



16753 - The radius and magnetic field structure of the smallest white dwarf

Cycle: 29, Proposal Category: GO

(UV Initiative)

(Availability Mode: SUPPORTED)

INVESTIGATORS

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Dr. Harvey B. Richer (CoI) (CSA Member)	University of British Columbia
Dr. Thomas A Prince (CoI)	California Institute of Technology
Prof. Shrinivas R. Kulkarni (CoI)	California Institute of Technology
Prof. Jim Fuller (CoI)	California Institute of Technology
Dr. Adela Kawka (CoI)	Curtin University
Dr. Stephane Vennes (CoI)	Australian National University
Prof. dayal tissa wickramasinghe (CoI)	Australian National University
Prof. Lilia Ferrario (CoI)	Australian National University

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) ZTFJ1901+1458	COS/FUV	2	10-Jun-2024 15:00:18.0	yes
04	(1) ZTFJ1901+1458	COS/FUV	2	10-Jun-2024 15:00:19.0	yes
R4	(1) ZTFJ1901+1458	COS/FUV	2	10-Jun-2024 15:00:20.0	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>
02	(1) ZTFJ1901+1458	STIS/CCD STIS/NUV-MAMA	3	10-Jun-2024 15:00:21.0	yes
03	(1) ZTFJ1901+1458	STIS/CCD STIS/NUV-MAMA	3	10-Jun-2024 15:00:23.0	yes
R5	(1) ZTFJ1901+1458	STIS/CCD STIS/NUV-MAMA	1	10-Jun-2024 15:00:23.0	yes

13 Total Orbits Used

ABSTRACT

The white dwarf ZTF J1901+1458 is extreme in almost every regard: it rotates every 6.94 minutes, one of the shortest periods measured for an isolated white dwarf, it is threaded by a magnetic field of almost a billion Gauss, and is the smallest white dwarf for which a radius has been measured, with a size comparable to that of the Moon. The white dwarf is so compact, that it might be gravitationally unstable and headed toward collapse. The radius's measurement, however, hinges on assumptions on the white dwarf's spectral distribution that can only be verified by ultraviolet spectroscopy. Moreover, a UV spectrum will allow a detailed modeling of the white dwarf's magnetic field strength and morphology.

OBSERVING DESCRIPTION

The purpose of this program is to study the SED and lightcurve of the white dwarf ZTF J1901+1458, as well as detect hydrogen absorption features in the far UV. ZTF J1901+1458 is the smallest white dwarf known (with a radius of about 2100 km), which shows signs of a very strong magnetic fields (almost a billion Gauss) and a variation in optical luminosity of about 3% over a period of 6.94 minutes. The proposed observations will allow us to constrain the surface temperature and radius of the white dwarf, as well as its magnetic field strength and structure.

We ask for 4 orbits of COS spectroscopy and 6 orbits of STIS spectroscopy in the time-tag mode, so that we will obtain high signal-to-noise phase resolved spectra and UV lightcurves. For the COS observations, we ask for a different FP-POS in each orbit, for a total of 4. There are no time constraints on the observations, and the 4 visits can be scheduled separately.

The Swift UVOT data for this white dwarf in the UV shows a flattening of the SED, in contrast to what we expect from a non magnetized white dwarf. For this reason, we cannot predict with high confidence the luminosity in the far UV. Thus, we employ two different models in the ETC: a flat

