



# 15657 - HD 222925: A unique opportunity to study the full range of nuclei produced by a single r-process event

Cycle: 26, Proposal Category: GO

(UV Initiative)

(Availability Mode: SUPPORTED)

## INVESTIGATORS

<i>Name</i>	<i>Institution</i>	<i>E-Mail</i>
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Dr. Vinicius Placco (CoI)	University of Notre Dame	vmplacco@gmail.com
Dr. Charli Sakari (CoI)	San Francisco State University	sakaricm@sfsu.edu

## 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-222925	STIS/CCD STIS/NUV-MAMA	2	09-Jan-2020 13:00:19.0	yes
51	(1) HD-222925	STIS/CCD STIS/NUV-MAMA	1	09-Jan-2020 13:00:20.0	yes

Proposal 15657 (STScI Edit Number: 0, Created: Thursday, January 9, 2020 at 1:00:46 PM Eastern Standard Time) - Overview

<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) HD-222925	STIS/CCD STIS/NUV-MAMA	2	09-Jan-2020 13:00:21.0	yes
03	(1) HD-222925	STIS/CCD STIS/NUV-MAMA	3	09-Jan-2020 13:00:22.0	yes
04	(1) HD-222925	STIS/CCD STIS/NUV-MAMA	3	09-Jan-2020 13:00:23.0	yes
54	(1) HD-222925	STIS/CCD STIS/NUV-MAMA	2	09-Jan-2020 13:00:24.0	yes
05	(1) HD-222925	STIS/CCD STIS/NUV-MAMA	2	09-Jan-2020 13:00:25.0	yes
55	(1) HD-222925	STIS/CCD STIS/NUV-MAMA	2	09-Jan-2020 13:00:26.0	yes
06	(1) HD-222925	STIS/CCD STIS/NUV-MAMA	3	09-Jan-2020 13:00:27.0	yes
07	(1) HD-222925	STIS/CCD STIS/NUV-MAMA	3	09-Jan-2020 13:00:29.0	yes
57	(1) HD-222925	STIS/CCD STIS/NUV-MAMA	2	09-Jan-2020 13:00:30.0	yes
08	(1) HD-222925	STIS/CCD STIS/NUV-MAMA	3	09-Jan-2020 13:00:31.0	yes
09	(1) HD-222925	STIS/CCD STIS/NUV-MAMA	3	09-Jan-2020 13:00:32.0	yes
10	(1) HD-222925	STIS/CCD STIS/NUV-MAMA	3	09-Jan-2020 13:00:33.0	yes
60	(1) HD-222925	STIS/CCD STIS/NUV-MAMA	3	09-Jan-2020 13:00:34.0	yes
11	(1) HD-222925	STIS/CCD STIS/NUV-MAMA	3	09-Jan-2020 13:00:36.0	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>
12	(1) HD-222925	STIS/CCD STIS/NUV-MAMA	3	09-Jan-2020 13:00:37.0	yes
13	(1) HD-222925	STIS/CCD STIS/NUV-MAMA	3	09-Jan-2020 13:00:38.0	yes
14	(1) HD-222925	STIS/CCD STIS/NUV-MAMA	3	09-Jan-2020 13:00:40.0	yes
15	(1) HD-222925	STIS/CCD STIS/NUV-MAMA	3	09-Jan-2020 13:00:41.0	yes
16	(1) HD-222925	STIS/CCD STIS/NUV-MAMA	3	09-Jan-2020 13:00:43.0	yes
17	(1) HD-222925	STIS/CCD STIS/NUV-MAMA	3	09-Jan-2020 13:00:44.0	yes
58	(1) HD-222925	STIS/CCD STIS/NUV-MAMA	2	09-Jan-2020 13:00:45.0	yes

60 Total Orbits Used

## ABSTRACT

The r-process is one of the fundamental ways nature produces heavy elements, but the specific physical characteristics of the r-process are not yet fully understood. HD 222925, the brightest and most highly r-process-enhanced star known, provides the first opportunity to test unexplored regimes of r-process models. New STIS/E230H observations are proposed to obtain a high-S/N, high-resolution UV spectrum of HD 222925, which will provide the most detailed census of elements produced by a single r-process event, such as a neutron star merger. Twenty-eight r-process elements have been detected in the optical spectrum of HD 222925; the proposed UV spectra would enable the detection of 13 additional elements produced by the r-process (Ge, Se, Cd, Sn, Sb, Te, Ta, W, Re, Pt, Au, Pb, and Bi) that cannot be detected in ground-based spectra of HD 222925 and are rarely, if ever, detected in optical/UV spectra of other r-process-enhanced stars. The proposed observations would yield the most complete and precise r-process abundance template beyond the Solar System, and it would be the only r-process pattern formed by a single r-process event where all three r-process peaks (Se, Te, and Os-Ir-Pt) are detected. Comparing the r-process abundance pattern derived from HD 222925 with model predictions links directly to the physics at the site of the r-process, including the level of neutron richness, the role played by mixing between the r-process peak production sites, and the importance of fission recycling. This approach to understanding the r-process complements and extends the approach

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informed by observations of the kilonovae associated with neutron star mergers.

## **OBSERVING DESCRIPTION**

The goal of this observing program is to collect E230H R=114,000 spectra of one star, HD 222925, with complete spectral coverage from 1924 to 3150 Angstroms. This is a non-variable, RHB, metal-poor Pop II star. Because the target is non-variable, spectra can be collected at any time with no constraints. Observations have been grouped into 2- or 3-orbit visits to minimize overhead and maximize scheduling flexibility.

For the 3-orbit visits, there should be five exposures. Orbit 1: ACQ, ACQ/PEAK, and SCIENCE. Orbit 2: SCIENCE. Orbit 3: SCIENCE.

For the 2-orbit visits, there should be four exposures. Orbit 1: ACQ, ACQ/PEAK, and SCIENCE. Orbit 2: SCIENCE.

Note to self: This sequence assumes that there are two guide stars available to minimize drift. If only one guide star is available, the drift could be enough to move the star off the 0.2x0.09 slit. (See STIS handbook, 8.1.4.) If that's the case, then use 2-orbit visits instead.

Setup 1: E230H/c3012 (2 orbits x 1 visit) = 2 orbits  
STIS.sp.1178852

Setup 2: E230H/i2812: (2 orbits x 2 visits) = 4 orbits  
STIS.sp.1178849

Setup 3: E230H/i2563: (3 orbits x 1 visit) + (2 orbits x 1 visit) = 5 orbits  
STIS.sp.1178845

Setup 4: E230H/i2313: (3 orbits x 3 visits) = 9 orbits  
STIS.sp.1178843

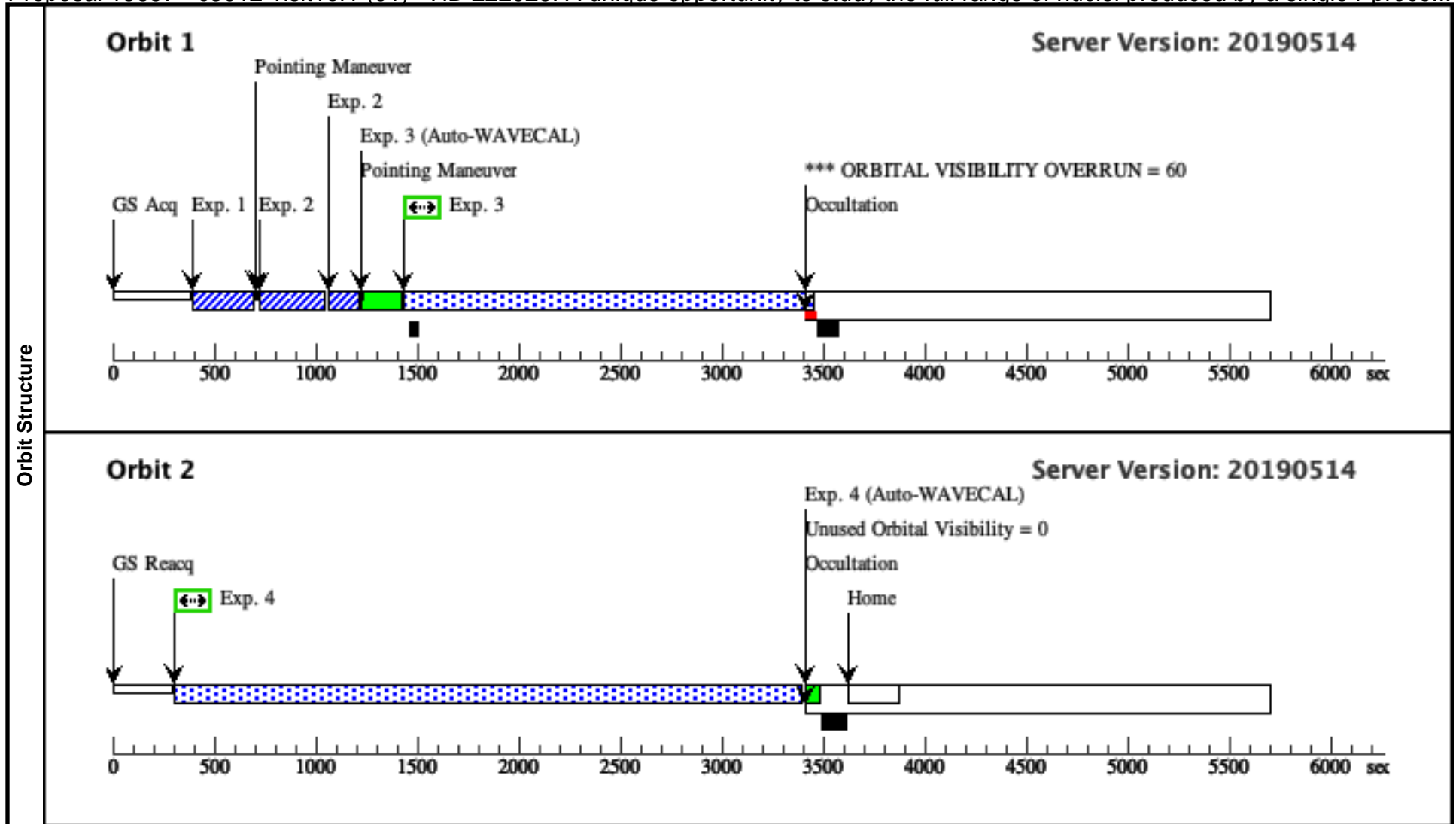
Setup 5: E230H/i2063: (3 orbits x 9 visits) = 27 orbits  
STIS.sp.1182944

The ICRS coordinates, proper motions, and parallax values are taken from Gaia DR2. I have checked the target confirmation chart, and the crosshairs line up to within 1 DSS pixel of the stellar diffraction spikes on the image. This precision has been sufficient to correctly observe similar targets with the 0.2x0.09 slit in previous STIS observing runs.

The ETC gives a warning for the target acquisition steps: "WARNING MESSAGE: Partial overlap between instrument throughput band and target spectrum. Please doublecheck the wavelength range covered by the selected spectrum, and the instrument documentation for the selected filter." The STIS documentation does not clarify this warning, and when I used a nearly identical procedure for GO-14765 no warning was produced. (And now, when I try to reproduce the TA ETC for GO-14765, I get this warning; those observations were executed successfully.) An email from Dan Welty, via Tricia Royal, explained it as so: "I believe that this warning is triggered when the input spectrum used for the calculation does not fully cover the wavelength range over which the filter/aperture is defined. In this case, the input spectrum goes down to about 1300 Å, but the F25ND3 is defined to below 1250 Å. But since both the filter/CCD transmission and the input spectrum are both rapidly declining below 1300 Å, it should not be a problem for the acq." Based on this information, I have disregarded this warning message.

Proposal 15657 - c3012-visit1of1 (01) - HD 222925: A unique opportunity to study the full range of nuclei produced by a single r-proce...

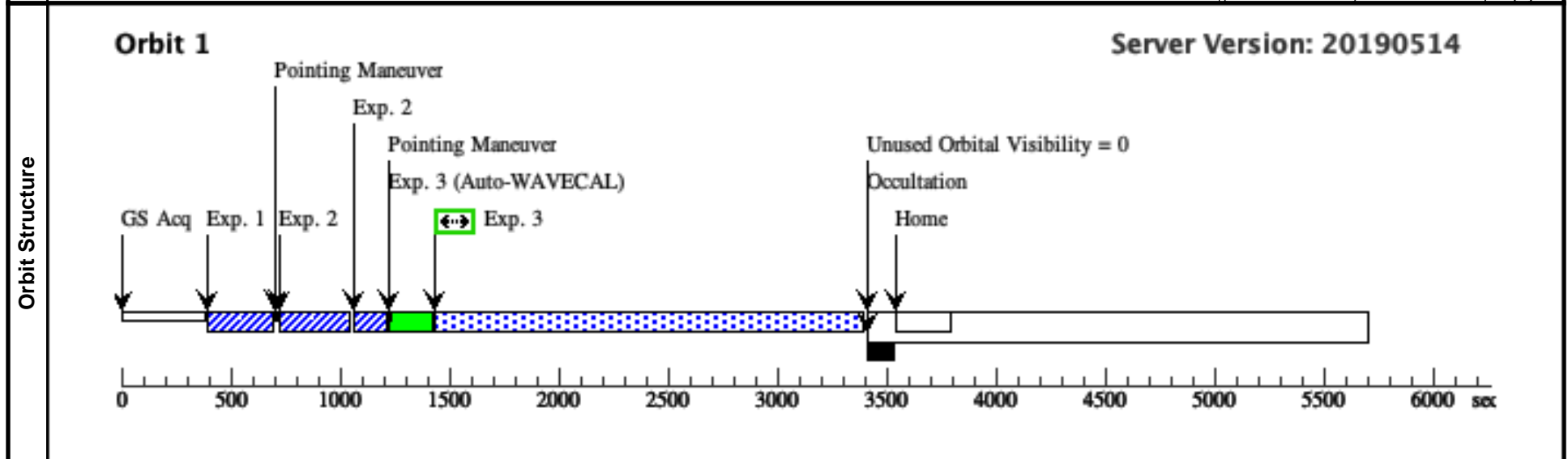
Visit	<b>Proposal 15657, c3012-visit1of1 (01), completed</b> <span style="float: right;">Thu Jan 09 18:00:46 GMT 2020</span> <b>Diagnostic Status: Warning</b> Scientific Instruments: STIS/NUV-MAMA, STIS/CCD Special Requirements: (none)																																																											
Diagnostics	(c3012-visit1of1 (01)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN																																																											
Fixed Targets	<table border="1" style="width: 100%; border-collapse: collapse;"> <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>(1)</td> <td>HD-222925</td> <td>RA: 23 45 17.9472 (356.3247800d) Dec: -61 54 44.37 (-61.91233d) Equinox: J2000</td> <td>Proper Motion RA: 154.854 mas/yr Proper Motion Dec: -99.171 mas/yr Parallax: 0.0022332" Epoch of Position: 2015.5 Radial Velocity: -38.9 km/sec</td> <td>V=9.02+/-0.02</td> <td>Reference Frame: ICRS</td> </tr> </tbody> </table> <p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i></p> <p><i>Star ID in Gaia DR2 catalog: Gaia DR2 6487799171512458624</i>  <i>Category=STAR</i>  <i>Description=[G III-I, HORIZONTAL BRANCH STAR, POPULATION II]</i>  <i>Extended=NO</i></p>										#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous	(1)	HD-222925	RA: 23 45 17.9472 (356.3247800d) Dec: -61 54 44.37 (-61.91233d) Equinox: J2000	Proper Motion RA: 154.854 mas/yr Proper Motion Dec: -99.171 mas/yr Parallax: 0.0022332" Epoch of Position: 2015.5 Radial Velocity: -38.9 km/sec	V=9.02+/-0.02	Reference Frame: ICRS																																						
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Exposures	<table border="1" style="width: 100%; border-collapse: collapse;"> <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.129 7462)</td> <td>(1) HD-222925</td> <td>STIS/CCD, ACQ, F25ND3</td> <td>MIRROR</td> <td></td> <td></td> <td></td> <td>3 Secs (3 Secs) [=&gt;]</td> <td>[1]</td> </tr> <tr> <td>2</td> <td>(STIS.ta.129 7466)</td> <td>(1) HD-222925</td> <td>STIS/CCD, ACQ/PEAK, 0.2X0.05ND</td> <td>MIRROR</td> <td></td> <td></td> <td></td> <td>1.5 Secs (1.5 Secs) [=&gt;]</td> <td>[1]</td> </tr> <tr> <td>3</td> <td>(STIS.sp.11 78852)</td> <td>(1) HD-222925</td> <td>STIS/NUV-MAMA, ACCUM, 0.2X0.09</td> <td>E230H 3012 A</td> <td></td> <td></td> <td></td> <td>2300 Secs (2004 Secs) [=&gt;2004.0 Secs ]</td> <td>[1]</td> </tr> <tr> <td>4</td> <td>(STIS.sp.11 78852)</td> <td>(1) HD-222925</td> <td>STIS/NUV-MAMA, ACCUM, 0.2X0.09</td> <td>E230H 3012 A</td> <td></td> <td></td> <td></td> <td>3300 Secs (3079 Secs) [=&gt;3079.0 Secs ]</td> <td>[2]</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.129 7462)	(1) HD-222925	STIS/CCD, ACQ, F25ND3	MIRROR				3 Secs (3 Secs) [=>]	[1]	2	(STIS.ta.129 7466)	(1) HD-222925	STIS/CCD, ACQ/PEAK, 0.2X0.05ND	MIRROR				1.5 Secs (1.5 Secs) [=>]	[1]	3	(STIS.sp.11 78852)	(1) HD-222925	STIS/NUV-MAMA, ACCUM, 0.2X0.09	E230H 3012 A				2300 Secs (2004 Secs) [=>2004.0 Secs ]	[1]	4	(STIS.sp.11 78852)	(1) HD-222925	STIS/NUV-MAMA, ACCUM, 0.2X0.09	E230H 3012 A				3300 Secs (3079 Secs) [=>3079.0 Secs ]	[2]
#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit																																																			
1	(STIS.ta.129 7462)	(1) HD-222925	STIS/CCD, ACQ, F25ND3	MIRROR				3 Secs (3 Secs) [=>]	[1]																																																			
2	(STIS.ta.129 7466)	(1) HD-222925	STIS/CCD, ACQ/PEAK, 0.2X0.05ND	MIRROR				1.5 Secs (1.5 Secs) [=>]	[1]																																																			
3	(STIS.sp.11 78852)	(1) HD-222925	STIS/NUV-MAMA, ACCUM, 0.2X0.09	E230H 3012 A				2300 Secs (2004 Secs) [=>2004.0 Secs ]	[1]																																																			
4	(STIS.sp.11 78852)	(1) HD-222925	STIS/NUV-MAMA, ACCUM, 0.2X0.09	E230H 3012 A				3300 Secs (3079 Secs) [=>3079.0 Secs ]	[2]																																																			



<b>Visit</b>	<b>Proposal 15657, c3012-visit2of1 (51)</b>				
	<b>Diagnostic Status: No Diagnostics</b> Scientific Instruments: STIS/NUV-MAMA, STIS/CCD Special Requirements: (none) <i>Comments: This visit replaces the one orbit that was lost in visit 01. See HOPR 91692.</i>				

