG 0.30523, 0.54923		80 Secs (70 Secs)	[1]	
								[=>70.0 Secs]		
	11	(4) MOA-2022-BLG-465	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F606W	FLASH=20	POS TARG 0.20692, 0.76328		80 Secs (70 Secs)	[1]	
								[=>70.0 Secs]		
12	(4) MOA-2022-BLG-465	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F606W	FLASH=20	POS TARG 0.38565, 0.77434		80 Secs (70 Secs)	[1]		
							[=>70.0 Secs]			
13	(4) MOA-2022-BLG-465	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F606W	FLASH=20	POS TARG 0.65315, 0.65081		80 Secs (70 Secs)	[1]		
							[=>70.0 Secs]			
14	(4) MOA-2022-BLG-465	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F606W	FLASH=20	POS TARG 0.87159, 0.66433		80 Secs (70 Secs)	[1]		
							[=>70.0 Secs]			
15	(4) MOA-2022-BLG-465	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F606W	FLASH=20	POS TARG 0.73356, 0.87593		80 Secs (70 Secs)	[1]		
							[=>70.0 Secs]			
16	(4) MOA-2022-BLG-465	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F606W	FLASH=20	POS TARG 0.95199, 0.88945		80 Secs (70 Secs)	[1]		
							[=>70.0 Secs]			
17	(4) MOA-2022-BLG-465	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F814W	FLASH=20	POS TARG 0.0,0.0		80 Secs (69 Secs)	[2]		
							[=>69.0 Secs]			
18	(4) MOA-2022-BLG-465	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F814W	FLASH=20	POS TARG 0.21846, 0.01351		80 Secs (69 Secs)	[2]		
							[=>69.0 Secs]			
19	(4) MOA-2022-BLG-465	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F814W	FLASH=20	POS TARG 0.08043, 0.22512		80 Secs (69 Secs)	[2]		
							[=>69.0 Secs]			
20	(4) MOA-2022-BLG-465	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F814W	FLASH=20	POS TARG 0.29889, 0.23864		80 Secs (69 Secs)	[2]		
							[=>69.0 Secs]			
21	(4) MOA-2022-BLG-465	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F814W	FLASH=20	POS TARG 0.56639, 0.11508		80 Secs (69 Secs)	[2]		
							[=>69.0 Secs]			
22	(4) MOA-2022-BLG-465	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F814W	FLASH=20	POS TARG 0.78486, 0.12860		80 Secs (69 Secs)	[2]		
							[=>69.0 Secs]			

