



17184 - Signatures of neutron star mergers hidden in Gaia Enceladus?

Cycle: 30, 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) HD-194598	STIS/CCD STIS/NUV-MAMA	3	13-Jul-2022 00:02:26.0	yes
02	(1) HD-194598	STIS/CCD STIS/NUV-MAMA	3	13-Jul-2022 00:02:27.0	yes
03	(1) HD-194598	STIS/CCD STIS/NUV-MAMA	4	13-Jul-2022 00:02:28.0	yes
04	(2) HD-111980	STIS/CCD STIS/NUV-MAMA	3	13-Jul-2022 00:02:30.0	yes
05	(2) HD-111980	STIS/CCD STIS/NUV-MAMA	3	13-Jul-2022 00:02:31.0	yes
06	(2) HD-111980	STIS/CCD STIS/NUV-MAMA	4	13-Jul-2022 00:02:32.0	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>
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08	(3) HD-132475	STIS/CCD STIS/NUV-MAMA	3	13-Jul-2022 00:02:34.0	yes
09	(3) HD-132475	STIS/CCD STIS/NUV-MAMA	4	13-Jul-2022 00:02:36.0	yes
10	(4) HD-284248	STIS/CCD STIS/NUV-MAMA	4	13-Jul-2022 00:02:37.0	yes
11	(4) HD-284248	STIS/CCD STIS/NUV-MAMA	4	13-Jul-2022 00:02:39.0	yes
12	(4) HD-284248	STIS/CCD STIS/NUV-MAMA	3	13-Jul-2022 00:02:40.0	yes
13	(4) HD-284248	STIS/CCD STIS/NUV-MAMA	3	13-Jul-2022 00:02:41.0	yes

44 Total Orbits Used

ABSTRACT

The production sites of heavy elements such as Eu and Au are hotly debated. Observational evidence strongly indicates two main sites for the r-process: Neutron star mergers (NSM), and a subset of core-collapse supernovae (r-ccSN). The key question is: What is the difference between the heavy elemental abundance pattern produced by NSM and r-ccSN? This can be answered by looking at stars that have been independently enriched by each source. This is possible by comparing the properties of stars born in the r-process rich accreted galaxy Gaia Enceladus, which is believed to be primarily enriched with NSM, with those stars born in the Milky Way, predominantly enrichment by r-ccSN. For this purpose, a sample of stars with both these origins has been awarded time for high-quality VLT/UVES observations to characterise their chemical signatures. However, many of the key r-process elements are inaccessible from the ground, making HST fundamental for a comprehensive comparison between the two r-process sites. Thus we ask for STIS MAMA HR spectra to measure the detailed r-process abundance pattern for 4 bright stars from the UVES sample: 2 that have primarily been enriched by NSM (Gaia Enceladus), and 2 that are dominated by r-ccSN (the Milky Way). This will be the first time several third peak elements (e.g. Pt, Au) are measured in stars formed outside of the Milky Way, and the combined HST+VLT spectra will provide the most complete abundance pattern that has ever been obtained in an external galaxy. Most importantly, this programme is a unique and innovative way of

observationally probing whether r-ccSN provide a different r-process abundance pattern to NSM.

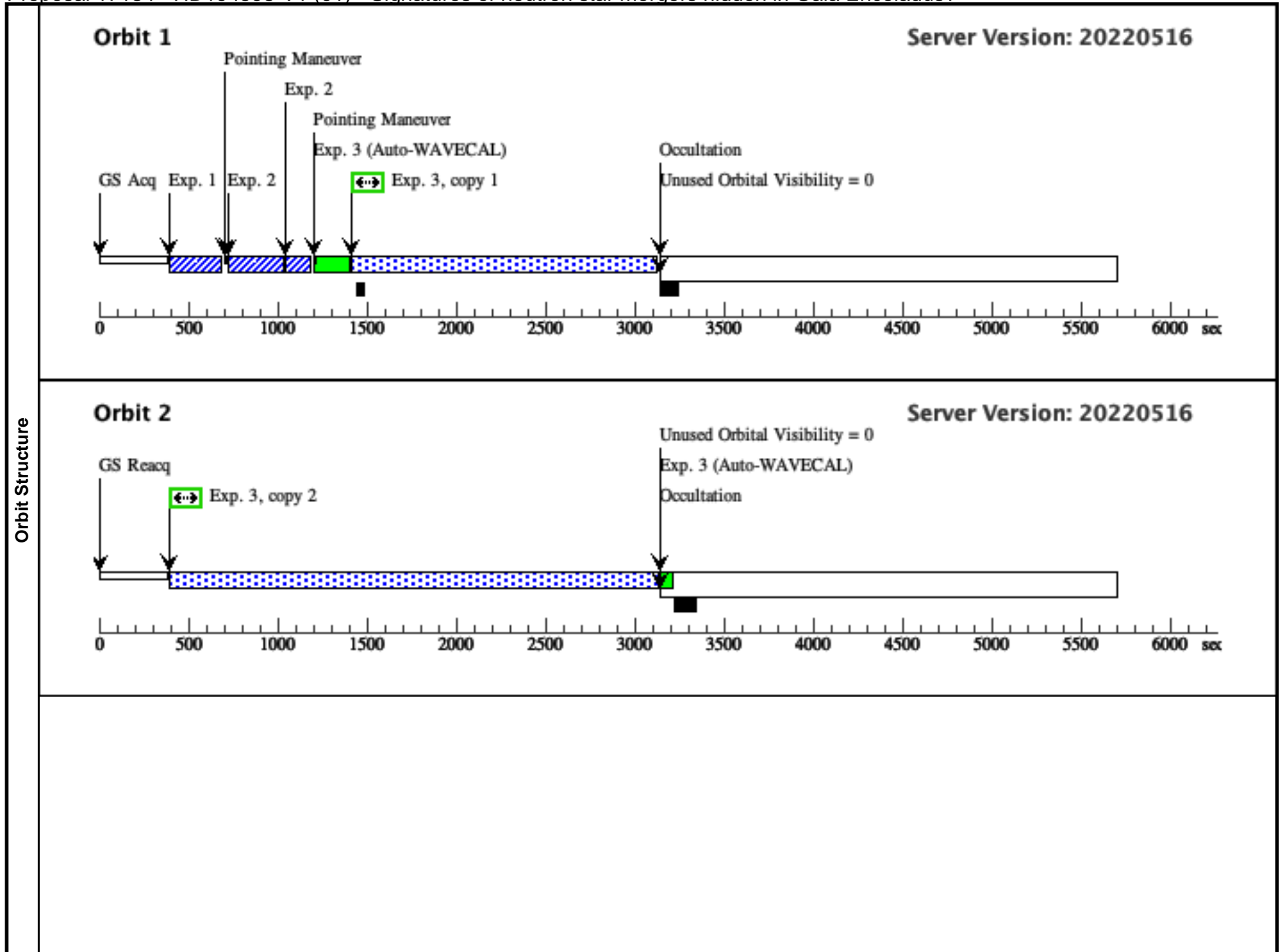
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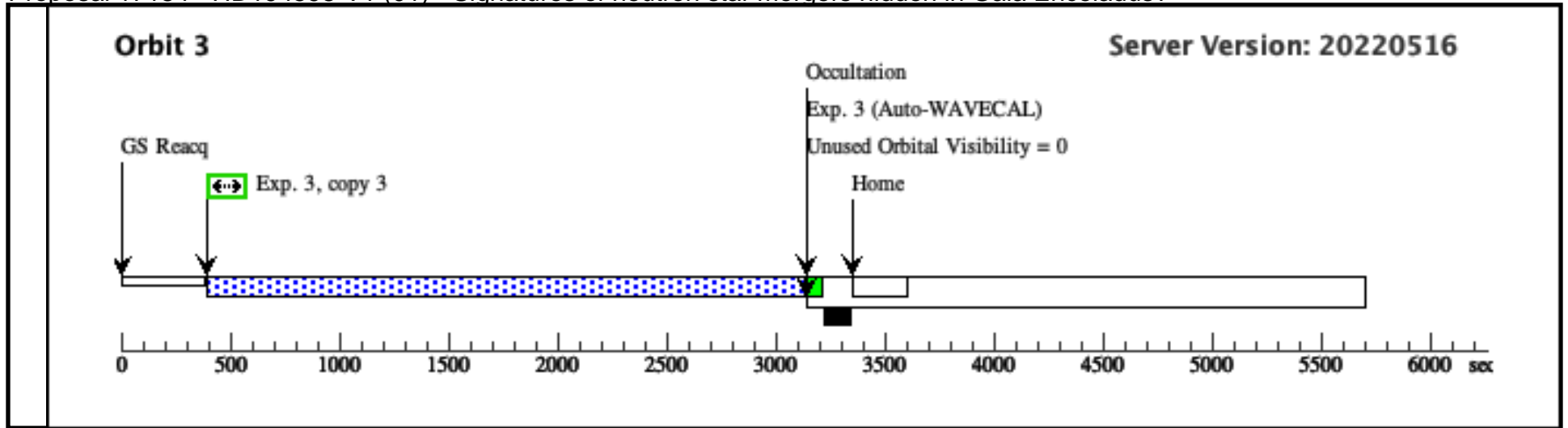
Spectra of stars. S/N important to maximise.

Proposal 17184 - HD194598-V1 (01) - Signatures of neutron star mergers hidden in Gaia Enceladus?

Wed Jul 13 04:02:42 GMT 2022

Visit	Proposal 17184, HD194598-V1 (01), implementation Diagnostic Status: No Diagnostics Scientific Instruments: STIS/NUV-MAMA, STIS/CCD Special Requirements: (none)									
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	<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> Category=STAR Description=[F3-F9]									
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									[==>]	[1]
	2	(STIS.ta.181 1270)	(1) HD-194598	STIS/CCD, ACQ/PEAK, 0.2X0.05ND	MIRROR				1 Secs (1 Secs)	
									[==>]	[1]
3	HD194598-V1 (STIS.sp.18 10026)	(1) HD-194598	STIS/NUV-MAMA, ACCUM, 0.2X0.09	E230H 2762 A				2200 Secs X 3 (7144 Secs)		
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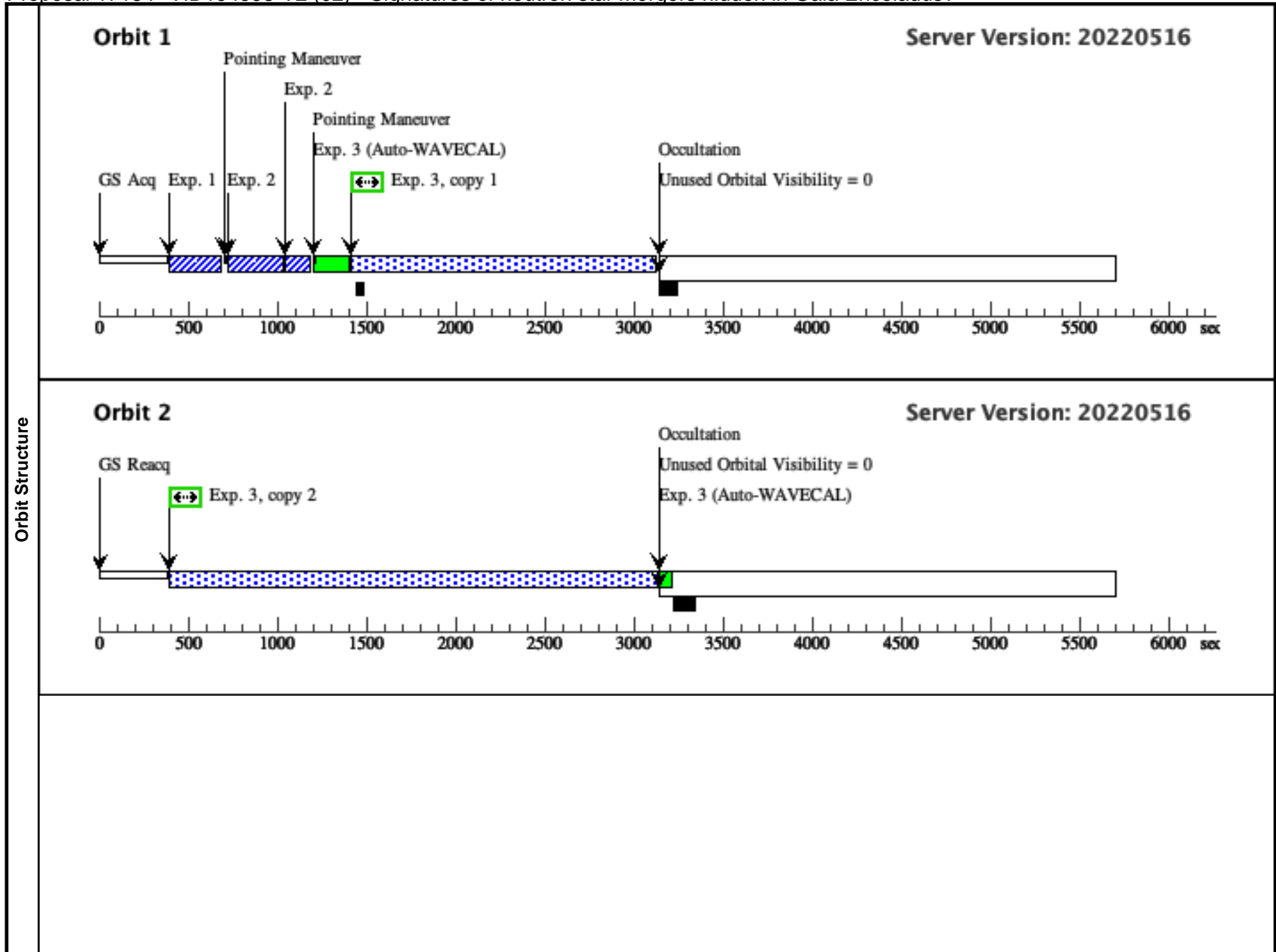