<b>Fixed Targets</b>	<b>#</b>	<b>Name</b>	<b>Target Coordinates</b>	<b>Targ. Coord. Corrections</b>	<b>Fluxes</b>	<b>Miscellaneous</b>
	(1)	HD-222925	RA: 23 45 17.9472 (356.3247800d) Dec: -61 54 44.37 (-61.91233d) Equinox: J2000	Proper Motion RA: 154.854 mas/yr Proper Motion Dec: -99.171 mas/yr Parallax: 0.0022332" Epoch of Position: 2015.5 Radial Velocity: -38.9 km/sec	V=9.02+/-0.02	Reference Frame: ICRS
<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> Star ID in Gaia DR2 catalog: Gaia DR2 6487799171512458624 Category=STAR Description=[G III-I, HORIZONTAL BRANCH STAR, POPULATION II] Extended=NO						

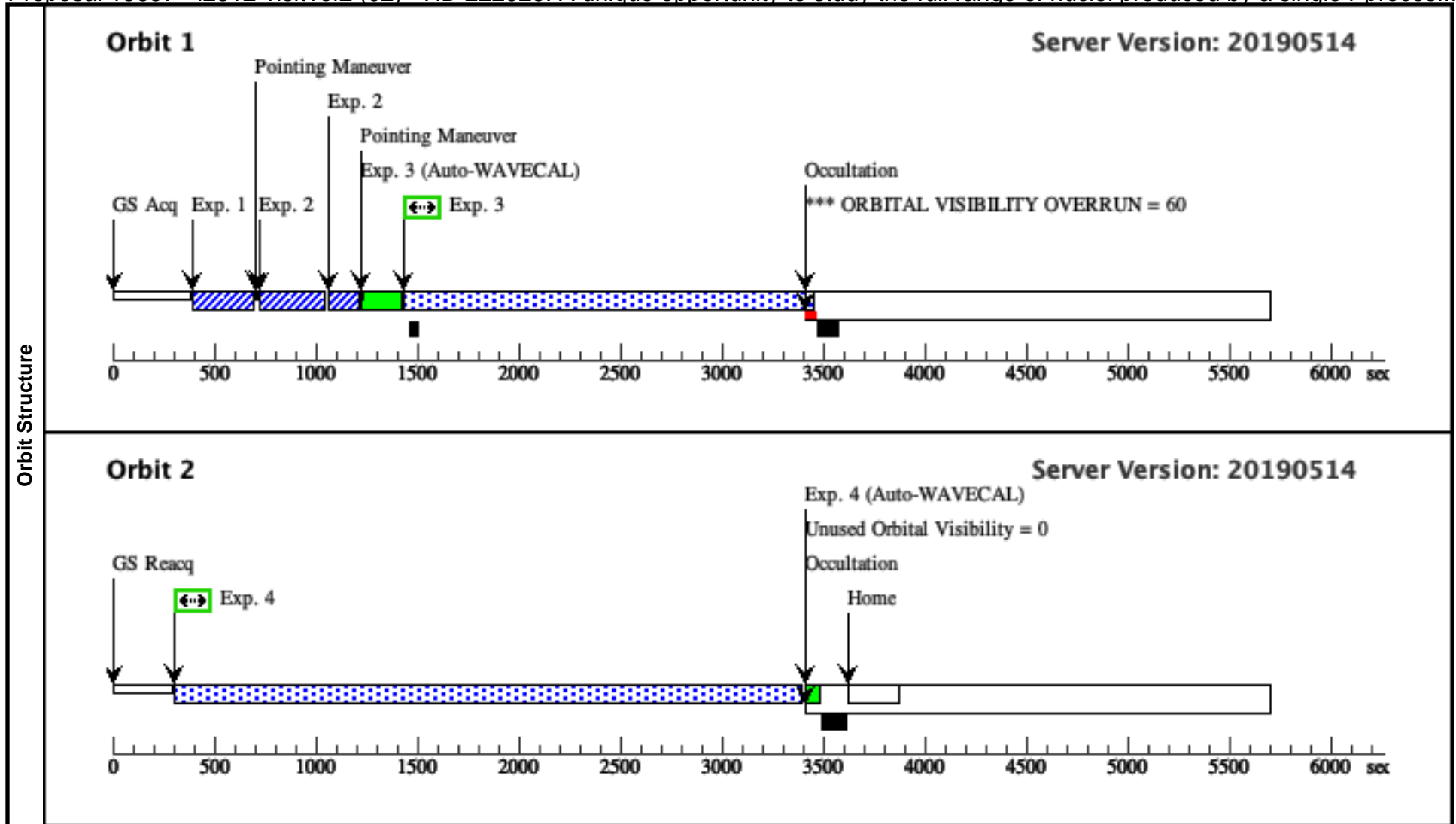
<b>Exposures</b>	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(STIS.ta.129 7462)	(1) HD-222925	STIS/CCD, ACQ, F25ND3	MIRROR					3 Secs (3 Secs)
2	(STIS.ta.129 7466)	(1) HD-222925	STIS/CCD, ACQ/PEAK, 0.2X0.05ND	MIRROR					1.5 Secs (1.5 Secs)	
3	(STIS.sp.11 78852)	(1) HD-222925	STIS/NUV-MAMA, ACCUM, 0.2X0.09	E230H 3012 A					2300 Secs (1944 Secs)	



Proposal 15657 - i2812-visit1of2 (02) - HD 222925: A unique opportunity to study the full range of nuclei produced by a single r-proces...

Thu Jan 09 18:00:46 GMT 2020

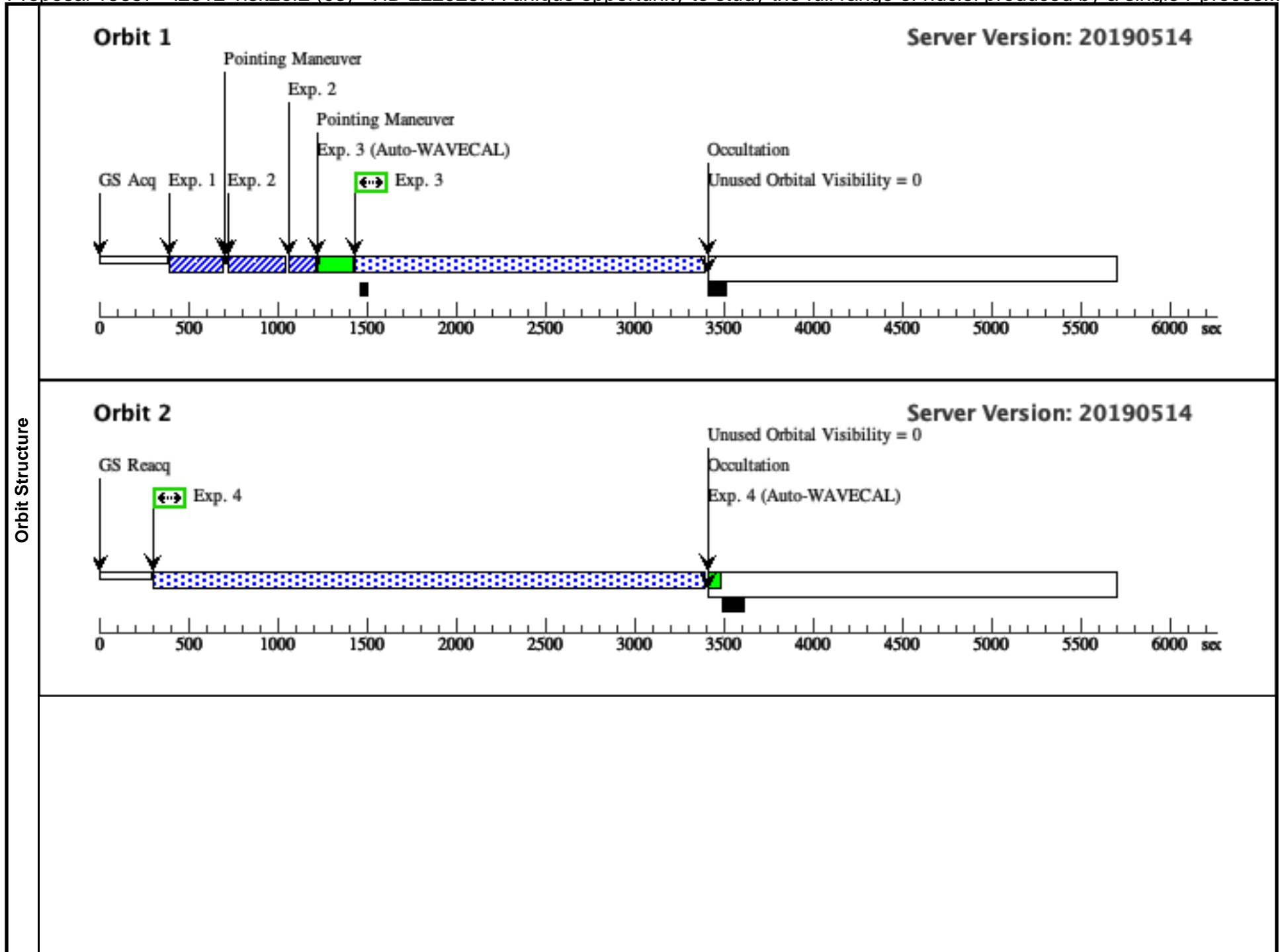
<b>Visit</b>	<b>Proposal 15657, i2812-visit1of2 (02), failed</b> <b>Diagnostic Status: Warning</b> Scientific Instruments: STIS/NUV-MAMA, STIS/CCD Special Requirements: (none)									
	(i2812-visit1of2 (02)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN									
<b>Diagnosics</b>										
<b>Fixed Targets</b>	<b>#</b>	<b>Name</b>	<b>Target Coordinates</b>	<b>Targ. Coord. Corrections</b>	<b>Fluxes</b>	<b>Miscellaneous</b>				
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	1	(STIS.ta.129 7462)	(1) HD-222925	STIS/CCD, ACQ, F25ND3	MIRROR				3 Secs (3 Secs)	
									[==>]	[1]
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									[==>]	[1]
	3	(STIS.sp.11 78849)	(1) HD-222925	STIS/NUV-MAMA, ACCUM, 0.2X0.09	E230H 2812 A				2300 Secs (2004 Secs)	
								[==>2004.0 Secs ]	[1]	
4	(STIS.sp.11 78849)	(1) HD-222925	STIS/NUV-MAMA, ACCUM, 0.2X0.09	E230H 2812 A				3300 Secs (3079 Secs)		
								[==>3079.0 Secs ]	[2]	

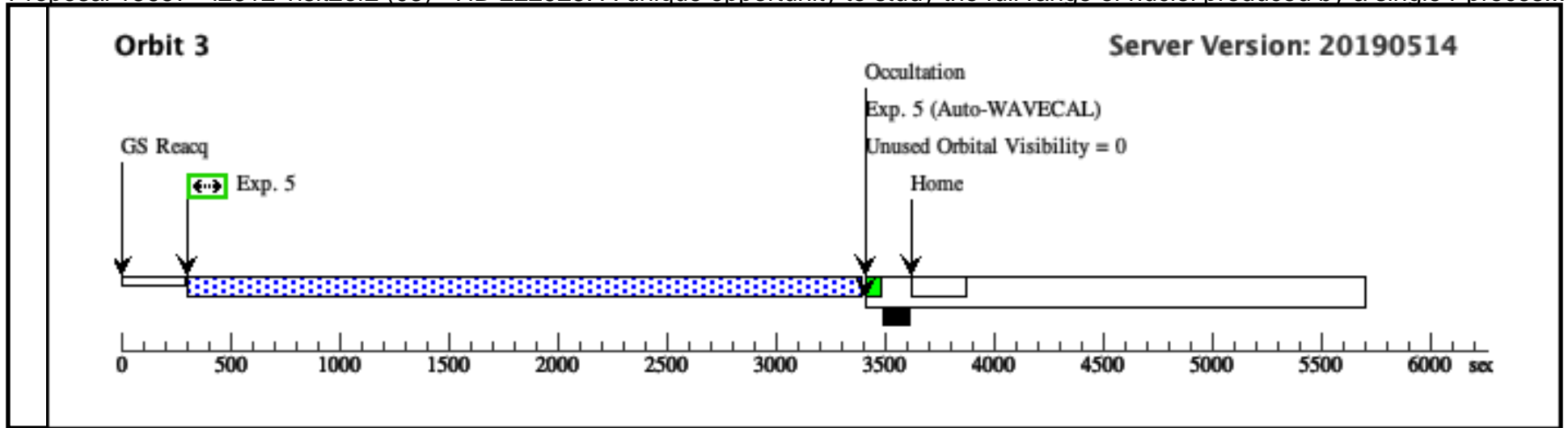


Proposal 15657 - i2812-visit2of2 (03) - HD 222925: A unique opportunity to study the full range of nuclei produced by a single r-proces...

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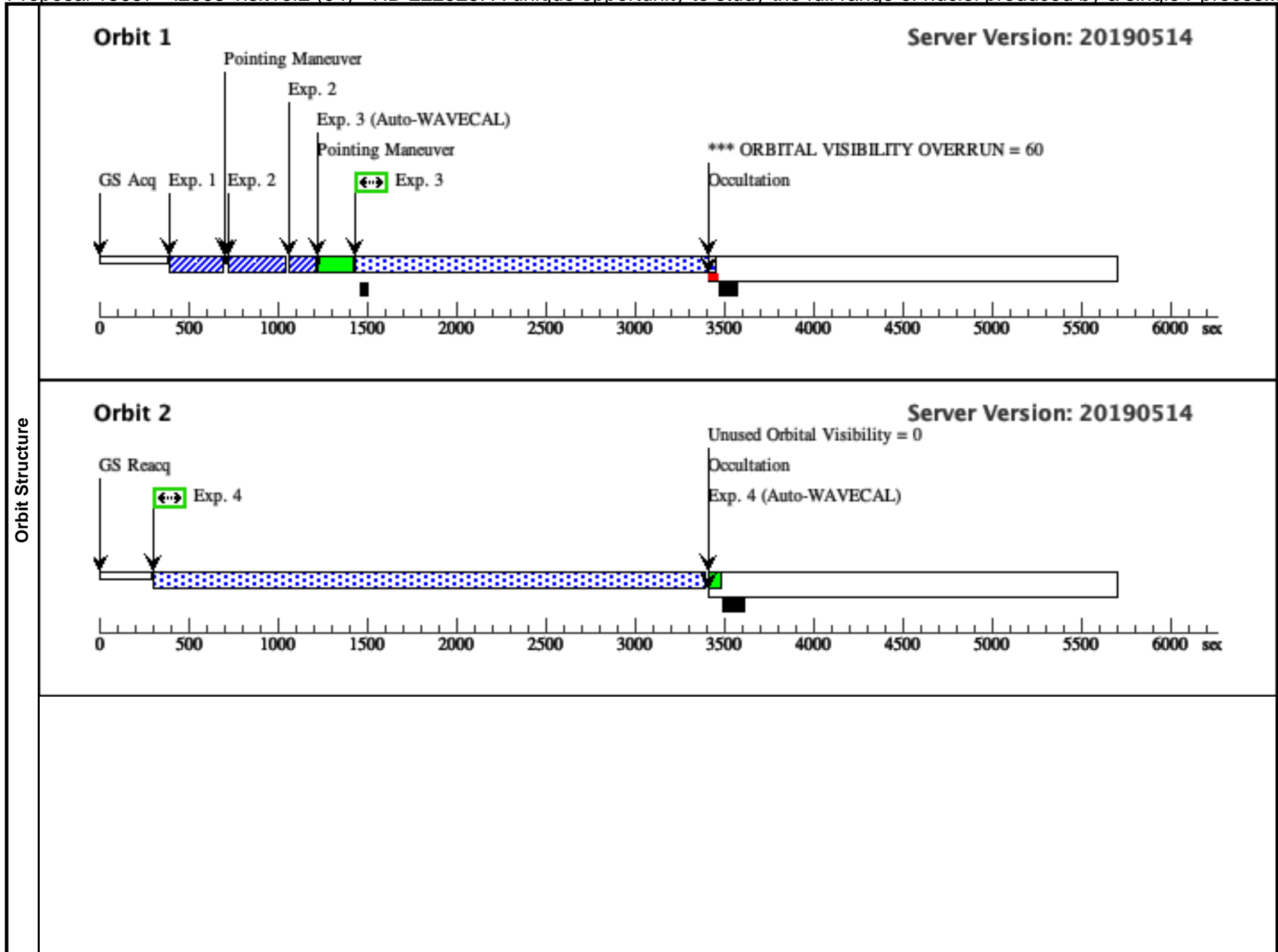
Visit	<b>Proposal 15657, i2812-visit2of2 (03), scheduling</b> <b>Diagnostic Status: No Diagnostics</b> Scientific Instruments: STIS/NUV-MAMA, STIS/CCD Special Requirements: (none) <i>Comments: An additional orbit has been added to this visit to replace the exposure that was lost in visit 02.</i>																																																																																																																							
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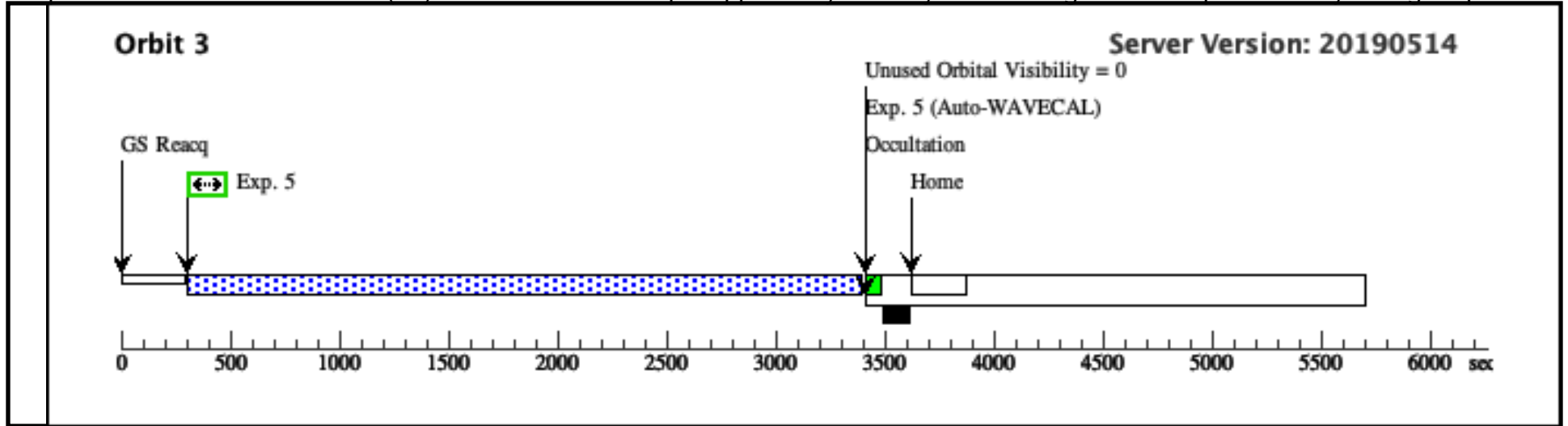




Proposal 15657 - i2563-visit1of2 (04) - HD 222925: A unique opportunity to study the full range of nuclei produced by a single r-proces...

