



17166 - Fission of Transuranic Nuclei: A Potential Observational Signature in Metal-Poor Stars

Cycle: 30, Proposal Category: GO

(UV Initiative)

(Availability Mode: SUPPORTED)

INVESTIGATORS

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VISITS

Proposal 17166 (STScI Edit Number: 2, Created: Friday, June 7, 2024 at 4:01:08 PM Eastern Standard Time) - Overview

Visit	Targets used in Visit	Configurations used in Visit	Orbits Used	Last Orbit Planner Run	OP Current with Visit?
01	(1) CD-52-112	STIS/CCD STIS/NUV-MAMA	3	07-Jun-2024 17:00:48.0	yes
02	(1) CD-52-112	STIS/CCD STIS/NUV-MAMA	3	07-Jun-2024 17:00:49.0	yes
03	(1) CD-52-112	STIS/CCD STIS/NUV-MAMA	3	07-Jun-2024 17:00:50.0	yes
04	(1) CD-52-112	STIS/CCD STIS/NUV-MAMA	3	07-Jun-2024 17:00:51.0	yes
05	(1) CD-52-112	STIS/CCD STIS/NUV-MAMA	3	07-Jun-2024 17:00:52.0	yes
06	(1) CD-52-112	STIS/CCD STIS/NUV-MAMA	3	07-Jun-2024 17:00:53.0	yes
07	(1) CD-52-112	STIS/CCD STIS/NUV-MAMA	3	07-Jun-2024 17:00:54.0	yes
08	(1) CD-52-112	STIS/CCD STIS/NUV-MAMA	3	07-Jun-2024 17:00:55.0	yes
09	(1) CD-52-112	STIS/CCD STIS/NUV-MAMA	3	07-Jun-2024 17:00:56.0	yes
10	(1) CD-52-112	STIS/CCD STIS/NUV-MAMA	3	07-Jun-2024 17:00:57.0	yes
11	(2) CD-23-12296	STIS/CCD STIS/NUV-MAMA	3	07-Jun-2024 17:00:57.0	yes
61	(2) CD-23-12296	STIS/CCD STIS/NUV-MAMA	2	07-Jun-2024 17:00:58.0	yes
12	(2) CD-23-12296	STIS/CCD STIS/NUV-MAMA	3	07-Jun-2024 17:00:59.0	yes
13	(2) CD-23-12296	STIS/CCD STIS/NUV-MAMA	3	07-Jun-2024 17:01:00.0	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>
14	(2) CD-23-12296	STIS/CCD STIS/NUV-MAMA	3	07-Jun-2024 17:01:01.0	yes
15	(2) CD-23-12296	STIS/CCD STIS/NUV-MAMA	3	07-Jun-2024 17:01:01.0	yes
16	(2) CD-23-12296	STIS/CCD STIS/NUV-MAMA	3	07-Jun-2024 17:01:02.0	yes
66	(2) CD-23-12296	STIS/CCD STIS/NUV-MAMA	2	07-Jun-2024 17:01:03.0	yes
17	(2) CD-23-12296	STIS/CCD STIS/NUV-MAMA	3	07-Jun-2024 17:01:04.0	yes
67	(2) CD-23-12296	STIS/CCD STIS/NUV-MAMA	2	07-Jun-2024 17:01:05.0	yes
18	(2) CD-23-12296	STIS/CCD STIS/NUV-MAMA	3	07-Jun-2024 17:01:06.0	yes
19	(2) CD-23-12296	STIS/CCD STIS/NUV-MAMA	3	07-Jun-2024 17:01:07.0	yes
20	(2) CD-23-12296	STIS/CCD STIS/NUV-MAMA	3	07-Jun-2024 17:01:07.0	yes

66 Total Orbits Used

ABSTRACT

This proposal aims to detect fission fragments among cadmium (Cd, element 48) abundances in stars. Transuranic elements are produced during rapid (r) neutron-capture nucleosynthesis, and models predict that many of these nuclei will fission into lighter ones listed near the middle of the periodic table. Fission models rely heavily on uncertain theoretical extrapolations from stable nuclei, which cannot be verified by current experimental techniques. Astronomical observations, on the other hand, provide a novel opportunity to constrain these models. New STIS E230H spectra ($R = 114,000$, $S/N = 15$ to 25 , covering $2024\text{--}2301\text{ \AA}$) of two well-studied UV-bright metal-poor r-process-enhanced stars will be collected. Abundances of Cd and tellurium (Te, element 52, which is not expected to show fission signatures and will be used as a control) will be derived to a precision of approximately $0.10\text{--}0.15$ dex. The abundances will be compared with Cd and Te signatures previously derived for stars without high r-

process enhancement, resulting in a 50% improvement in the mean abundance uncertainties. These measurements will demonstrate whether or not there are statistically significant signatures of fission fragments among the Cd and Te abundances. This new, interdisciplinary approach linking observational astronomy and theoretical nuclear physics will provide the first meaningful constraints on the fission fragment distribution for nuclei with atomic masses from $111 \leq A \leq 116$ and $125 \leq A \leq 130$. These spectra will also enable the detection of more than 25 other elements in each star and provide high-quality archival data for future studies of other stellar phenomena.

OBSERVING DESCRIPTION

The goal of this observing program is to collect E230H R=114,000 spectra of two stars, CD-52 112 (2MASS J00405260-5122491) and CD-23 12296 (2MASS J15271353-2336177), with complete spectral coverage from 2024-2301 Angstroms. Both are non-variable main sequence, metal-poor Pop II stars with $[Fe/H] \sim -2$. Because the targets are non-variable, spectra can be collected at any time with no constraints. Observations have been grouped into 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. Visits 01-10 are identical. Visits 11-20 are also identical. These two sets of visits differ only in the target star and slight variations in the "packed" exposure times.

The ICRS coordinates and proper motions are taken from Gaia DR2. Parallaxes are taken from Gaia EDR3. I have checked the target confirmation charts, and the crosshairs line up to within 1 DSS pixel of the stellar diffraction spikes on the images. This precision has been sufficient to correctly observe similar targets with the 0.2x0.09 slit in previous STIS observing runs.

The ETC target acquisition gave a 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.

^^^ I encountered this warning message previously in another cycle with a similar aperture. A 2018 email from Dan Welty, via Tricia Royle, 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 A, but the F25ND3 is defined to below 1250 A. But since both the filter/CCD transmission and the input spectrum are both rapidly declining below 1300 A, it should not be a problem for the acq." Based on this information, I have disregarded this warning message.

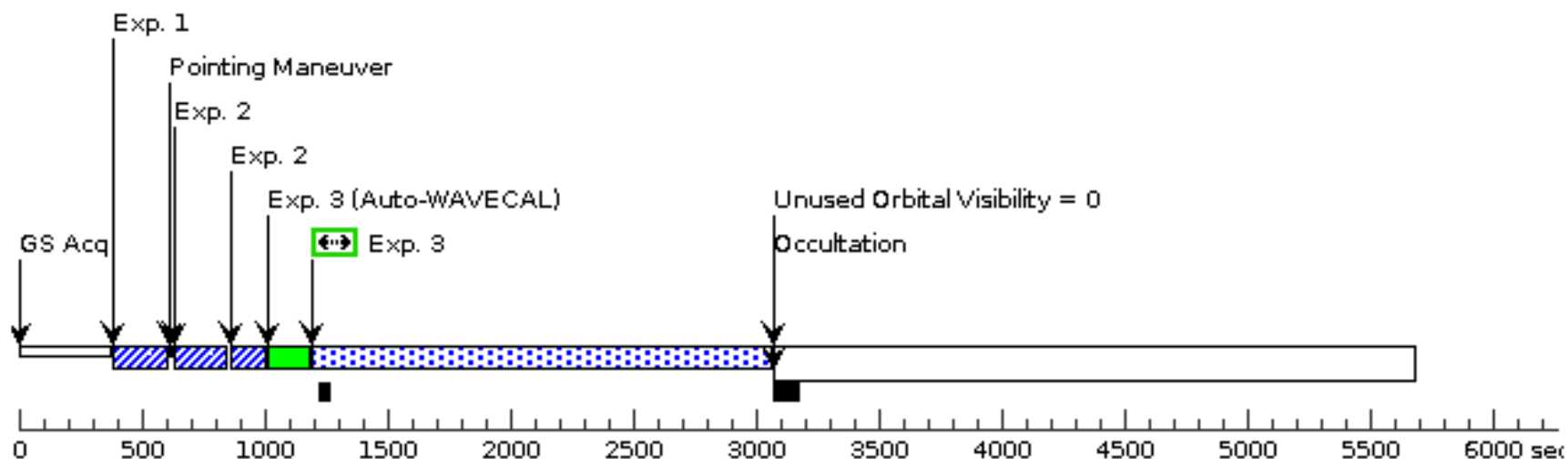
Operations in reduced gyro mode (RGM) should have minimal impact on this science program, except perhaps for a reduction in available observing windows.

Proposal 17166 - cd-52-visit01 (01) - Fission of Transuranic Nuclei: A Potential Observational Signature in Metal-Poor Stars

Visit	Proposal 17166, cd-52-visit01 (01), implementation										Fri Jun 07 21:01:08 GMT 2024
	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)	CD-52-112	RA: 00 40 52.9371 (10.2205713d) Dec: -51 22 52.05 (-51.38112d) Equinox: J2000	Proper Motion RA: 211.594 mas/yr Proper Motion Dec: -197.427 mas/yr Parallax: 0.0067194" Epoch of Position: 2015.5			V=11.225 GALEX NUV = 13.89; E(B-V) = 0.011	Reference Frame: ICRS			
	Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.										
	IUR updated coordinates to Gaia DR2 (ICRS, epoch=2015.5). Gaia DR2 4925248047268557056										
	Category=STAR Description=[G V-IV, 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.180 9310)	(1) CD-52-112	STIS/CCD, ACQ, F28X50LP	MIRROR				0.1 Secs (0.1 Secs)		
									[==>]	[1]	
	Comments: Saturates in 0.68 sec. 0.1 sec gives S/N = 215.										
	2	(STIS.ta.180 9313)	(1) CD-52-112	STIS/CCD, ACQ/PEAK, 0.2X0.09	MIRROR				0.1 Secs (0.1 Secs)		
									[==>]	[1]	
	Comments: Saturates in 0.49 sec. 0.1 sec gives S/N = 243, or ~103,000 counts.										
	3	(STIS.sp.17 31960)	(1) CD-52-112	STIS/NUV-MAMA, ACCUM, 0.2X0.09	E230H 2163 A				1800 Secs (1850 Secs)		
									[==>1850 Secs]	[1]	
	4	(STIS.sp.17 31960)	(1) CD-52-112	STIS/NUV-MAMA, ACCUM, 0.2X0.09	E230H 2163 A				2800 Secs (2668 Secs)		
								[==>2668 Secs]	[2]		
5	(STIS.sp.17 31960)	(1) CD-52-112	STIS/NUV-MAMA, ACCUM, 0.2X0.09	E230H 2163 A				2800 Secs (2668 Secs)			
								[==>2668 Secs]	[3]		