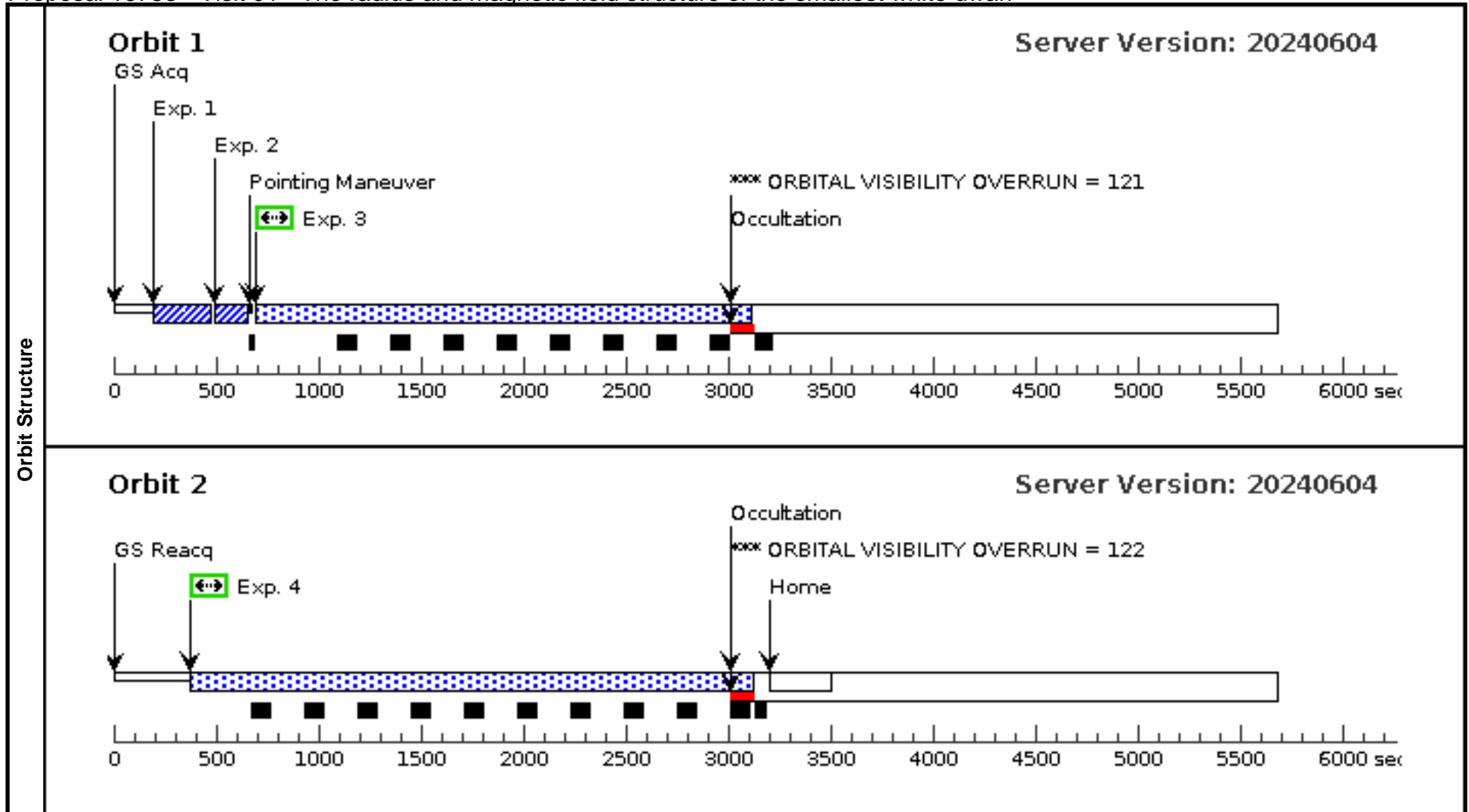
Proposal 16753 (STScI Edit Number: 2, Created: Monday, June 10, 2024 at 2:00:24 PM Eastern Standard Time) - Overview

spectrum normalized to the bluest UVOT filter, which correspond to the faintest hypothesis for the far UV, and the white dwarf spectrum that best fits both the optical and UV data, which predicts a higher number of counts. To be the most conservative, we use the flat spectrum to estimate the exposure times in the targeting mode of COS, while we employ the white dwarf spectrum to estimate the correct buffer times and the exposure times in the targeting mode of STIS.

Proposal 16753 - Visit 01 - The radius and magnetic field structure of the smallest white dwarf