<b>Visit</b>	Proposal 15657, i2563-visit1of2 (04), completed <span style="float: right;">Thu Jan 09 18:00:46 GMT 2020</span> <b>Diagnostic Status: Warning</b> Scientific Instruments: STIS/NUV-MAMA, STIS/CCD Special Requirements: (none)									
	(i2563-visit1of2 (04)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN									
<b>Fixed Targets</b>	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
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									[==>]	[1]
	2	(STIS.ta.129 7466)	(1) HD-222925	STIS/CCD, ACQ/PEAK, 0.2X0.05ND	MIRROR				1.5 Secs (1.5 Secs)	
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	3	(STIS.sp.11 78845)	(1) HD-222925	STIS/NUV-MAMA, ACCUM, 0.2X0.09	E230H 2563 A				2300 Secs (2004 Secs)	
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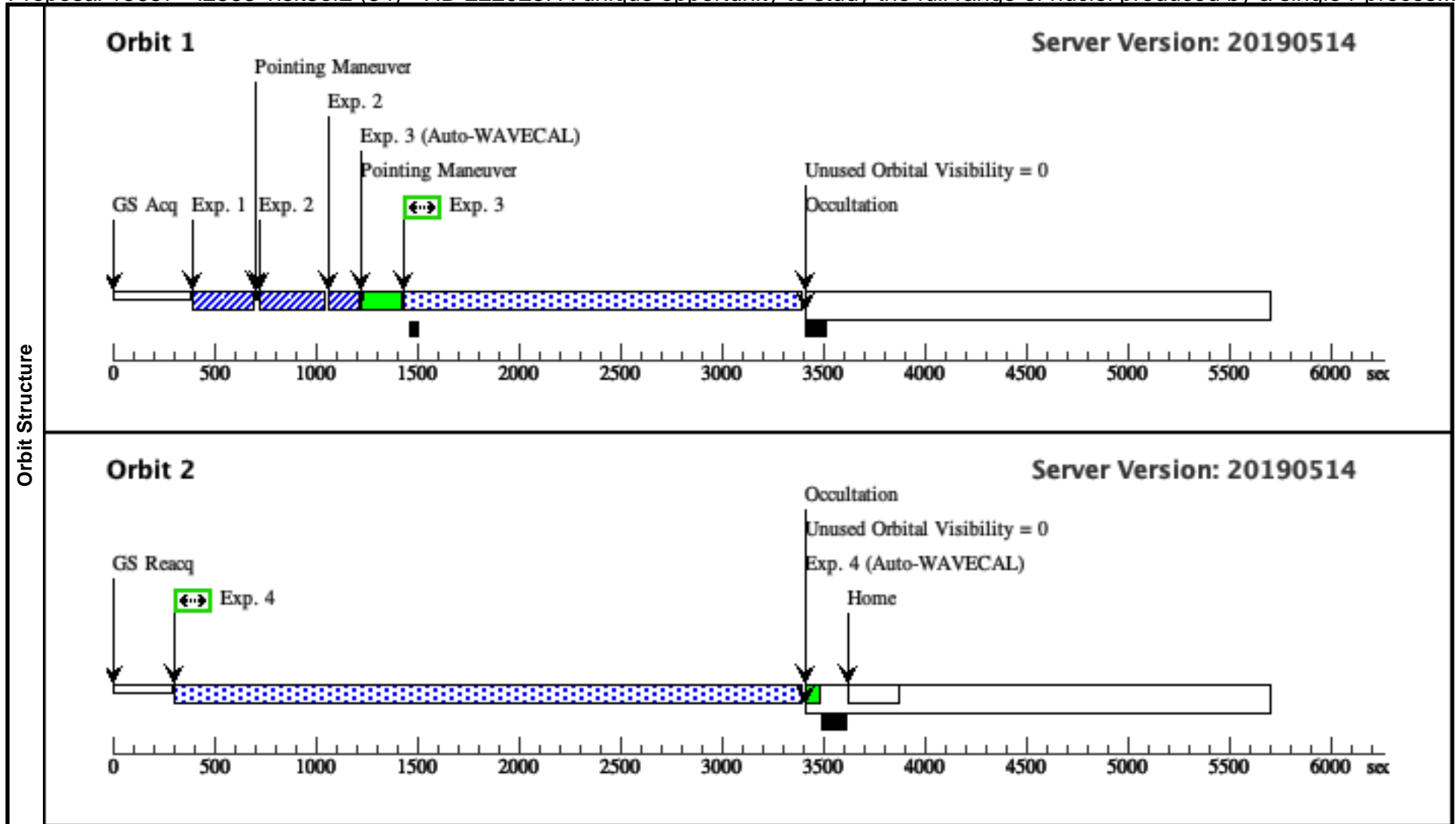




Proposal 15657 - i2563-visit3of2 (54) - HD 222925: A unique opportunity to study the full range of nuclei produced by a single r-proces...

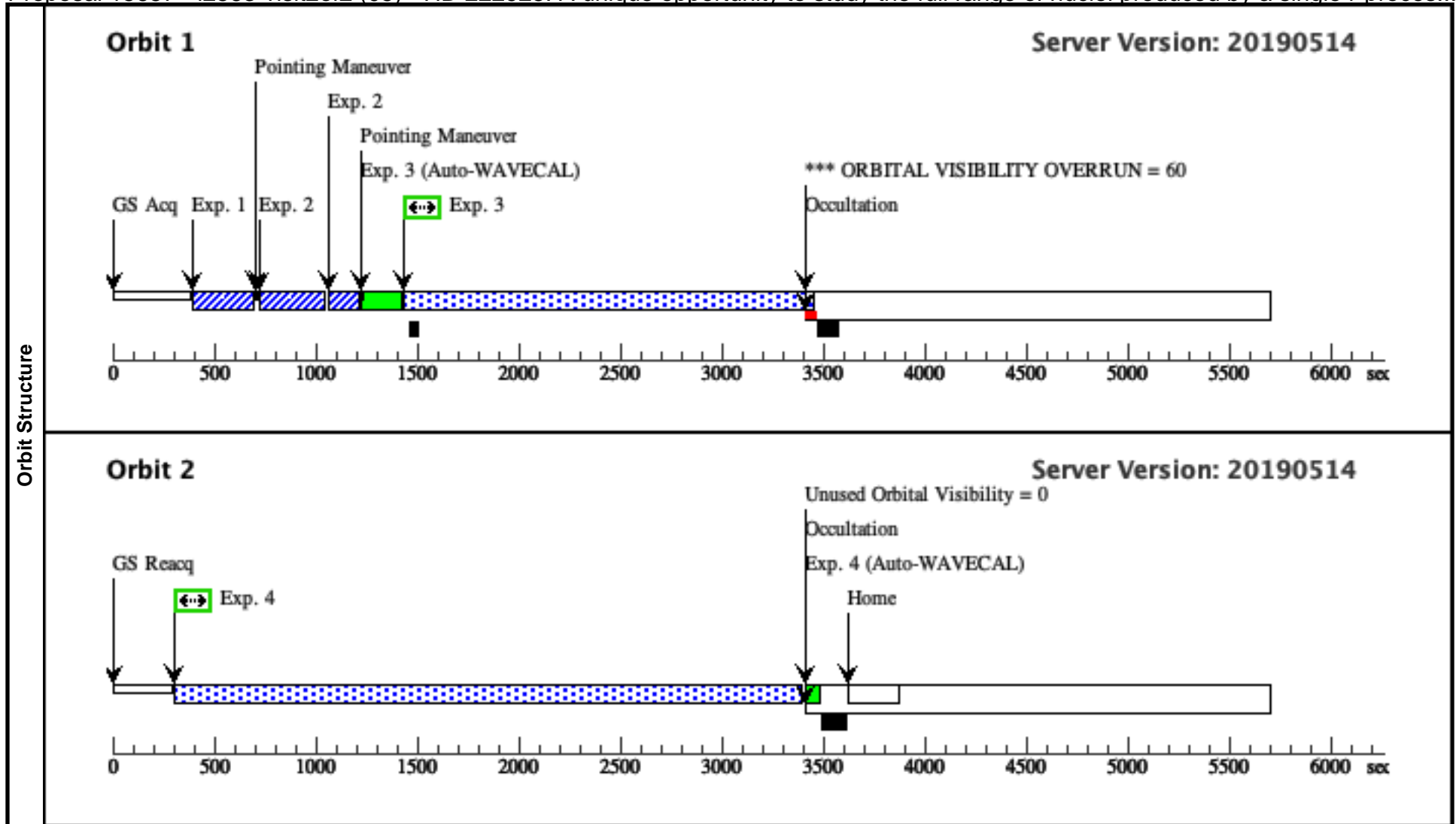
Thu Jan 09 18:00:46 GMT 2020

Visit	<b>Proposal 15657, i2563-visit3of2 (54)</b> <b>Diagnostic Status: No Diagnostics</b> Scientific Instruments: STIS/NUV-MAMA, STIS/CCD Special Requirements: (none) <i>Comments: This visit replaces the two orbits that were lost in visit 04. See HOPR 91693.</i>																																																																																																			
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Proposal 15657 - i2563-visit2of2 (05) - HD 222925: A unique opportunity to study the full range of nuclei produced by a single r-proces...

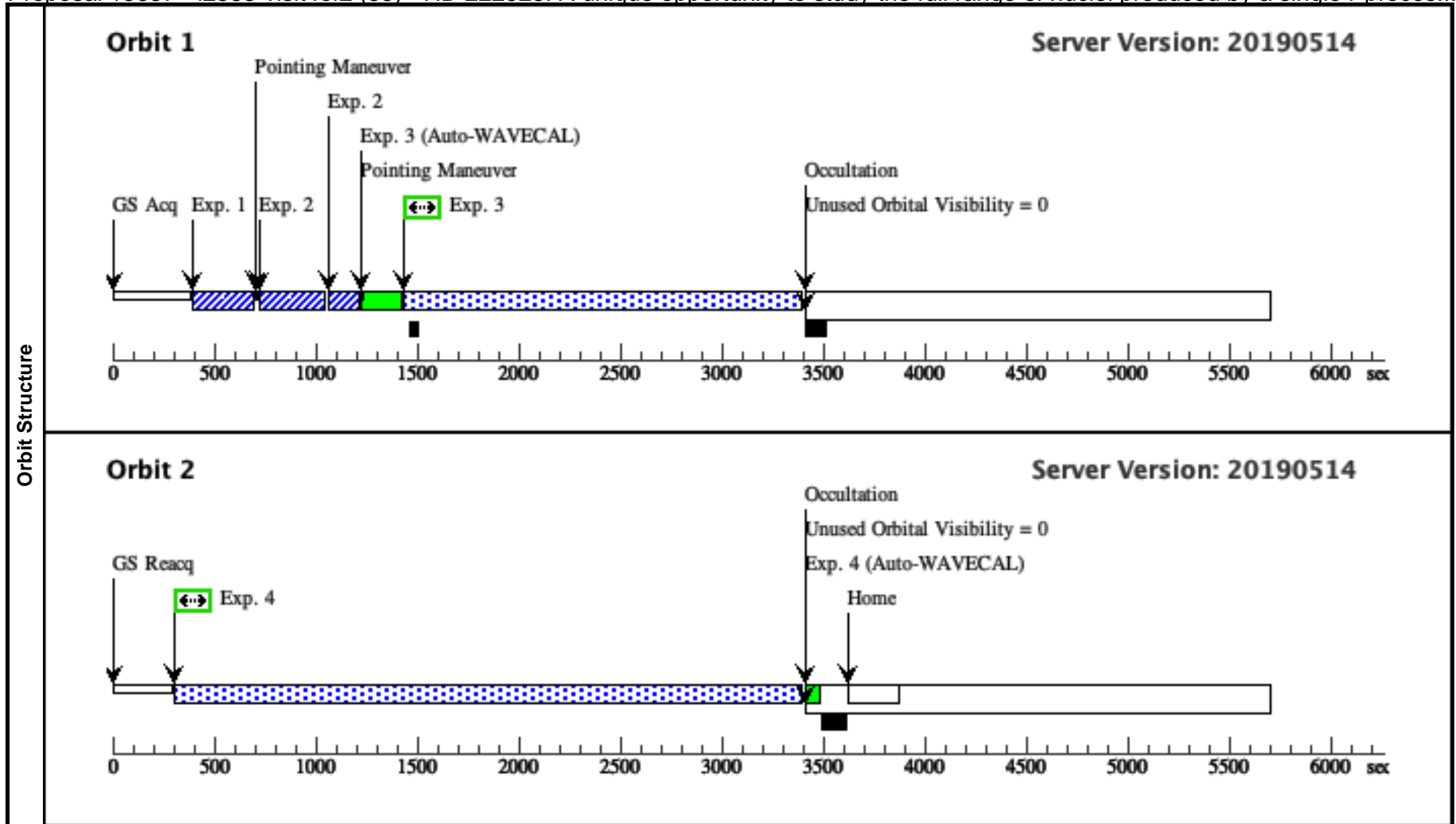
Visit	Proposal 15657, i2563-visit2of2 (05), completed <span style="float: right;">Thu Jan 09 18:00:46 GMT 2020</span> <b>Diagnostic Status: Warning</b> Scientific Instruments: STIS/NUV-MAMA, STIS/CCD Special Requirements: (none)																																																											
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3	(STIS.sp.11 78845)	(1) HD-222925	STIS/NUV-MAMA, ACCUM, 0.2X0.09	E230H 2563 A				2300 Secs (2004 Secs) [=>2004.0 Secs ]	[1]																																																			
4	(STIS.sp.11 78845)	(1) HD-222925	STIS/NUV-MAMA, ACCUM, 0.2X0.09	E230H 2563 A				3300 Secs (3079 Secs) [=>3079.0 Secs ]	[2]																																																			



Proposal 15657 - i2563-visit4of2 (55) - HD 222925: A unique opportunity to study the full range of nuclei produced by a single r-proces...

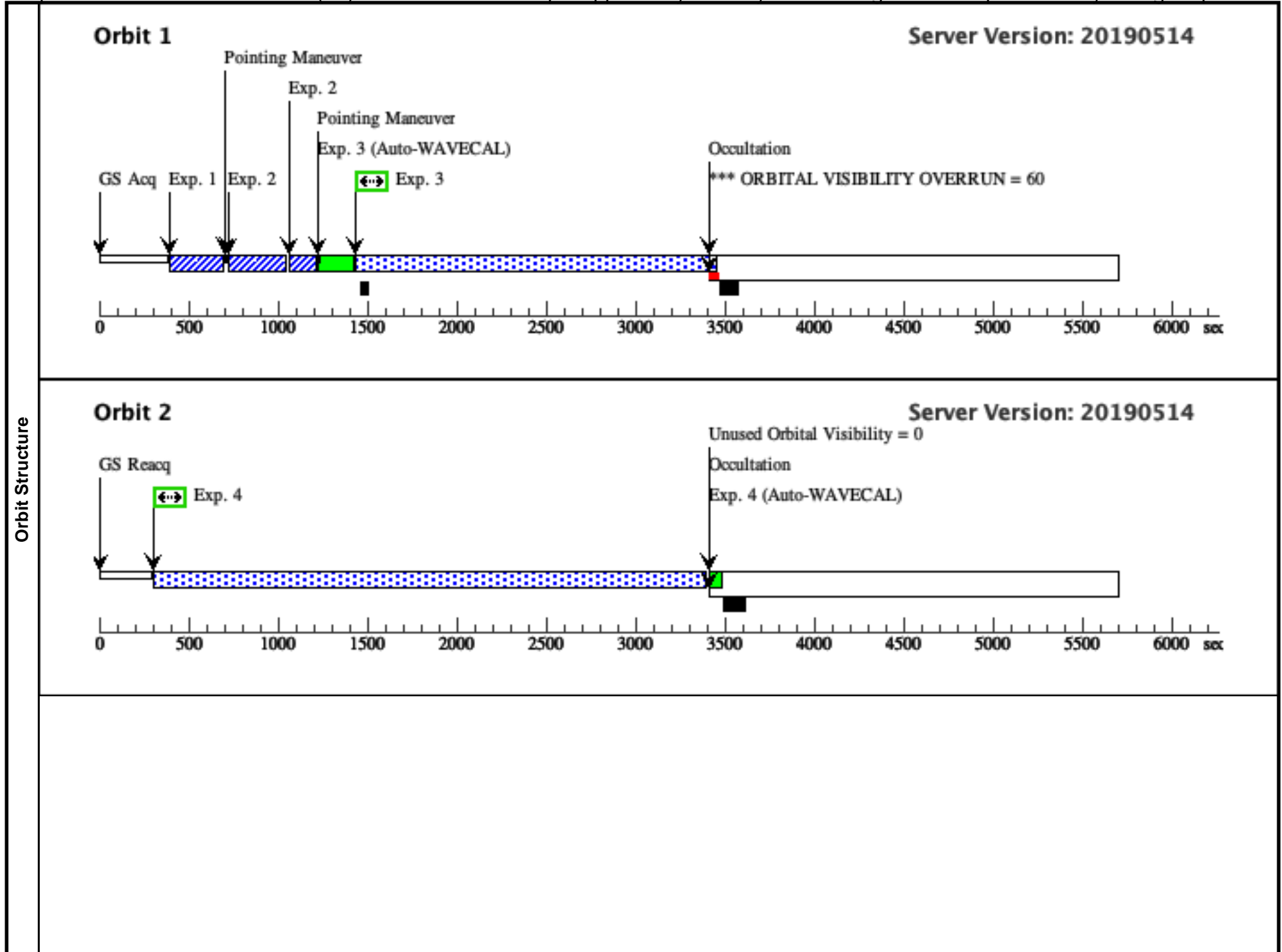
Thu Jan 09 18:00:46 GMT 2020

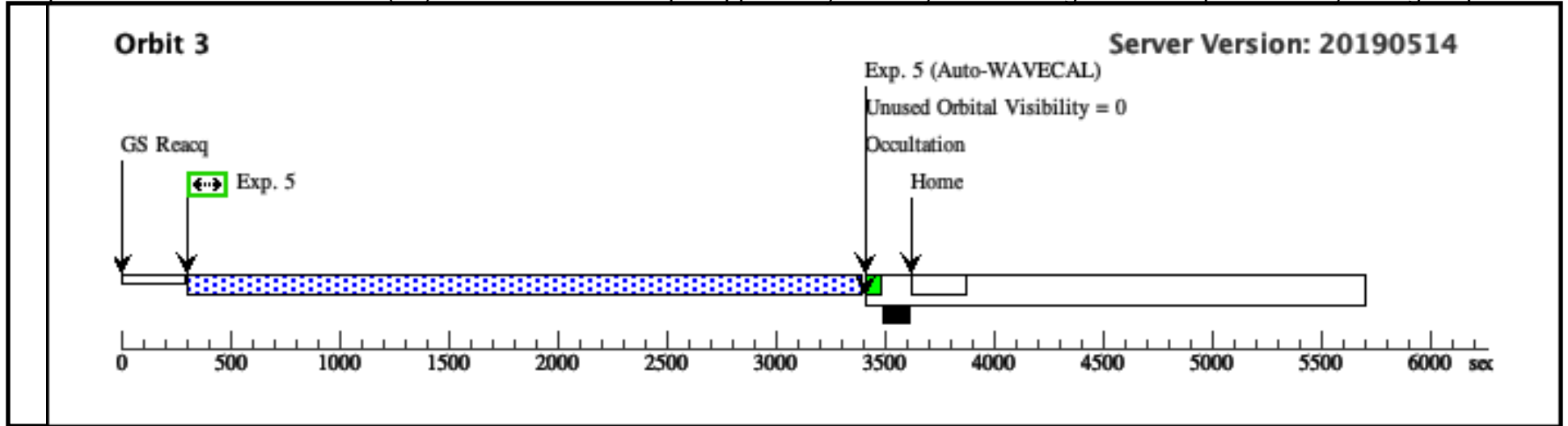
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	<b>Fixed Targets</b>	<b>#</b>	<b>Name</b>	<b>Target Coordinates</b>	<b>Targ. Coord. Corrections</b>		<b>Fluxes</b>	<b>Miscellaneous</b>		
(1)		HD-222925	RA: 23 45 17.9472 (356.3247800d) Dec: -61 54 44.37 (-61.91233d) Equinox: J2000	Proper Motion RA: 154.854 mas/yr Proper Motion Dec: -99.171 mas/yr Parallax: 0.0022332" Epoch of Position: 2015.5 Radial Velocity: -38.9 km/sec		V=9.02+/-0.02	Reference Frame: ICRS			
<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> Star ID in Gaia DR2 catalog: Gaia DR2 6487799171512458624 Category=STAR Description=[G III-I, HORIZONTAL BRANCH STAR, POPULATION II] Extended=NO										
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	1	(STIS.ta.129 7462)	(1) HD-222925	STIS/CCD, ACQ, F25ND3	MIRROR				3 Secs (3 Secs)	
									[==>]	[1]
	2	(STIS.ta.129 7466)	(1) HD-222925	STIS/CCD, ACQ/PEAK, 0.2X0.05ND	MIRROR				1.5 Secs (1.5 Secs)	
									[==>]	[1]
	3	(STIS.sp.11 78845)	(1) HD-222925	STIS/NUV-MAMA, ACCUM, 0.2X0.09	E230H 2563 A				2300 Secs (1944 Secs)	
								[==>1944.0 Secs ]	[1]	
4	(STIS.sp.11 78845)	(1) HD-222925	STIS/NUV-MAMA, ACCUM, 0.2X0.09	E230H 2563 A				3300 Secs (3079 Secs)		
								[==>3079.0 Secs ]	[2]	



Proposal 15657 - i2313-visit1of3 (06) - HD 222925: A unique opportunity to study the full range of nuclei produced by a single r-proces...