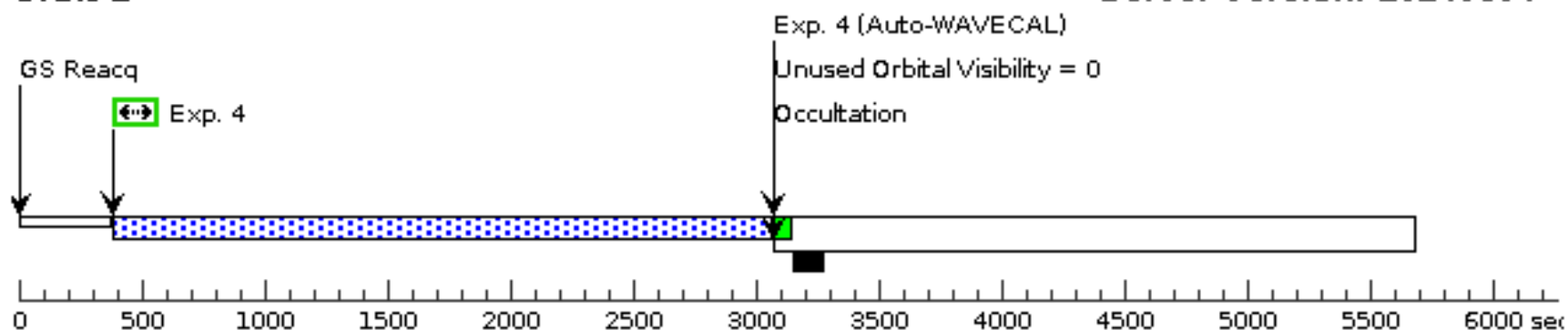
Orbit 1

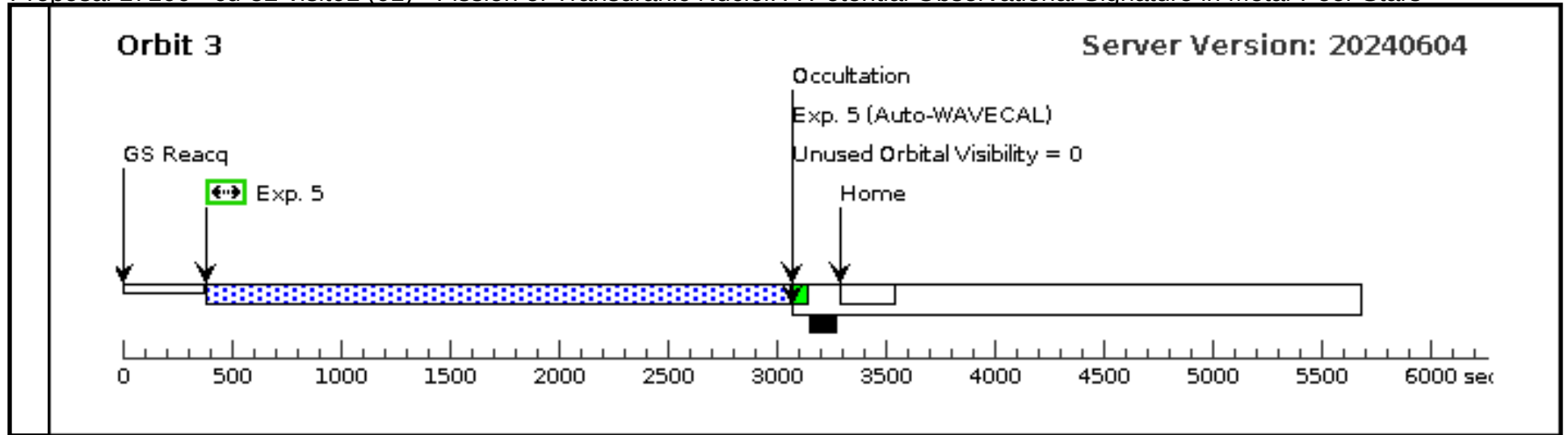
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Orbit 2

Server Version: 20240604



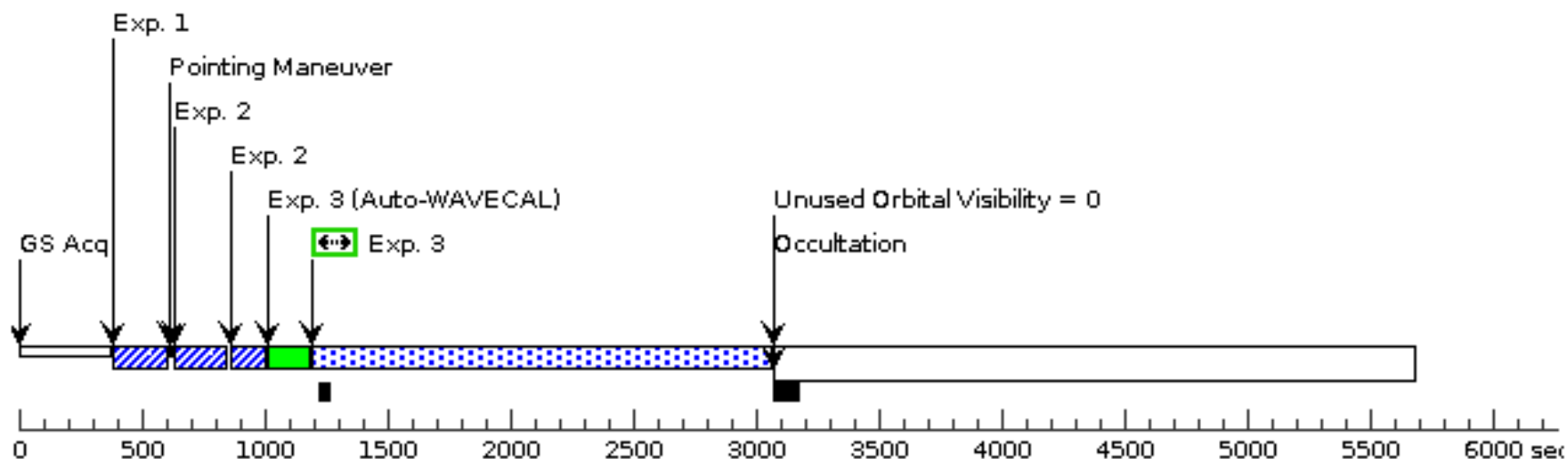


Proposal 17166 - cd-52-visit02 (02) - Fission of Transuranic Nuclei: A Potential Observational Signature in Metal-Poor Stars

Visit	Proposal 17166, cd-52-visit02 (02), implementation										Fri Jun 07 21:01:08 GMT 2024
	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)	CD-52-112	RA: 00 40 52.9371 (10.2205713d) Dec: -51 22 52.05 (-51.38112d) Equinox: J2000	Proper Motion RA: 211.594 mas/yr Proper Motion Dec: -197.427 mas/yr Parallax: 0.0067194" Epoch of Position: 2015.5		V=11.225 GALEX NUV = 13.89; E(B-V) = 0.011		Reference Frame: ICRS			
	Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.										
	IUR updated coordinates to Gaia DR2 (ICRS, epoch=2015.5). Gaia DR2 4925248047268557056										
	Category=STAR Description=[G V-IV, 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.180 9310)	(1) CD-52-112	STIS/CCD, ACQ, F28X50LP	MIRROR				0.1 Secs (0.1 Secs)		
									[==>]	[1]	
	Comments: Saturates in 0.68 sec. 0.1 sec gives S/N = 215.										
	2	(STIS.ta.180 9313)	(1) CD-52-112	STIS/CCD, ACQ/PEAK, 0.2X0.09	MIRROR				0.1 Secs (0.1 Secs)		
									[==>]	[1]	
	Comments: Saturates in 0.49 sec. 0.1 sec gives S/N = 243, or ~103,000 counts.										
	3	(STIS.sp.17 31960)	(1) CD-52-112	STIS/NUV-MAMA, ACCUM, 0.2X0.09	E230H 2163 A				1800 Secs (1850 Secs)		
									[==>1850 Secs]	[1]	
	4	(STIS.sp.17 31960)	(1) CD-52-112	STIS/NUV-MAMA, ACCUM, 0.2X0.09	E230H 2163 A				2800 Secs (2668 Secs)		
								[==>2668 Secs]	[2]		
5	(STIS.sp.17 31960)	(1) CD-52-112	STIS/NUV-MAMA, ACCUM, 0.2X0.09	E230H 2163 A				2800 Secs (2668 Secs)			
								[==>2668 Secs]	[3]		

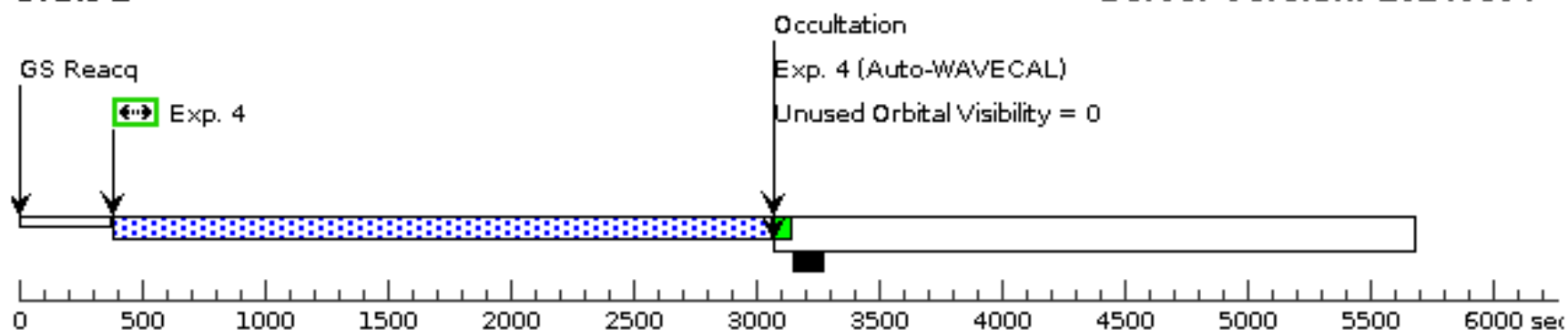
Orbit 1

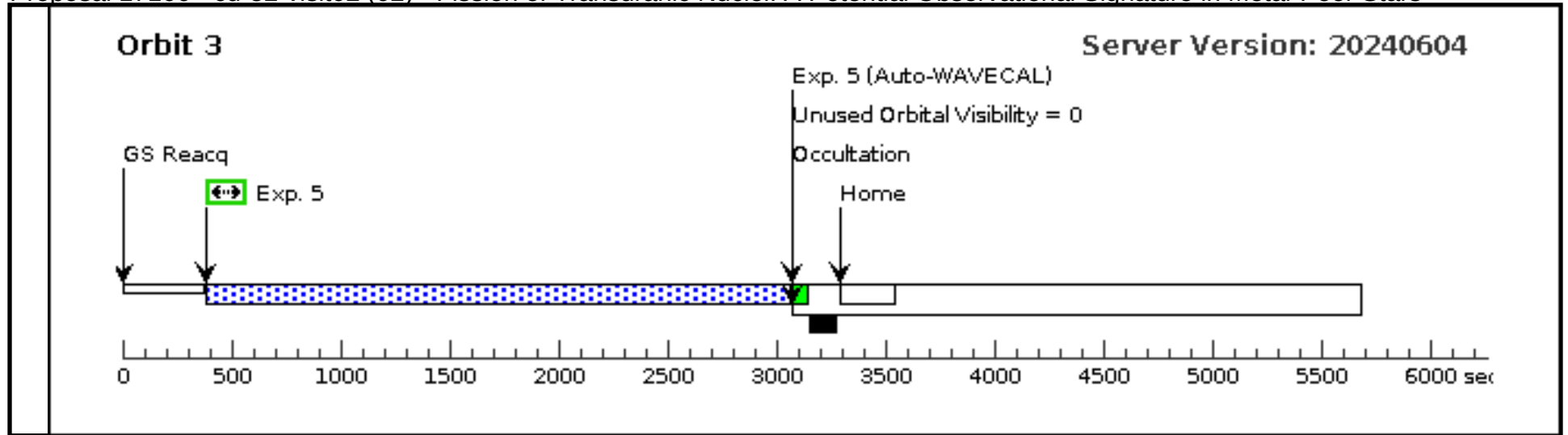
Server Version: 20240604



Orbit 2

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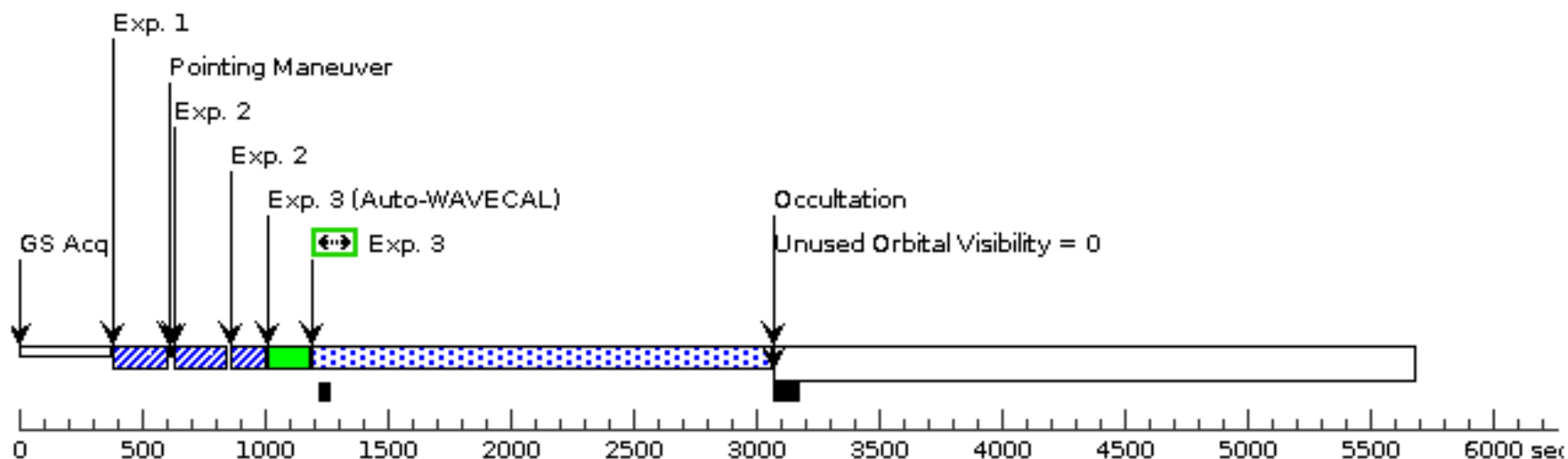