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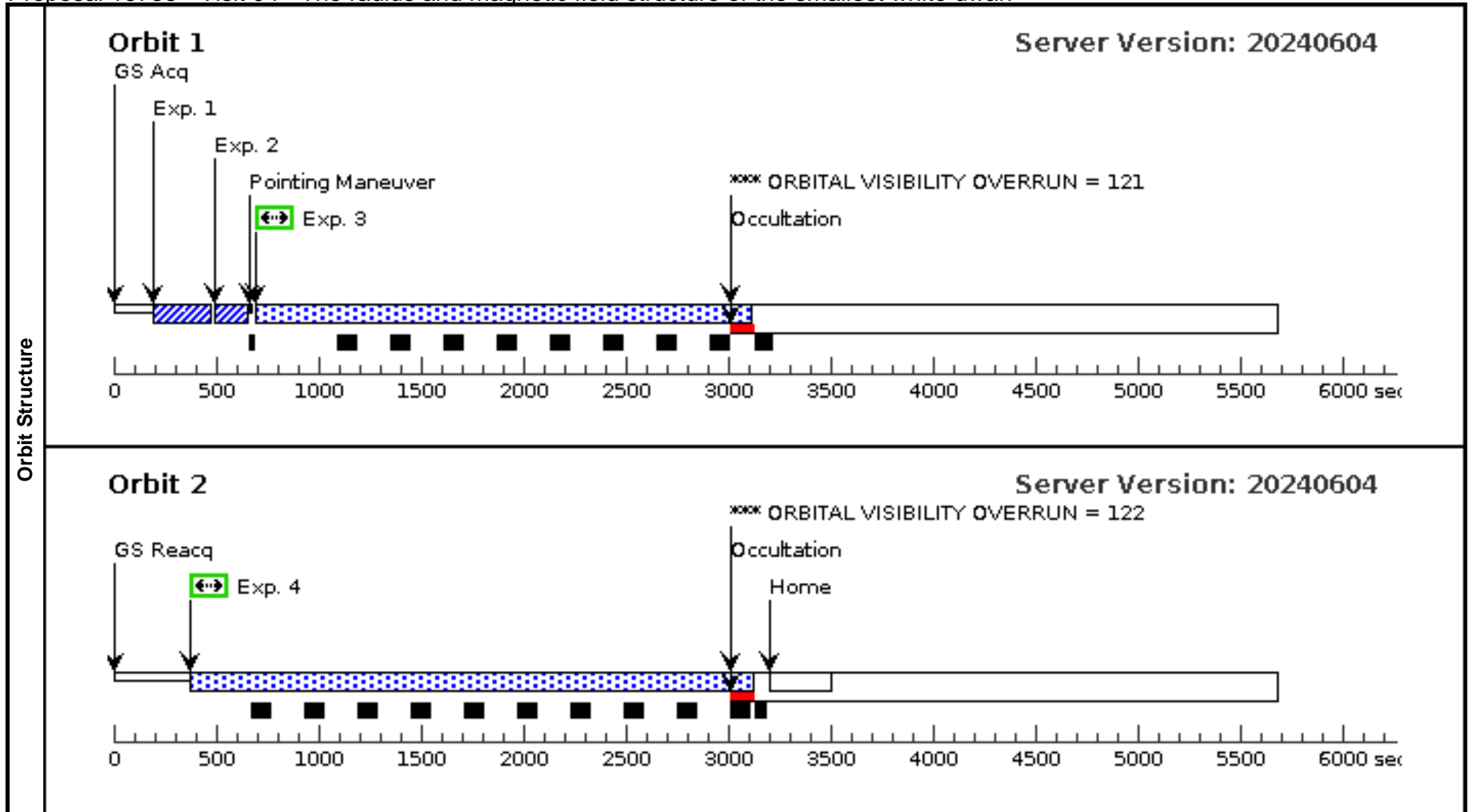
Visit	Proposal 16753, Visit 01, completed Diagnostic Status: Warning Scientific Instruments: COS/FUV Special Requirements: (none)																																																							
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Proposal 16753 - Visit 04 - The radius and magnetic field structure of the smallest white dwarf