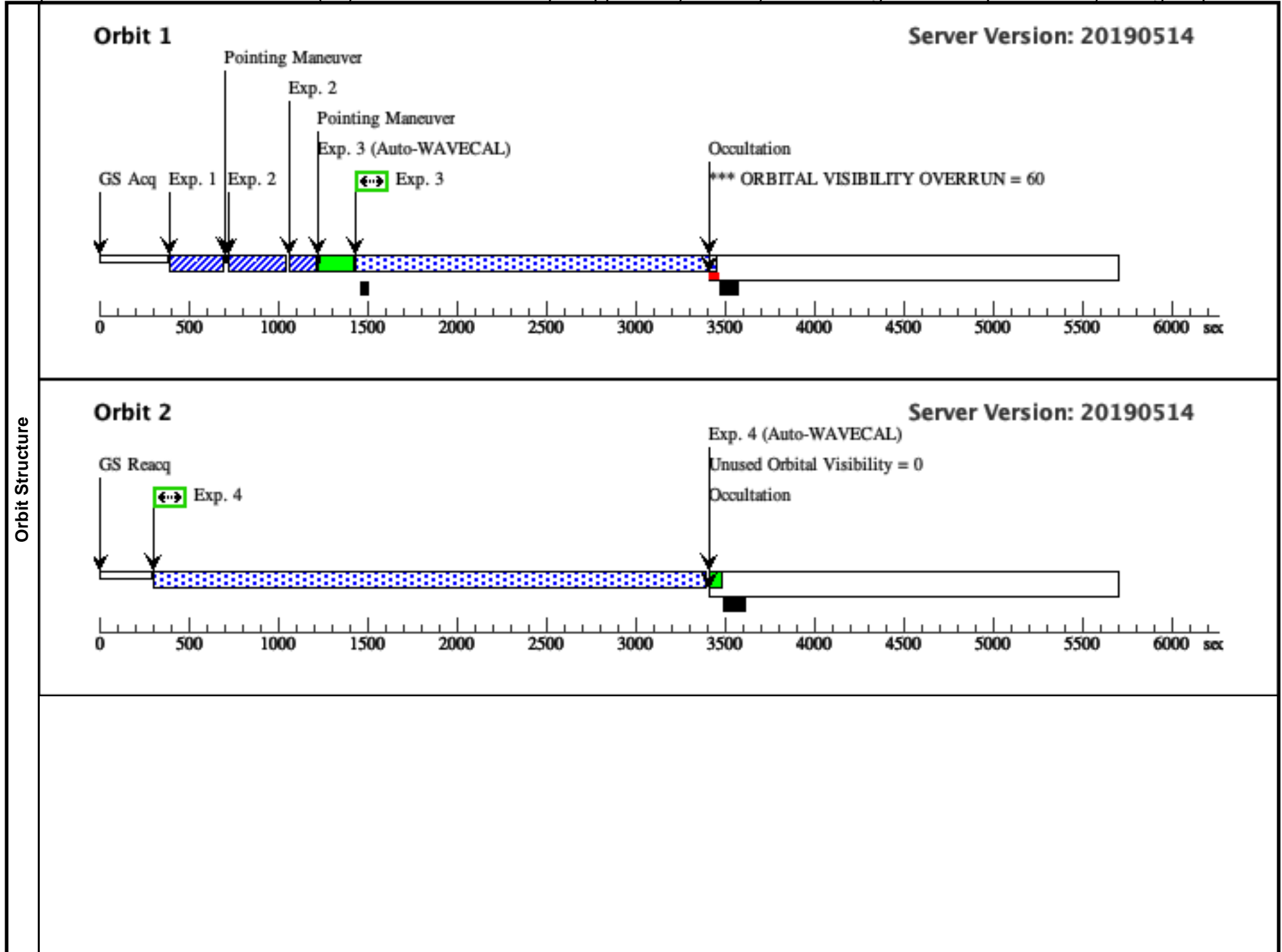
Visit	Proposal 15657, i2313-visit1of3 (06), completed <span style="float: right;">Thu Jan 09 18:00:47 GMT 2020</span> <b>Diagnostic Status: Warning</b> Scientific Instruments: STIS/NUV-MAMA, STIS/CCD Special Requirements: (none)																																																																					
Diagnostics	(i2313-visit1of3 (06)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN																																																																					
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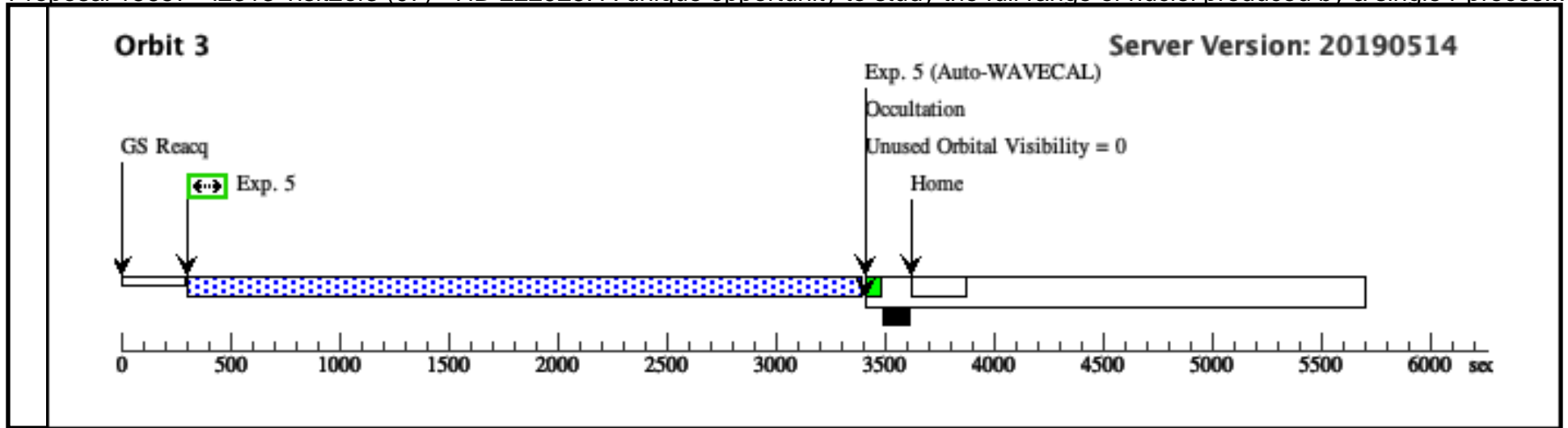




Proposal 15657 - i2313-visit2of3 (07) - HD 222925: A unique opportunity to study the full range of nuclei produced by a single r-proces...

Visit	Proposal 15657, i2313-visit2of3 (07), completed <span style="float: right;">Thu Jan 09 18:00:47 GMT 2020</span> <b>Diagnostic Status: Warning</b> Scientific Instruments: STIS/NUV-MAMA, STIS/CCD Special Requirements: (none)																																																																					
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Fixed Targets	<table border="1" style="width: 100%; border-collapse: collapse;"> <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>(1)</td> <td>HD-222925</td> <td>RA: 23 45 17.9472 (356.3247800d) Dec: -61 54 44.37 (-61.91233d) Equinox: J2000</td> <td>Proper Motion RA: 154.854 mas/yr Proper Motion Dec: -99.171 mas/yr Parallax: 0.0022332" Epoch of Position: 2015.5 Radial Velocity: -38.9 km/sec</td> <td>V=9.02+/-0.02</td> <td>Reference Frame: ICRS</td> </tr> </tbody> </table> <p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i></p> <p><i>Star ID in Gaia DR2 catalog: Gaia DR2 6487799171512458624</i>  <i>Category=STAR</i>  <i>Description=[G III-I, HORIZONTAL BRANCH STAR, POPULATION II]</i>  <i>Extended=NO</i></p>										#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous	(1)	HD-222925	RA: 23 45 17.9472 (356.3247800d) Dec: -61 54 44.37 (-61.91233d) Equinox: J2000	Proper Motion RA: 154.854 mas/yr Proper Motion Dec: -99.171 mas/yr Parallax: 0.0022332" Epoch of Position: 2015.5 Radial Velocity: -38.9 km/sec	V=9.02+/-0.02	Reference Frame: ICRS																																																
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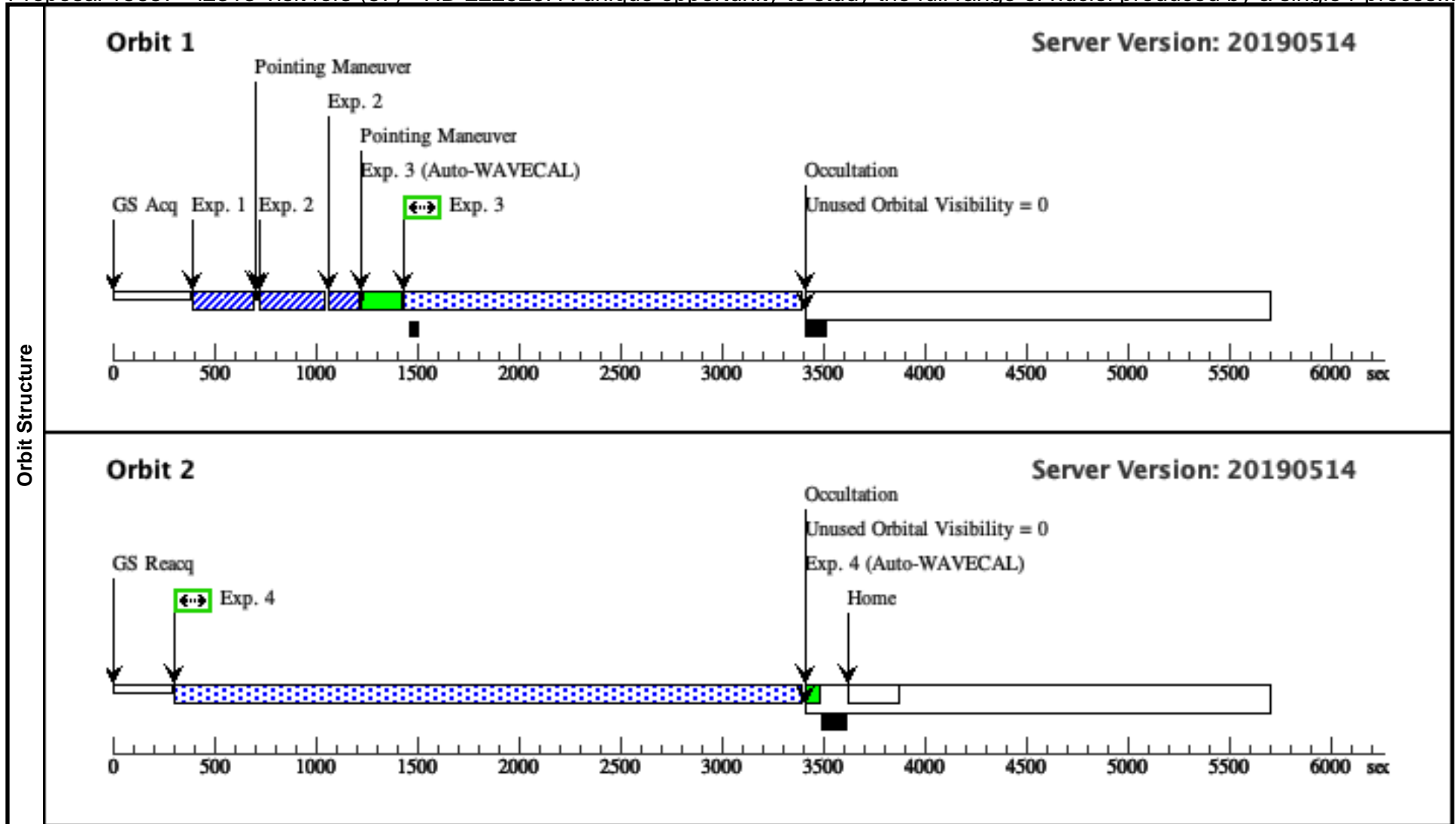




Proposal 15657 - i2313-visit4of3 (57) - HD 222925: A unique opportunity to study the full range of nuclei produced by a single r-proces...

Thu Jan 09 18:00:47 GMT 2020

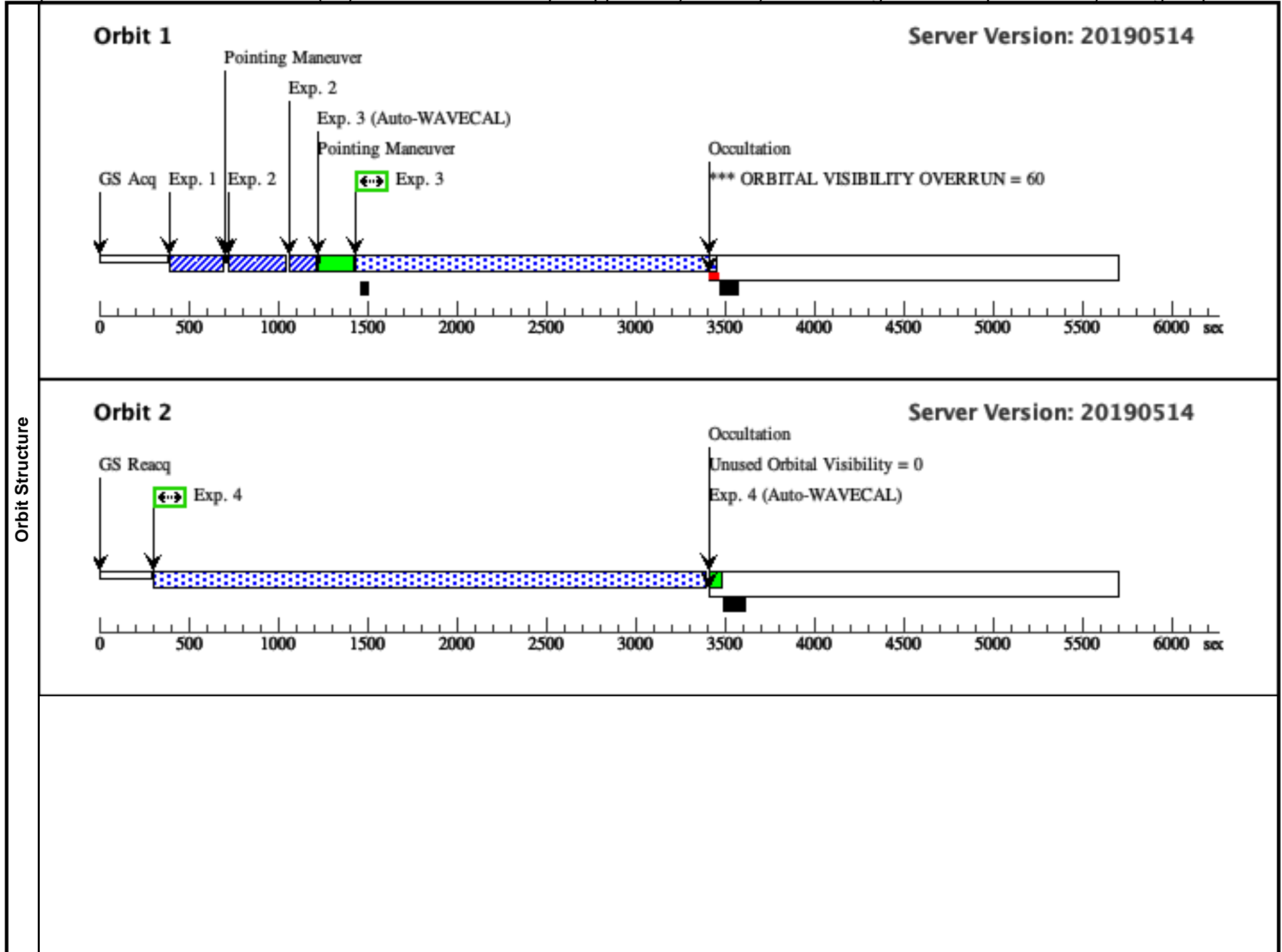
Visit	<b>Proposal 15657, i2313-visit4of3 (57)</b> <b>Diagnostic Status: No Diagnostics</b> Scientific Instruments: STIS/NUV-MAMA, STIS/CCD Special Requirements: (none) <i>Comments: This visit replaces the two orbits that were lost in visit 07. See HOPR 91695.</i>																																																																																																			
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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.129 7462)</td> <td>(1) HD-222925</td> <td>STIS/CCD, ACQ, F25ND3</td> <td>MIRROR</td> <td></td> <td></td> <td></td> <td>3 Secs (3 Secs)</td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>[==&gt;]</td> <td>[1]</td> </tr> <tr> <td>2</td> <td>(STIS.ta.129 7466)</td> <td>(1) HD-222925</td> <td>STIS/CCD, ACQ/PEAK, 0.2X0.05ND</td> <td>MIRROR</td> <td></td> <td></td> <td></td> <td>1.5 Secs (1.5 Secs)</td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>[==&gt;]</td> <td>[1]</td> </tr> <tr> <td>3</td> <td>(STIS.sp.11 78843)</td> <td>(1) HD-222925</td> <td>STIS/NUV-MAMA, ACCUM, 0.2X0.09</td> <td>E230H 2313 A</td> <td></td> <td></td> <td></td> <td>2300 Secs (1944 Secs)</td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>[==&gt;1944.0 Secs ]</td> <td>[1]</td> </tr> <tr> <td>4</td> <td>(STIS.sp.11 78843)</td> <td>(1) HD-222925</td> <td>STIS/NUV-MAMA, ACCUM, 0.2X0.09</td> <td>E230H 2313 A</td> <td></td> <td></td> <td></td> <td>3300 Secs (3079 Secs)</td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>[==&gt;3079.0 Secs ]</td> <td>[2]</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.129 7462)	(1) HD-222925	STIS/CCD, ACQ, F25ND3	MIRROR				3 Secs (3 Secs)										[==>]	[1]	2	(STIS.ta.129 7466)	(1) HD-222925	STIS/CCD, ACQ/PEAK, 0.2X0.05ND	MIRROR				1.5 Secs (1.5 Secs)										[==>]	[1]	3	(STIS.sp.11 78843)	(1) HD-222925	STIS/NUV-MAMA, ACCUM, 0.2X0.09	E230H 2313 A				2300 Secs (1944 Secs)										[==>1944.0 Secs ]	[1]	4	(STIS.sp.11 78843)	(1) HD-222925	STIS/NUV-MAMA, ACCUM, 0.2X0.09	E230H 2313 A				3300 Secs (3079 Secs)										[==>3079.0 Secs ]	[2]
	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit																																																																																										
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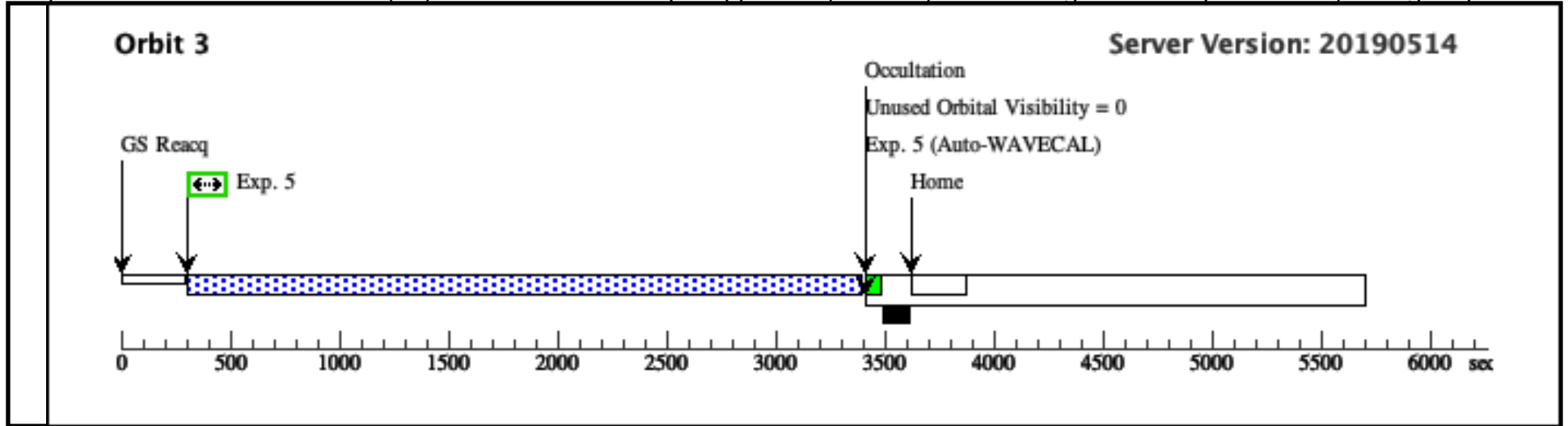