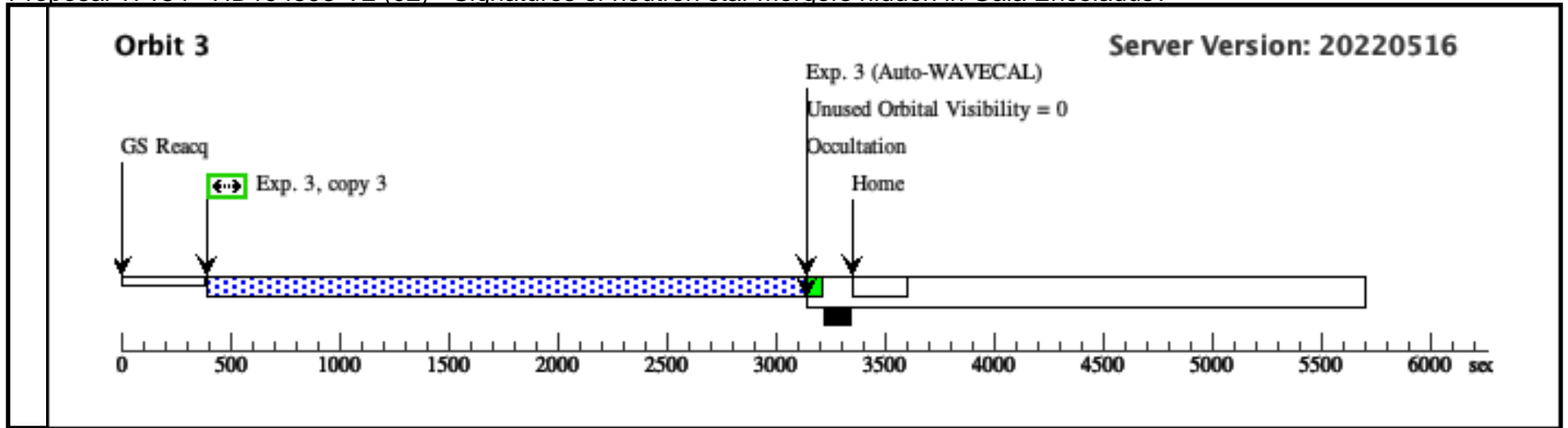


Proposal 17184 - HD194598-V2 (02) - Signatures of neutron star mergers hidden in Gaia Enceladus?

Wed Jul 13 04:02:42 GMT 2022

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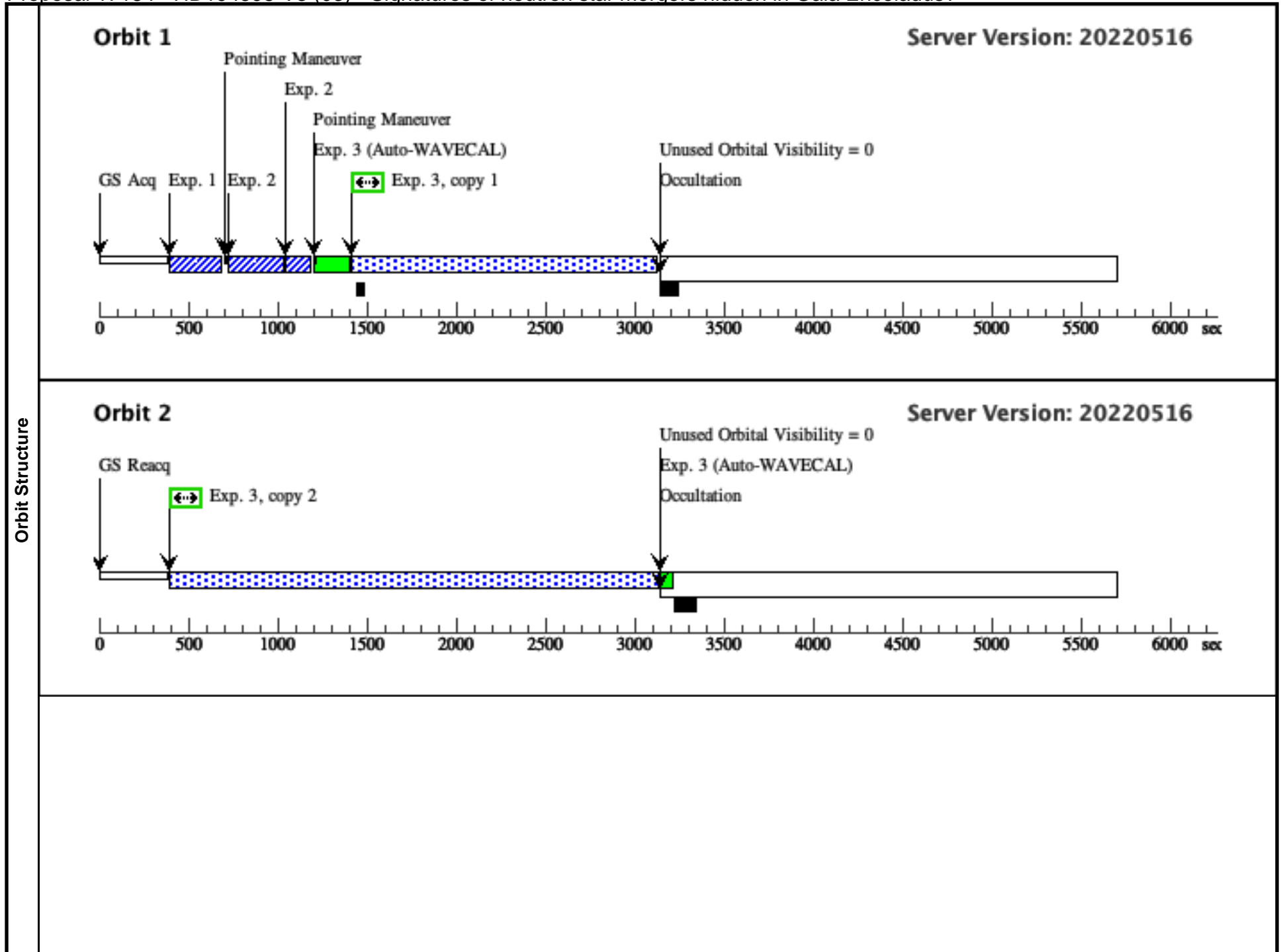


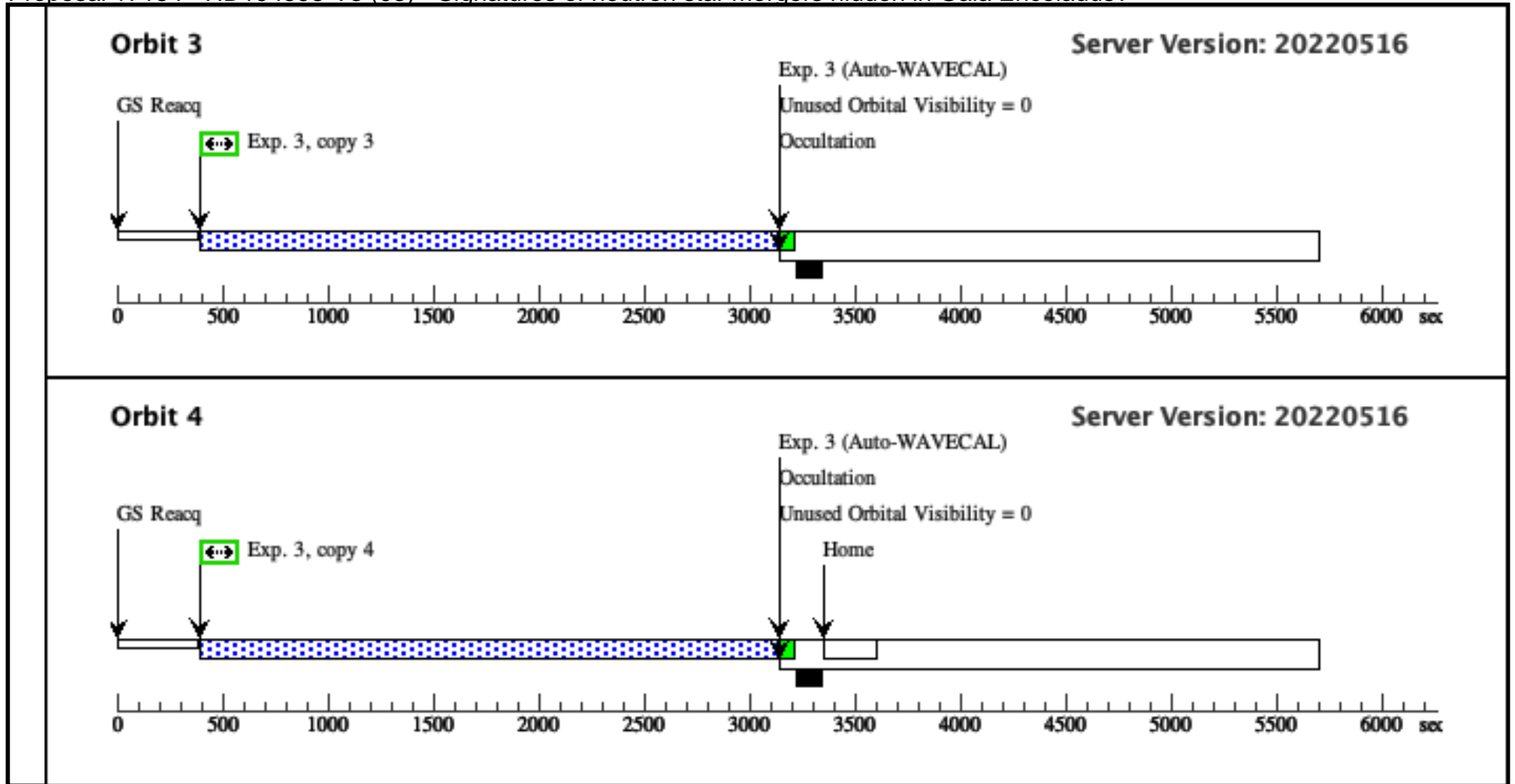


Proposal 17184 - HD194598-V3 (03) - Signatures of neutron star mergers hidden in Gaia Enceladus?