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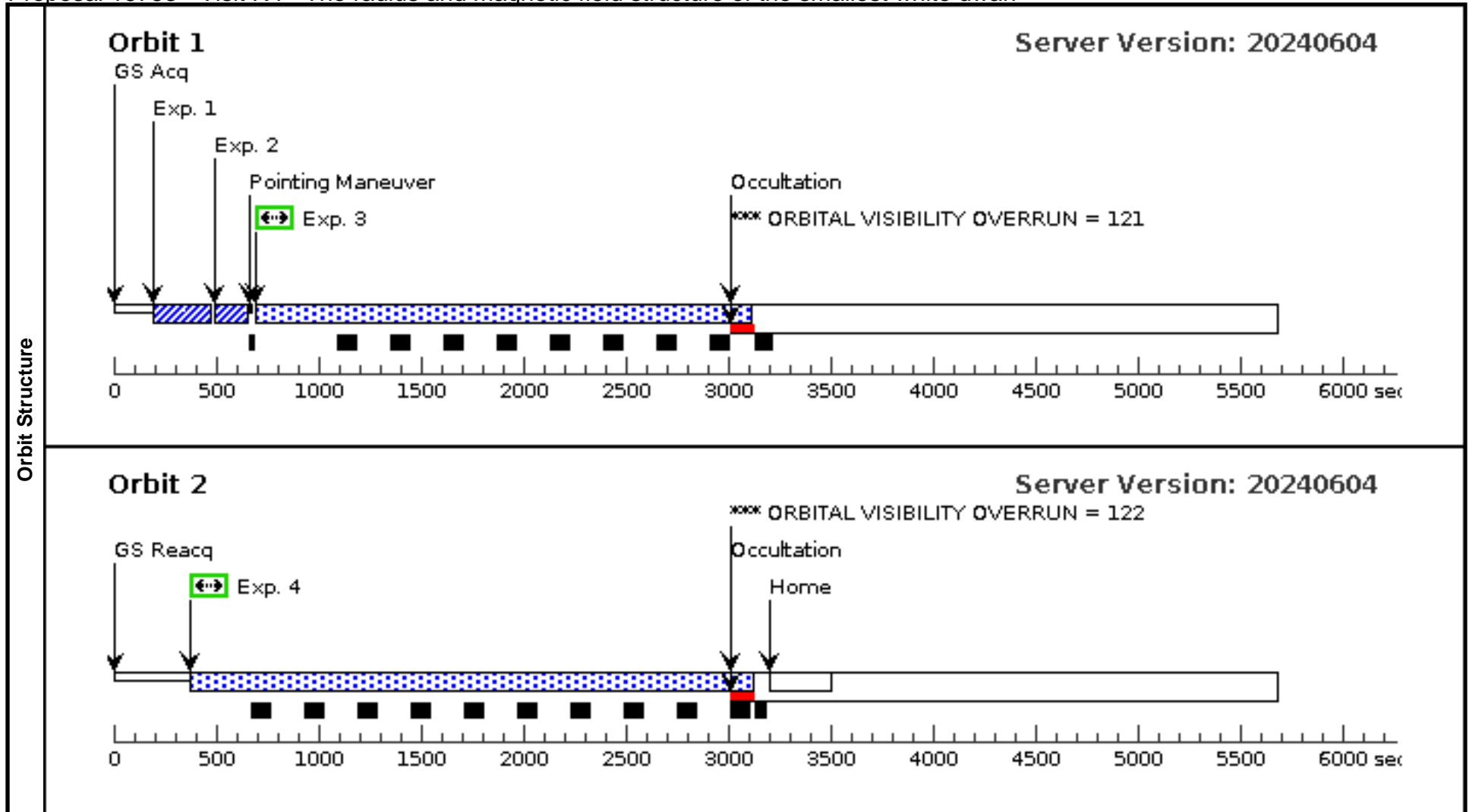
Visit	Proposal 16753, Visit 04, failed Diagnostic Status: Warning Scientific Instruments: COS/FUV Special Requirements: (none)																																																							
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Proposal 16753 - Visit R4 - The radius and magnetic field structure of the smallest white dwarf