Proposal 17166 - cd-52-visit03 (03) - Fission of Transuranic Nuclei: A Potential Observational Signature in Metal-Poor Stars

Visit	Proposal 17166, cd-52-visit03 (03), implementation										Fri Jun 07 21:01:08 GMT 2024	
	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)	CD-52-112	RA: 00 40 52.9371 (10.2205713d) Dec: -51 22 52.05 (-51.38112d) Equinox: J2000		Proper Motion RA: 211.594 mas/yr Proper Motion Dec: -197.427 mas/yr Parallax: 0.0067194" Epoch of Position: 2015.5		V=11.225 GALEX NUV = 13.89; E(B-V) = 0.011		Reference Frame: ICRS			
	Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.											
	IUR updated coordinates to Gaia DR2 (ICRS, epoch=2015.5). Gaia DR2 4925248047268557056											
	Category=STAR Description=[G V-IV, 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.180 9310)	(1) CD-52-112	STIS/CCD, ACQ, F28X50LP		MIRROR				0.1 Secs (0.1 Secs)		
											[==>]	[1]
	Comments: Saturates in 0.68 sec. 0.1 sec gives S/N = 215.											
	2	(STIS.ta.180 9313)	(1) CD-52-112	STIS/CCD, ACQ/PEAK, 0.2X0.09		MIRROR				0.1 Secs (0.1 Secs)		
											[==>]	[1]
	Comments: Saturates in 0.49 sec. 0.1 sec gives S/N = 243, or ~103,000 counts.											
	3	(STIS.sp.17 31960)	(1) CD-52-112	STIS/NUV-MAMA, ACCUM, 0.2X0.09		E230H 2163 A				1800 Secs (1850 Secs)		
											[==>1850 Secs]	[1]
	4	(STIS.sp.17 31960)	(1) CD-52-112	STIS/NUV-MAMA, ACCUM, 0.2X0.09		E230H 2163 A				2800 Secs (2668 Secs)		
										[==>2668 Secs]	[2]	
5	(STIS.sp.17 31960)	(1) CD-52-112	STIS/NUV-MAMA, ACCUM, 0.2X0.09		E230H 2163 A				2800 Secs (2668 Secs)			
										[==>2668 Secs]	[3]	

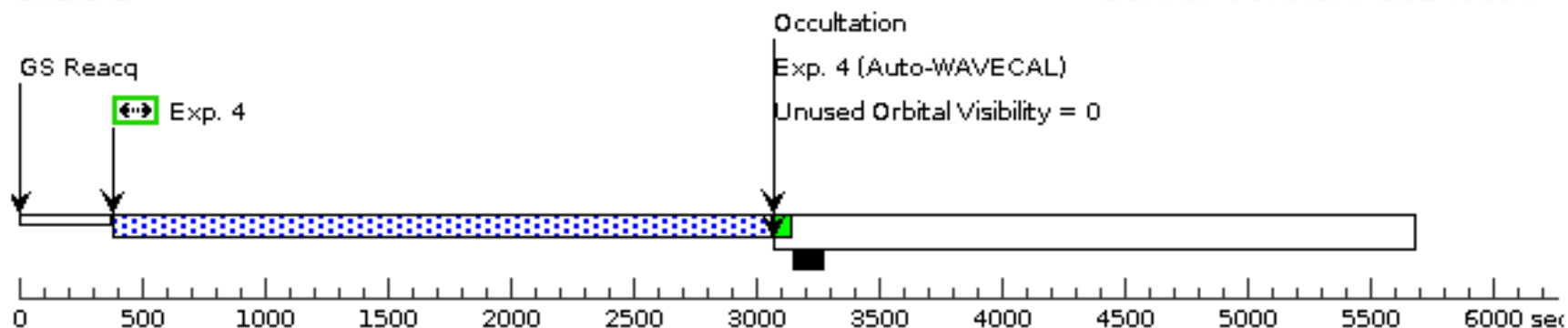
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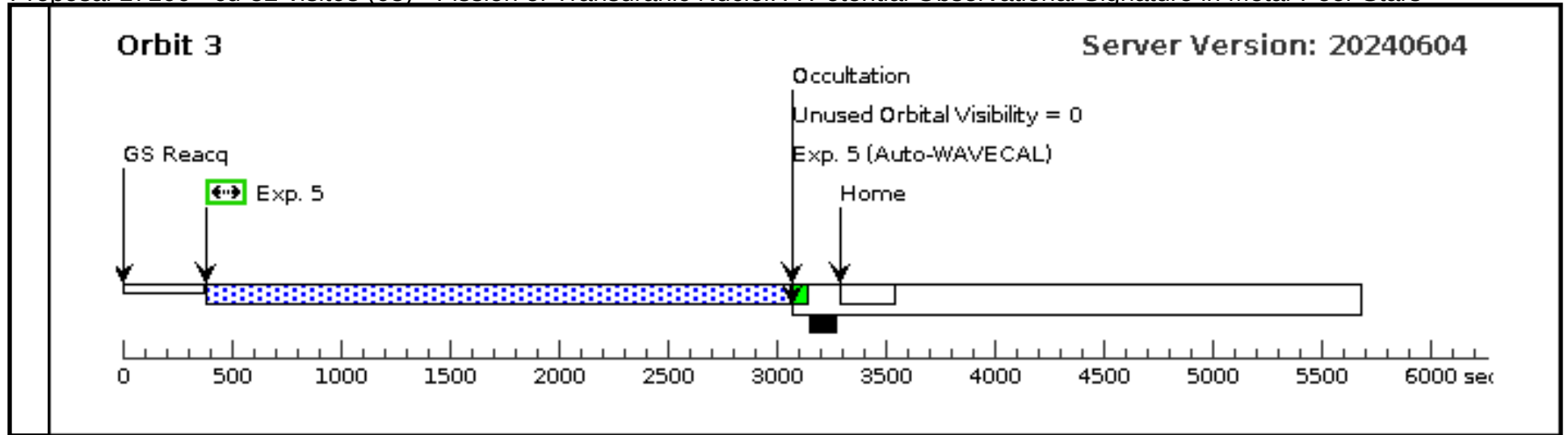
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Orbit 2

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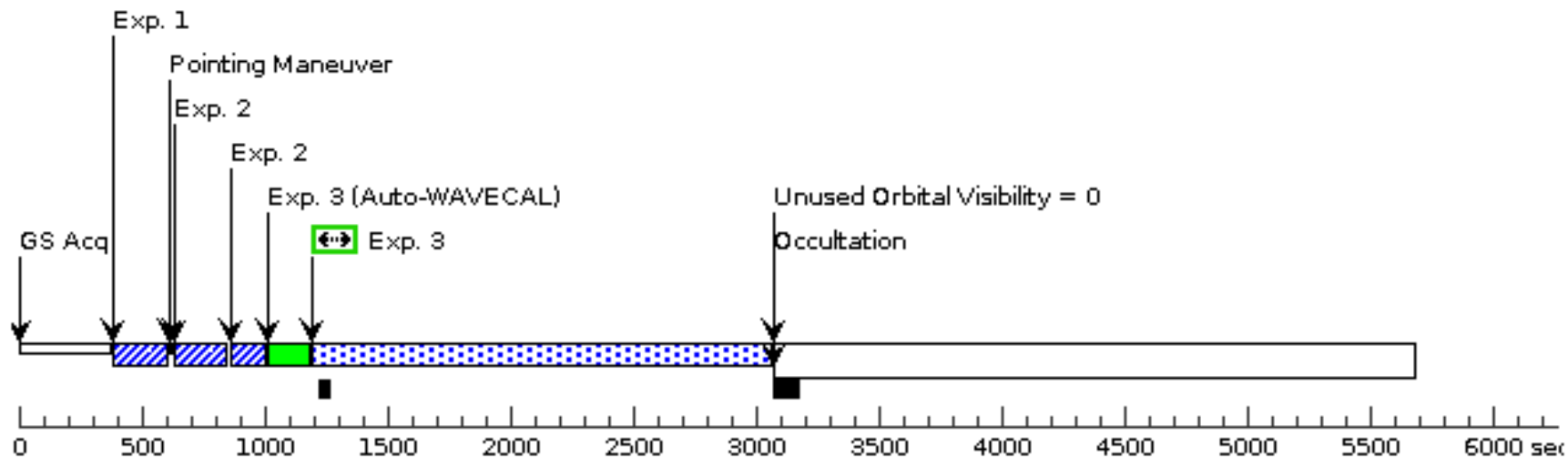


Proposal 17166 - cd-52-visit04 (04) - Fission of Transuranic Nuclei: A Potential Observational Signature in Metal-Poor Stars

Visit	Proposal 17166, cd-52-visit04 (04), implementation										Fri Jun 07 21:01:08 GMT 2024	
	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)	CD-52-112	RA: 00 40 52.9371 (10.2205713d) Dec: -51 22 52.05 (-51.38112d) Equinox: J2000		Proper Motion RA: 211.594 mas/yr Proper Motion Dec: -197.427 mas/yr Parallax: 0.0067194" Epoch of Position: 2015.5		V=11.225 GALEX NUV = 13.89; E(B-V) = 0.011		Reference Frame: ICRS			
	Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.											
	IUR updated coordinates to Gaia DR2 (ICRS, epoch=2015.5). Gaia DR2 4925248047268557056											
	Category=STAR Description=[G V-IV, 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.180 9310)	(1) CD-52-112	STIS/CCD, ACQ, F28X50LP		MIRROR				0.1 Secs (0.1 Secs)		
											[==>]	[1]
	Comments: Saturates in 0.68 sec. 0.1 sec gives S/N = 215.											
	2	(STIS.ta.180 9313)	(1) CD-52-112	STIS/CCD, ACQ/PEAK, 0.2X0.09		MIRROR				0.1 Secs (0.1 Secs)		
											[==>]	[1]
	Comments: Saturates in 0.49 sec. 0.1 sec gives S/N = 243, or ~103,000 counts.											
	3	(STIS.sp.17 31960)	(1) CD-52-112	STIS/NUV-MAMA, ACCUM, 0.2X0.09		E230H 2163 A				1800 Secs (1850 Secs)		
											[==>1850 Secs]	[1]
	4	(STIS.sp.17 31960)	(1) CD-52-112	STIS/NUV-MAMA, ACCUM, 0.2X0.09		E230H 2163 A				2800 Secs (2668 Secs)		
										[==>2668 Secs]	[2]	
5	(STIS.sp.17 31960)	(1) CD-52-112	STIS/NUV-MAMA, ACCUM, 0.2X0.09		E230H 2163 A				2800 Secs (2668 Secs)			
										[==>2668 Secs]	[3]	