Wed Jul 13 04:02:42 GMT 2022

Visit	Proposal 17184, HD194598-V3 (03) Diagnostic Status: No Diagnostics Scientific Instruments: STIS/NUV-MAMA, STIS/CCD Special Requirements: (none)																																																	
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(1)	HD-194598	RA: 20 26 12.0407 (306.5501696d) Dec: +09 26 51.93 (9.44776d) Equinox: J2000	Proper Motion RA: 0.00788799528690428 sec of time/yr Proper Motion Dec: -0.5483619999040457 arcsec/yr Epoch of Position: 2015.5	V=8.34	Reference Frame: ICRS																																													
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Exposures	<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>(STIS.ta.181 0038)</td> <td>(1) HD-194598</td> <td>STIS/CCD, ACQ, F25ND3</td> <td>MIRROR</td> <td></td> <td></td> <td></td> <td>1 Secs (1 Secs) [==>]</td> <td>[1]</td> </tr> <tr> <td>2</td> <td>(STIS.ta.181 1270)</td> <td>(1) HD-194598</td> <td>STIS/CCD, ACQ/PEAK, 0.2X0.05ND</td> <td>MIRROR</td> <td></td> <td></td> <td></td> <td>1 Secs (1 Secs) [==>]</td> <td>[1]</td> </tr> <tr> <td>3</td> <td>HD194598-V3 (STIS.sp.18 10026)</td> <td>(1) HD-194598</td> <td>STIS/NUV-MAMA, ACCUM, 0.2X0.09</td> <td>E230H 3012 A</td> <td></td> <td></td> <td></td> <td>2200 Secs X 4 (9867 Secs) [==>1698.0 Secs (Copy 1)] [==>2723.0 Secs (Copy 2)] [==>2723.0 Secs (Copy 3)] [==>2723.0 Secs (Copy 4)]</td> <td>[1] [2] [3] [4]</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	(STIS.ta.181 0038)	(1) HD-194598	STIS/CCD, ACQ, F25ND3	MIRROR				1 Secs (1 Secs) [==>]	[1]	2	(STIS.ta.181 1270)	(1) HD-194598	STIS/CCD, ACQ/PEAK, 0.2X0.05ND	MIRROR				1 Secs (1 Secs) [==>]	[1]	3	HD194598-V3 (STIS.sp.18 10026)	(1) HD-194598	STIS/NUV-MAMA, ACCUM, 0.2X0.09	E230H 3012 A				2200 Secs X 4 (9867 Secs) [==>1698.0 Secs (Copy 1)] [==>2723.0 Secs (Copy 2)] [==>2723.0 Secs (Copy 3)] [==>2723.0 Secs (Copy 4)]	[1] [2] [3] [4]
#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit																																									
1	(STIS.ta.181 0038)	(1) HD-194598	STIS/CCD, ACQ, F25ND3	MIRROR				1 Secs (1 Secs) [==>]	[1]																																									
2	(STIS.ta.181 1270)	(1) HD-194598	STIS/CCD, ACQ/PEAK, 0.2X0.05ND	MIRROR				1 Secs (1 Secs) [==>]	[1]																																									
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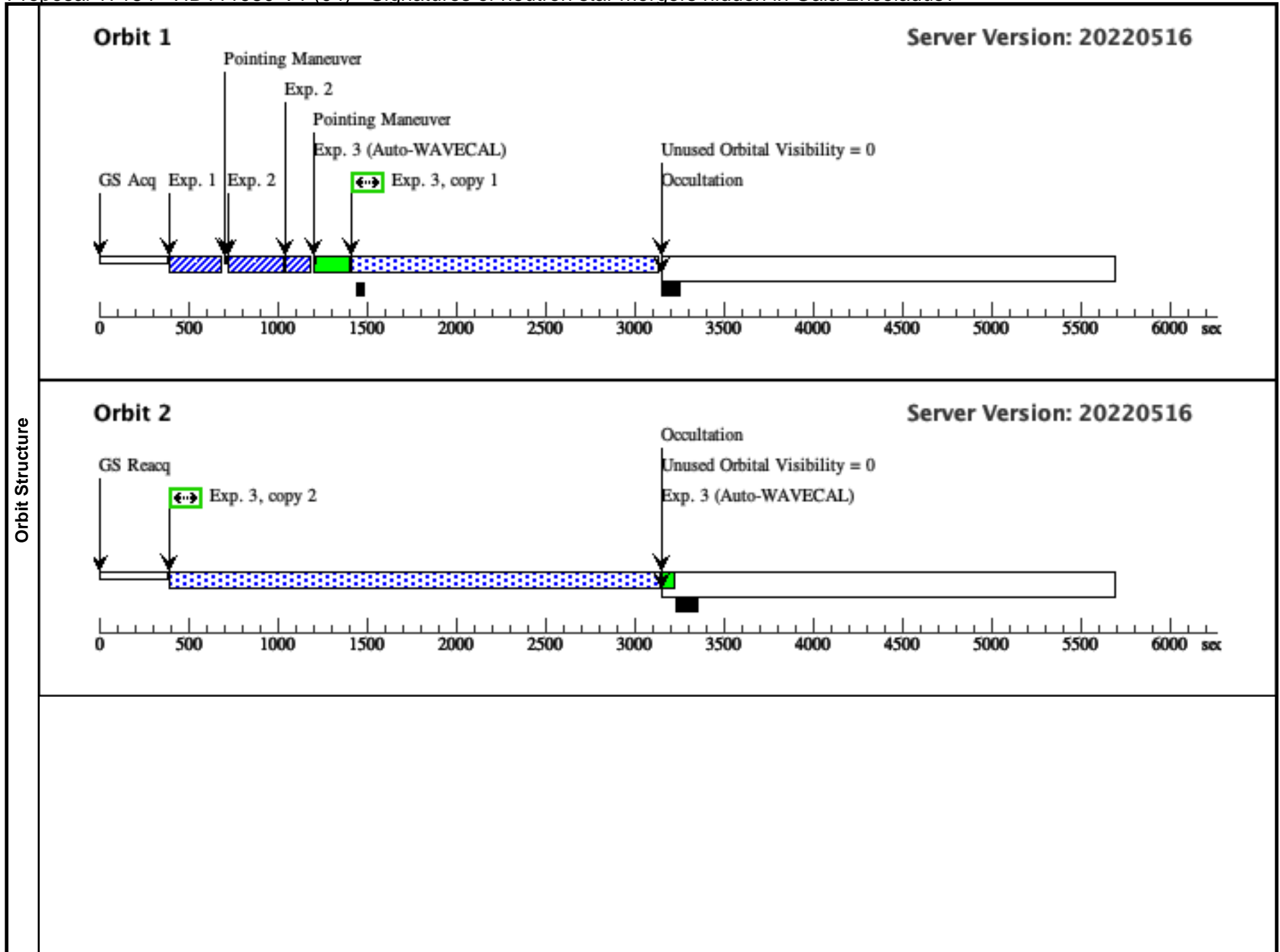


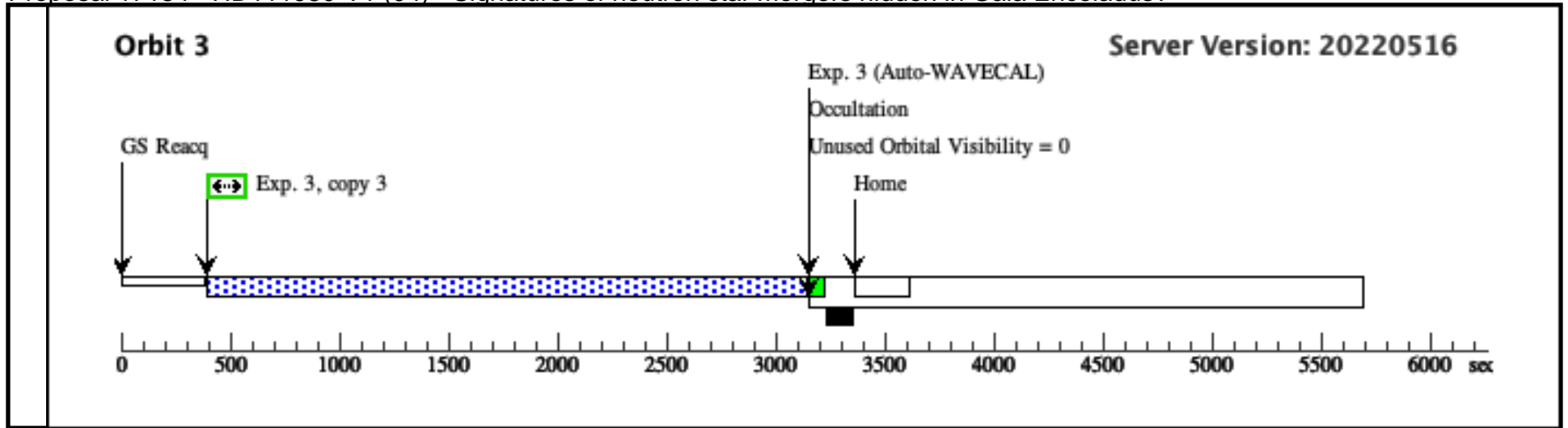


Proposal 17184 - HD111980-V1 (04) - Signatures of neutron star mergers hidden in Gaia Enceladus?

Wed Jul 13 04:02:42 GMT 2022

Visit	Proposal 17184, HD111980-V1 (04) Diagnostic Status: No Diagnostics Scientific Instruments: STIS/NUV-MAMA, STIS/CCD Special Requirements: (none)									
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous			
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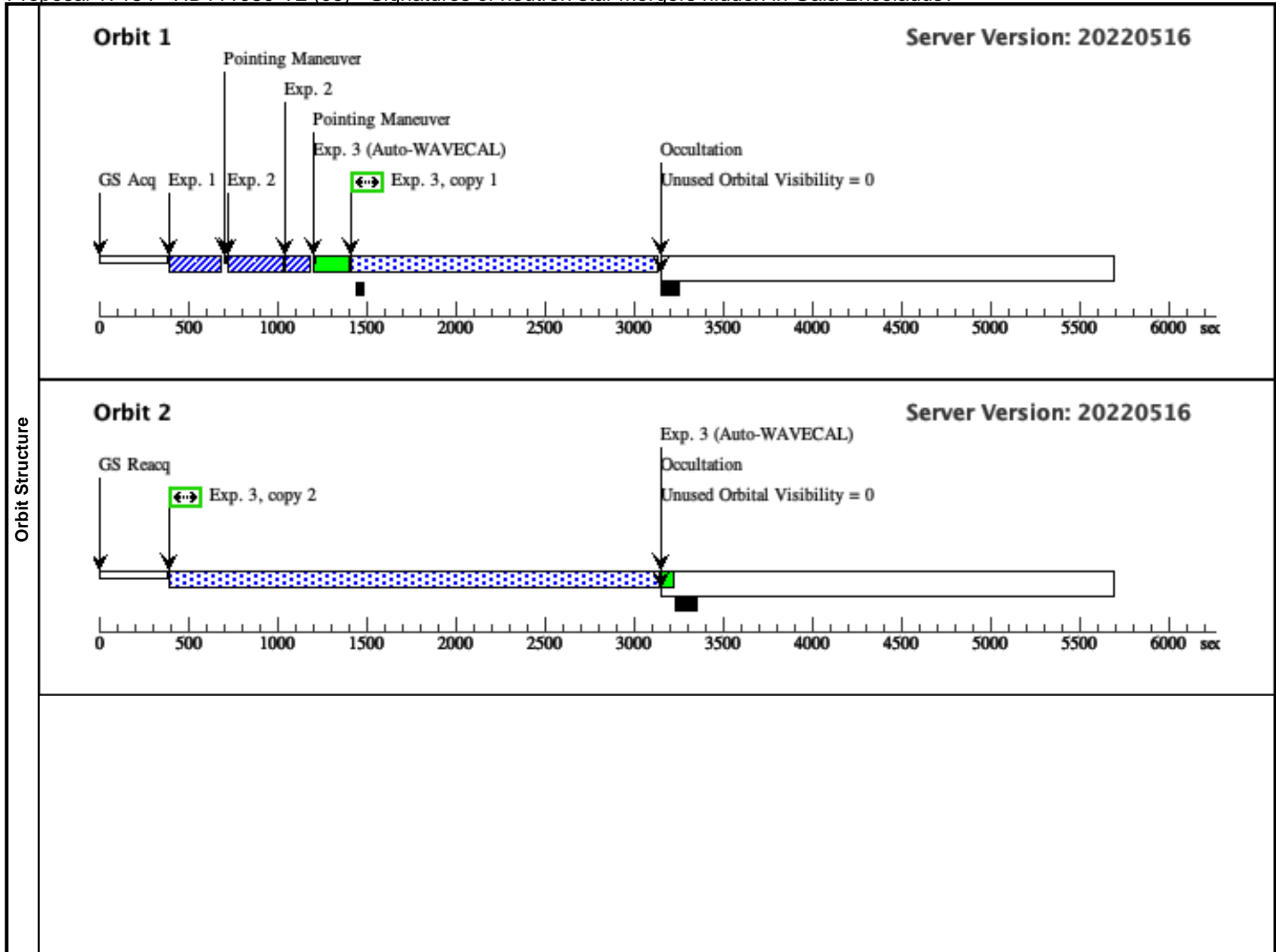


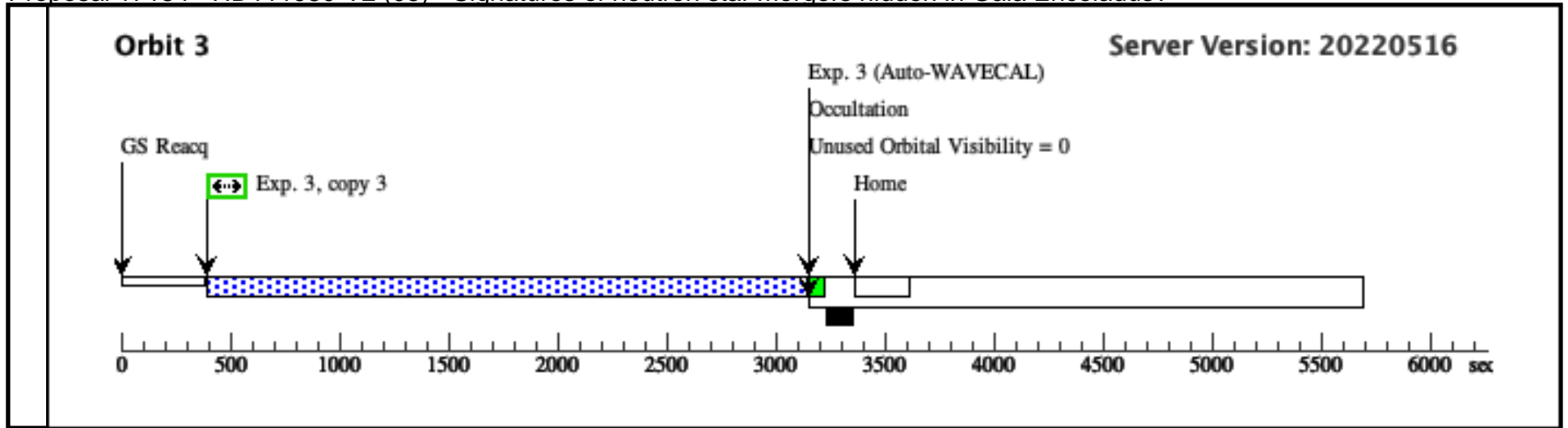


Proposal 17184 - HD111980-V2 (05) - Signatures of neutron star mergers hidden in Gaia Enceladus?