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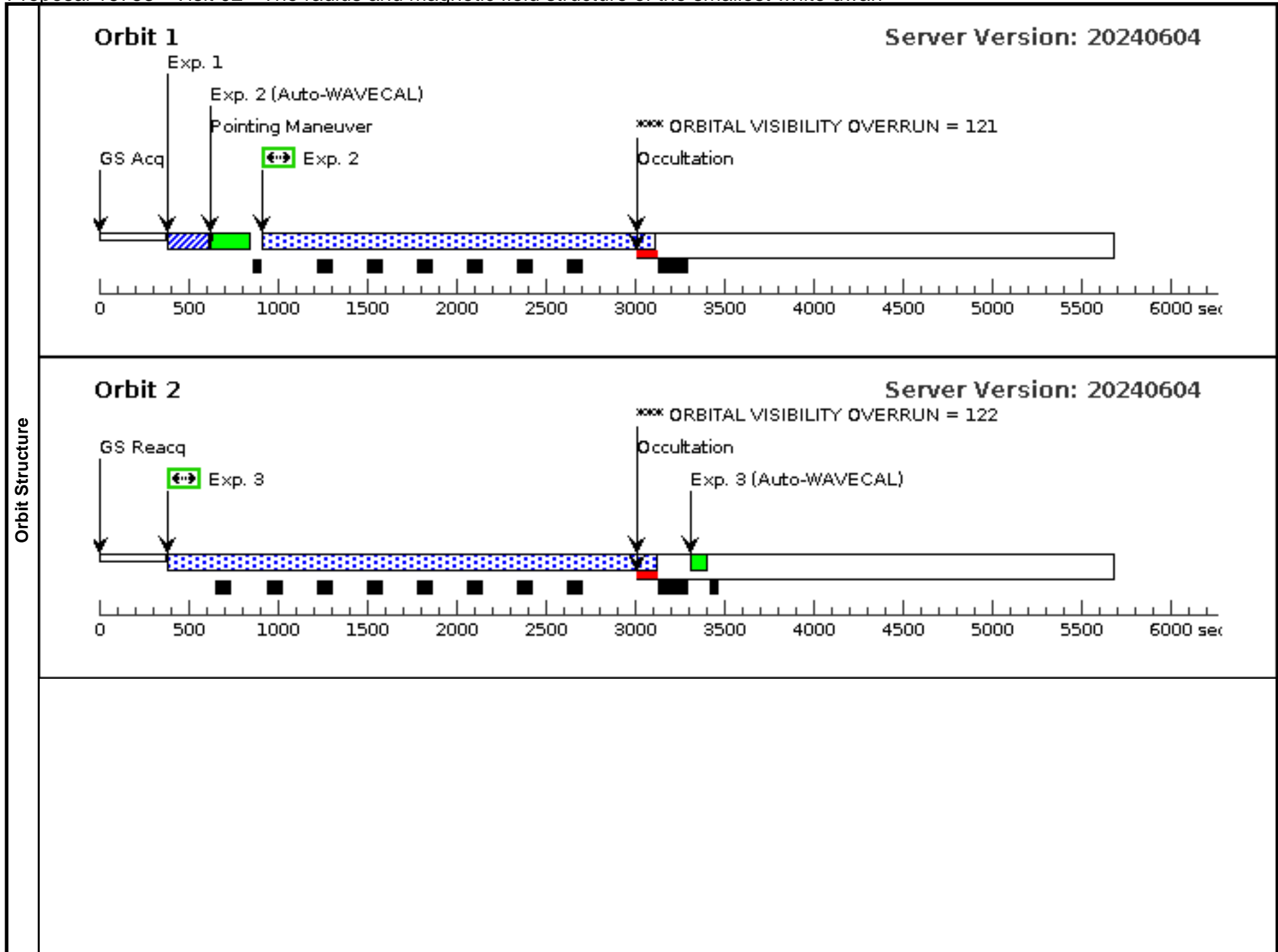
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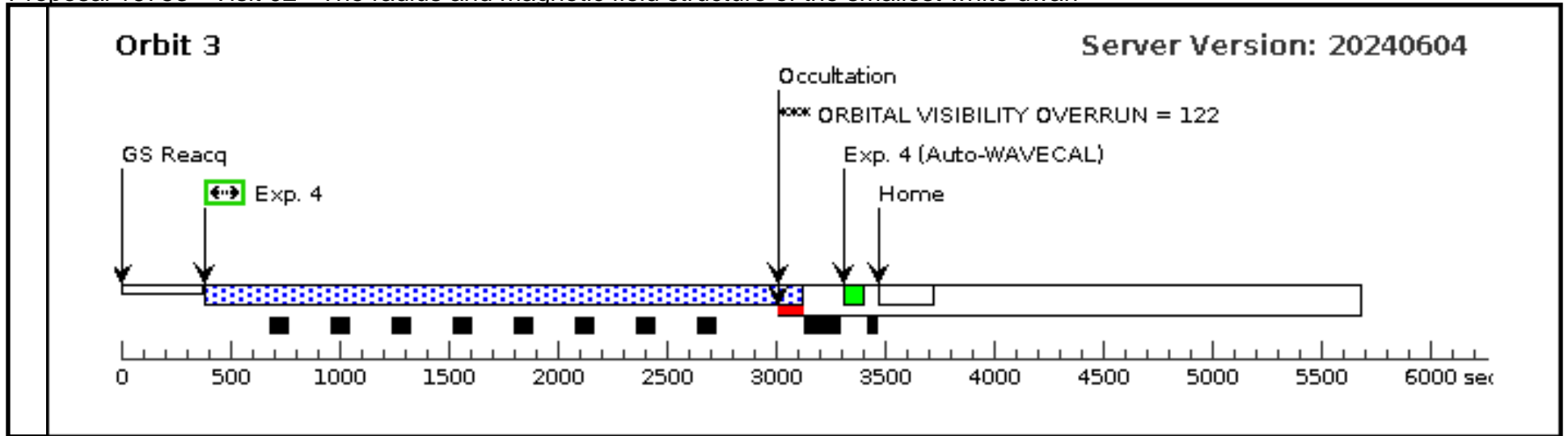