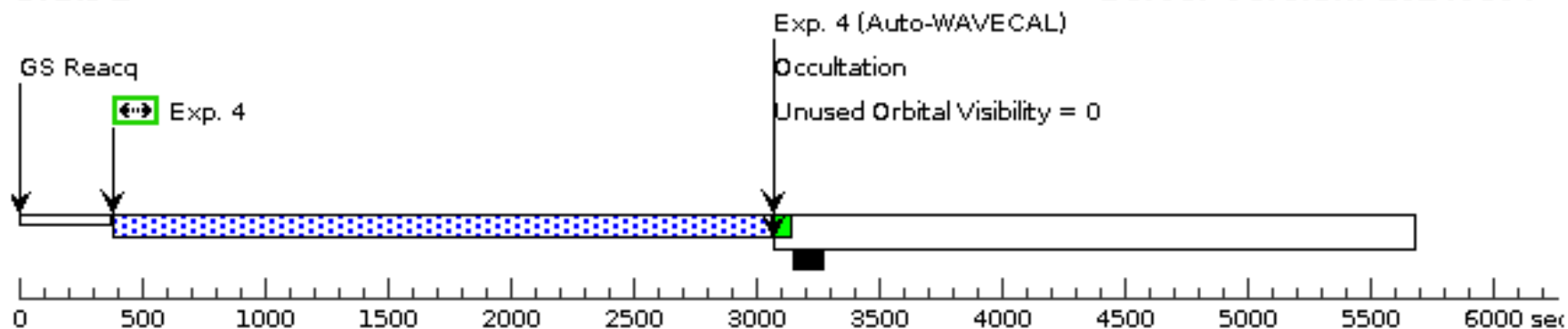
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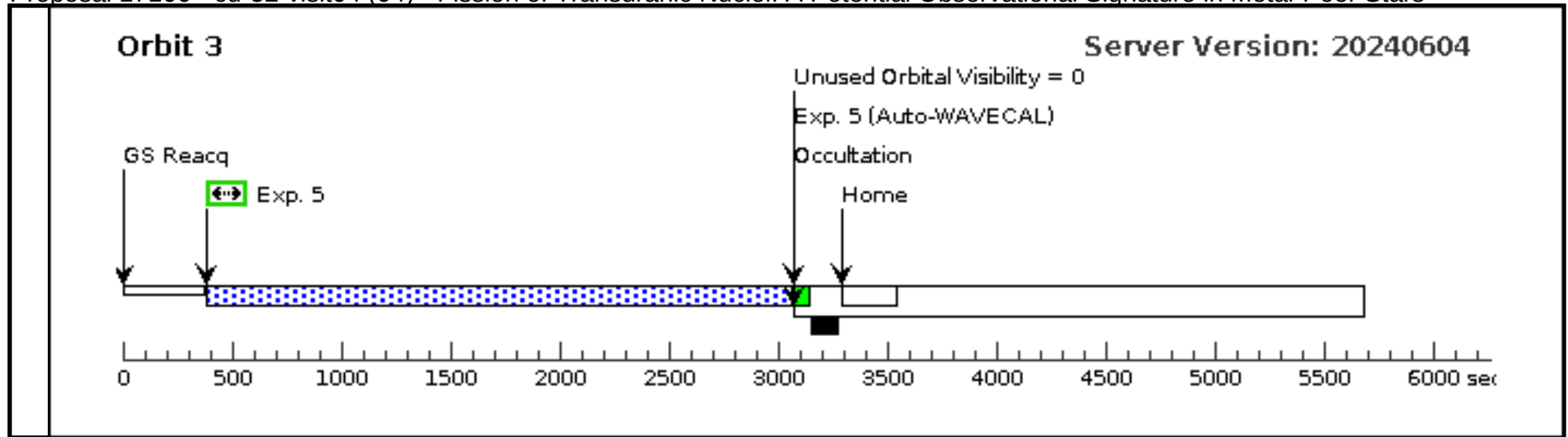
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Orbit 2

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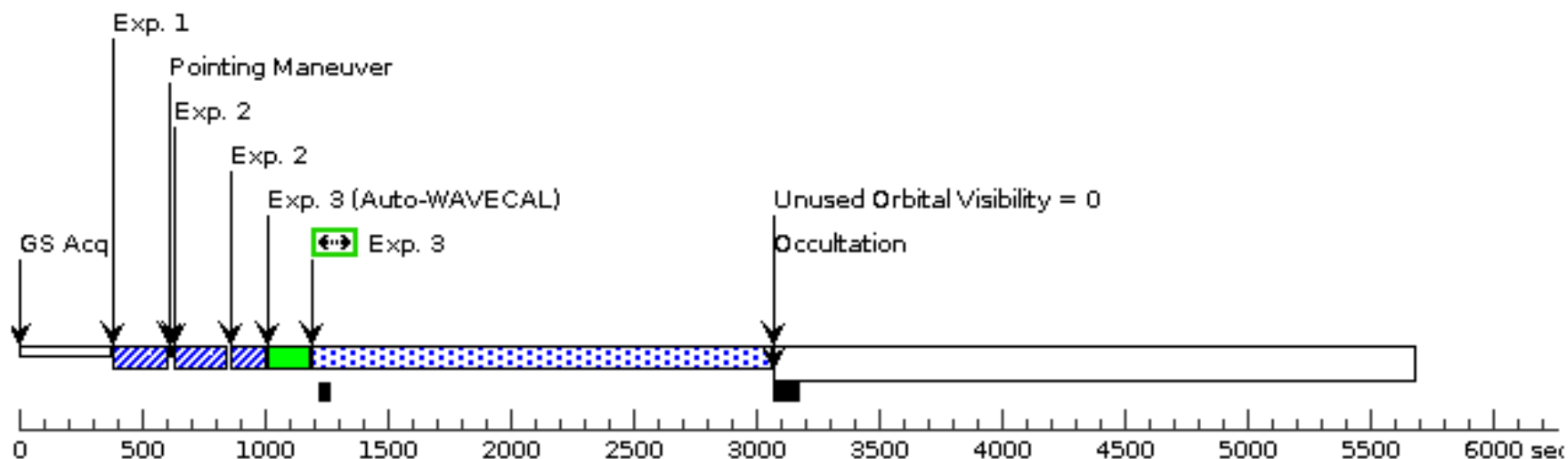


Proposal 17166 - cd-52-visit05 (05) - Fission of Transuranic Nuclei: A Potential Observational Signature in Metal-Poor Stars

Visit	Proposal 17166, cd-52-visit05 (05), implementation										Fri Jun 07 21:01:08 GMT 2024	
	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)	CD-52-112	RA: 00 40 52.9371 (10.2205713d) Dec: -51 22 52.05 (-51.38112d) Equinox: J2000	Proper Motion RA: 211.594 mas/yr Proper Motion Dec: -197.427 mas/yr Parallax: 0.0067194" Epoch of Position: 2015.5		V=11.225 GALEX NUV = 13.89; E(B-V) = 0.011		Reference Frame: ICRS				
	Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.											
	IUR updated coordinates to Gaia DR2 (ICRS, epoch=2015.5). Gaia DR2 4925248047268557056											
	Category=STAR Description=[G V-IV, 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.180 9310)	(1) CD-52-112	STIS/CCD, ACQ, F28X50LP	MIRROR				0.1 Secs (0.1 Secs)			
									[==>]		[1]	
	Comments: Saturates in 0.68 sec. 0.1 sec gives S/N = 215.											
	2	(STIS.ta.180 9313)	(1) CD-52-112	STIS/CCD, ACQ/PEAK, 0.2X0.09	MIRROR				0.1 Secs (0.1 Secs)			
									[==>]		[1]	
	Comments: Saturates in 0.49 sec. 0.1 sec gives S/N = 243, or ~103,000 counts.											
	3	(STIS.sp.17 31960)	(1) CD-52-112	STIS/NUV-MAMA, ACCUM, 0.2X0.09	E230H 2163 A				1800 Secs (1850 Secs)			
									[==>1850 Secs]		[1]	
	4	(STIS.sp.17 31960)	(1) CD-52-112	STIS/NUV-MAMA, ACCUM, 0.2X0.09	E230H 2163 A				2800 Secs (2668 Secs)			
								[==>2668 Secs]		[2]		
5	(STIS.sp.17 31960)	(1) CD-52-112	STIS/NUV-MAMA, ACCUM, 0.2X0.09	E230H 2163 A				2800 Secs (2668 Secs)				
								[==>2668 Secs]		[3]		

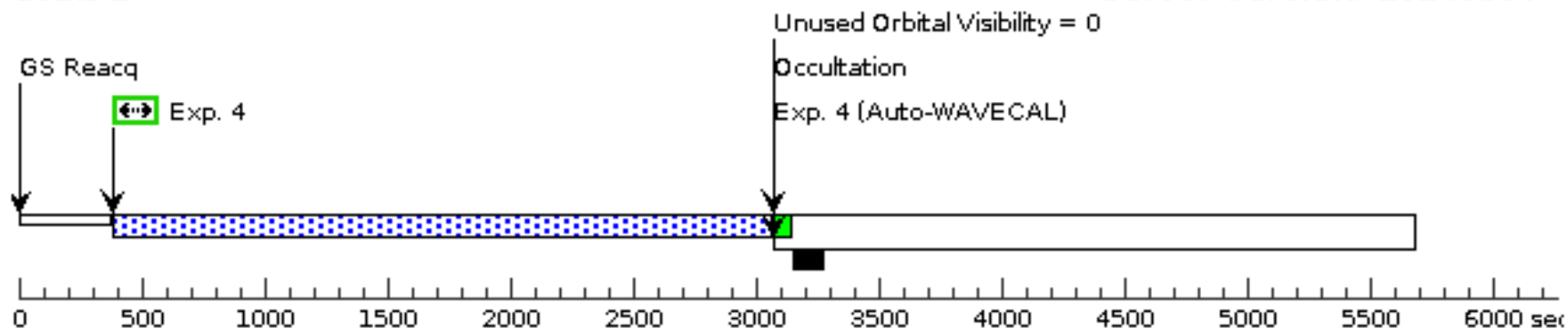
Orbit 1

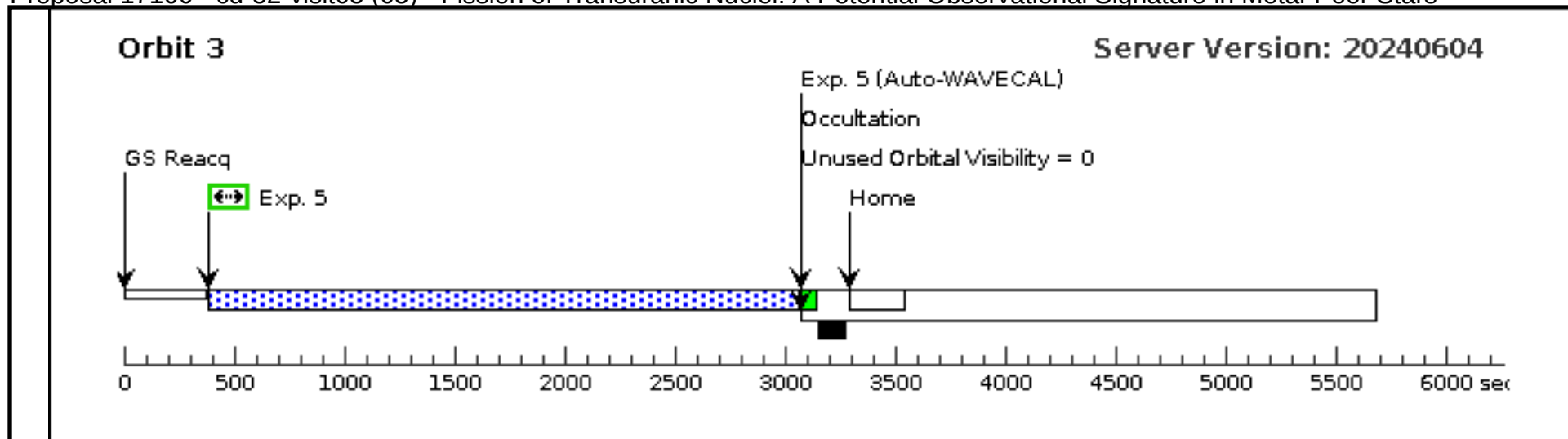
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Orbit 2

Server Version: 20240604



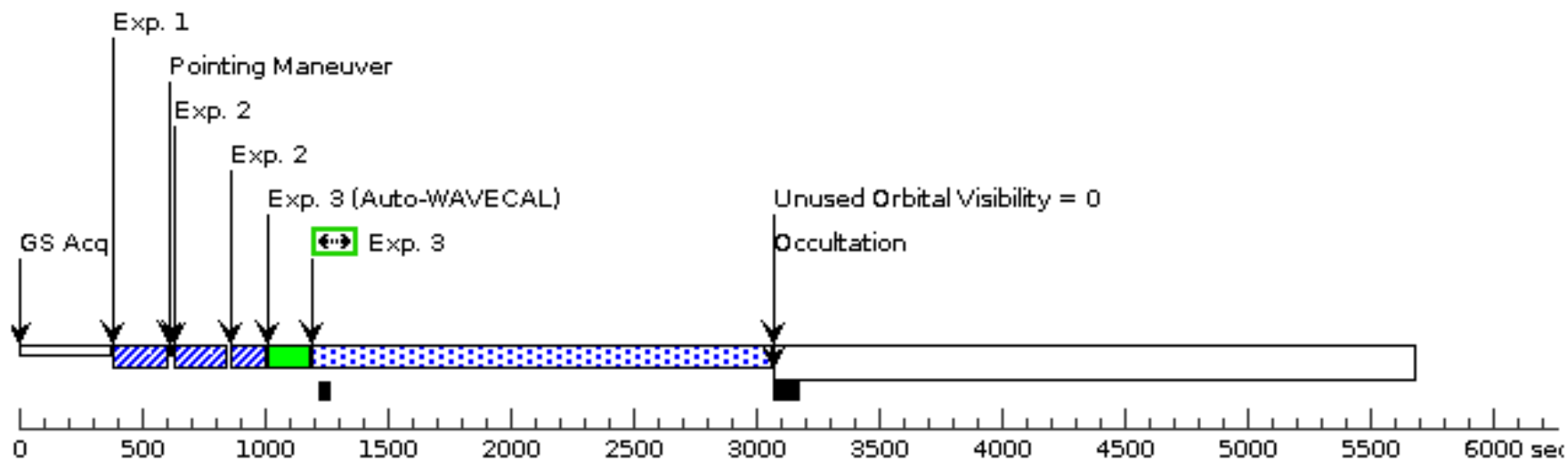


Proposal 17166 - cd-52-visit06 (06) - Fission of Transuranic Nuclei: A Potential Observational Signature in Metal-Poor Stars