Wed Jul 13 04:02:42 GMT 2022

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									[==>]	[1]
	2	(STIS.ta.181 1270)	(2) HD-111980	STIS/CCD, ACQ/PEAK, 0.2X0.05ND	MIRROR				1 Secs (1 Secs)	
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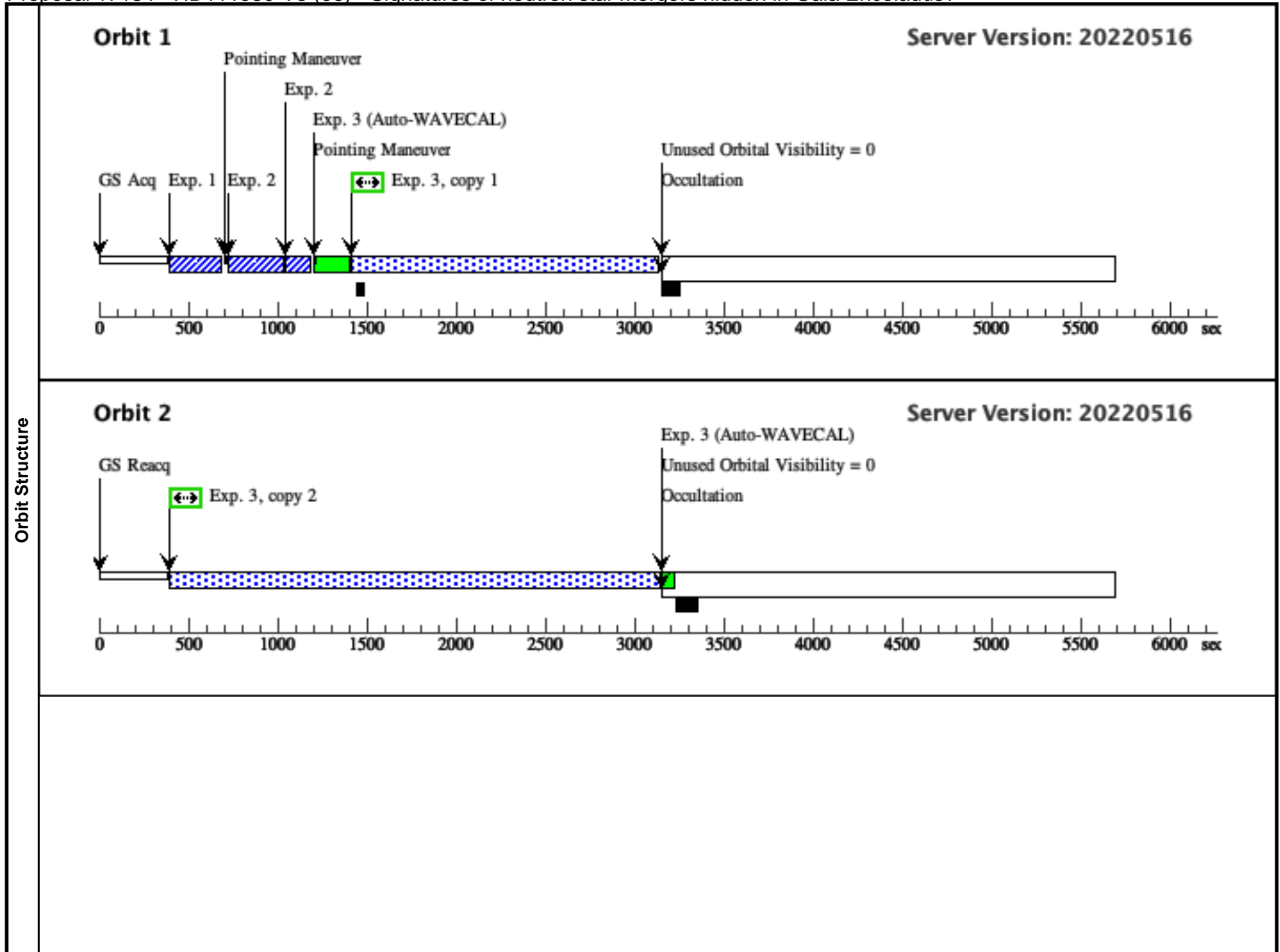


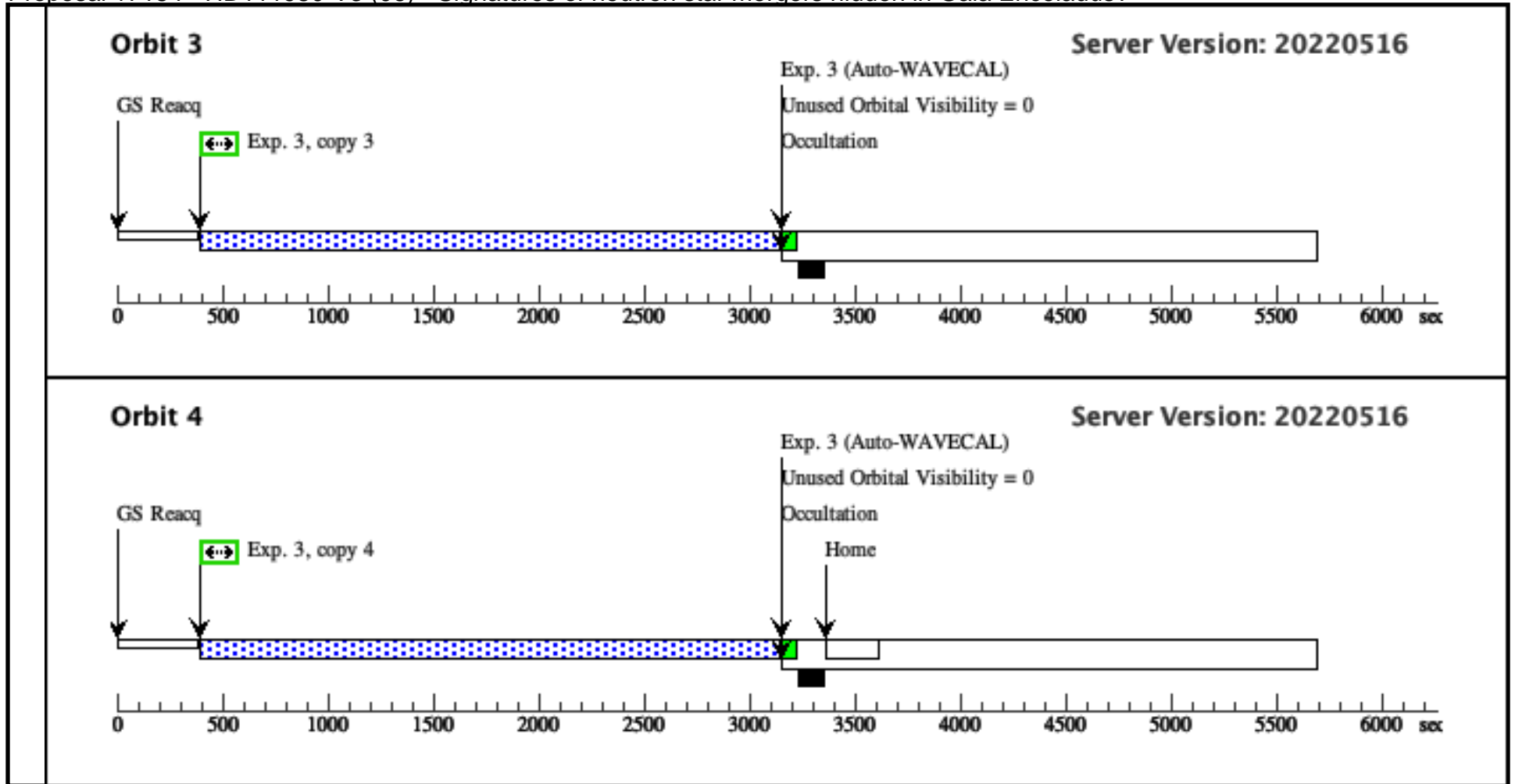


Proposal 17184 - HD111980-V3 (06) - Signatures of neutron star mergers hidden in Gaia Enceladus?

Wed Jul 13 04:02:42 GMT 2022

Visit	Proposal 17184, HD111980-V3 (06) Diagnostic Status: No Diagnostics Scientific Instruments: STIS/NUV-MAMA, STIS/CCD Special Requirements: (none)																																																	
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(2)	HD-111980	RA: 12 53 15.3792 (193.3140800d) Dec: -18 31 32.35 (-18.52565d) Equinox: J2000	Proper Motion RA: 0.021047939368780213 sec of time/yr Proper Motion Dec: -0.7958429999234795 arcsec/yr Epoch of Position: 2015.5	V=8.38	Reference Frame: ICRS																																													
<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> Category=STAR Description=[F3-F9]																																																		
Exposures	<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>(STIS.ta.181 0038)</td> <td>(2) HD-111980</td> <td>STIS/CCD, ACQ, F25ND3</td> <td>MIRROR</td> <td></td> <td></td> <td></td> <td>1 Secs (1 Secs) [==>]</td> <td>[1]</td> </tr> <tr> <td>2</td> <td>(STIS.ta.181 1270)</td> <td>(2) HD-111980</td> <td>STIS/CCD, ACQ/PEAK, 0.2X0.05ND</td> <td>MIRROR</td> <td></td> <td></td> <td></td> <td>1 Secs (1 Secs) [==>]</td> <td>[1]</td> </tr> <tr> <td>3</td> <td>HD111980-V3 (STIS.sp.18 10026)</td> <td>(2) HD-111980</td> <td>STIS/NUV-MAMA, ACCUM, 0.2X0.09</td> <td>E230H 3012 A</td> <td></td> <td></td> <td></td> <td>2200 Secs X 4 (9911 Secs) [==>1709.0 Secs (Copy 1)] [==>2734.0 Secs (Copy 2)] [==>2734.0 Secs (Copy 3)] [==>2734.0 Secs (Copy 4)]</td> <td>[1] [2] [3] [4]</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	(STIS.ta.181 0038)	(2) HD-111980	STIS/CCD, ACQ, F25ND3	MIRROR				1 Secs (1 Secs) [==>]	[1]	2	(STIS.ta.181 1270)	(2) HD-111980	STIS/CCD, ACQ/PEAK, 0.2X0.05ND	MIRROR				1 Secs (1 Secs) [==>]	[1]	3	HD111980-V3 (STIS.sp.18 10026)	(2) HD-111980	STIS/NUV-MAMA, ACCUM, 0.2X0.09	E230H 3012 A				2200 Secs X 4 (9911 Secs) [==>1709.0 Secs (Copy 1)] [==>2734.0 Secs (Copy 2)] [==>2734.0 Secs (Copy 3)] [==>2734.0 Secs (Copy 4)]	[1] [2] [3] [4]
#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit																																									
1	(STIS.ta.181 0038)	(2) HD-111980	STIS/CCD, ACQ, F25ND3	MIRROR				1 Secs (1 Secs) [==>]	[1]																																									
2	(STIS.ta.181 1270)	(2) HD-111980	STIS/CCD, ACQ/PEAK, 0.2X0.05ND	MIRROR				1 Secs (1 Secs) [==>]	[1]																																									
3	HD111980-V3 (STIS.sp.18 10026)	(2) HD-111980	STIS/NUV-MAMA, ACCUM, 0.2X0.09	E230H 3012 A				2200 Secs X 4 (9911 Secs) [==>1709.0 Secs (Copy 1)] [==>2734.0 Secs (Copy 2)] [==>2734.0 Secs (Copy 3)] [==>2734.0 Secs (Copy 4)]	[1] [2] [3] [4]																																									