Proposal 16753 - Visit 02 - The radius and magnetic field structure of the smallest white dwarf

Mon Jun 10 19:00:24 GMT 2024

Visit	Proposal 16753, Visit 02, completed Diagnostic Status: Warning Scientific Instruments: STIS/NUV-MAMA, STIS/CCD Special Requirements: (none)																																																						
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<table border="1"> <thead> <tr> <th>#</th> <th>Label (ETC Run)</th> <th>Target</th> <th>Config,Mode,Aperture</th> <th>Spectral Els.</th> <th>Opt. Params.</th> <th>Special Reqs.</th> <th>Groups</th> <th>Exp. Time (Total)/[Actual Dur.]</th> <th>Orbit</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>(1529746)</td> <td>(1) ZTFJ1901+1458</td> <td>STIS/CCD, ACQ, F28X50LP</td> <td>MIRROR</td> <td>ACQTYPE=POINT</td> <td></td> <td></td> <td>1.1 Secs (1.1 Secs) [==>]</td> <td>[1]</td> </tr> <tr> <td>2</td> <td>(1529747)</td> <td>(1) ZTFJ1901+1458</td> <td>STIS/NUV-MAMA, TIME-TAG, 52X2</td> <td>G230L 2376 A</td> <td>BUFFER-TIME=28 0</td> <td></td> <td></td> <td>2165 Secs (2165 Secs) [==>]</td> <td>[1]</td> </tr> <tr> <td>3</td> <td>(1529748)</td> <td>(1) ZTFJ1901+1458</td> <td>STIS/NUV-MAMA, TIME-TAG, 