Proposal 15657 - i2313-visit3of3 (08) - HD 222925: A unique opportunity to study the full range of nuclei produced by a single r-proces...

Thu Jan 09 18:00:47 GMT 2020

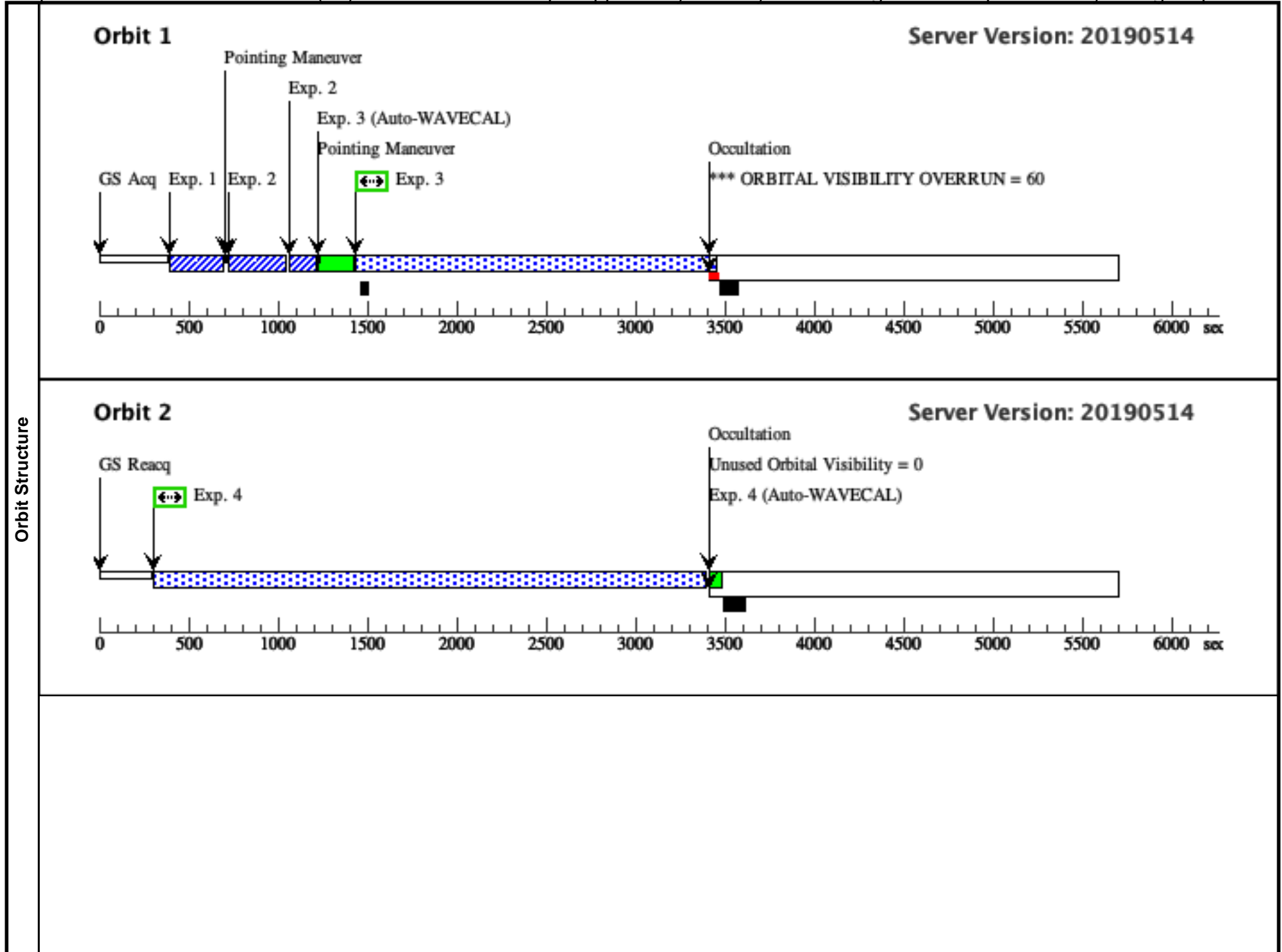
<b>Visit</b>	<b>Proposal 15657, i2313-visit3of3 (08), failed</b> <b>Diagnostic Status: Warning</b> Scientific Instruments: STIS/NUV-MAMA, STIS/CCD Special Requirements: (none)									
	(i2313-visit3of3 (08)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN									
<b>Fixed Targets</b>	<b>#</b>	<b>Name</b>	<b>Target Coordinates</b>	<b>Targ. Coord. Corrections</b>		<b>Fluxes</b>	<b>Miscellaneous</b>			
	(1)	HD-222925	RA: 23 45 17.9472 (356.3247800d) Dec: -61 54 44.37 (-61.91233d) Equinox: J2000	Proper Motion RA: 154.854 mas/yr Proper Motion Dec: -99.171 mas/yr Parallax: 0.0022332" Epoch of Position: 2015.5 Radial Velocity: -38.9 km/sec	V=9.02+/-0.02	Reference Frame: ICRS				
<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> Star ID in Gaia DR2 catalog: Gaia DR2 6487799171512458624 Category=STAR Description=[G III-I, HORIZONTAL BRANCH STAR, POPULATION II] Extended=NO										
<b>Exposures</b>	<b>#</b>	<b>Label (ETC Run)</b>	<b>Target</b>	<b>Config,Mode,Aperture</b>	<b>Spectral Els.</b>	<b>Opt. Params.</b>	<b>Special Reqs.</b>	<b>Groups</b>	<b>Exp. Time (Total)/[Actual Dur.]</b>	<b>Orbit</b>
	1	(STIS.ta.129 7462)	(1) HD-222925	STIS/CCD, ACQ, F25ND3	MIRROR				3 Secs (3 Secs)	
									[==>]	[1]
	2	(STIS.ta.129 7466)	(1) HD-222925	STIS/CCD, ACQ/PEAK, 0.2X0.05ND	MIRROR				1.5 Secs (1.5 Secs)	
									[==>]	[1]
	3	(STIS.sp.11 78843)	(1) HD-222925	STIS/NUV-MAMA, ACCUM, 0.2X0.09	E230H 2313 A				2300 Secs (2004 Secs)	
								[==>2004.0 Secs ]	[1]	
4	(STIS.sp.11 78843)	(1) HD-222925	STIS/NUV-MAMA, ACCUM, 0.2X0.09	E230H 2313 A				3300 Secs (3079 Secs)		
								[==>3079.0 Secs ]	[2]	
5	(STIS.sp.11 78843)	(1) HD-222925	STIS/NUV-MAMA, ACCUM, 0.2X0.09	E230H 2313 A				3300 Secs (3079 Secs)		
								[==>3079.0 Secs ]	[3]	

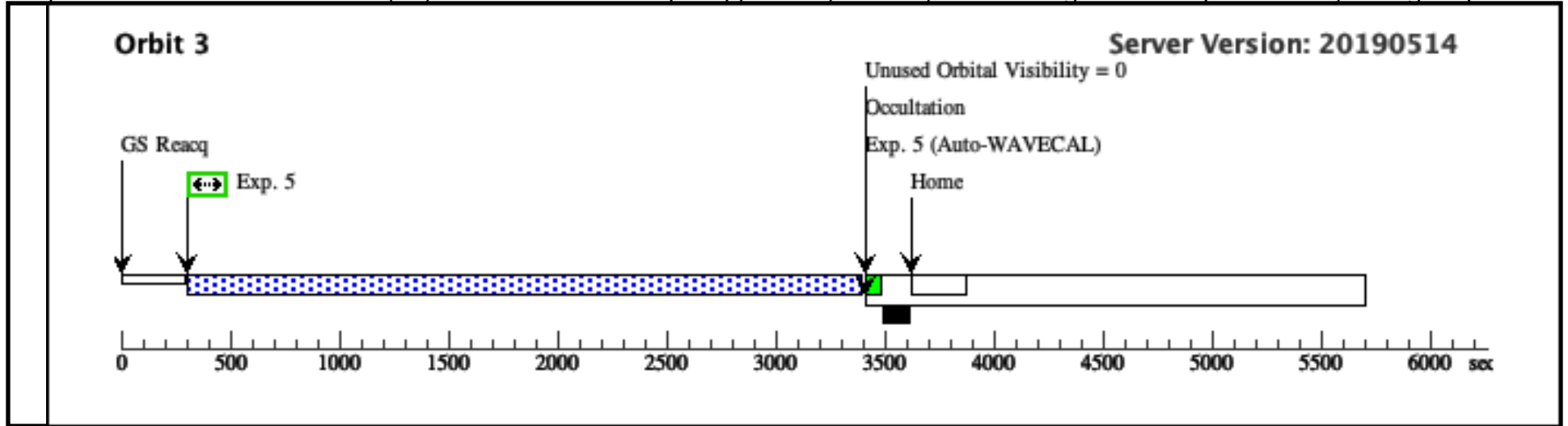




Proposal 15657 - i2063-visit1of9 (09) - HD 222925: A unique opportunity to study the full range of nuclei produced by a single r-proces...

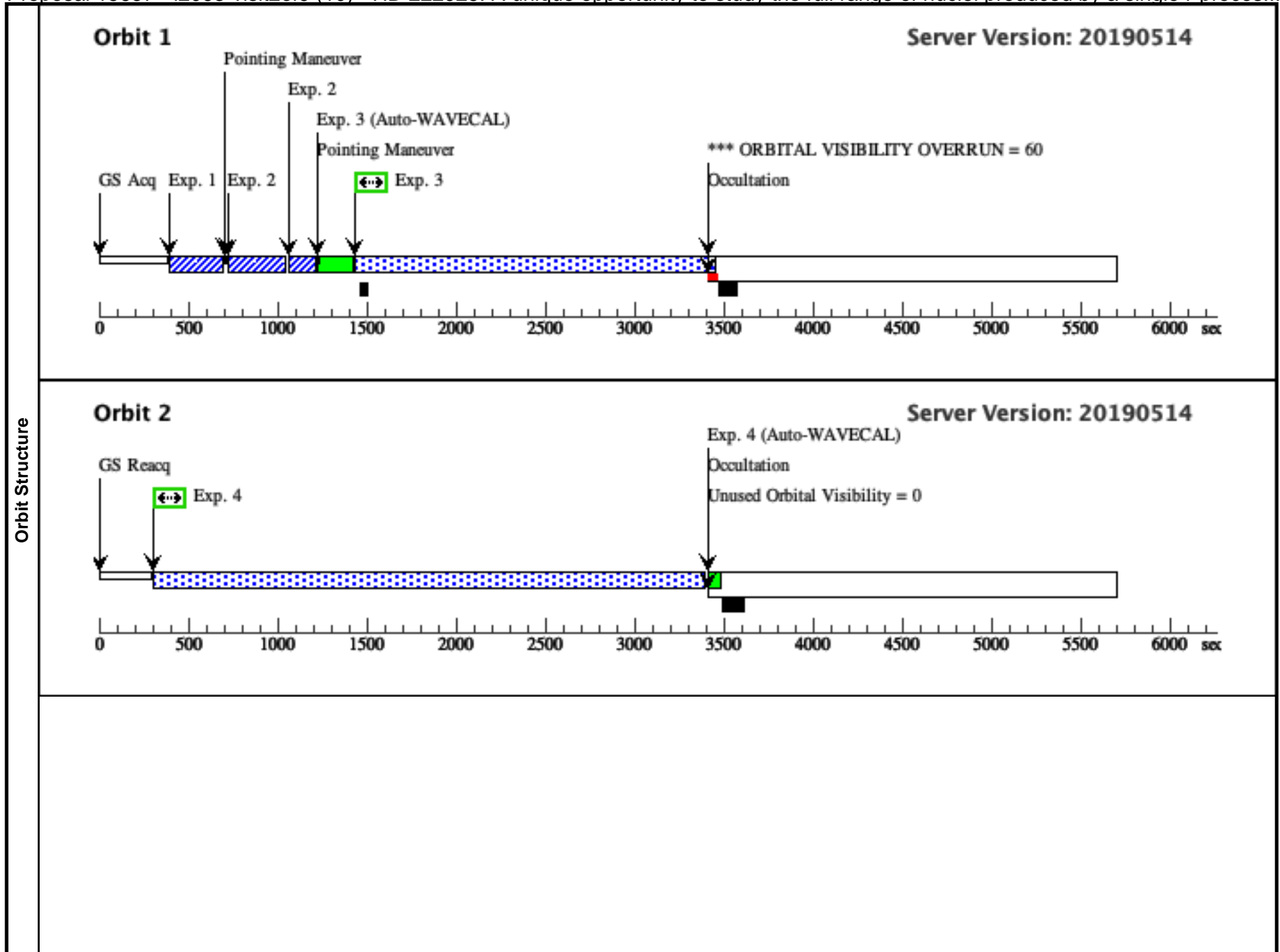
Visit	<b>Proposal 15657, i2063-visit1of9 (09), scheduled</b> <span style="float: right;">Thu Jan 09 18:00:47 GMT 2020</span> <b>Diagnostic Status: Warning</b> Scientific Instruments: STIS/NUV-MAMA, STIS/CCD Special Requirements: (none)																																																																					
Diagnostics	(i2063-visit1of9 (09)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN																																																																					
Fixed Targets	<table border="1" style="width: 100%; border-collapse: collapse;"> <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>(1)</td> <td>HD-222925</td> <td>RA: 23 45 17.9472 (356.3247800d) Dec: -61 54 44.37 (-61.91233d) Equinox: J2000</td> <td>Proper Motion RA: 154.854 mas/yr Proper Motion Dec: -99.171 mas/yr Parallax: 0.0022332" Epoch of Position: 2015.5 Radial Velocity: -38.9 km/sec</td> <td>V=9.02+/-0.02</td> <td>Reference Frame: ICRS</td> </tr> </tbody> </table> <p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i></p> <p><i>Star ID in Gaia DR2 catalog: Gaia DR2 6487799171512458624</i>  <i>Category=STAR</i>  <i>Description=[G III-I, HORIZONTAL BRANCH STAR, POPULATION II]</i>  <i>Extended=NO</i></p>										#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous	(1)	HD-222925	RA: 23 45 17.9472 (356.3247800d) Dec: -61 54 44.37 (-61.91233d) Equinox: J2000	Proper Motion RA: 154.854 mas/yr Proper Motion Dec: -99.171 mas/yr Parallax: 0.0022332" Epoch of Position: 2015.5 Radial Velocity: -38.9 km/sec	V=9.02+/-0.02	Reference Frame: ICRS																																																
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1	(STIS.ta.129 7462)	(1) HD-222925	STIS/CCD, ACQ, F25ND3	MIRROR				3 Secs (3 Secs) [==>]	[1]																																																													
2	(STIS.ta.129 7466)	(1) HD-222925	STIS/CCD, ACQ/PEAK, 0.2X0.05ND	MIRROR				1.5 Secs (1.5 Secs) [==>]	[1]																																																													
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4	(STIS.sp.11 82944)	(1) HD-222925	STIS/NUV-MAMA, ACCUM, 0.2X0.09	E230H 2063 A				3300 Secs (3079 Secs) [==>3079.0 Secs ]	[2]																																																													
5	(STIS.sp.11 82944)	(1) HD-222925	STIS/NUV-MAMA, ACCUM, 0.2X0.09	E230H 2063 A				3300 Secs (3079 Secs) [==>3079.0 Secs ]	[3]																																																													

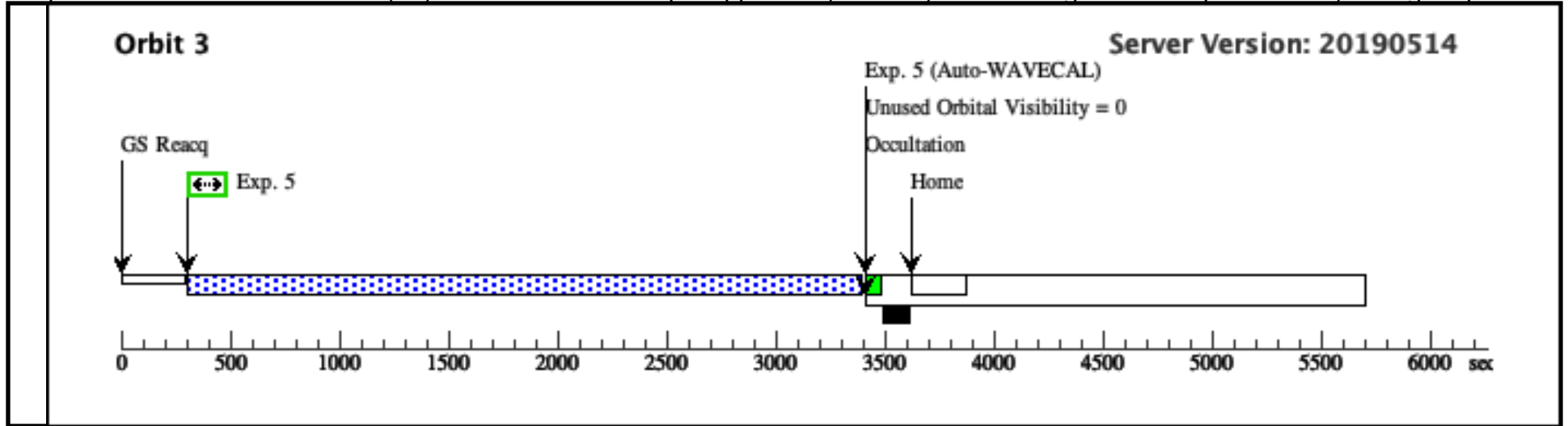




Proposal 15657 - i2063-visit2of9 (10) - HD 222925: A unique opportunity to study the full range of nuclei produced by a single r-proces...