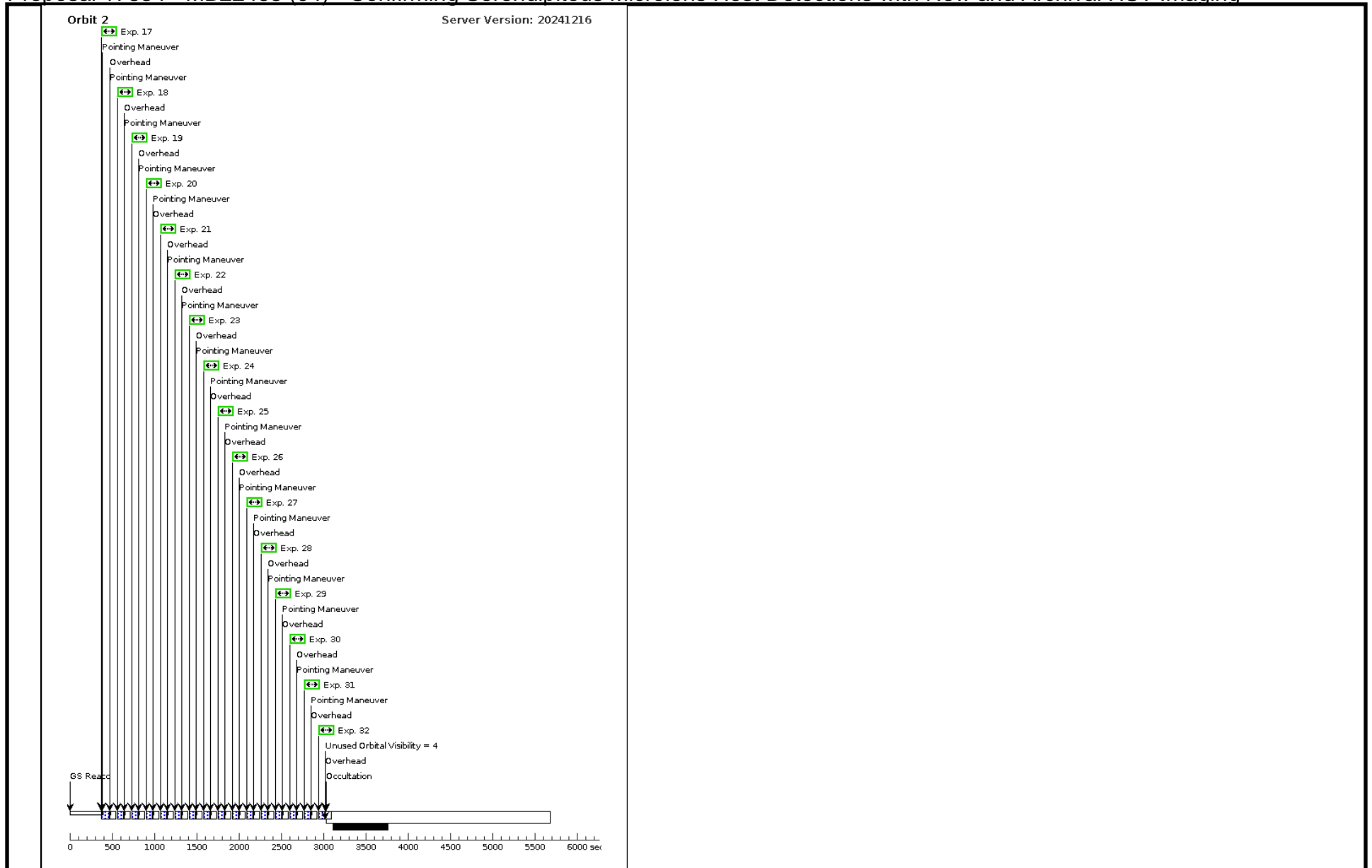
Proposal 17834 - MB22465 (04) - Confirming Serendipitous Microlens Host Detections with New and Archival HST Imaging

23	(4) MOA-2022-BLG-465	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F814W	FLASH=20	POS TARG 0.64681, 0.34021	80 Secs (69 Secs) [==>69.0 Secs]	[2]
24	(4) MOA-2022-BLG-465	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F814W	FLASH=20	POS TARG 0.90498, 0.35619	80 Secs (69 Secs) [==>69.0 Secs]	[2]
25	(4) MOA-2022-BLG-465	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F814W	FLASH=20	POS TARG 0.08678, 0.53571	80 Secs (69 Secs) [==>69.0 Secs]	[2]
26	(4) MOA-2022-BLG-465	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F814W	FLASH=20	POS TARG 0.30523, 0.54923	80 Secs (69 Secs) [==>69.0 Secs]	[2]
27	(4) MOA-2022-BLG-465	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F814W	FLASH=20	POS TARG 0.20692, 0.76328	80 Secs (69 Secs) [==>69.0 Secs]	[2]
28	(4) MOA-2022-BLG-465	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F814W	FLASH=20	POS TARG 0.38565, 0.77434	80 Secs (69 Secs) [==>69.0 Secs]	[2]
29	(4) MOA-2022-BLG-465	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F814W	FLASH=20	POS TARG 0.65315, 0.65081	80 Secs (69 Secs) [==>69.0 Secs]	[2]
30	(4) MOA-2022-BLG-465	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F814W	FLASH=20	POS TARG 0.87159, 0.66433	80 Secs (69 Secs) [==>69.0 Secs]	[2]
31	(4) MOA-2022-BLG-465	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F814W	FLASH=20	POS TARG 0.73356, 0.87593	80 Secs (69 Secs) [==>69.0 Secs]	[2]
32	(4) MOA-2022-BLG-465	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F814W	FLASH=20	POS TARG 0.95199, 0.88945	80 Secs (69 Secs) [==>69.0 Secs]	[2]