Visit	Proposal 17166, cd-52-visit06 (06), implementation										Fri Jun 07 21:01:08 GMT 2024
	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)	CD-52-112	RA: 00 40 52.9371 (10.2205713d) Dec: -51 22 52.05 (-51.38112d) Equinox: J2000	Proper Motion RA: 211.594 mas/yr Proper Motion Dec: -197.427 mas/yr Parallax: 0.0067194" Epoch of Position: 2015.5		V=11.225 GALEX NUV = 13.89; E(B-V) = 0.011		Reference Frame: ICRS			
	Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.										
	IUR updated coordinates to Gaia DR2 (ICRS, epoch=2015.5). Gaia DR2 4925248047268557056										
	Category=STAR Description=[G V-IV, 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.180 9310)	(1) CD-52-112	STIS/CCD, ACQ, F28X50LP	MIRROR				0.1 Secs (0.1 Secs)		
									[==>]	[1]	
	Comments: Saturates in 0.68 sec. 0.1 sec gives S/N = 215.										
	2	(STIS.ta.180 9313)	(1) CD-52-112	STIS/CCD, ACQ/PEAK, 0.2X0.09	MIRROR				0.1 Secs (0.1 Secs)		
									[==>]	[1]	
	Comments: Saturates in 0.49 sec. 0.1 sec gives S/N = 243, or ~103,000 counts.										
	3	(STIS.sp.17 31960)	(1) CD-52-112	STIS/NUV-MAMA, ACCUM, 0.2X0.09	E230H 2163 A				1800 Secs (1850 Secs)		
									[==>1850 Secs]	[1]	
	4	(STIS.sp.17 31960)	(1) CD-52-112	STIS/NUV-MAMA, ACCUM, 0.2X0.09	E230H 2163 A				2800 Secs (2668 Secs)		
								[==>2668 Secs]	[2]		
5	(STIS.sp.17 31960)	(1) CD-52-112	STIS/NUV-MAMA, ACCUM, 0.2X0.09	E230H 2163 A				2800 Secs (2668 Secs)			
								[==>2668 Secs]	[3]		

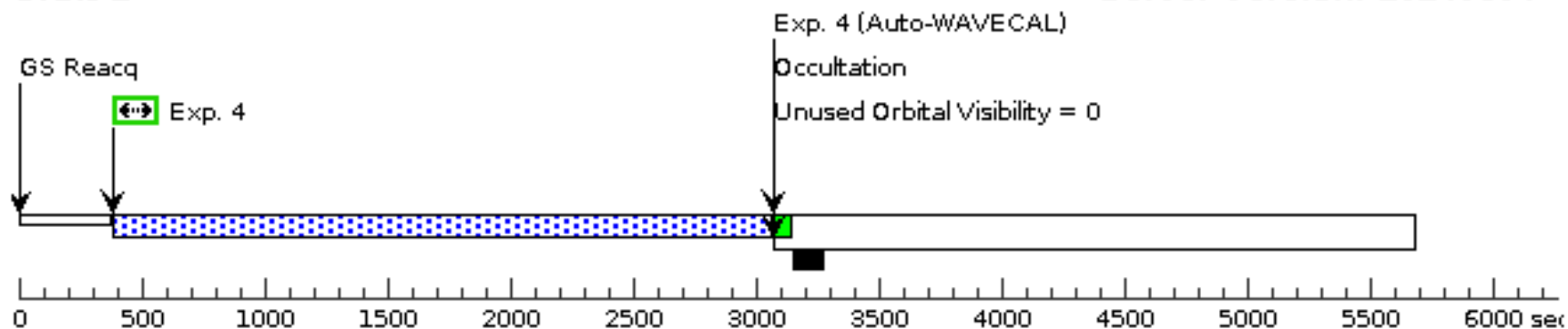
Orbit 1

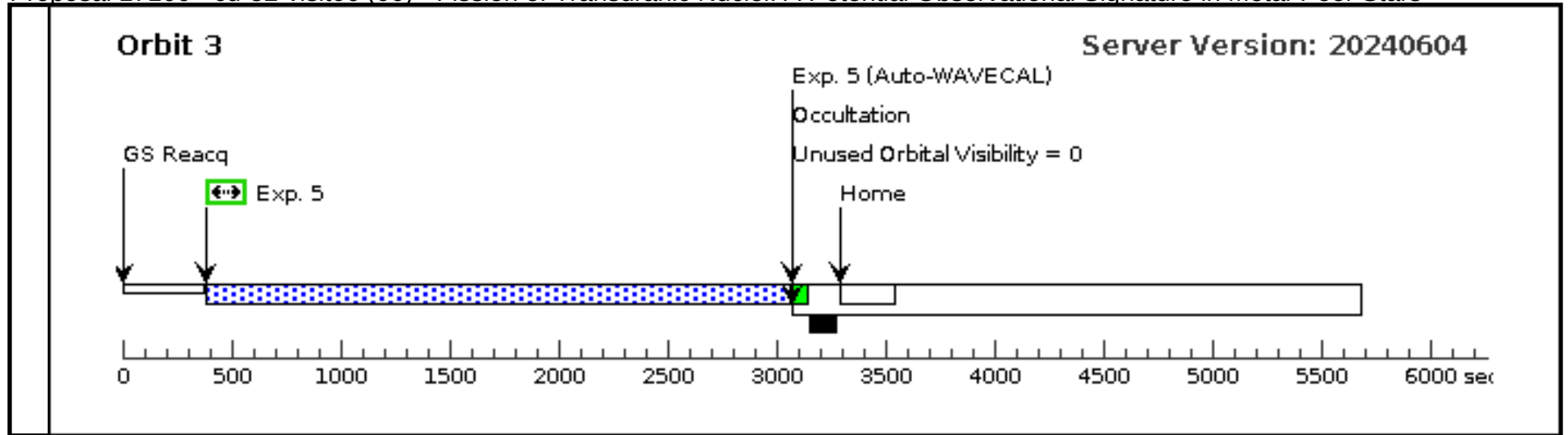
Server Version: 20240604



Orbit 2

Server Version: 20240604



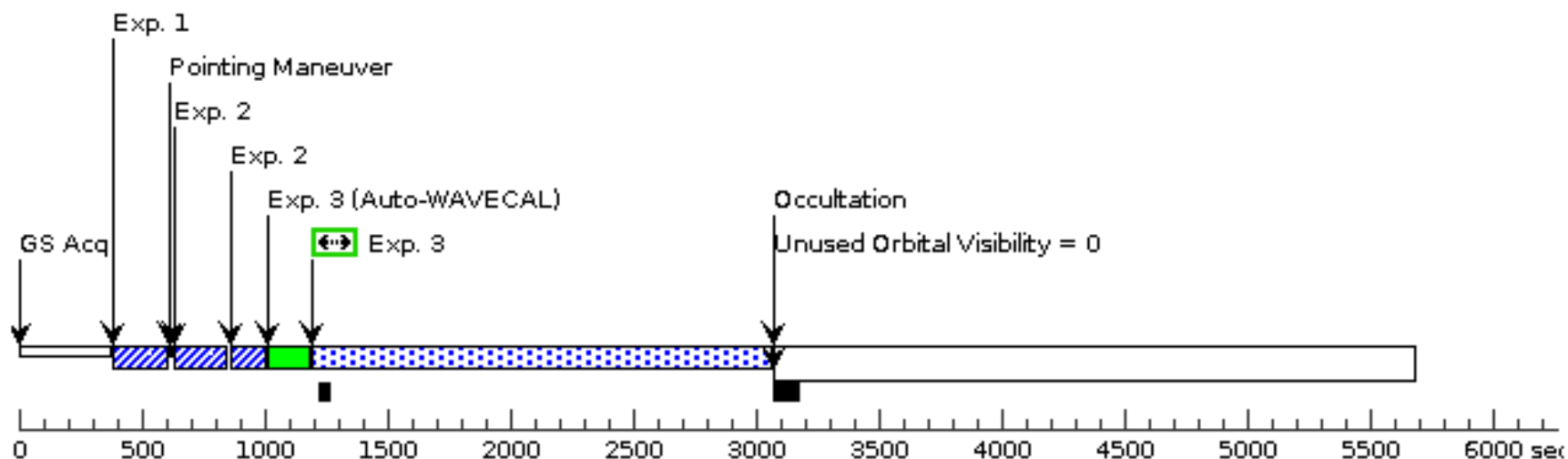


Proposal 17166 - cd-52-visit07 (07) - Fission of Transuranic Nuclei: A Potential Observational Signature in Metal-Poor Stars

Visit	Proposal 17166, cd-52-visit07 (07), implementation										Fri Jun 07 21:01:08 GMT 2024	
	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)	CD-52-112	RA: 00 40 52.9371 (10.2205713d) Dec: -51 22 52.05 (-51.38112d) Equinox: J2000	Proper Motion RA: 211.594 mas/yr Proper Motion Dec: -197.427 mas/yr Parallax: 0.0067194" Epoch of Position: 2015.5		V=11.225 GALEX NUV = 13.89; E(B-V) = 0.011		Reference Frame: ICRS				
	Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.											
	IUR updated coordinates to Gaia DR2 (ICRS, epoch=2015.5). Gaia DR2 4925248047268557056											
	Category=STAR Description=[G V-IV, 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.180 9310)	(1) CD-52-112	STIS/CCD, ACQ, F28X50LP	MIRROR				0.1 Secs (0.1 Secs)			
										[==>]	[1]	
	Comments: Saturates in 0.68 sec. 0.1 sec gives S/N = 215.											
	2	(STIS.ta.180 9313)	(1) CD-52-112	STIS/CCD, ACQ/PEAK, 0.2X0.09	MIRROR				0.1 Secs (0.1 Secs)			
										[==>]	[1]	
	Comments: Saturates in 0.49 sec. 0.1 sec gives S/N = 243, or ~103,000 counts.											
	3	(STIS.sp.17 31960)	(1) CD-52-112	STIS/NUV-MAMA, ACCUM, 0.2X0.09	E230H 2163 A				1800 Secs (1850 Secs)			
										[==>1850 Secs]	[1]	
	4	(STIS.sp.17 31960)	(1) CD-52-112	STIS/NUV-MAMA, ACCUM, 0.2X0.09	E230H 2163 A				2800 Secs (2668 Secs)			
									[==>2668 Secs]	[2]		
5	(STIS.sp.17 31960)	(1) CD-52-112	STIS/NUV-MAMA, ACCUM, 0.2X0.09	E230H 2163 A				2800 Secs (2668 Secs)				
									[==>2668 Secs]	[3]		