52X2</td> <td>G230L 2376 A</td> <td>BUFFER-TIME=28 0</td> <td></td> <td></td> <td>2729 Secs (2729 Secs) [==>]</td> <td>[2]</td> </tr> <tr> <td>4</td> <td>(1528629)</td> <td>(1) ZTFJ1901+1458</td> <td>STIS/NUV-MAMA, TIME-TAG, 52X2</td> <td>G230L 2376 A</td> <td>BUFFER-TIME=28 0</td> <td></td> <td></td> <td>2729 Secs (2704 Secs) [==>2704.0 Secs]</td> <td>[3]</td> </tr> </tbody> </table>						#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit	1	(1529746)	(1) ZTFJ1901+1458	STIS/CCD, ACQ, F28X50LP	MIRROR	ACQTYPE=POINT			1.1 Secs (1.1 Secs) [==>]	[1]	2	(1529747)	(1) ZTFJ1901+1458	STIS/NUV-MAMA, TIME-TAG, 52X2	G230L 2376 A	BUFFER-TIME=28 0			2165 Secs (2165 Secs) [==>]	[1]	3	(1529748)	(1) ZTFJ1901+1458	STIS/NUV-MAMA, TIME-TAG, 52X2	G230L 2376 A	BUFFER-TIME=28 0			2729 Secs (2729 Secs) [==>]	[2]	4	(1528629)	(1) ZTFJ1901+1458	STIS/NUV-MAMA, TIME-TAG, 52X2	G230L 2376 A	BUFFER-TIME=28 0			2729 Secs (2704 Secs) [==>2704.0 Secs]	[3]
#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit																																														
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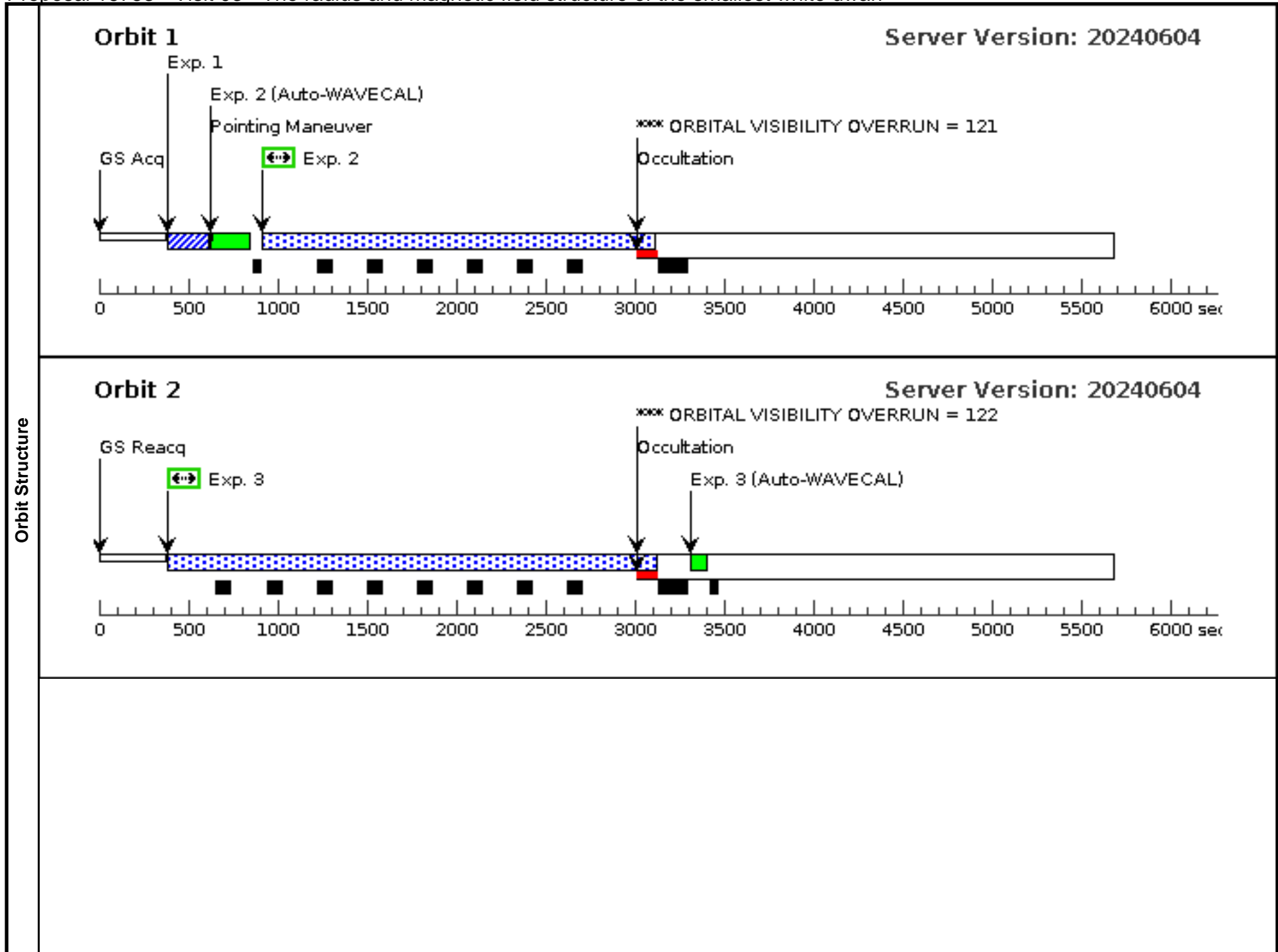