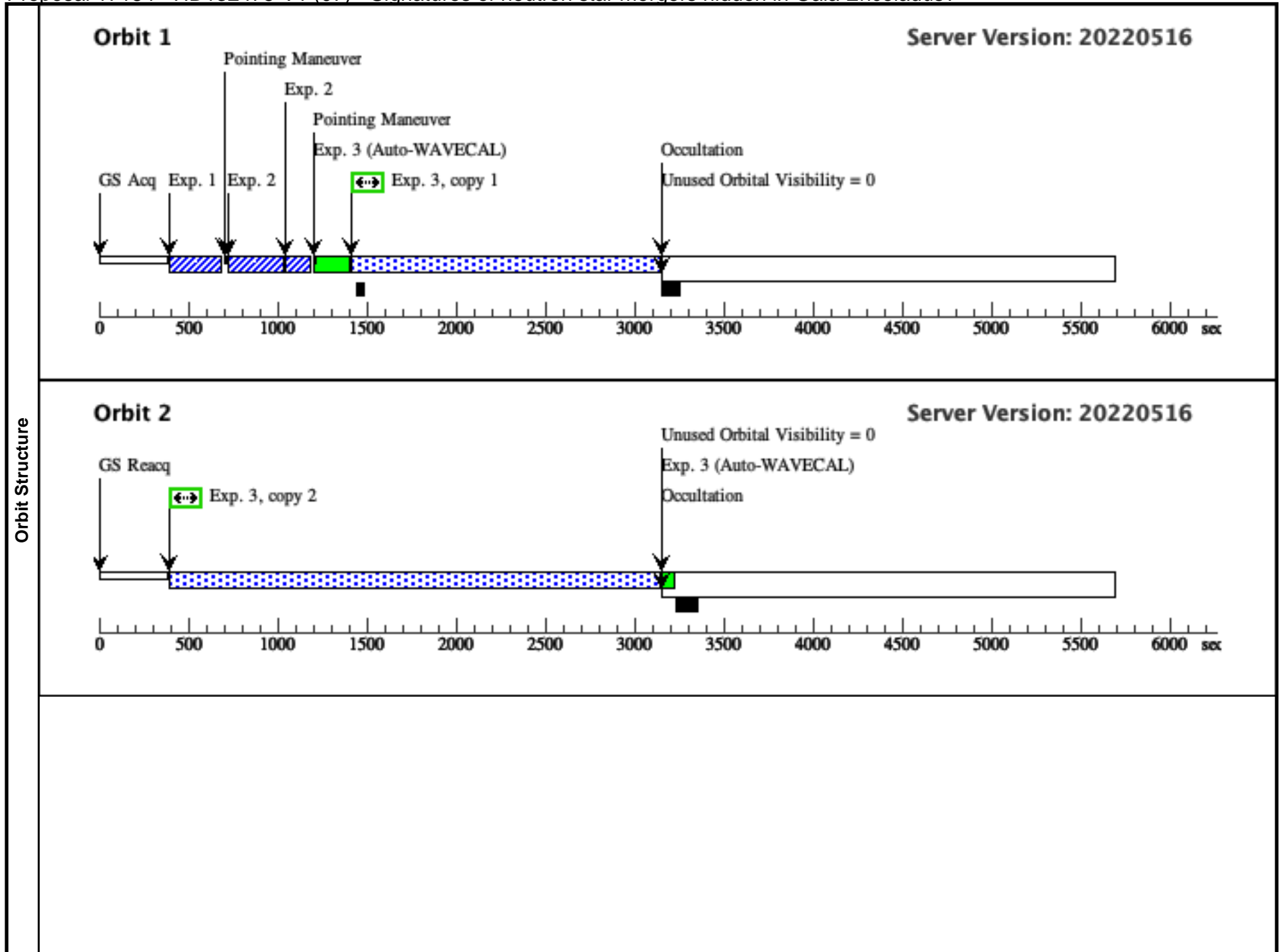


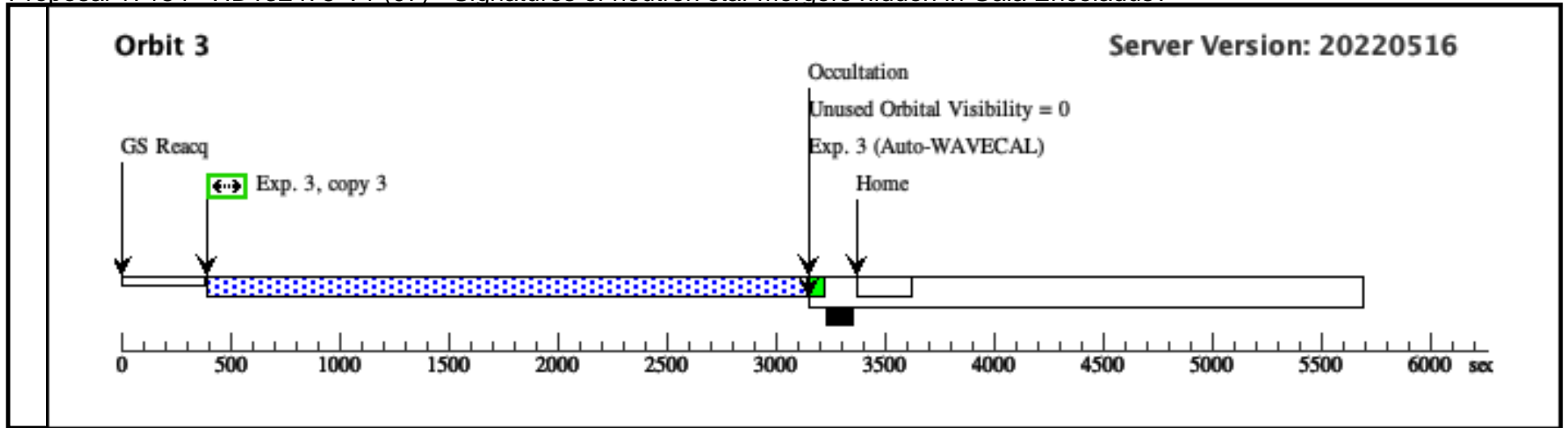


Proposal 17184 - HD132475-V1 (07) - Signatures of neutron star mergers hidden in Gaia Enceladus?

Wed Jul 13 04:02:42 GMT 2022

Visit	Proposal 17184, HD132475-V1 (07) Diagnostic Status: No Diagnostics Scientific Instruments: STIS/NUV-MAMA, STIS/CCD Special Requirements: (none)									
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous			
		(3)	HD-132475	RA: 14 59 49.1427 (224.9547612d) Dec: -22 00 53.58 (-22.01488d) Equinox: J2000	Proper Motion RA: -0.040153965334558436 sec of time/yr Proper Motion Dec: -0.500761999956012 arcsec/yr Epoch of Position: 2015.5	V=8.55	Reference Frame: ICRS			
	<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> Category=STAR Description=[F3-F9]									
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(STIS.ta.181 3489)	(3) HD-132475	STIS/CCD, ACQ, F25ND3	MIRROR				1 Secs (1 Secs)	
									[==>]	[1]
	2	(STIS.ta.181 3490)	(3) HD-132475	STIS/CCD, ACQ/PEAK, 0.2X0.05ND	MIRROR				1 Secs (1 Secs)	
									[==>]	[1]
3	HD132475-V1 (STIS.sp.18 13492)	(3) HD-132475	STIS/NUV-MAMA, ACCUM, 0.2X0.09	E230H 2762 A				2200 Secs X 3 (7180 Secs)		
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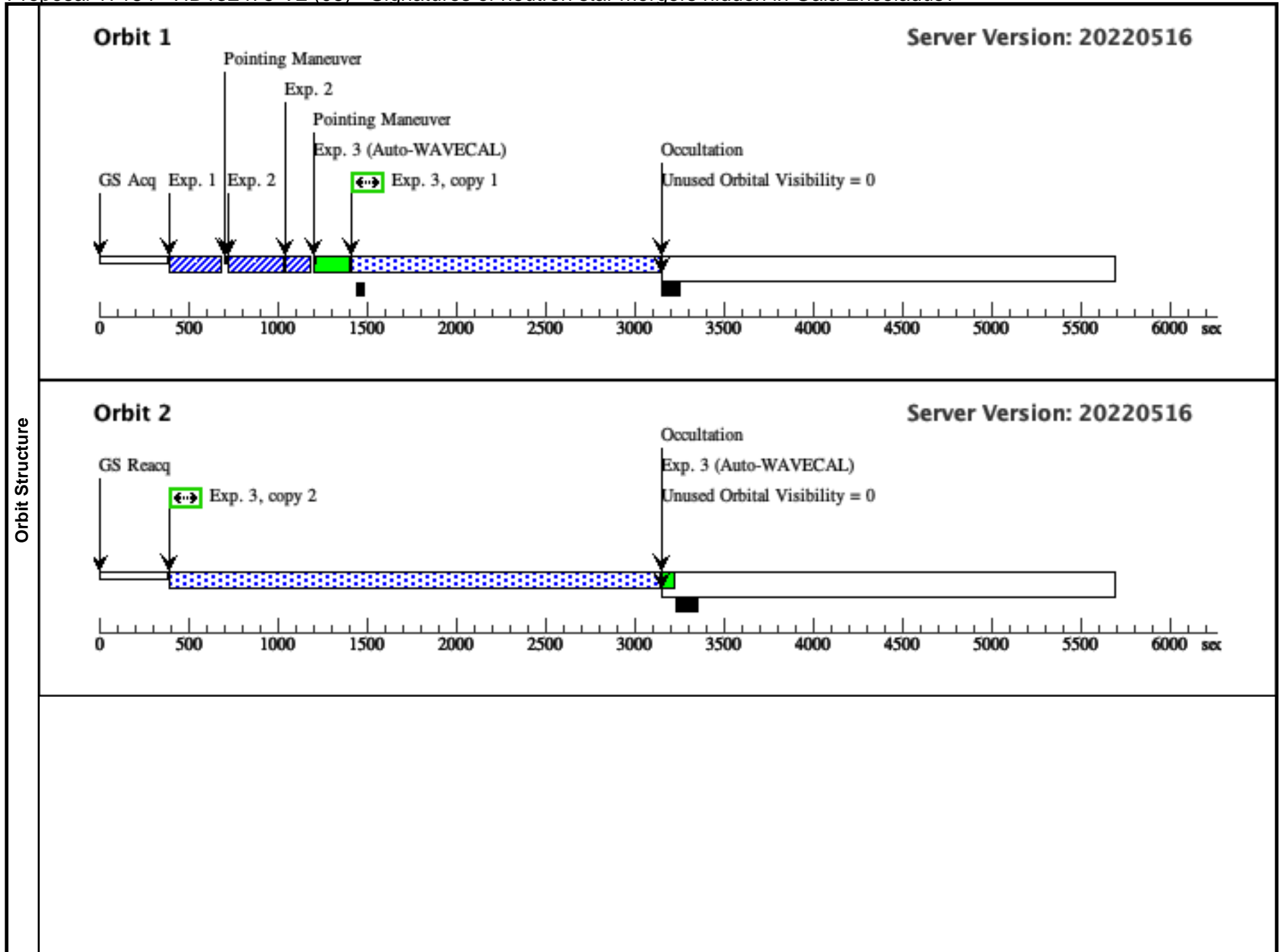


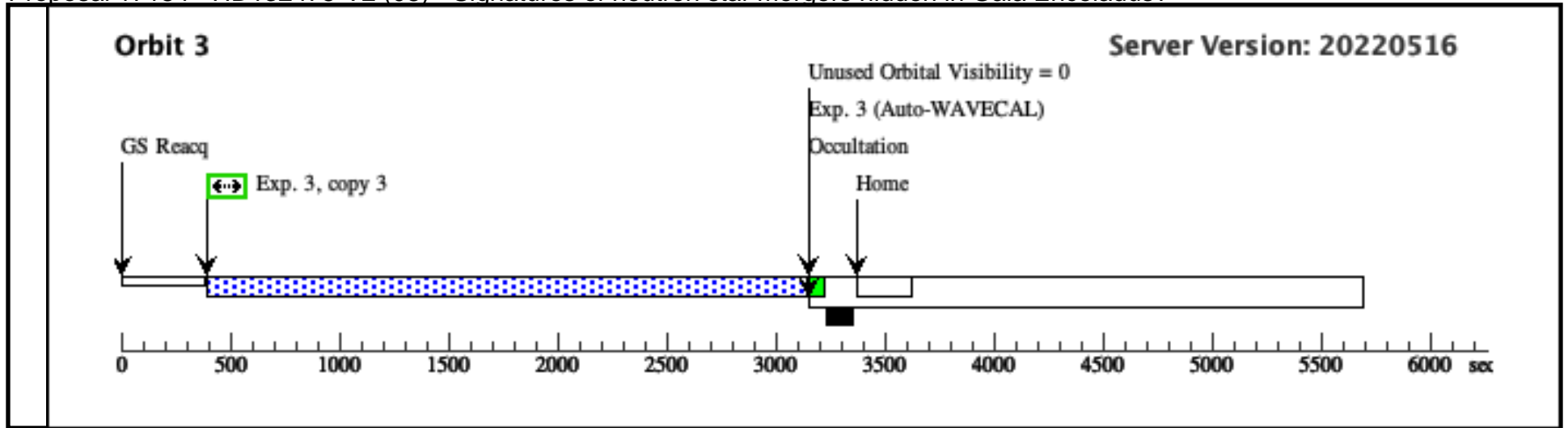


Proposal 17184 - HD132475-V2 (08) - Signatures of neutron star mergers hidden in Gaia Enceladus?