<b>Visit</b>	Proposal 15657, i2063-visit2of9 (10), completed <span style="float: right;">Thu Jan 09 18:00:47 GMT 2020</span> <b>Diagnostic Status: Warning</b> Scientific Instruments: STIS/NUV-MAMA, STIS/CCD Special Requirements: (none)									
	(i2063-visit2of9 (10)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN									
<b>Fixed Targets</b>	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(1)	HD-222925	RA: 23 45 17.9472 (356.3247800d) Dec: -61 54 44.37 (-61.91233d) Equinox: J2000	Proper Motion RA: 154.854 mas/yr Proper Motion Dec: -99.171 mas/yr Parallax: 0.0022332" Epoch of Position: 2015.5 Radial Velocity: -38.9 km/sec	V=9.02+/-0.02	Reference Frame: ICRS				
<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> Star ID in Gaia DR2 catalog: Gaia DR2 6487799171512458624 Category=STAR Description=[G III-I, HORIZONTAL BRANCH STAR, POPULATION II] Extended=NO										
<b>Exposures</b>	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(STIS.ta.129 7462)	(1) HD-222925	STIS/CCD, ACQ, F25ND3	MIRROR				3 Secs (3 Secs)	
									[==>]	[1]
	2	(STIS.ta.129 7466)	(1) HD-222925	STIS/CCD, ACQ/PEAK, 0.2X0.05ND	MIRROR				1.5 Secs (1.5 Secs)	
									[==>]	[1]
	3	(STIS.sp.11 82944)	(1) HD-222925	STIS/NUV-MAMA, ACCUM, 0.2X0.09	E230H 2063 A				2300 Secs (2004 Secs)	
								[==>2004.0 Secs ]	[1]	
4	(STIS.sp.11 82944)	(1) HD-222925	STIS/NUV-MAMA, ACCUM, 0.2X0.09	E230H 2063 A				3300 Secs (3079 Secs)		
								[==>3079.0 Secs ]	[2]	
5	(STIS.sp.11 82944)	(1) HD-222925	STIS/NUV-MAMA, ACCUM, 0.2X0.09	E230H 2063 A				3300 Secs (3079 Secs)		
								[==>3079.0 Secs ]	[3]	

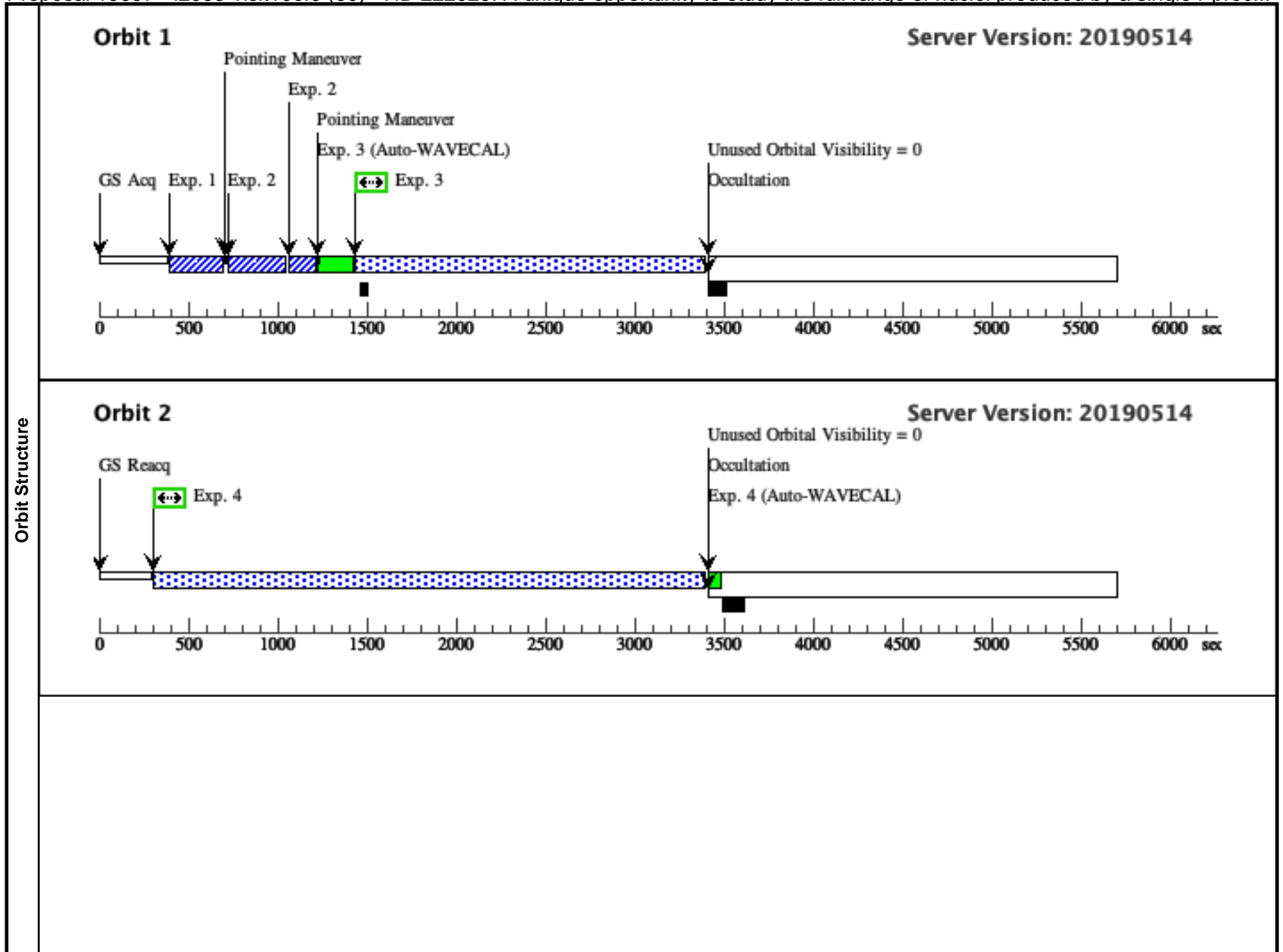


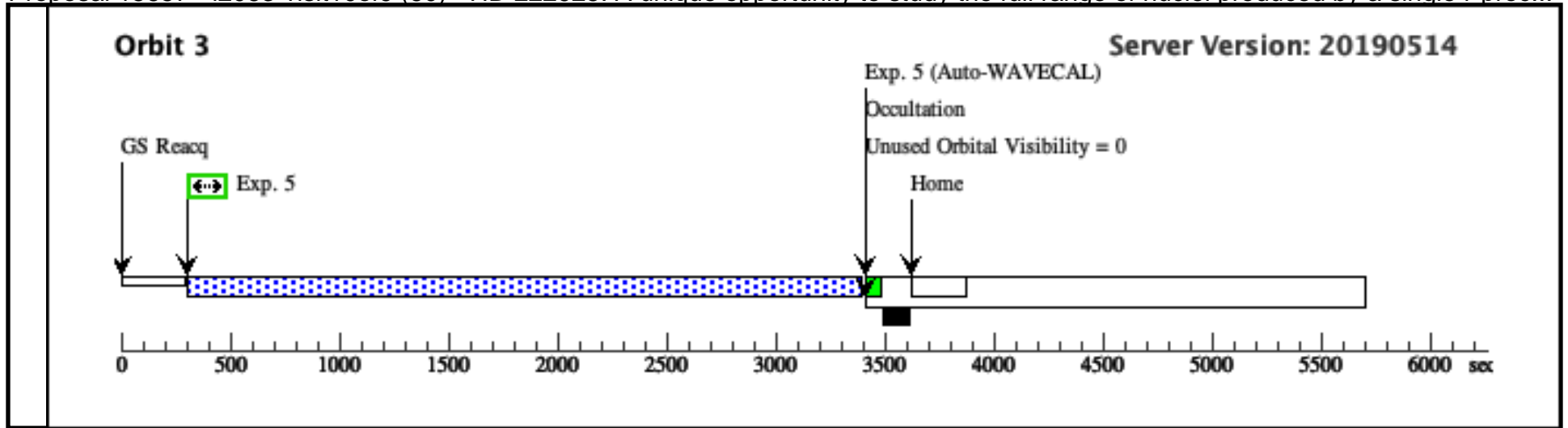


Proposal 15657 - i2063-visit10of9 (60) - HD 222925: A unique opportunity to study the full range of nuclei produced by a single r-proc...

Thu Jan 09 18:00:47 GMT 2020

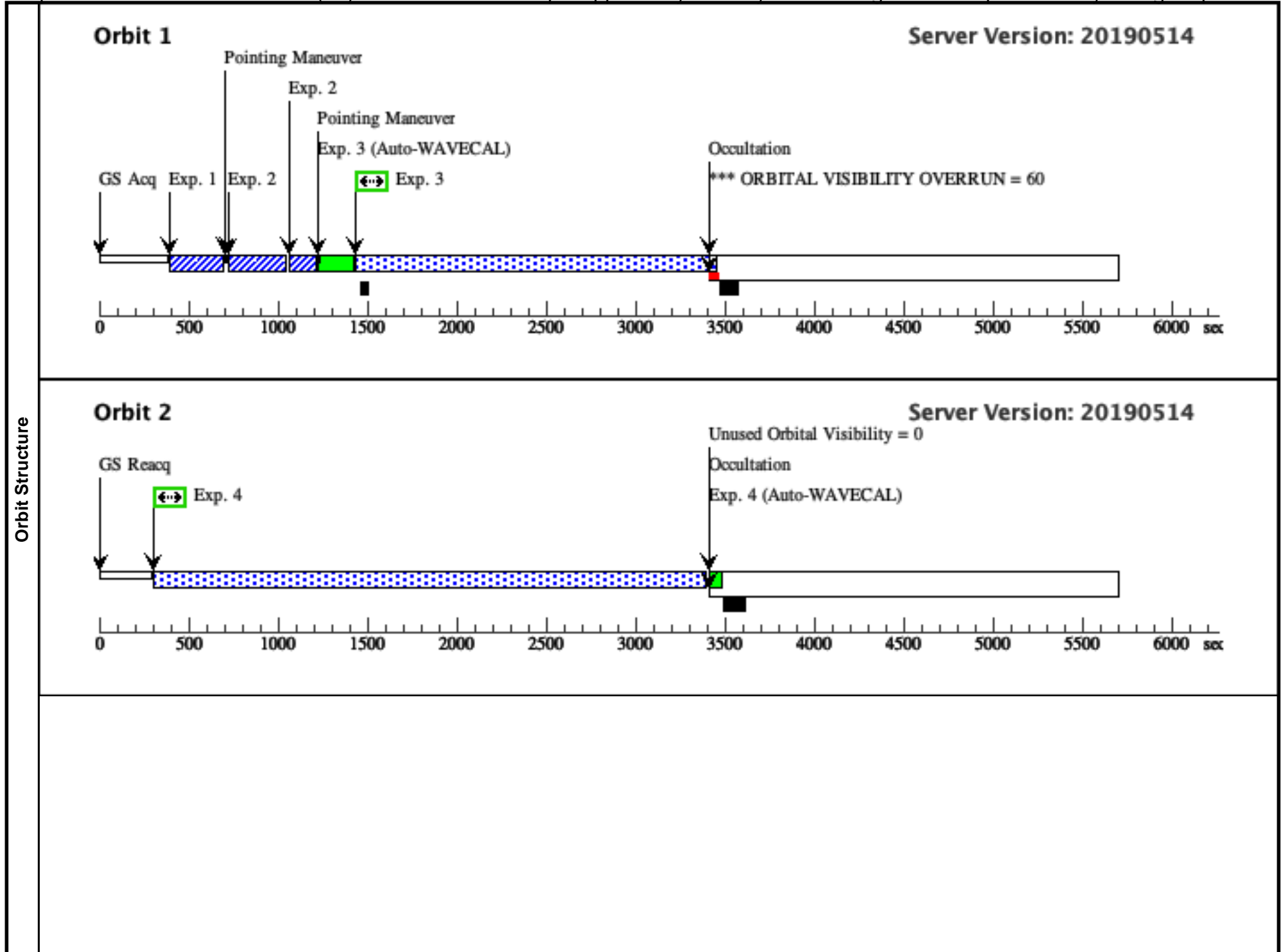
Visit	<b>Proposal 15657, i2063-visit10of9 (60)</b> <b>Diagnostic Status: No Diagnostics</b> Scientific Instruments: STIS/NUV-MAMA, STIS/CCD Special Requirements: (none) <i>Comments: This visit replaces three orbits lost in visits 10 and 12. See HOPR 91696.</i>									
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous			
		(1)	HD-222925	RA: 23 45 17.9472 (356.3247800d) Dec: -61 54 44.37 (-61.91233d) Equinox: J2000	Proper Motion RA: 154.854 mas/yr Proper Motion Dec: -99.171 mas/yr Parallax: 0.0022332" Epoch of Position: 2015.5 Radial Velocity: -38.9 km/sec	V=9.02+/-0.02	Reference Frame: ICRS			
	<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> Star ID in Gaia DR2 catalog: Gaia DR2 6487799171512458624 Category=STAR Description=[G III-I, HORIZONTAL BRANCH STAR, POPULATION II] Extended=NO									
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(STIS.ta.129 7462)	(1) HD-222925	STIS/CCD, ACQ, F25ND3	MIRROR				3 Secs (3 Secs)	
									[==>]	[1]
	2	(STIS.ta.129 7466)	(1) HD-222925	STIS/CCD, ACQ/PEAK, 0.2X0.05ND	MIRROR				1.5 Secs (1.5 Secs)	
									[==>]	[1]
	3	(STIS.sp.11 82944)	(1) HD-222925	STIS/NUV-MAMA, ACCUM, 0.2X0.09	E230H 2063 A				2300 Secs (1944 Secs)	
								[==>1944.0 Secs ]	[1]	
4	(STIS.sp.11 82944)	(1) HD-222925	STIS/NUV-MAMA, ACCUM, 0.2X0.09	E230H 2063 A				3300 Secs (3079 Secs)		
								[==>3079.0 Secs ]	[2]	
5	(STIS.sp.11 82944)	(1) HD-222925	STIS/NUV-MAMA, ACCUM, 0.2X0.09	E230H 2063 A				3300 Secs (3079 Secs)		
								[==>3079.0 Secs ]	[3]	

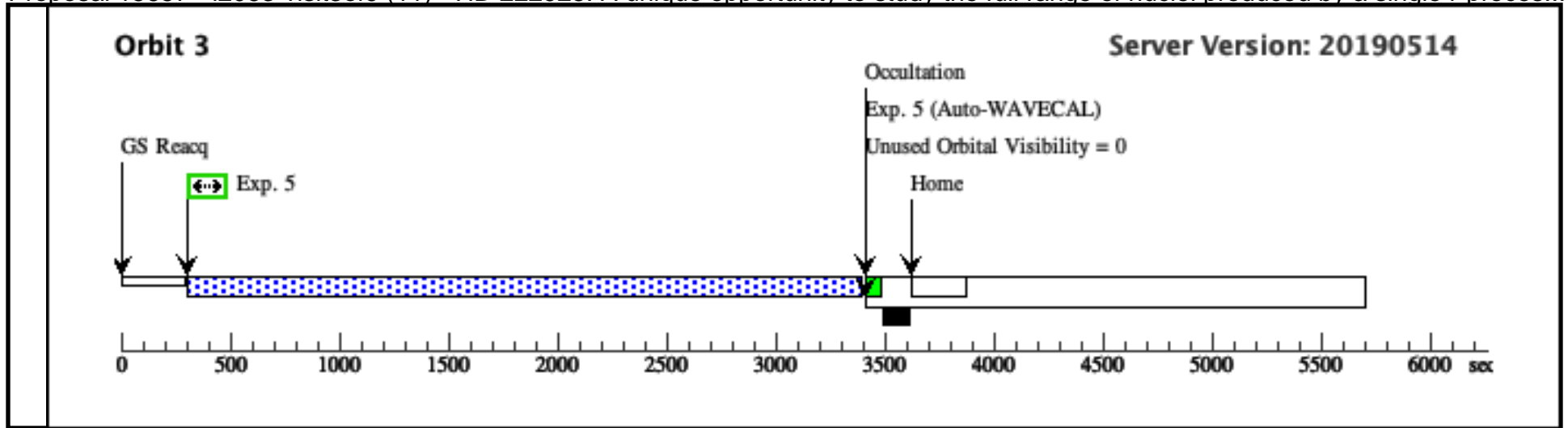




Proposal 15657 - i2063-visit3of9 (11) - HD 222925: A unique opportunity to study the full range of nuclei produced by a single r-proces...