Proposal 17834 - MB22465 (04) - Confirming Serendipitous Microlens Host Detections with New and Archival HST Imaging



Proposal 17834 - MB22465 (04) - Confirming Serendipitous Microlens Host Detections with New and Archival HST Imaging



Proposal 17834 - OB230524 (06) - Confirming Serendipitous Microlens Host Detections with New and Archival HST Imaging

Visit	Proposal 17834, OB230524 (06), completed Thu May 08 11:00:39 GMT 2025 Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/UVIS Special Requirements: ORIENT 269D TO 269 D					
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes
(5)		OGLE-2023-BLG-0524	RA: 18 05 14.9200 (271.3121667d) Dec: -27 59 14.00 (-27.98722d) Equinox: J2000		V=20.47+/-0.05 I-Magnitude = 18.90 +/- 0.02	Reference Frame: ICRS
	Comments: Category=STAR Description=[BULGE, GRAVITATIONAL LENS]					

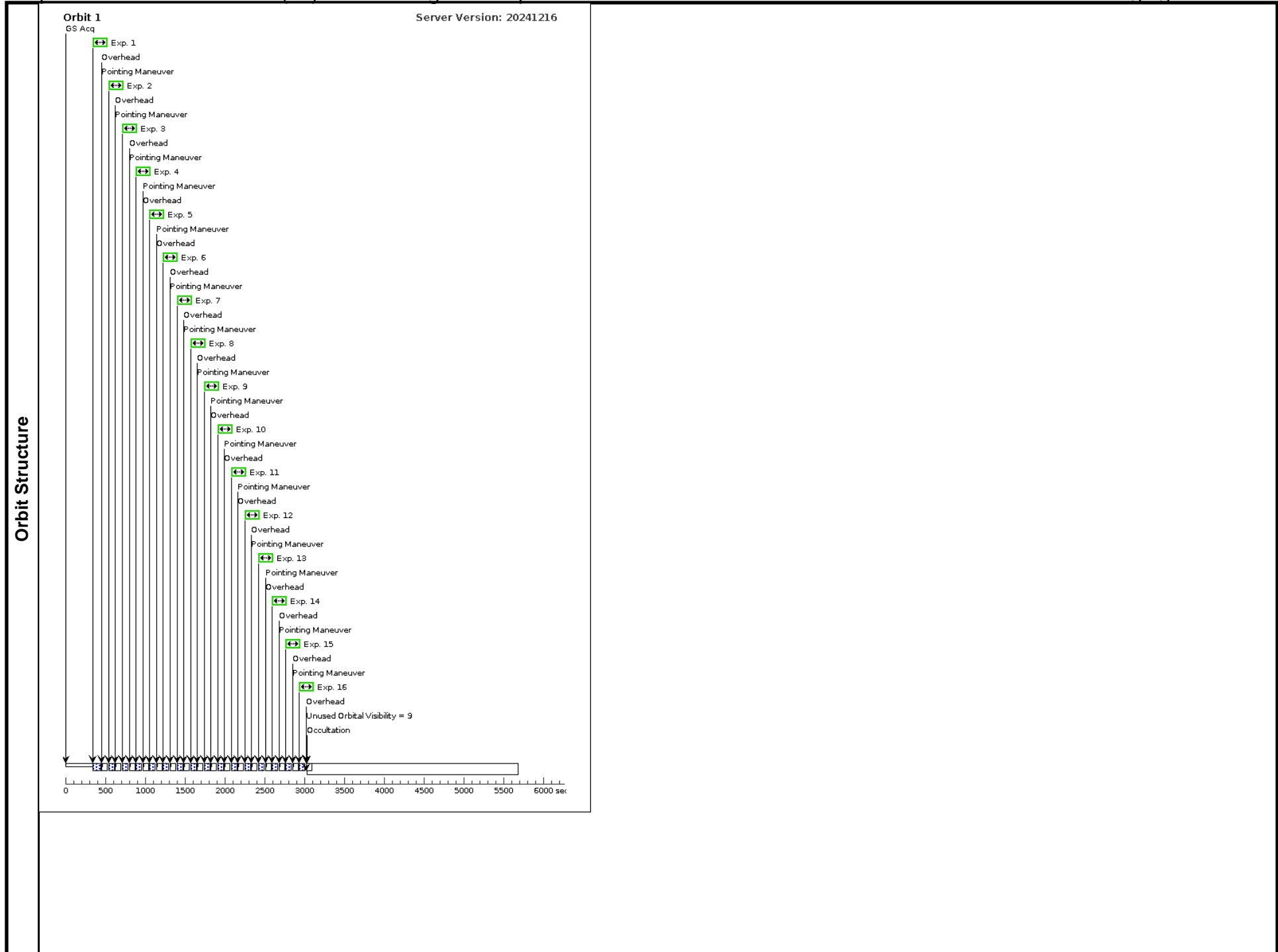
Proposal 17834 - OB230524 (06) - Confirming Serendipitous Microlens Host Detections with New and Archival HST Imaging