Wed Jul 13 04:02:42 GMT 2022

Visit	Proposal 17184, HD132475-V2 (08) Diagnostic Status: No Diagnostics Scientific Instruments: STIS/NUV-MAMA, STIS/CCD Special Requirements: (none)																																																	
	Fixed Targets	<table border="1"> <thead> <tr> <th>#</th> <th>Name</th> <th>Target Coordinates</th> <th>Targ. Coord. Corrections</th> <th>Fluxes</th> <th>Miscellaneous</th> </tr> </thead> <tbody> <tr> <td>(3)</td> <td>HD-132475</td> <td>RA: 14 59 49.1427 (224.9547612d) Dec: -22 00 53.58 (-22.01488d) Equinox: J2000</td> <td>Proper Motion RA: -0.040153965334558436 sec of time/yr Proper Motion Dec: -0.500761999956012 arcsec/yr Epoch of Position: 2015.5</td> <td>V=8.55</td> <td>Reference Frame: ICRS</td> </tr> <tr> <td colspan="6"> <i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> Category=STAR Description=[F3-F9] </td> </tr> </tbody> </table>										#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous	(3)	HD-132475	RA: 14 59 49.1427 (224.9547612d) Dec: -22 00 53.58 (-22.01488d) Equinox: J2000	Proper Motion RA: -0.040153965334558436 sec of time/yr Proper Motion Dec: -0.500761999956012 arcsec/yr Epoch of Position: 2015.5	V=8.55	Reference Frame: ICRS	<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> Category=STAR Description=[F3-F9]																										
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous																																													
(3)	HD-132475	RA: 14 59 49.1427 (224.9547612d) Dec: -22 00 53.58 (-22.01488d) Equinox: J2000	Proper Motion RA: -0.040153965334558436 sec of time/yr Proper Motion Dec: -0.500761999956012 arcsec/yr Epoch of Position: 2015.5	V=8.55	Reference Frame: ICRS																																													
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1	(STIS.ta.181 3489)	(3) HD-132475	STIS/CCD, ACQ, F25ND3	MIRROR				1 Secs (1 Secs) [==>]	[1]																																									
2	(STIS.ta.181 3490)	(3) HD-132475	STIS/CCD, ACQ/PEAK, 0.2X0.05ND	MIRROR				1 Secs (1 Secs) [==>]	[1]																																									
3	HD132475-V2 (STIS.sp.18 13492)	(3) HD-132475	STIS/NUV-MAMA, ACCUM, 0.2X0.09	E230H 2762 A				2200 Secs X 3 (7180 Secs) [==>1710.0 Secs (Copy 1)] [==>2735.0 Secs (Copy 2)] [==>2735.0 Secs (Copy 3)]	[1] [2] [3]																																									

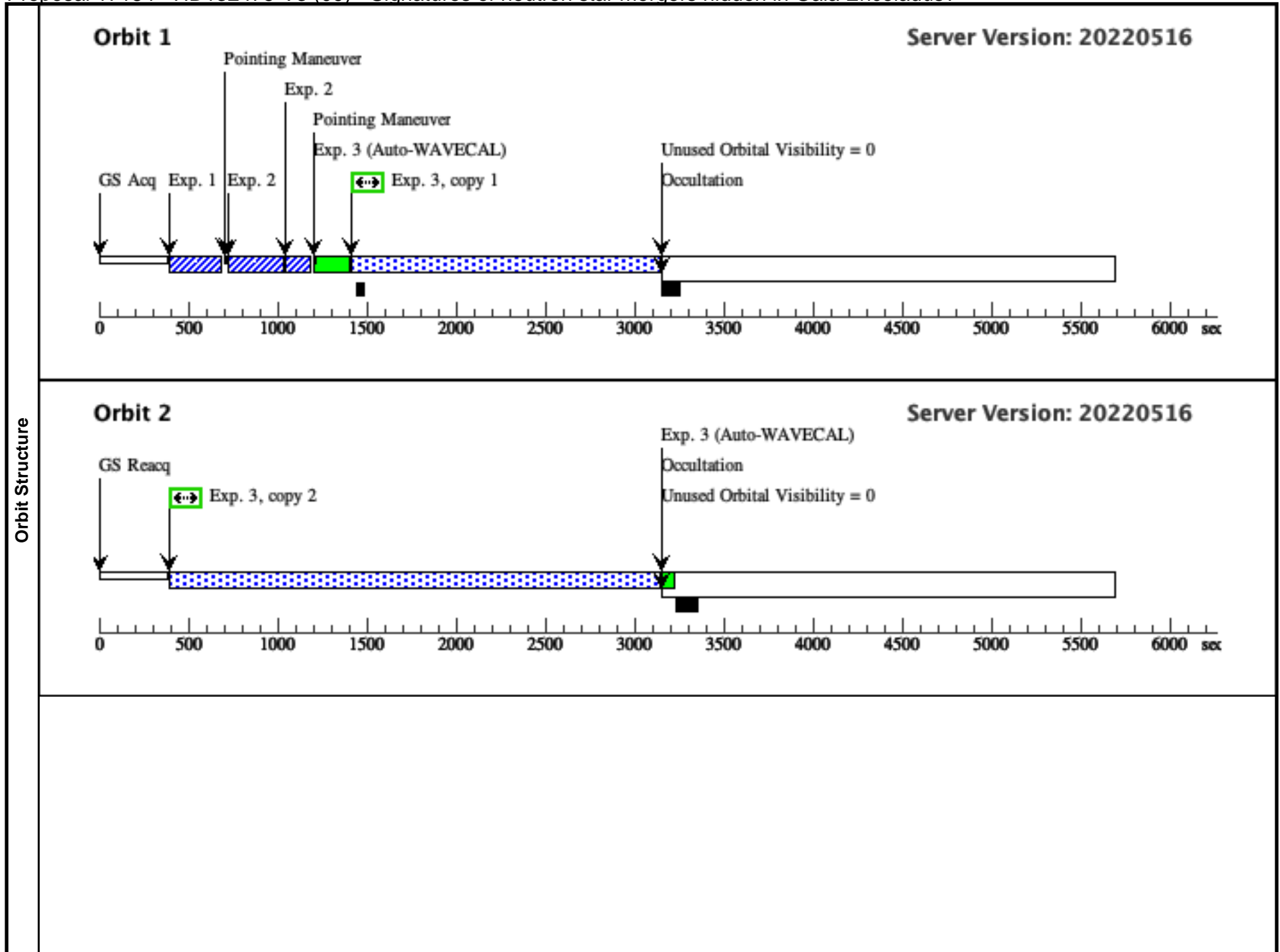


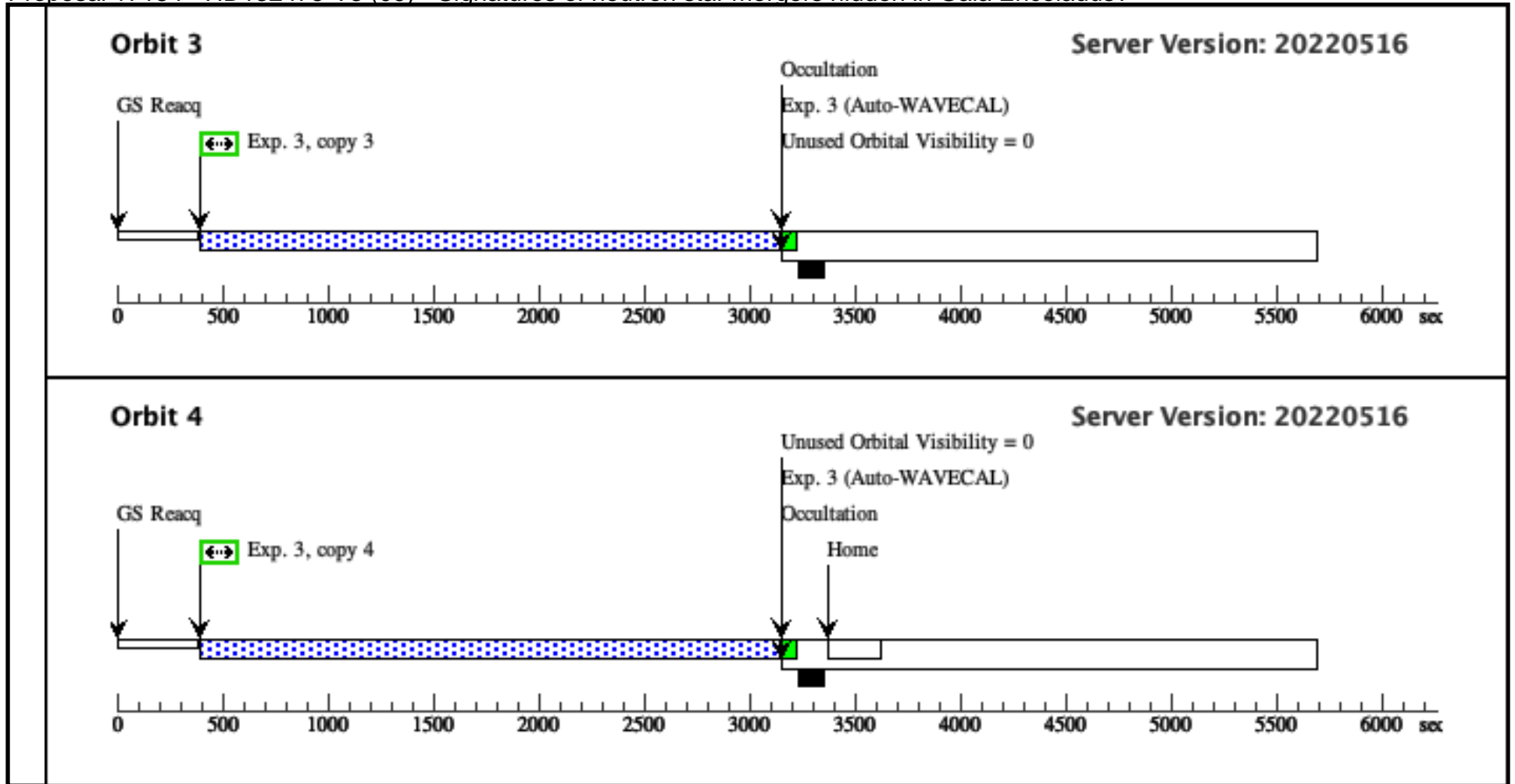


Proposal 17184 - HD132475-V3 (09) - Signatures of neutron star mergers hidden in Gaia Enceladus?

Wed Jul 13 04:02:42 GMT 2022

Visit	Proposal 17184, HD132475-V3 (09) Diagnostic Status: No Diagnostics Scientific Instruments: STIS/NUV-MAMA, STIS/CCD Special Requirements: (none)																																																	
	Fixed Targets	<table border="1"> <thead> <tr> <th>#</th> <th>Name</th> <th>Target Coordinates</th> <th>Targ. Coord. Corrections</th> <th>Fluxes</th> <th>Miscellaneous</th> </tr> </thead> <tbody> <tr> <td>(3)</td> <td>HD-132475</td> <td>RA: 14 59 49.1427 (224.9547612d) Dec: -22 00 53.58 (-22.01488d) Equinox: J2000</td> <td>Proper Motion RA: -0.040153965334558436 sec of time/yr Proper Motion Dec: -0.500761999956012 arcsec/yr Epoch of Position: 2015.5</td> <td>V=8.55</td> <td>Reference Frame: ICRS</td> </tr> <tr> <td colspan="6"> <i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> Category=STAR Description=[F3-F9] </td> </tr> </tbody> </table>										#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous	(3)	HD-132475	RA: 14 59 49.1427 (224.9547612d) Dec: -22 00 53.58 (-22.01488d) Equinox: J2000	Proper Motion RA: -0.040153965334558436 sec of time/yr Proper Motion Dec: -0.500761999956012 arcsec/yr Epoch of Position: 2015.5	V=8.55	Reference Frame: ICRS	<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> Category=STAR Description=[F3-F9]																										
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous																																													
(3)	HD-132475	RA: 14 59 49.1427 (224.9547612d) Dec: -22 00 53.58 (-22.01488d) Equinox: J2000	Proper Motion RA: -0.040153965334558436 sec of time/yr Proper Motion Dec: -0.500761999956012 arcsec/yr Epoch of Position: 2015.5	V=8.55	Reference Frame: ICRS																																													
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#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit																																									
1	(STIS.ta.181 3489)	(3) HD-132475	STIS/CCD, ACQ, F25ND3	MIRROR				1 Secs (1 Secs) [==>]	[1]																																									
2	(STIS.ta.181 3490)	(3) HD-132475	STIS/CCD, ACQ/PEAK, 0.2X0.05ND	MIRROR				1 Secs (1 Secs) [==>]	[1]																																									
3	HD132475-V3 (STIS.sp.18 13492)	(3) HD-132475	STIS/NUV-MAMA, ACCUM, 0.2X0.09	E230H 3012 A				2250 Secs X 4 (9915 Secs) [==>1710.0 Secs (Copy 1)] [==>2735.0 Secs (Copy 2)] [==>2735.0 Secs (Copy 3)] [==>2735.0 Secs (Copy 4)]	[1] [2] [3] [4]																																									