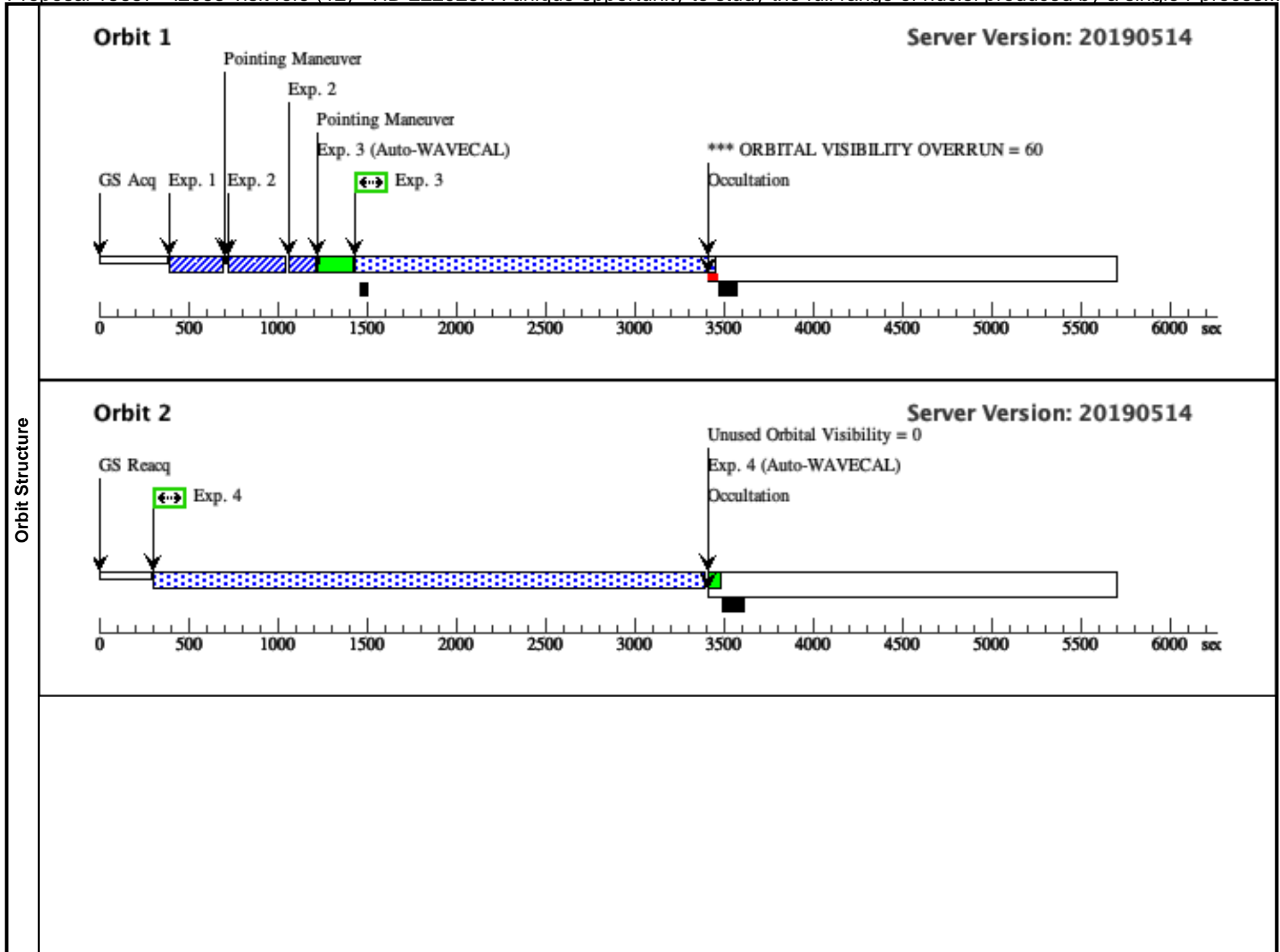
Visit	<b>Proposal 15657, i2063-visit3of9 (11), scheduled</b> <span style="float: right;">Thu Jan 09 18:00:47 GMT 2020</span> <b>Diagnostic Status: Warning</b> Scientific Instruments: STIS/NUV-MAMA, STIS/CCD Special Requirements: (none)																																																																					
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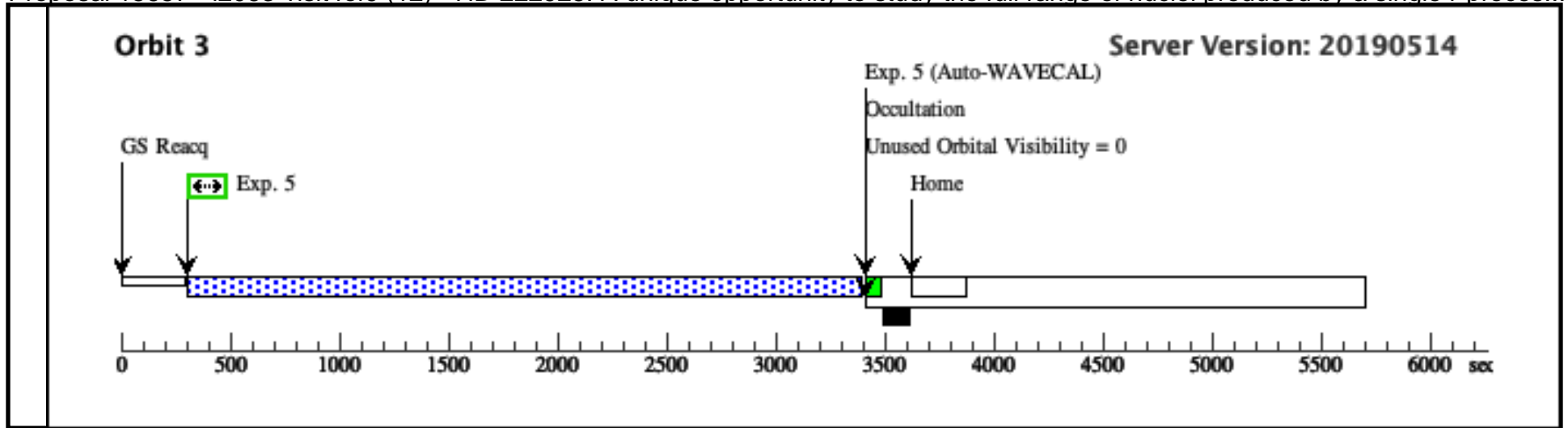




Proposal 15657 - i2063-visit4of9 (12) - HD 222925: A unique opportunity to study the full range of nuclei produced by a single r-proces...

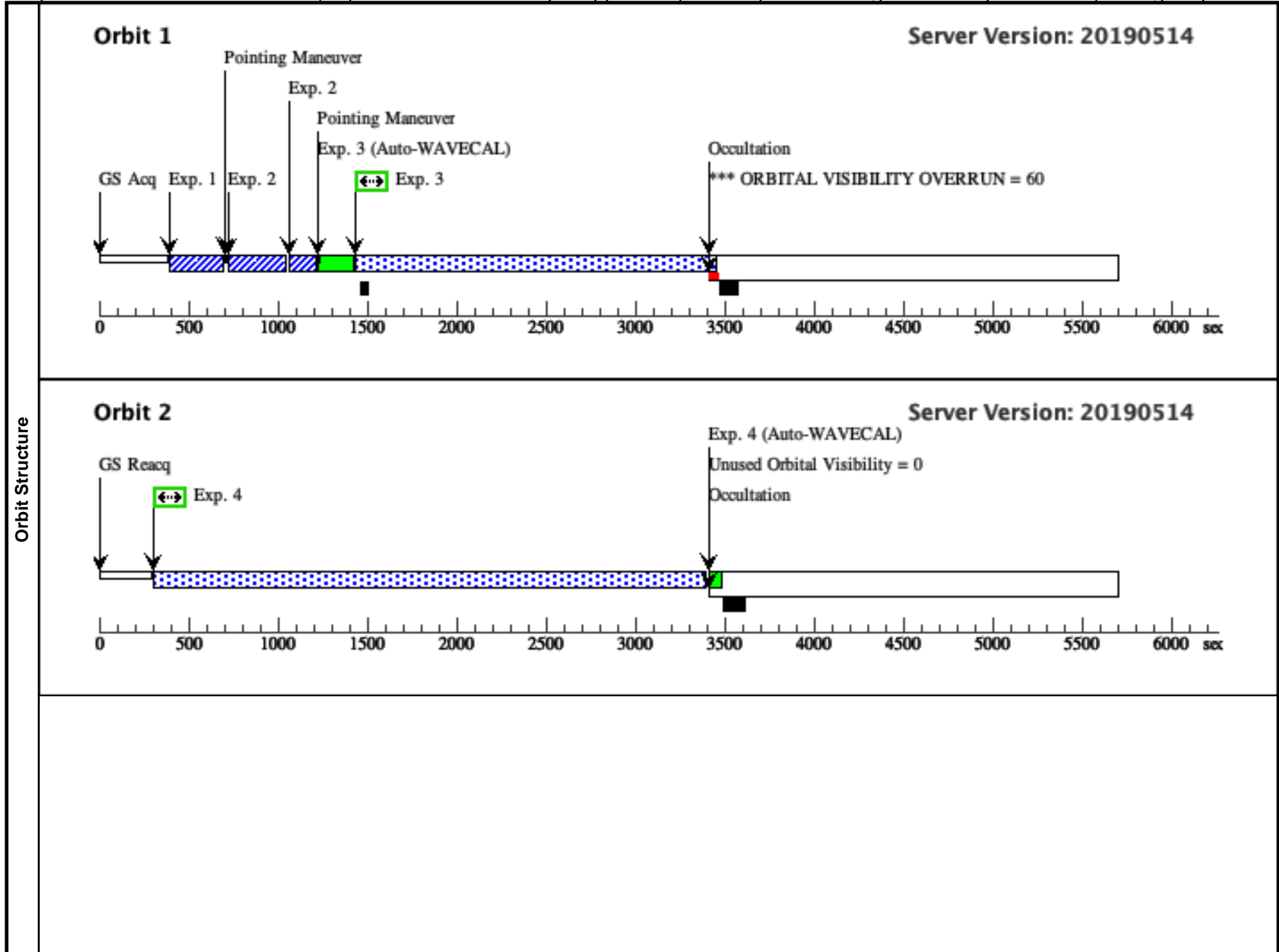
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	1	(STIS.ta.129 7462)	(1) HD-222925	STIS/CCD, ACQ, F25ND3	MIRROR				3 Secs (3 Secs)	
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	2	(STIS.ta.129 7466)	(1) HD-222925	STIS/CCD, ACQ/PEAK, 0.2X0.05ND	MIRROR				1.5 Secs (1.5 Secs)	
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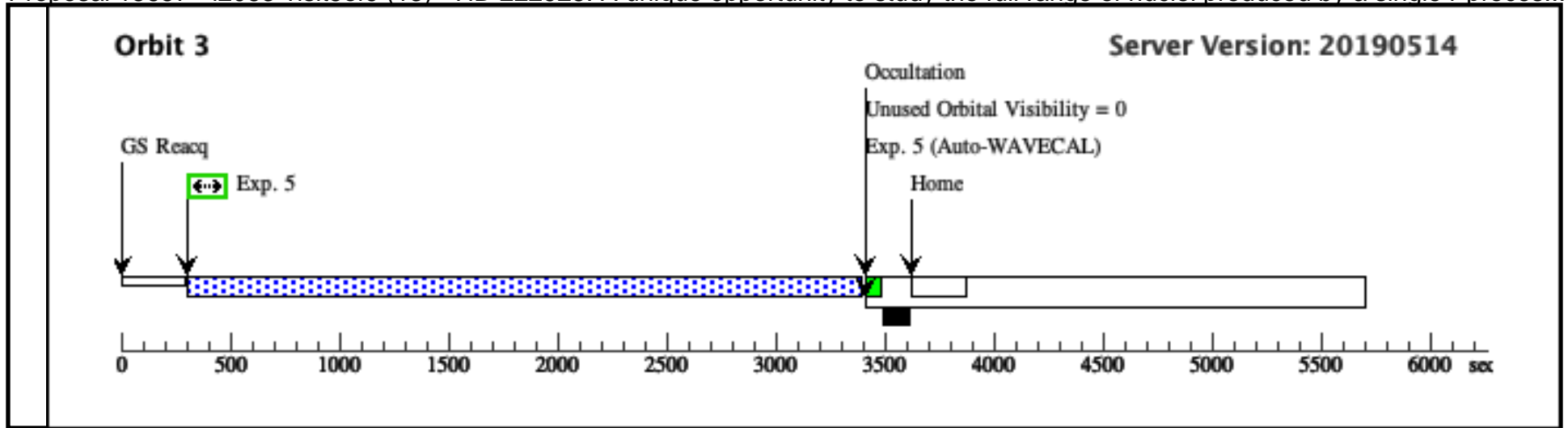




Proposal 15657 - i2063-visit5of9 (13) - HD 222925: A unique opportunity to study the full range of nuclei produced by a single r-proces...

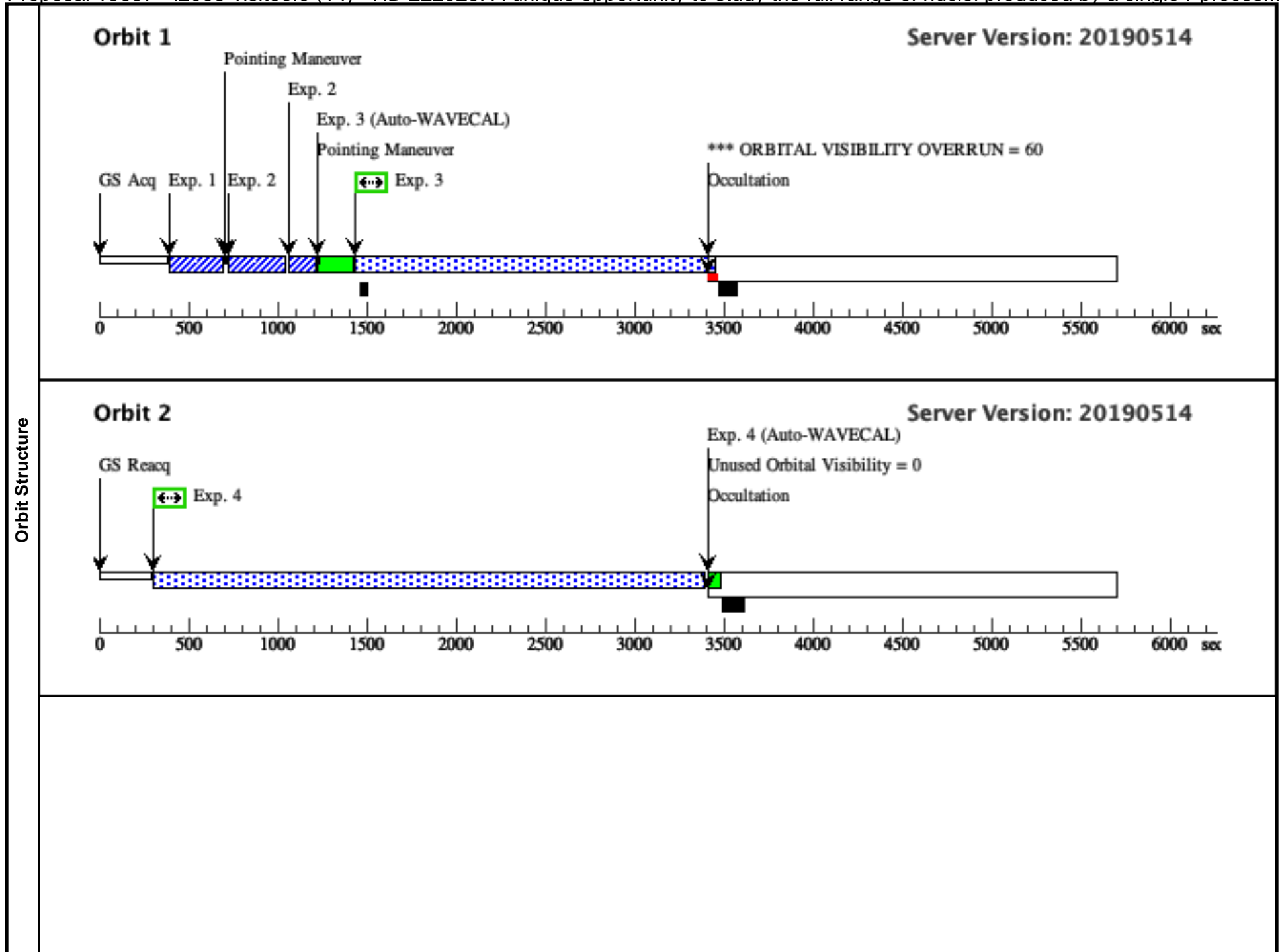
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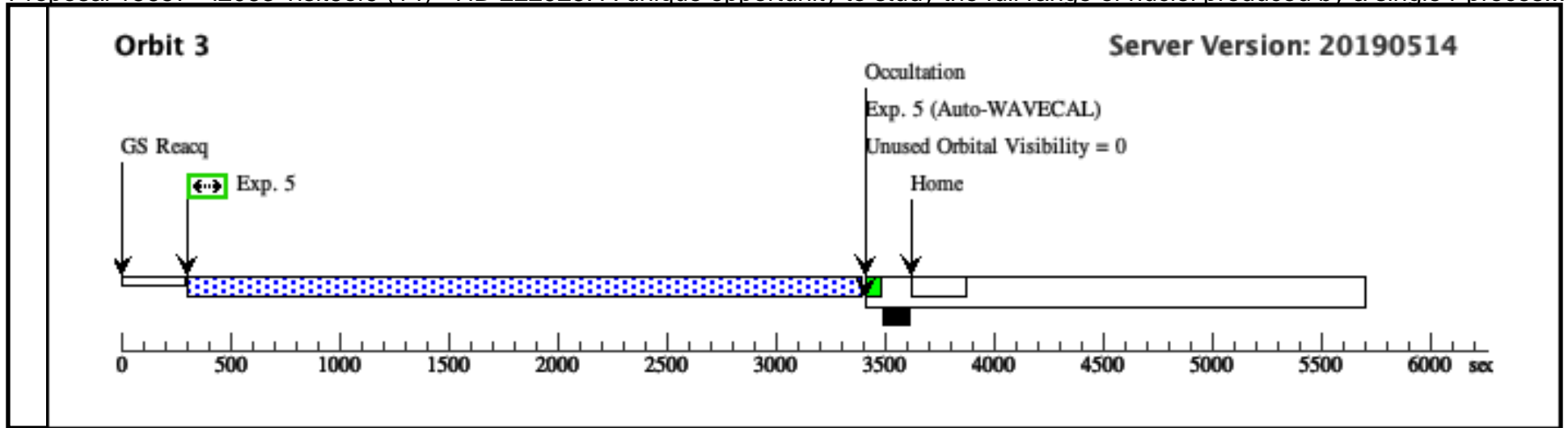




Proposal 15657 - i2063-visit6of9 (14) - HD 222925: A unique opportunity to study the full range of nuclei produced by a single r-proces...