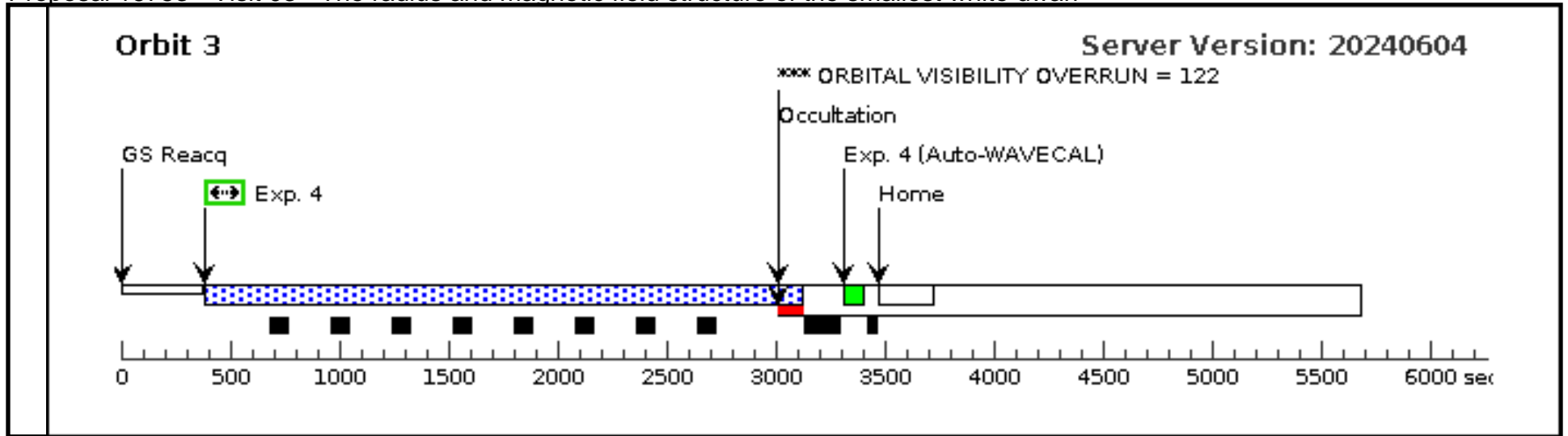


Proposal 16753 - Visit 03 - The radius and magnetic field structure of the smallest white dwarf

Mon Jun 10 19:00:24 GMT 2024

Visit	Proposal 16753, Visit 03, failed Diagnostic Status: Warning Scientific Instruments: STIS/NUV-MAMA, STIS/CCD Special Requirements: (none)									
	(Visit 03) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN (Visit 03) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN (Visit 03) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN									
Diagnosics										
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(1)	ZTFJ1901+1458 Alt Name1: IPHAS-J190132.77+145807.6 Alt Name2: GAIA-DR2-4506869128279648512	RA: 19 01 32.8452 (285.3868550d) Dec: +14 58 8.34 (14.96898d) Equinox: J2000	Proper Motion RA: 95.366 mas/yr Proper Motion Dec: 72.558 mas/yr Parallax: 0.0241538" Epoch of Position: 2016.0	V=15.72+/-0.02 PS1 g 15.51, Swift U 14.94, Swift UVW1 14.42, Swift UVM2 14.40	Reference Frame: ICRS				
Comments: Category=STAR Description=[DA] Extended=NO										
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(1529746)	(1) ZTFJ1901+1458	STIS/CCD, ACQ, F28X50LP	MIRROR	ACQTYPE=POINT			1.1 Secs (1.1 Secs) [==>]	[1]
	2	(1529747)	(1) ZTFJ1901+1458	STIS/NUV-MAMA, TIME-TAG, 52X2	G230L 2376 A	BUFFER-TIME=28 0			2165 Secs (2165 Secs) [==>]	[1]
	3	(1529748)	(1) ZTFJ1901+1458	STIS/NUV-MAMA, TIME-TAG, 52X2	G230L 2376 A	BUFFER-TIME=28 0			2729 Secs (2729 Secs) [==>]	[2]
	4	(1529748)	(1) ZTFJ1901+1458	STIS/NUV-MAMA, TIME-TAG, 52X2	G230L 2376 A	BUFFER-TIME=28 0			2729 Secs (2704 Secs) [==>2704.0 Secs]	[3]





Proposal 16753 - Visit R5 - The radius and magnetic field structure of the smallest white dwarf

Mon Jun 10 19:00:24 GMT 2024

Visit	Proposal 16753, Visit R5, implementation				
	Diagnostic Status: No Diagnostics				
	Scientific Instruments: STIS/NUV-MAMA, STIS/CCD				
	Special Requirements: (none)				

Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(1)	ZTFJ1901+1458	RA: 19 01 32.8452 (285.3868550d)	Proper Motion RA: 95.366 mas/yr	V=15.72+/-0.02	Reference Frame: ICRS
		Alt Name1: IPHAS-J190132.77+145807.6	Dec: +14 58 8.34 (14.96898d)	Proper Motion Dec: 72.558 mas/yr	PS1 g 15.51,	
		Alt Name2: GAIA-DR2-4506869128279648512	Equinox: J2000	Parallax: 0.0241538"	Swift U 14.94,	
				Epoch of Position: 2016.0	Swift UVW1 14.42,	
					Swift UVM2 14.40	
	<i>Comments:</i> Category=STAR Description=[DA] Extended=NO					

Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(1529746)	(1) ZTFJ1901+1458	STIS/CCD, ACQ, F28X50LP	MIRROR	ACQTYPE=POINT			1.1 Secs (1.1 Secs)	
									[==>]	[1]
	2	(1529747)	(1) ZTFJ1901+1458	STIS/NUV-MAMA, TIME-TAG, 52X2	G230L 2376 A	BUFFER-TIME=28 0			2165 Secs (2044 Secs)	
									[==>2044.0 Secs]	[1]