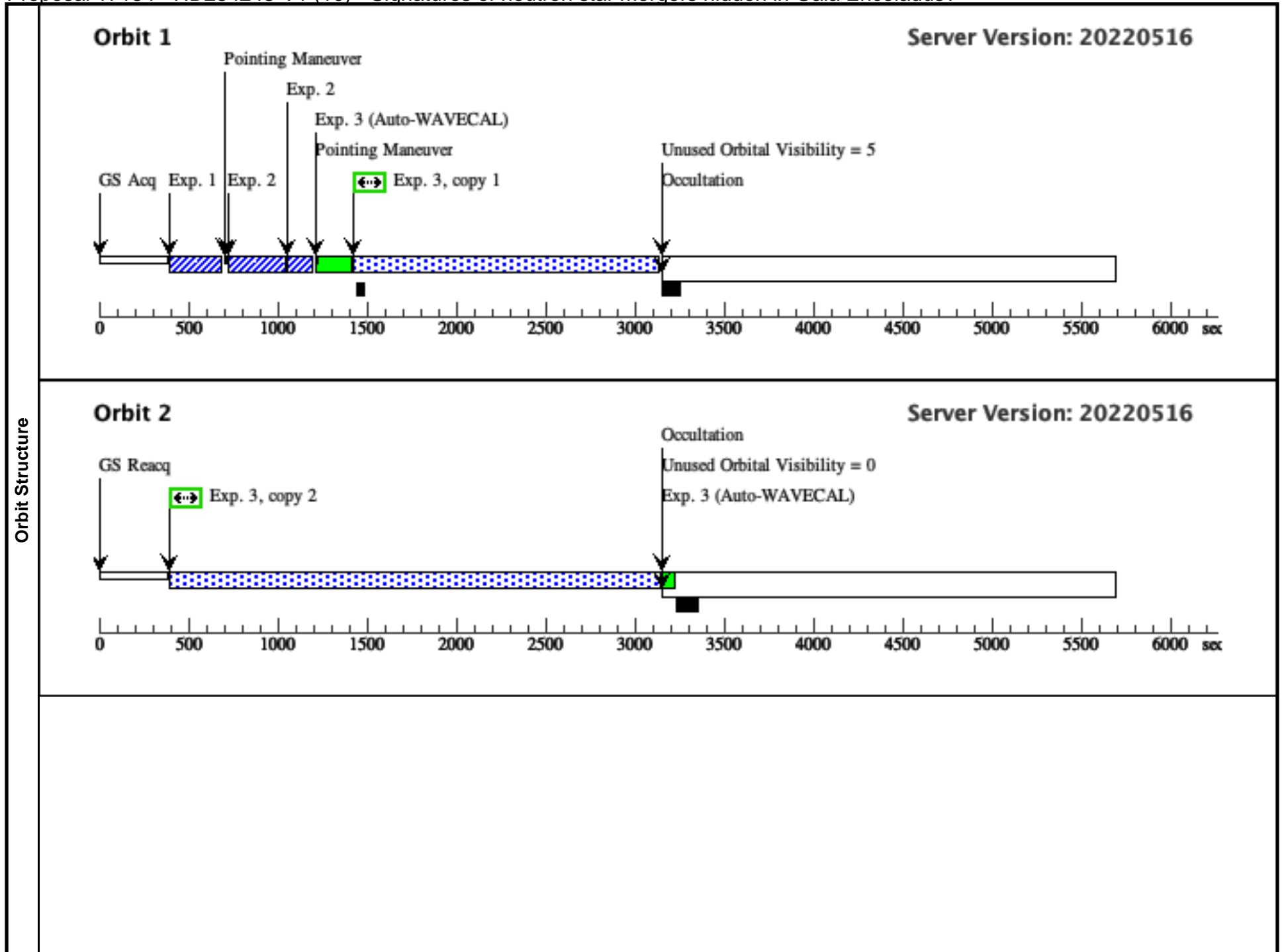


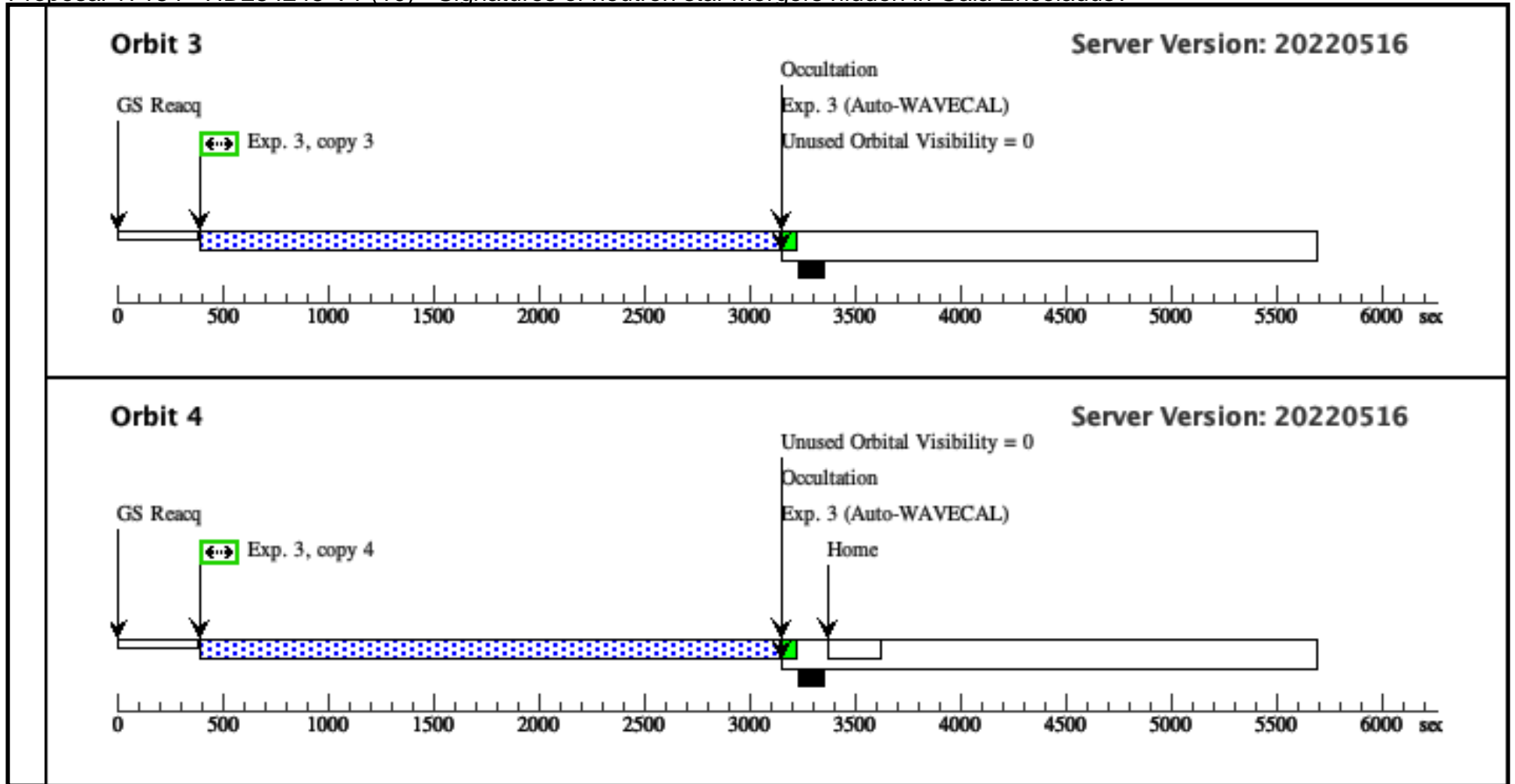


Proposal 17184 - HD284248-V1 (10) - Signatures of neutron star mergers hidden in Gaia Enceladus?

Wed Jul 13 04:02:43 GMT 2022

Visit	Proposal 17184, HD284248-V1 (10) Diagnostic Status: No Diagnostics Scientific Instruments: STIS/NUV-MAMA, STIS/CCD Special Requirements: (none)									
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous			
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Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(STIS.ta.181 3494)	(4) HD-284248	STIS/CCD, ACQ, F25ND3	MIRROR				1.3 Secs (1.3 Secs)	
									[==>]	[1]
	2	(STIS.ta.181 3495)	(4) HD-284248	STIS/CCD, ACQ/PEAK, 0.2X0.05ND	MIRROR				1.3 Secs (1.3 Secs)	
									[==>]	[1]
	3	HD284248-V1 (STIS.sp.18 13497)	(4) HD-284248	STIS/NUV-MAMA, ACCUM, 0.2X0.09	E230H 2762 A				2200 Secs X 4 (9903 Secs)	
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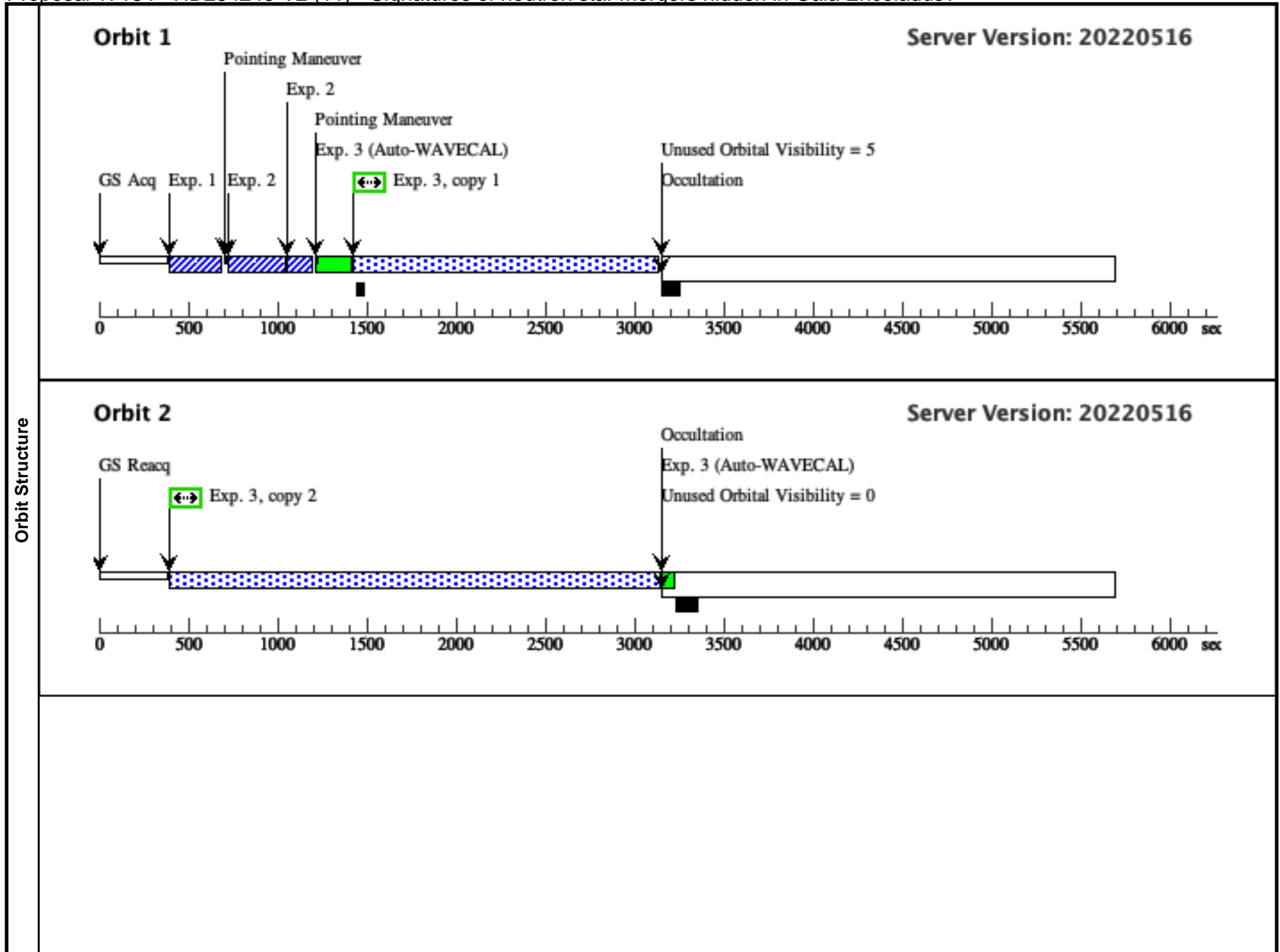