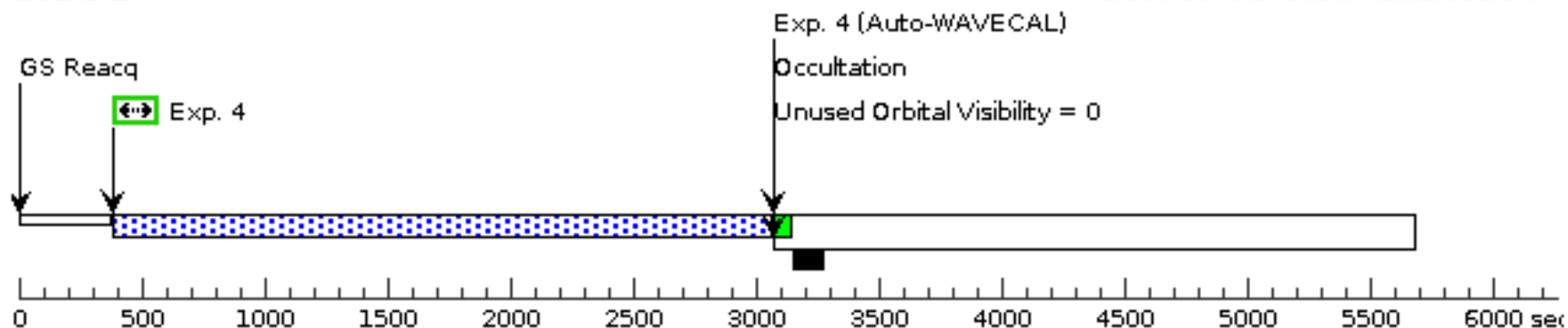
Orbit 1

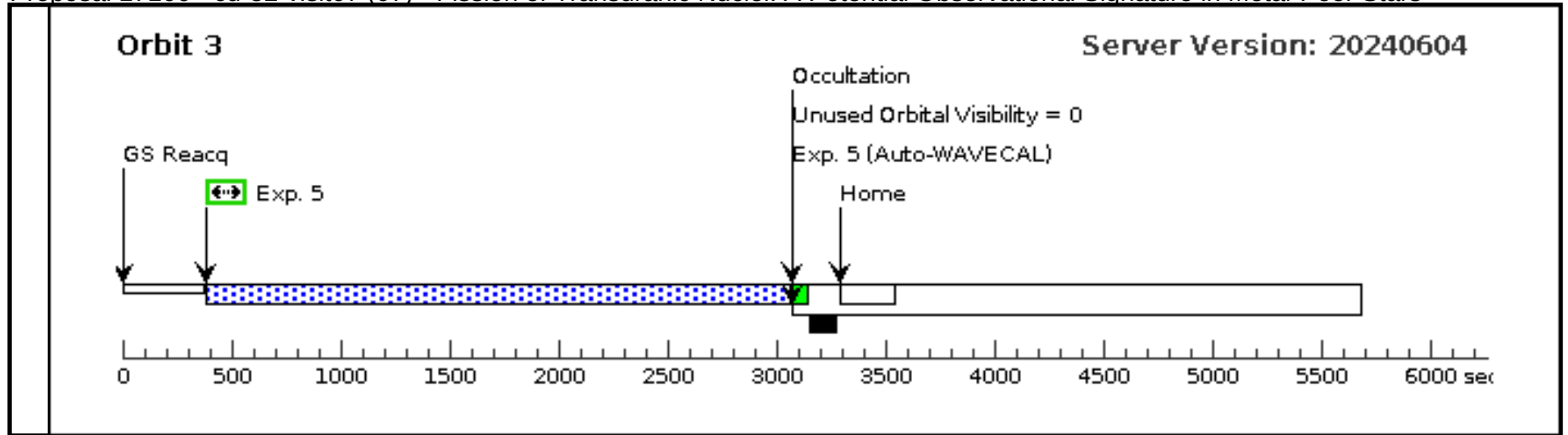
Server Version: 20240604



Orbit 2

Server Version: 20240604



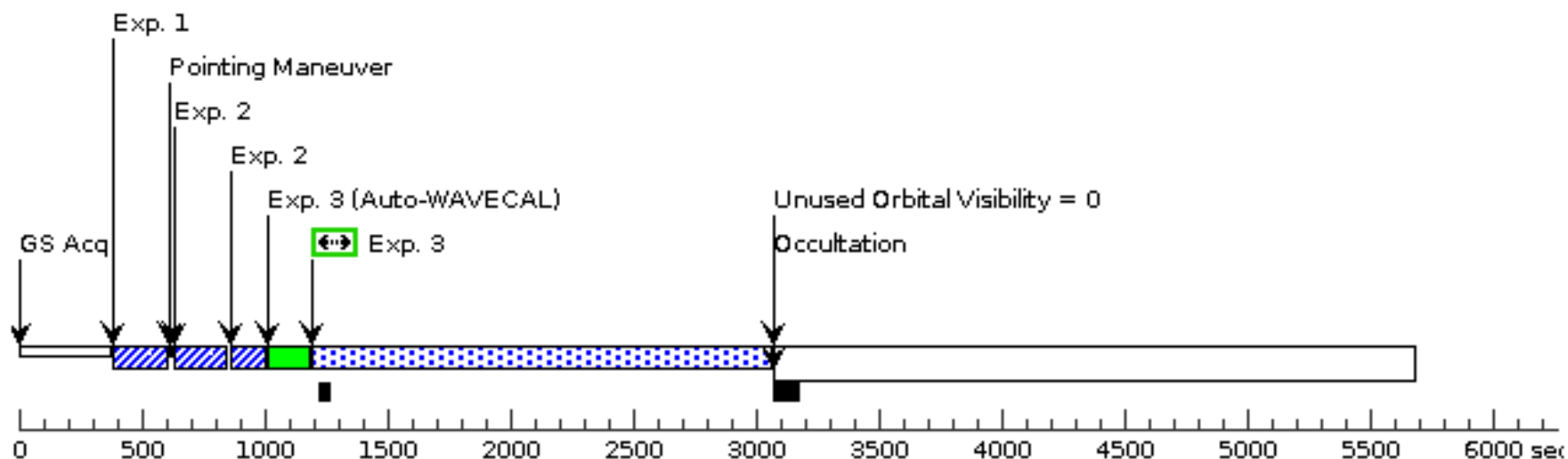


Proposal 17166 - cd-52-visit08 (08) - Fission of Transuranic Nuclei: A Potential Observational Signature in Metal-Poor Stars

Visit	Proposal 17166, cd-52-visit08 (08), implementation										Fri Jun 07 21:01:09 GMT 2024	
	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)	CD-52-112	RA: 00 40 52.9371 (10.2205713d) Dec: -51 22 52.05 (-51.38112d) Equinox: J2000		Proper Motion RA: 211.594 mas/yr Proper Motion Dec: -197.427 mas/yr Parallax: 0.0067194" Epoch of Position: 2015.5		V=11.225 GALEX NUV = 13.89; E(B-V) = 0.011		Reference Frame: ICRS			
	Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.											
	IUR updated coordinates to Gaia DR2 (ICRS, epoch=2015.5). Gaia DR2 4925248047268557056											
	Category=STAR Description=[G V-IV, 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.180 9310)	(1) CD-52-112	STIS/CCD, ACQ, F28X50LP		MIRROR				0.1 Secs (0.1 Secs)		
											[==>]	[1]
	Comments: Saturates in 0.68 sec. 0.1 sec gives S/N = 215.											
	2	(STIS.ta.180 9313)	(1) CD-52-112	STIS/CCD, ACQ/PEAK, 0.2X0.09		MIRROR				0.1 Secs (0.1 Secs)		
											[==>]	[1]
	Comments: Saturates in 0.49 sec. 0.1 sec gives S/N = 243, or ~103,000 counts.											
	3	(STIS.sp.17 31960)	(1) CD-52-112	STIS/NUV-MAMA, ACCUM, 0.2X0.09		E230H 2163 A				1800 Secs (1850 Secs)		
											[==>1850 Secs]	[1]
	4	(STIS.sp.17 31960)	(1) CD-52-112	STIS/NUV-MAMA, ACCUM, 0.2X0.09		E230H 2163 A				2800 Secs (2668 Secs)		
										[==>2668 Secs]	[2]	
5	(STIS.sp.17 31960)	(1) CD-52-112	STIS/NUV-MAMA, ACCUM, 0.2X0.09		E230H 2163 A				2800 Secs (2668 Secs)			
										[==>2668 Secs]	[3]	

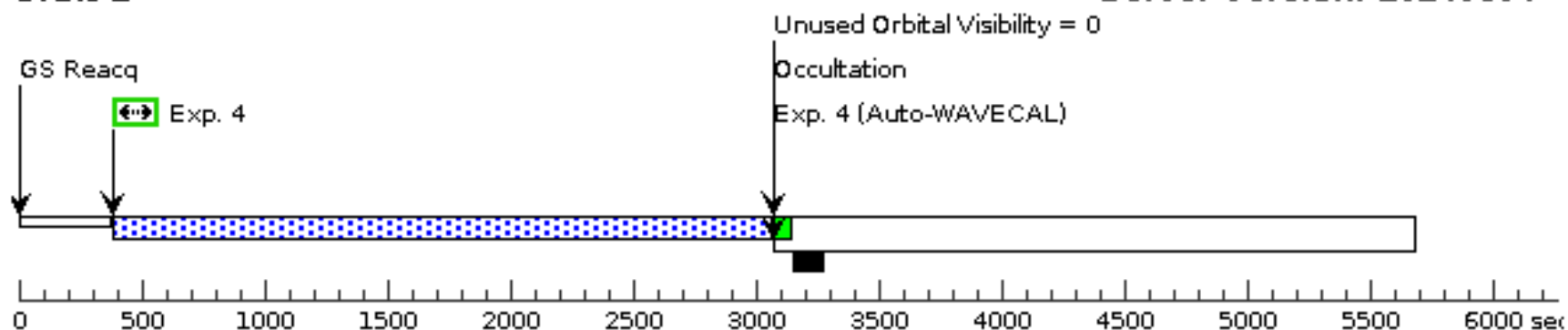
Orbit 1

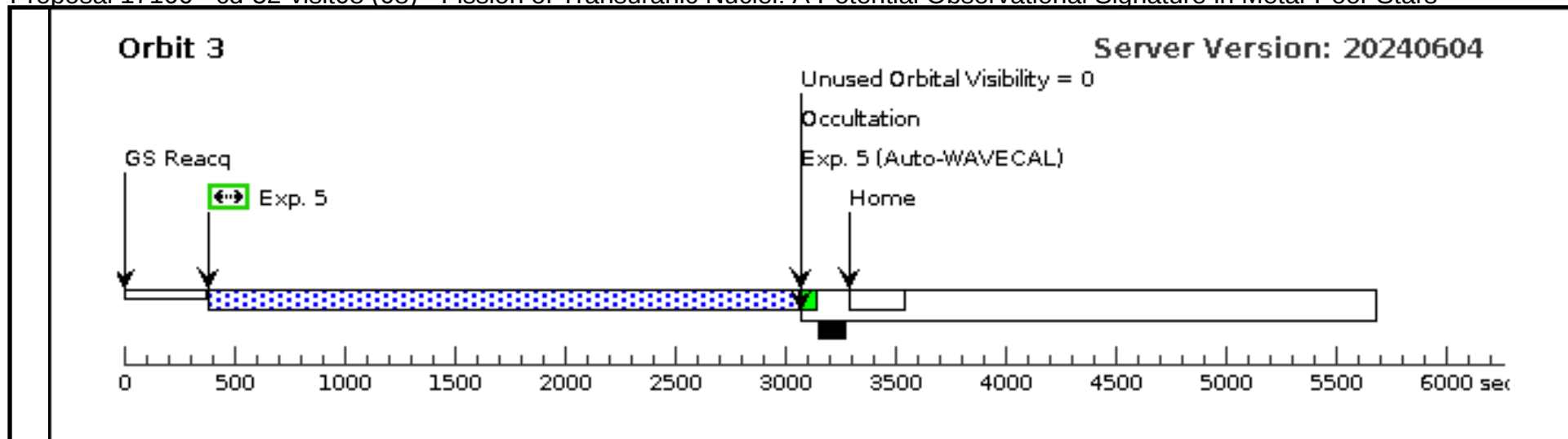
Server Version: 20240604



Orbit 2

Server Version: 20240604



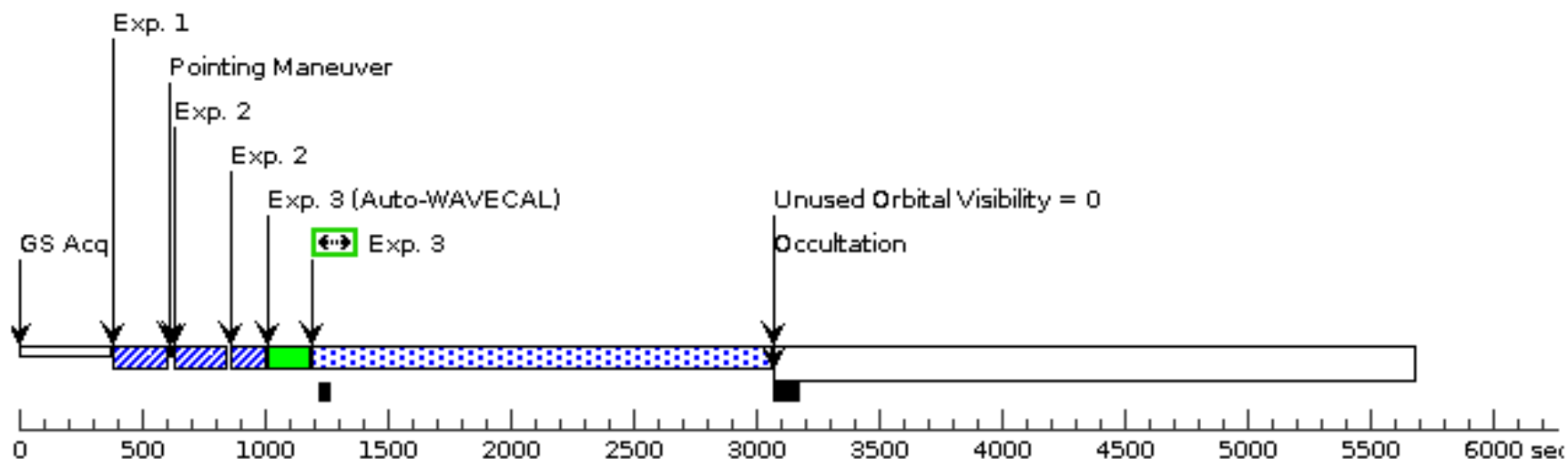


Proposal 17166 - cd-52-visit09 (09) - Fission of Transuranic Nuclei: A Potential Observational Signature in Metal-Poor Stars