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]		Orbit
Exposures	1	(5) OGLE-2023-BL G-0524	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F606W	FLASH=20	POS TARG 0.0,0.0		80 Secs (70 Secs)	[1]	
								[=>70.0 Secs]		
	2	(5) OGLE-2023-BL G-0524	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F606W	FLASH=20	POS TARG 0.21846, 0.01351		80 Secs (70 Secs)	[1]	
								[=>70.0 Secs]		
	3	(5) OGLE-2023-BL G-0524	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F606W	FLASH=20	POS TARG 0.08043, 0.22512		80 Secs (70 Secs)	[1]	
								[=>70.0 Secs]		
	4	(5) OGLE-2023-BL G-0524	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F606W	FLASH=20	POS TARG 0.29889, 0.23864		80 Secs (70 Secs)	[1]	
								[=>70.0 Secs]		
	5	(5) OGLE-2023-BL G-0524	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F606W	FLASH=20	POS TARG 0.56639, 0.11508		80 Secs (70 Secs)	[1]	
								[=>70.0 Secs]		
	6	(5) OGLE-2023-BL G-0524	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F606W	FLASH=20	POS TARG 0.78486, 0.12860		80 Secs (70 Secs)	[1]	
								[=>70.0 Secs]		
	7	(5) OGLE-2023-BL G-0524	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F606W	FLASH=20	POS TARG 0.64681, 0.34021		80 Secs (70 Secs)	[1]	
								[=>70.0 Secs]		
	8	(5) OGLE-2023-BL G-0524	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F606W	FLASH=20	POS TARG 0.90498, 0.35619		80 Secs (70 Secs)	[1]	
								[=>70.0 Secs]		
	9	(5) OGLE-2023-BL G-0524	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F606W	FLASH=20	POS TARG 0.08678, 0.53571		80 Secs (70 Secs)	[1]	
								[=>70.0 Secs]		
	10	(5) OGLE-2023-BL G-0524	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F606W	FLASH=20	POS TARG 0.30523, 0.54923		80 Secs (70 Secs)	[1]	
								[=>70.0 Secs]		
	11	(5) OGLE-2023-BL G-0524	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F606W	FLASH=20	POS TARG 0.20692, 0.76328		80 Secs (70 Secs)	[1]	
								[=>70.0 Secs]		
12	(5) OGLE-2023-BL G-0524	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F606W	FLASH=20	POS TARG 0.38565, 0.77434		80 Secs (70 Secs)	[1]		
							[=>70.0 Secs]			
13	(5) OGLE-2023-BL G-0524	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F606W	FLASH=20	POS TARG 0.65315, 0.65081		80 Secs (70 Secs)	[1]		
							[=>70.0 Secs]			
14	(5) OGLE-2023-BL G-0524	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F606W	FLASH=20	POS TARG 0.87159, 0.66433		80 Secs (70 Secs)	[1]		
							[=>70.0 Secs]			
15	(5) OGLE-2023-BL G-0524	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F606W	FLASH=20	POS TARG 0.73356, 0.87593		80 Secs (70 Secs)	[1]		
							[=>70.0 Secs]			
16	(5) OGLE-2023-BL G-0524	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F606W	FLASH=20	POS TARG 0.95199, 0.88945		80 Secs (70 Secs)	[1]		
							[=>70.0 Secs]			
17	(5) OGLE-2023-BL G-0524	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F814W	FLASH=20	POS TARG 0.0,0.0		80 Secs (69 Secs)	[2]		
							[=>69.0 Secs]			
18	(5) OGLE-2023-BL G-0524	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F814W	FLASH=20	POS TARG 0.21846, 0.01351		80 Secs (69 Secs)	[2]		
							[=>69.0 Secs]			
19	(5) OGLE-2023-BL G-0524	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F814W	FLASH=20	POS TARG 0.08043, 0.22512		80 Secs (69 Secs)	[2]		
							[=>69.0 Secs]			
20	(5) OGLE-2023-BL G-0524	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F814W	FLASH=20	POS TARG 0.29889, 0.23864		80 Secs (69 Secs)	[2]		
							[=>69.0 Secs]			
21	(5) OGLE-2023-BL G-0524	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F814W	FLASH=20	POS TARG 0.56639, 0.11508		80 Secs (69 Secs)	[2]		
							[=>69.0 Secs]			
22	(5) OGLE-2023-BL G-0524	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F814W	FLASH=20	POS TARG 0.78486, 0.12860		80 Secs (69 Secs)	[2]		
							[=>69.0 Secs]			