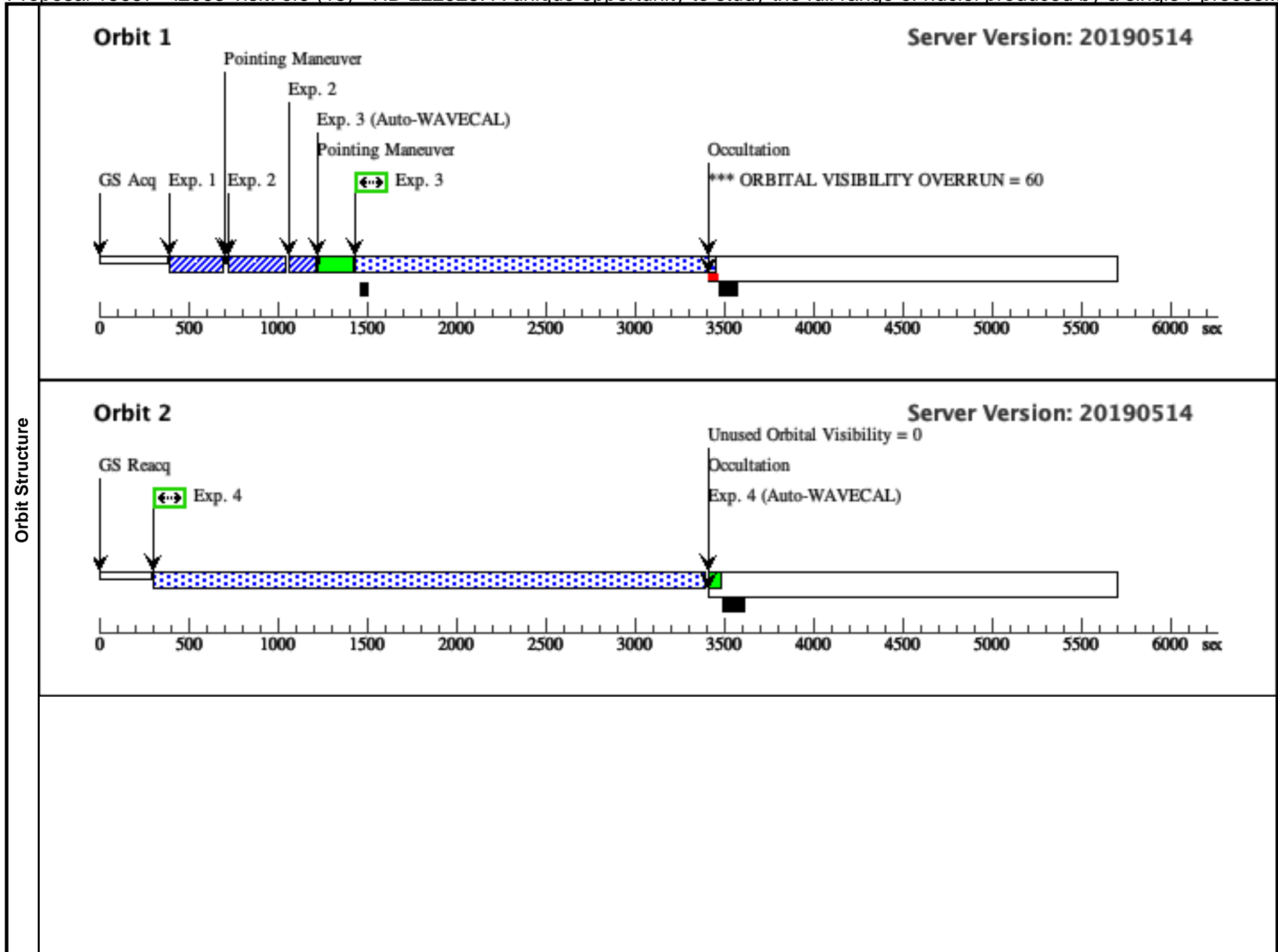
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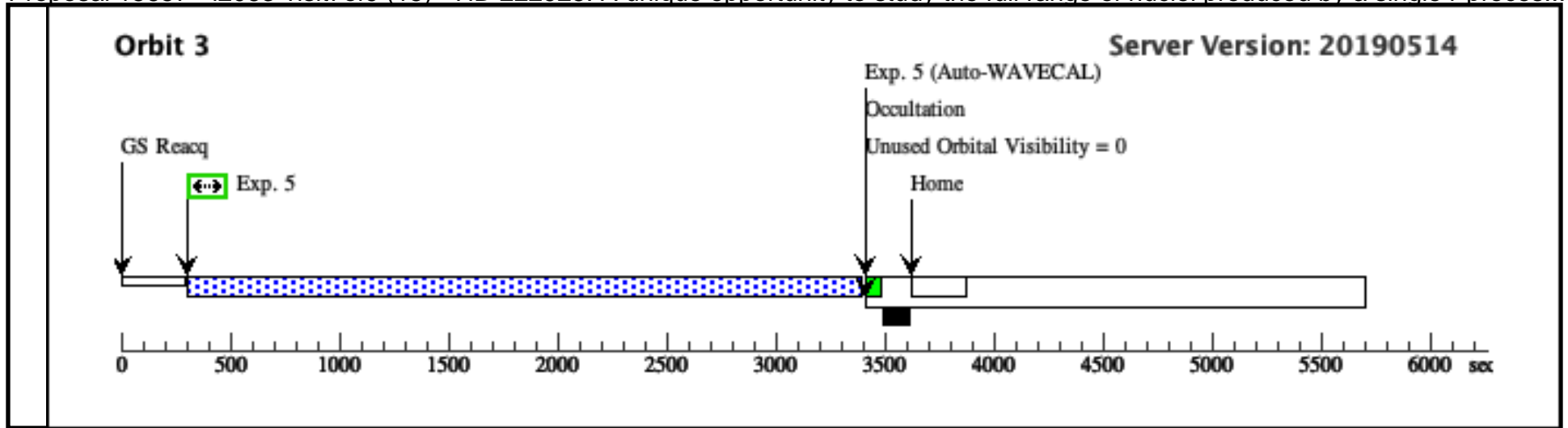




Proposal 15657 - i2063-visit7of9 (15) - HD 222925: A unique opportunity to study the full range of nuclei produced by a single r-proces...

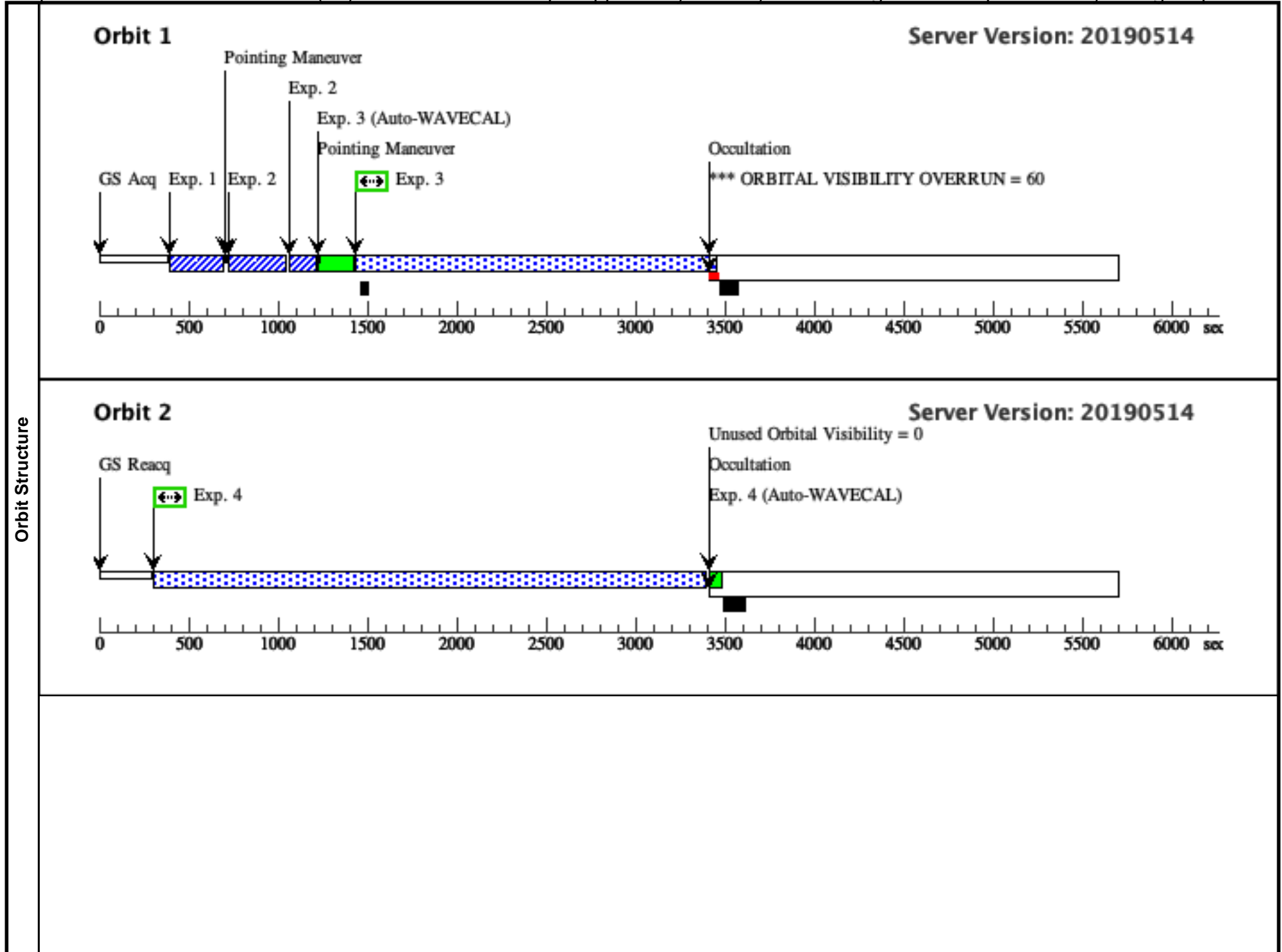
<b>Visit</b>	Proposal 15657, i2063-visit7of9 (15), completed <span style="float: right;">Thu Jan 09 18:00:48 GMT 2020</span> <b>Diagnostic Status: Warning</b> Scientific Instruments: STIS/NUV-MAMA, STIS/CCD Special Requirements: (none)									
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									[==>]	[1]
	3	(STIS.sp.11 82944)	(1) HD-222925	STIS/NUV-MAMA, ACCUM, 0.2X0.09	E230H 2063 A				2300 Secs (2004 Secs)	
								[==>2004.0 Secs ]	[1]	
4	(STIS.sp.11 82944)	(1) HD-222925	STIS/NUV-MAMA, ACCUM, 0.2X0.09	E230H 2063 A				3300 Secs (3079 Secs)		
								[==>3079.0 Secs ]	[2]	
5	(STIS.sp.11 82944)	(1) HD-222925	STIS/NUV-MAMA, ACCUM, 0.2X0.09	E230H 2063 A				3300 Secs (3079 Secs)		
								[==>3079.0 Secs ]	[3]	

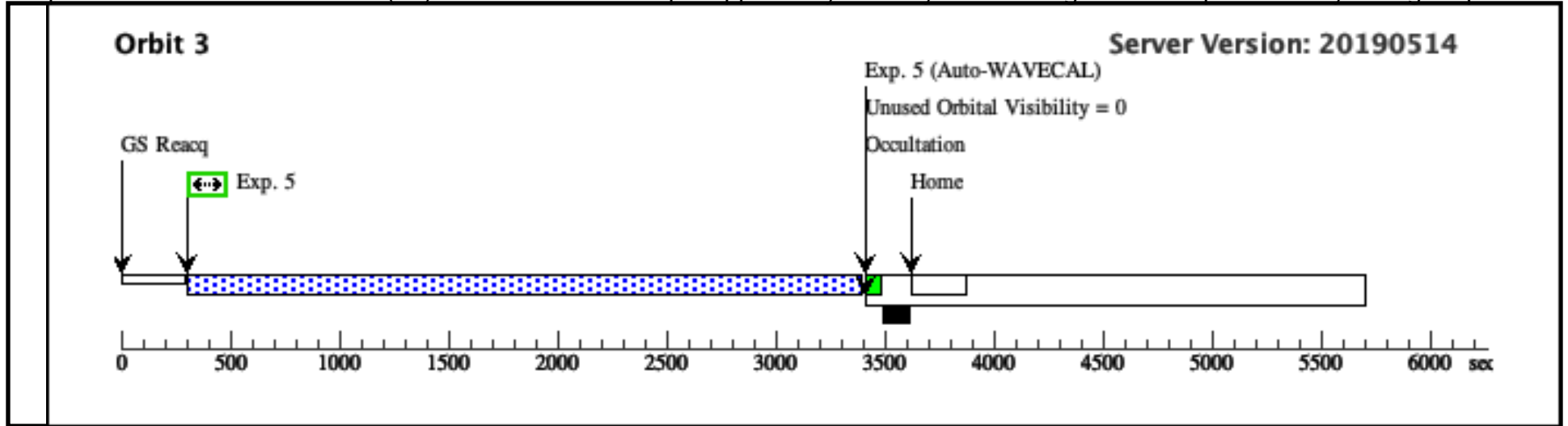




Proposal 15657 - i2063-visit8of9 (16) - HD 222925: A unique opportunity to study the full range of nuclei produced by a single r-proces...

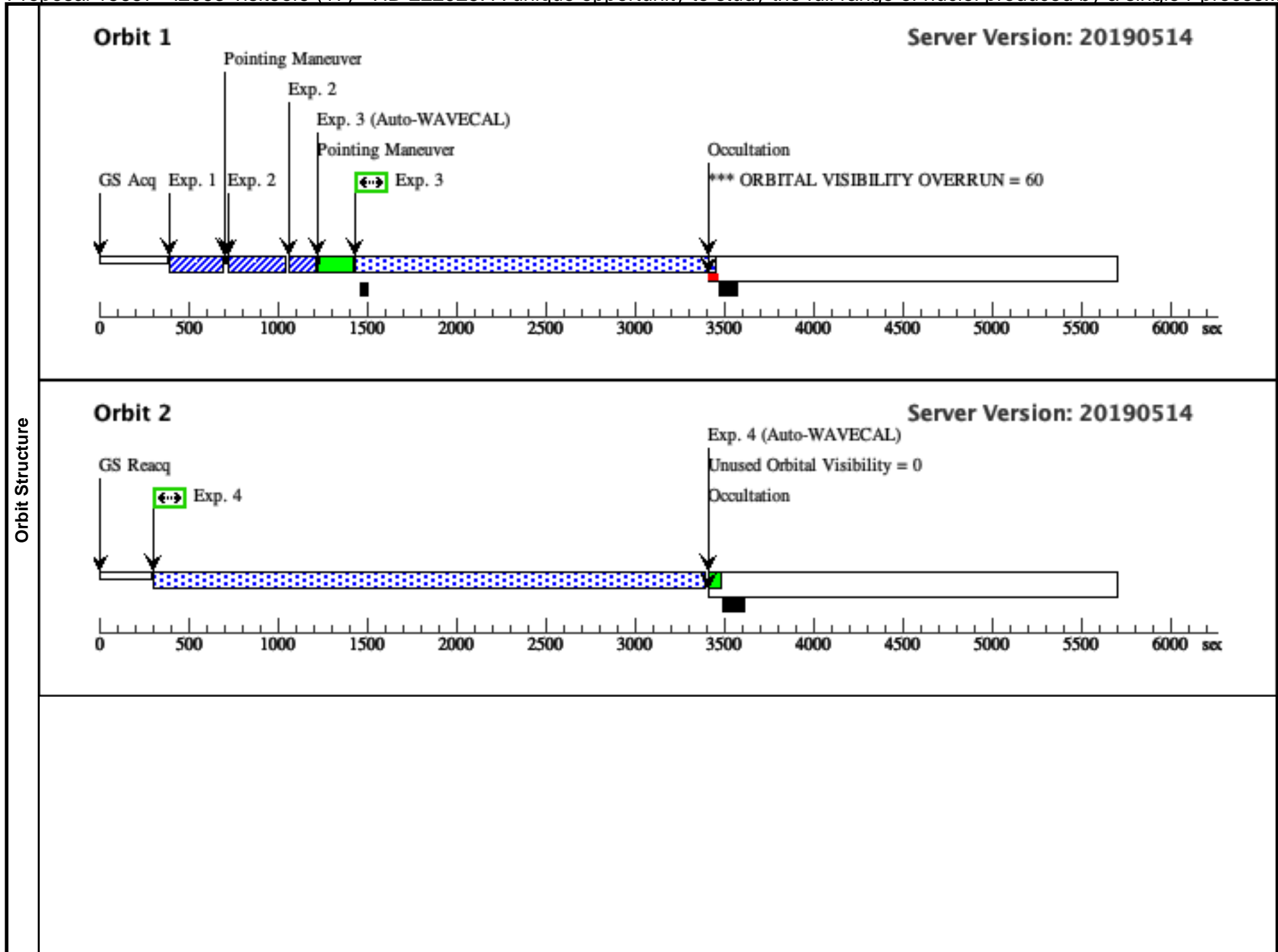
Visit	<b>Proposal 15657, i2063-visit8of9 (16), scheduling</b> <span style="float: right;">Thu Jan 09 18:00:48 GMT 2020</span> <b>Diagnostic Status: Warning</b> Scientific Instruments: STIS/NUV-MAMA, STIS/CCD Special Requirements: (none)																																																																					
Diagnostics	(i2063-visit8of9 (16)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN																																																																					
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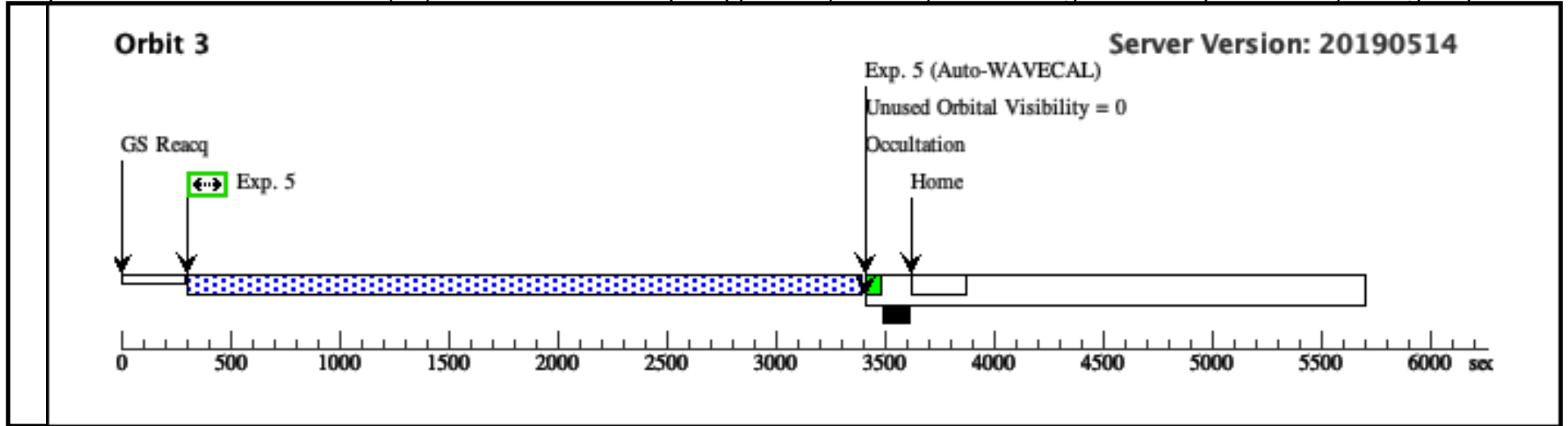




Proposal 15657 - i2063-visit9of9 (17) - HD 222925: A unique opportunity to study the full range of nuclei produced by a single r-proces...

Visit	Proposal 15657, i2063-visit9of9 (17), scheduling <span style="float: right;">Thu Jan 09 18:00:48 GMT 2020</span> <b>Diagnostic Status: Warning</b> Scientific Instruments: STIS/NUV-MAMA, STIS/CCD Special Requirements: (none)																																																																					
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Proposal 15657 - i2313-visit4of3 (58) - HD 222925: A unique opportunity to study the full range of nuclei produced by a single r-proces...

Thu Jan 09 18:00:48 GMT 2020

Visit	<b>Proposal 15657, i2313-visit4of3 (58), scheduled</b> <b>Diagnostic Status: No Diagnostics</b> Scientific Instruments: STIS/NUV-MAMA, STIS/CCD Special Requirements: (none) <i>Comments: This visit replaces the two exposures that were lost as part of visit 02.</i>																					
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3	(STIS.sp.11 78843)	(1) HD-222925	STIS/NUV-MAMA, ACCUM, 0.2X0.09	E230H 2313 A				2300 Secs (1944 Secs)														
								[==>1944.0 Secs ]	[1]													
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