Visit	Proposal 17166, cd-52-visit09 (09), implementation								Fri Jun 07 21:01:09 GMT 2024	
	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)	CD-52-112	RA: 00 40 52.9371 (10.2205713d) Dec: -51 22 52.05 (-51.38112d) Equinox: J2000	Proper Motion RA: 211.594 mas/yr Proper Motion Dec: -197.427 mas/yr Parallax: 0.0067194" Epoch of Position: 2015.5		V=11.225 GALEX NUV = 13.89; E(B-V) = 0.011		Reference Frame: ICRS		
	Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.									
	IUR updated coordinates to Gaia DR2 (ICRS, epoch=2015.5). Gaia DR2 4925248047268557056									
	Category=STAR Description=[G V-IV, 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.180 9310)	(1) CD-52-112	STIS/CCD, ACQ, F28X50LP	MIRROR				0.1 Secs (0.1 Secs)	
									[==>]	[1]
	Comments: Saturates in 0.68 sec. 0.1 sec gives S/N = 215.									
	2	(STIS.ta.180 9313)	(1) CD-52-112	STIS/CCD, ACQ/PEAK, 0.2X0.09	MIRROR				0.1 Secs (0.1 Secs)	
									[==>]	[1]
	Comments: Saturates in 0.49 sec. 0.1 sec gives S/N = 243, or ~103,000 counts.									
	3	(STIS.sp.17 31960)	(1) CD-52-112	STIS/NUV-MAMA, ACCUM, 0.2X0.09	E230H 2163 A				1800 Secs (1850 Secs)	
									[==>1850 Secs]	[1]
	4	(STIS.sp.17 31960)	(1) CD-52-112	STIS/NUV-MAMA, ACCUM, 0.2X0.09	E230H 2163 A				2800 Secs (2668 Secs)	
								[==>2668 Secs]	[2]	
5	(STIS.sp.17 31960)	(1) CD-52-112	STIS/NUV-MAMA, ACCUM, 0.2X0.09	E230H 2163 A				2800 Secs (2668 Secs)		
								[==>2668 Secs]	[3]	

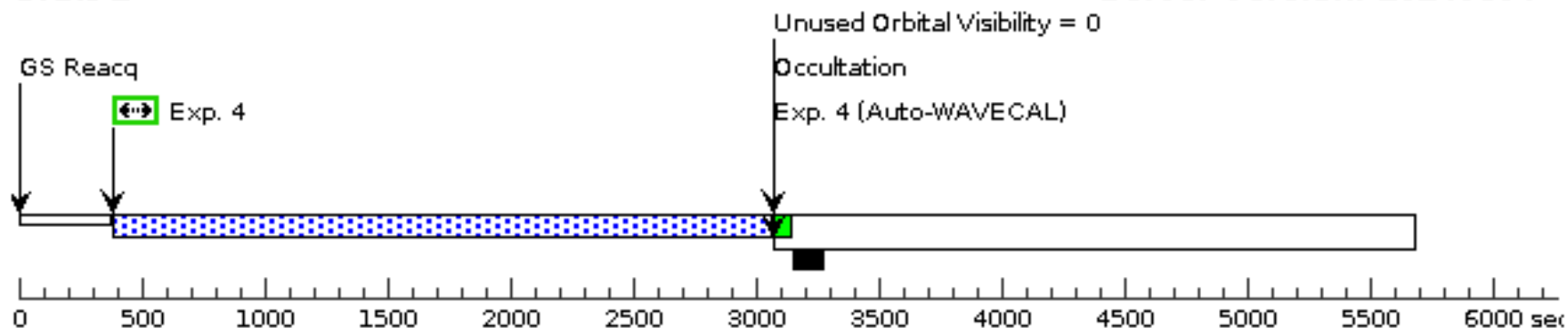
Orbit 1

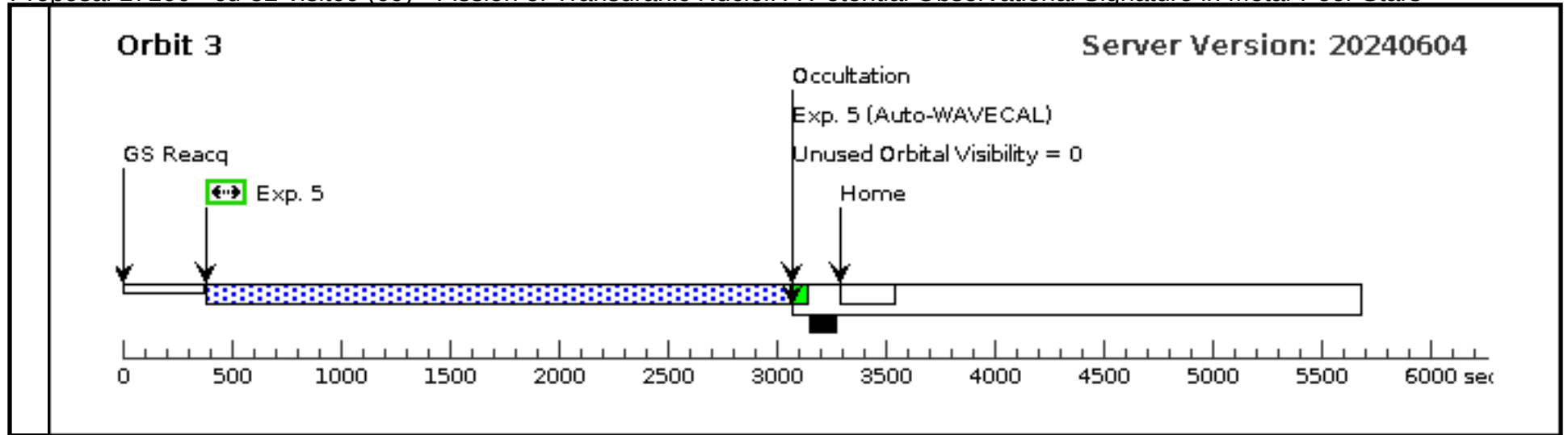
Server Version: 20240604



Orbit 2

Server Version: 20240604



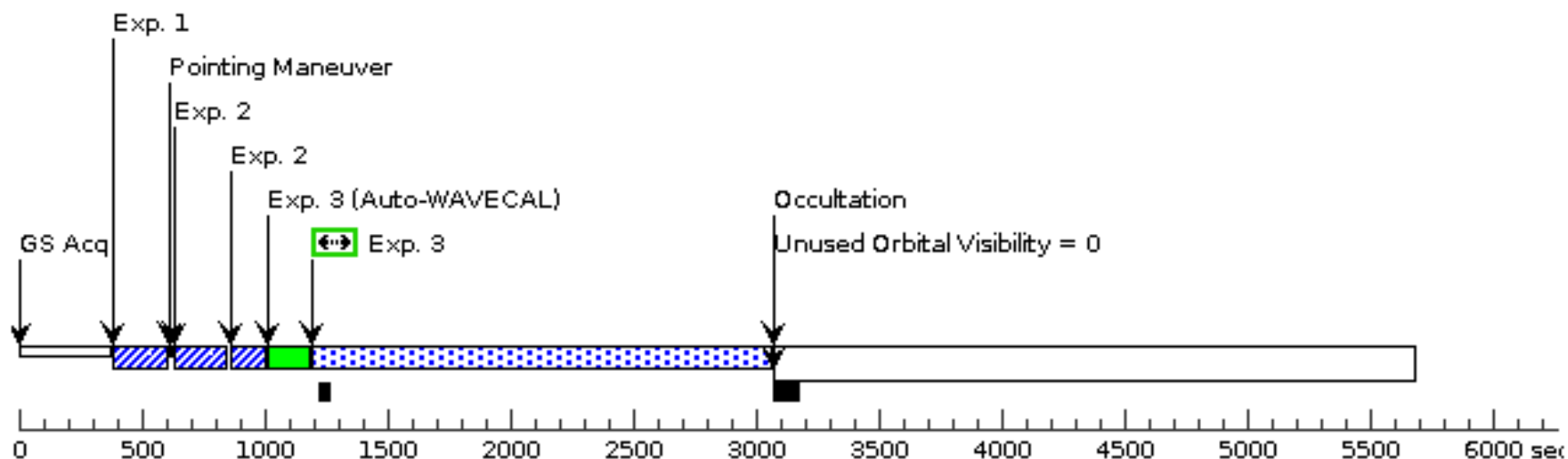


Proposal 17166 - cd-52-visit10 (10) - Fission of Transuranic Nuclei: A Potential Observational Signature in Metal-Poor Stars

Visit	Proposal 17166, cd-52-visit10 (10), implementation										Fri Jun 07 21:01:09 GMT 2024	
	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)	CD-52-112	RA: 00 40 52.9371 (10.2205713d) Dec: -51 22 52.05 (-51.38112d) Equinox: J2000	Proper Motion RA: 211.594 mas/yr Proper Motion Dec: -197.427 mas/yr Parallax: 0.0067194" Epoch of Position: 2015.5		V=11.225 GALEX NUV = 13.89; E(B-V) = 0.011		Reference Frame: ICRS				
	Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.											
	IUR updated coordinates to Gaia DR2 (ICRS, epoch=2015.5). Gaia DR2 4925248047268557056											
	Category=STAR Description=[G V-IV, 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.180 9310)	(1) CD-52-112	STIS/CCD, ACQ, F28X50LP	MIRROR				0.1 Secs (0.1 Secs)			
										[==>]	[1]	
	Comments: Saturates in 0.68 sec. 0.1 sec gives S/N = 215.											
	2	(STIS.ta.180 9313)	(1) CD-52-112	STIS/CCD, ACQ/PEAK, 0.2X0.09	MIRROR				0.1 Secs (0.1 Secs)			
										[==>]	[1]	
	Comments: Saturates in 0.49 sec. 0.1 sec gives S/N = 243, or ~103,000 counts.											
	3	(STIS.sp.17 31960)	(1) CD-52-112	STIS/NUV-MAMA, ACCUM, 0.2X0.09	E230H 2163 A				1800 Secs (1850 Secs)			
										[==>1850 Secs]	[1]	
	4	(STIS.sp.17 31960)	(1) CD-52-112	STIS/NUV-MAMA, ACCUM, 0.2X0.09	E230H 2163 A				2800 Secs (2668 Secs)			
									[==>2668 Secs]	[2]		
5	(STIS.sp.17 31960)	(1) CD-52-112	STIS/NUV-MAMA, ACCUM, 0.2X0.09	E230H 2163 A				2800 Secs (2668 Secs)				
									[==>2668 Secs]	[3]		