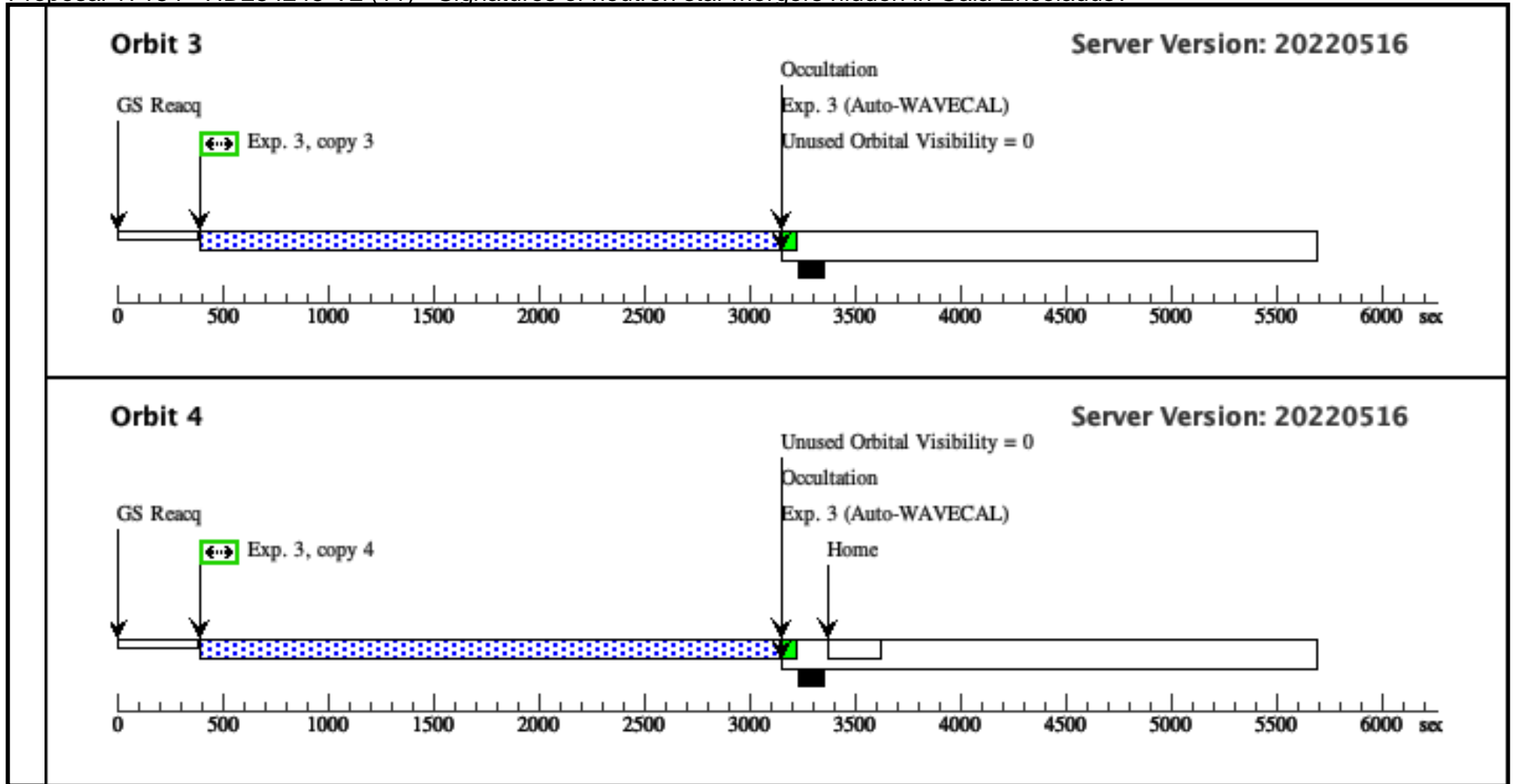


Proposal 17184 - HD284248-V2 (11) - Signatures of neutron star mergers hidden in Gaia Enceladus?

Wed Jul 13 04:02:43 GMT 2022

Visit	Proposal 17184, HD284248-V2 (11) Diagnostic Status: No Diagnostics Scientific Instruments: STIS/NUV-MAMA, STIS/CCD Special Requirements: (none)									
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections		Fluxes	Miscellaneous			
	(4)	HD-284248	RA: 04 14 35.9913 (63.6499637d) Dec: +22 20 59.58 (22.34988d) Equinox: J2000	Proper Motion RA: 0.030651288626953443 sec of time/yr Proper Motion Dec: -0.30156399996030814 arcsec/yr Epoch of Position: 2015.5		V=9.23	Reference Frame: ICRS			
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	1	(STIS.ta.181 3494)	(4) HD-284248	STIS/CCD, ACQ, F25ND3	MIRROR				1.3 Secs (1.3 Secs)	
									[==>]	[1]
	2	(STIS.ta.181 3495)	(4) HD-284248	STIS/CCD, ACQ/PEAK, 0.2X0.05ND	MIRROR				1.3 Secs (1.3 Secs)	
									[==>]	[1]
	3	HD284248-V2 (STIS.sp.18 13497)	(4) HD-284248	STIS/NUV-MAMA, ACCUM, 0.2X0.09	E230H 2762 A				2200 Secs X 4 (9903 Secs)	
									[==>1698.0 Secs (Copy 1)]	[1]
									[==>2735.0 Secs (Copy 2)]	[2]
									[==>2735.0 Secs (Copy 3)]	[3]
									[==>2735.0 Secs (Copy 4)]	[4]

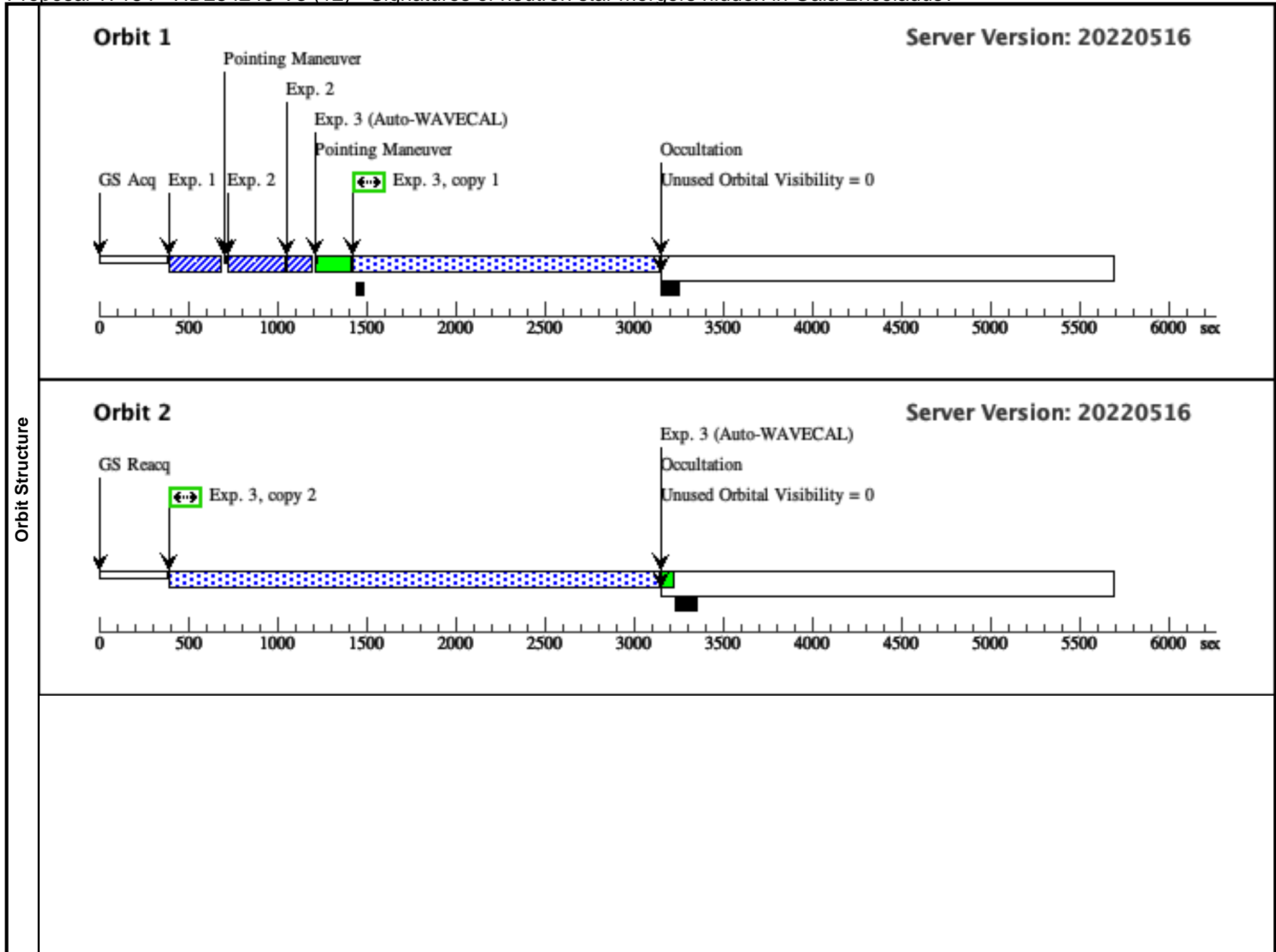


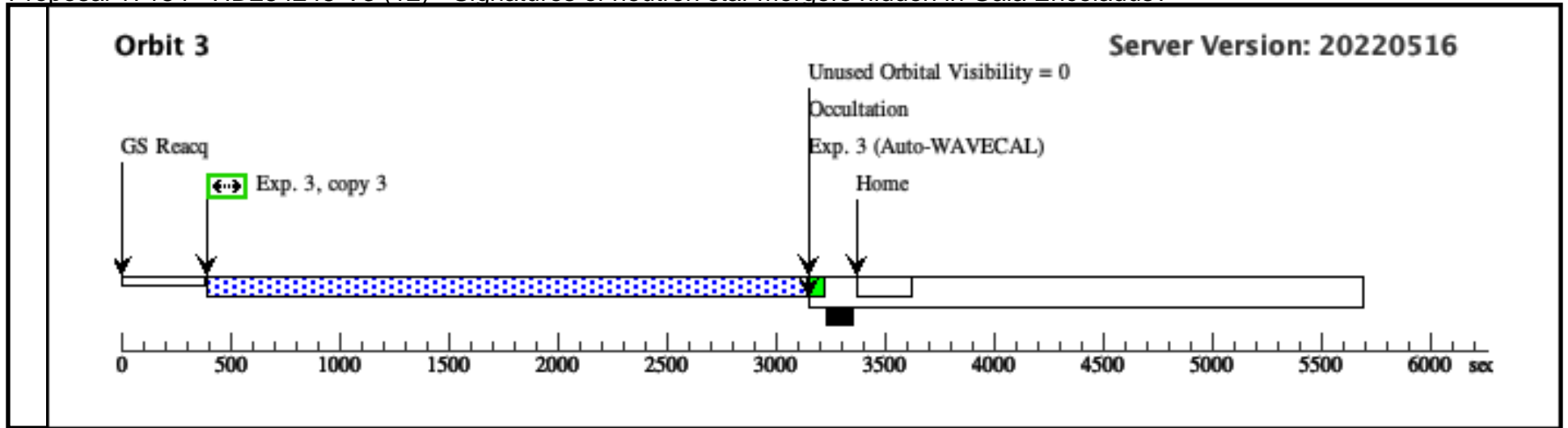


Proposal 17184 - HD284248-V3 (12) - Signatures of neutron star mergers hidden in Gaia Enceladus?

Wed Jul 13 04:02:43 GMT 2022

Visit	Proposal 17184, HD284248-V3 (12) Diagnostic Status: No Diagnostics Scientific Instruments: STIS/NUV-MAMA, STIS/CCD Special Requirements: (none)									
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous			
		(4)	HD-284248	RA: 04 14 35.9913 (63.6499637d) Dec: +22 20 59.58 (22.34988d) Equinox: J2000	Proper Motion RA: 0.030651288626953443 sec of time/yr Proper Motion Dec: -0.30156399996030814 arcsec/yr Epoch of Position: 2015.5	V=9.23	Reference Frame: ICRS			
	<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> Category=STAR Description=[F0-F2]									
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(STIS.ta.181 3494)	(4) HD-284248	STIS/CCD, ACQ, F25ND3	MIRROR				1.3 Secs (1.3 Secs)	
									[==>]	[1]
	2	(STIS.ta.181 3495)	(4) HD-284248	STIS/CCD, ACQ/PEAK, 0.2X0.05ND	MIRROR				1.3 Secs (1.3 Secs)	
									[==>]	[1]
3	HD284248-V3 (STIS.sp.18 13497)	(4) HD-284248	STIS/NUV-MAMA, ACCUM, 0.2X0.09	E230H 3012 A				2270 Secs X 3 (7173 Secs)		
								[==>1703.0 Secs (Copy 1)]	[1]	
								[==>2735.0 Secs (Copy 2)]	[2]	
								[==>2735.0 Secs (Copy 3)]	[3]	





Proposal 17184 - HD284248-V4 (13) - Signatures of neutron star mergers hidden in Gaia Enceladus?

Wed Jul 13 04:02:43 GMT 2022

Visit	Proposal 17184, HD284248-V4 (13) Diagnostic Status: No Diagnostics Scientific Instruments: STIS/NUV-MAMA, STIS/CCD Special Requirements: (none)									
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous			
		(4)	HD-284248	RA: 04 14 35.9913 (63.6499637d) Dec: +22 20 59.58 (22.34988d) Equinox: J2000	Proper Motion RA: 0.030651288626953443 sec of time/yr Proper Motion Dec: -0.30156399996030814 arcsec/yr Epoch of Position: 2015.5	V=9.23	Reference Frame: ICRS			
	<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> Category=STAR Description=[F0-F2]									
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(STIS.ta.181 3494)	(4) HD-284248	STIS/CCD, ACQ, F25ND3	MIRROR				1.3 Secs (1.3 Secs)	
									[==>]	[1]
	2	(STIS.ta.181 3495)	(4) HD-284248	STIS/CCD, ACQ/PEAK, 0.2X0.05ND	MIRROR				1.3 Secs (1.3 Secs)	
									[==>]	[1]
3	HD284248-V4 (STIS.sp.18 13497)	(4) HD-284248	STIS/NUV-MAMA, ACCUM, 0.2X0.09	E230H 3012 A				2200 Secs X 3 (7168 Secs)		
								[==>1698.0 Secs (Copy 1)]	[1]	
								[==>2735.0 Secs (Copy 2)]	[2]	
								[==>2735.0 Secs (Copy 3)]	[3]	