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23	(5) OGLE-2023-BL G-0524	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F814W	FLASH=20	POS TARG 0.64681, 0.34021	80 Secs (69 Secs) [==>69.0 Secs]	[2]
24	(5) OGLE-2023-BL G-0524	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F814W	FLASH=20	POS TARG 0.90498, 0.35619	80 Secs (69 Secs) [==>69.0 Secs]	[2]
25	(5) OGLE-2023-BL G-0524	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F814W	FLASH=20	POS TARG 0.08678, 0.53571	80 Secs (69 Secs) [==>69.0 Secs]	[2]
26	(5) OGLE-2023-BL G-0524	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F814W	FLASH=20	POS TARG 0.30523, 0.54923	80 Secs (69 Secs) [==>69.0 Secs]	[2]
27	(5) OGLE-2023-BL G-0524	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F814W	FLASH=20	POS TARG 0.20692, 0.76328	80 Secs (69 Secs) [==>69.0 Secs]	[2]
28	(5) OGLE-2023-BL G-0524	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F814W	FLASH=20	POS TARG 0.38565, 0.77434	80 Secs (69 Secs) [==>69.0 Secs]	[2]
29	(5) OGLE-2023-BL G-0524	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F814W	FLASH=20	POS TARG 0.65315, 0.65081	80 Secs (69 Secs) [==>69.0 Secs]	[2]
30	(5) OGLE-2023-BL G-0524	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F814W	FLASH=20	POS TARG 0.87159, 0.66433	80 Secs (69 Secs) [==>69.0 Secs]	[2]
31	(5) OGLE-2023-BL G-0524	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F814W	FLASH=20	POS TARG 0.73356, 0.87593	80 Secs (69 Secs) [==>69.0 Secs]	[2]
32	(5) OGLE-2023-BL G-0524	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F814W	FLASH=20	POS TARG 0.95199, 0.88945	80 Secs (69 Secs) [==>69.0 Secs]	[2]

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