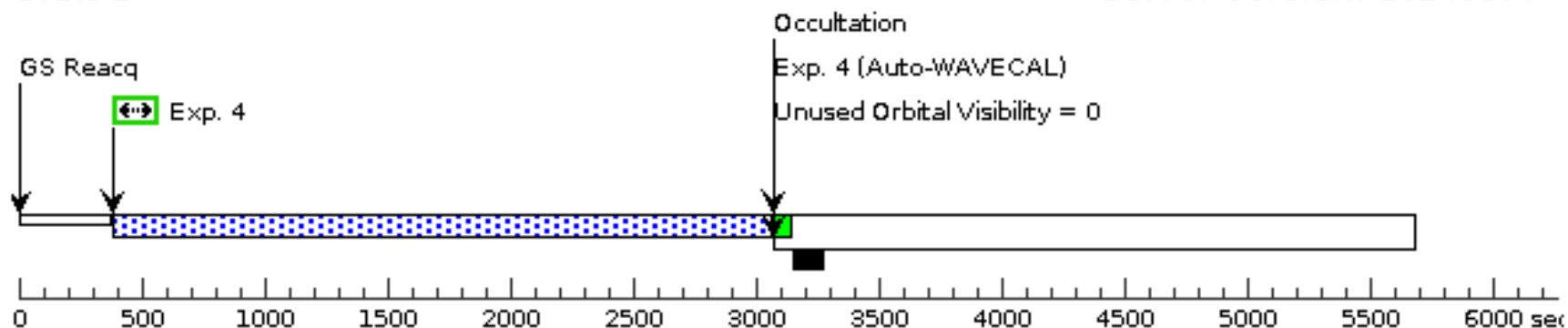
Orbit 1

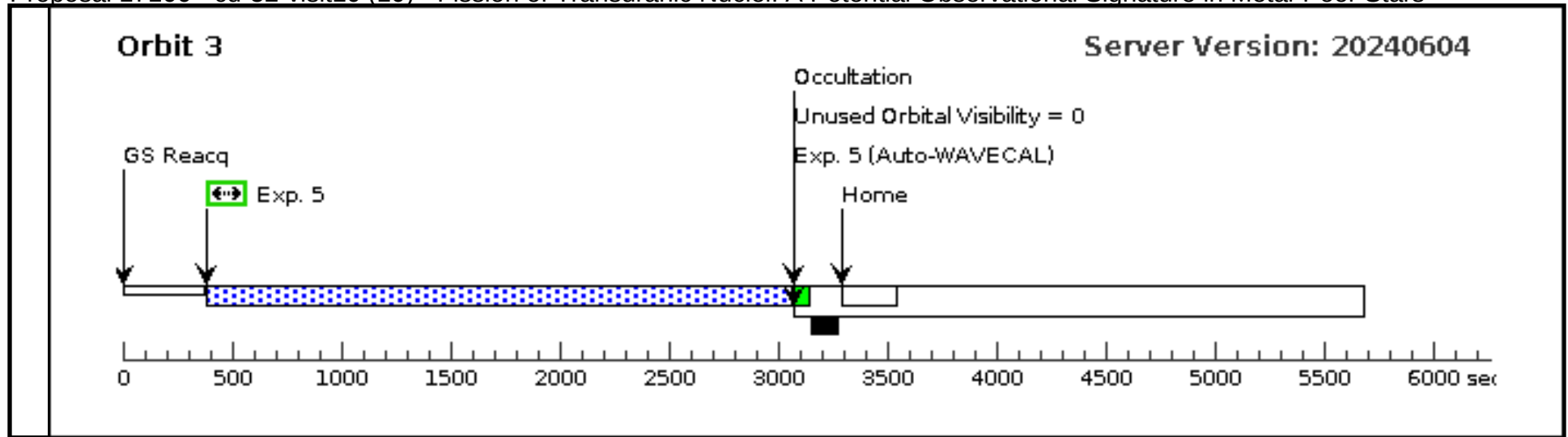
Server Version: 20240604



Orbit 2

Server Version: 20240604



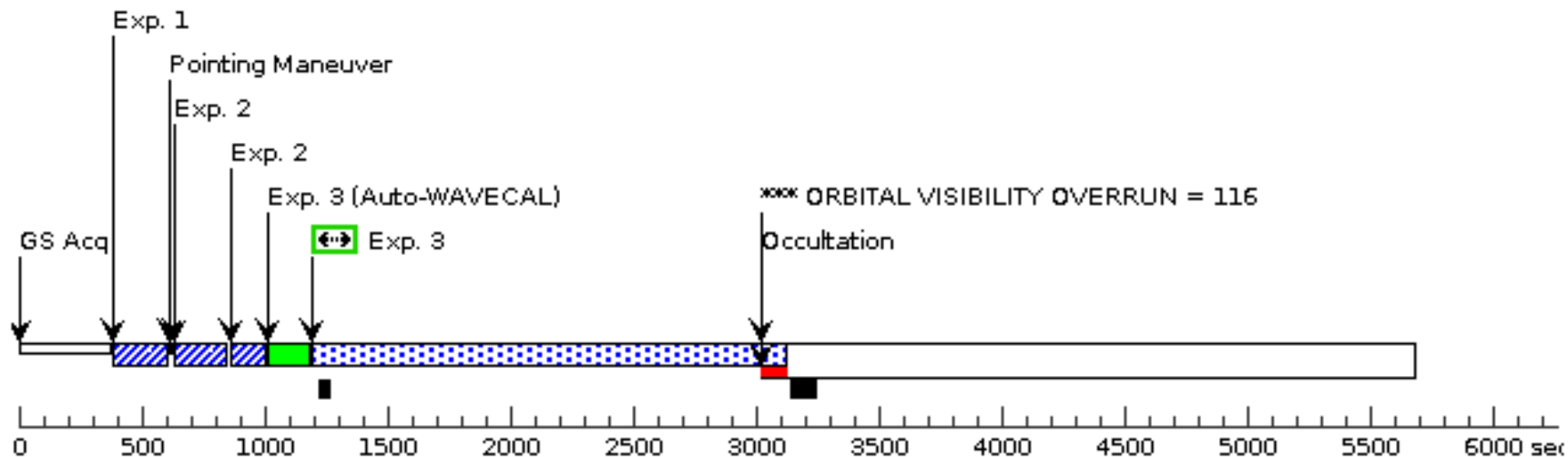


Proposal 17166 - cd-23-visit01 (11) - Fission of Transuranic Nuclei: A Potential Observational Signature in Metal-Poor Stars

Visit	Proposal 17166, cd-23-visit01 (11), failed										Fri Jun 07 21:01:09 GMT 2024
	Diagnostic Status: Warning										
	Scientific Instruments: STIS/NUV-MAMA, STIS/CCD										
	Special Requirements: (none)										
Diagnostics	(cd-23-visit01 (11)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN										
	(cd-23-visit01 (11)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN										
	(cd-23-visit01 (11)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN										
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections		Fluxes		Miscellaneous			
	(2)	CD-23-12296	RA: 15 27 13.2505 (231.8052104d) Dec: -23 36 19.40 (-23.60539d) Equinox: J2000	Proper Motion RA: -229.735 mas/yr Proper Motion Dec: -99.412 mas/yr Parallax: 0.0065603" Epoch of Position: 2015.5		V=10.849 GALEX NUV = 13.63; E(B-V) = 0.092		Reference Frame: ICRS			
	Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.										
	IUR updated coordinates to Gaia DR2 (ICRS, epoch=2015.5). Gaia DR2 6239162964995926016										
	Category=STAR										
	Description=[G V-IV, 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.180 9325)	(2) CD-23-12296	STIS/CCD, ACQ, F28X50LP	MIRROR				0.1 Secs (0.1 Secs)		
									[==>]	[1]	
	Comments: Saturates in 0.36 sec. 0.1 sec gives S/N = 296.										
	2	(STIS.ta.180 9326)	(2) CD-23-12296	STIS/CCD, ACQ/PEAK, 0.2X0.09	MIRROR				0.1 Secs (0.1 Secs)		
									[==>]	[1]	
	Comments: Saturates in 0.27 sec. 0.1 sec gives S/N = 361, or ~185,000 counts.										
	3	(STIS.sp.17 31955)	(2) CD-23-12296	STIS/NUV-MAMA, ACCUM, 0.2X0.09	E230H 2163 A				1800 Secs (1916 Secs)		
									[==>1916.0 Secs]	[1]	
	4	(STIS.sp.17 31955)	(2) CD-23-12296	STIS/NUV-MAMA, ACCUM, 0.2X0.09	E230H 2163 A				2800 Secs (2735 Secs)		
								[==>2735.0 Secs]	[2]		
5	(STIS.sp.17 31955)	(2) CD-23-12296	STIS/NUV-MAMA, ACCUM, 0.2X0.09	E230H 2163 A				2800 Secs (2735 Secs)			
								[==>2735.0 Secs]	[3]		

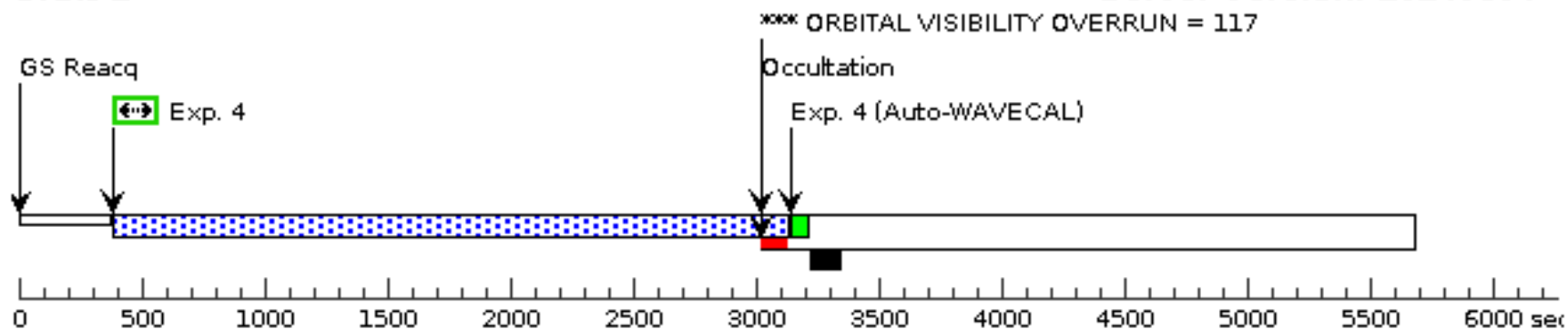
Orbit 1

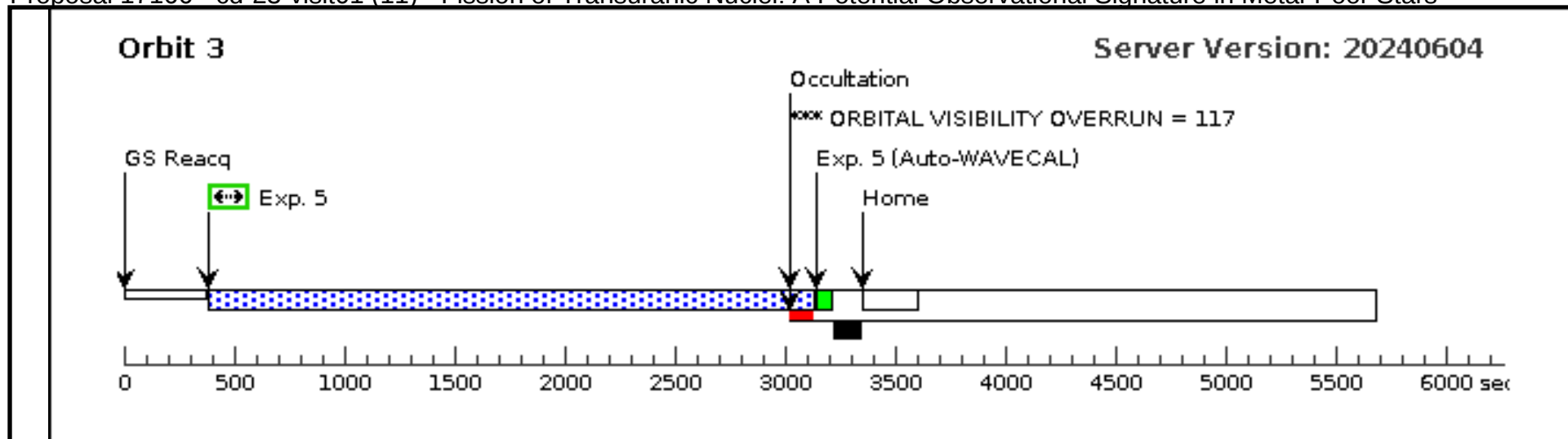
Server Version: 20240604



Orbit 2

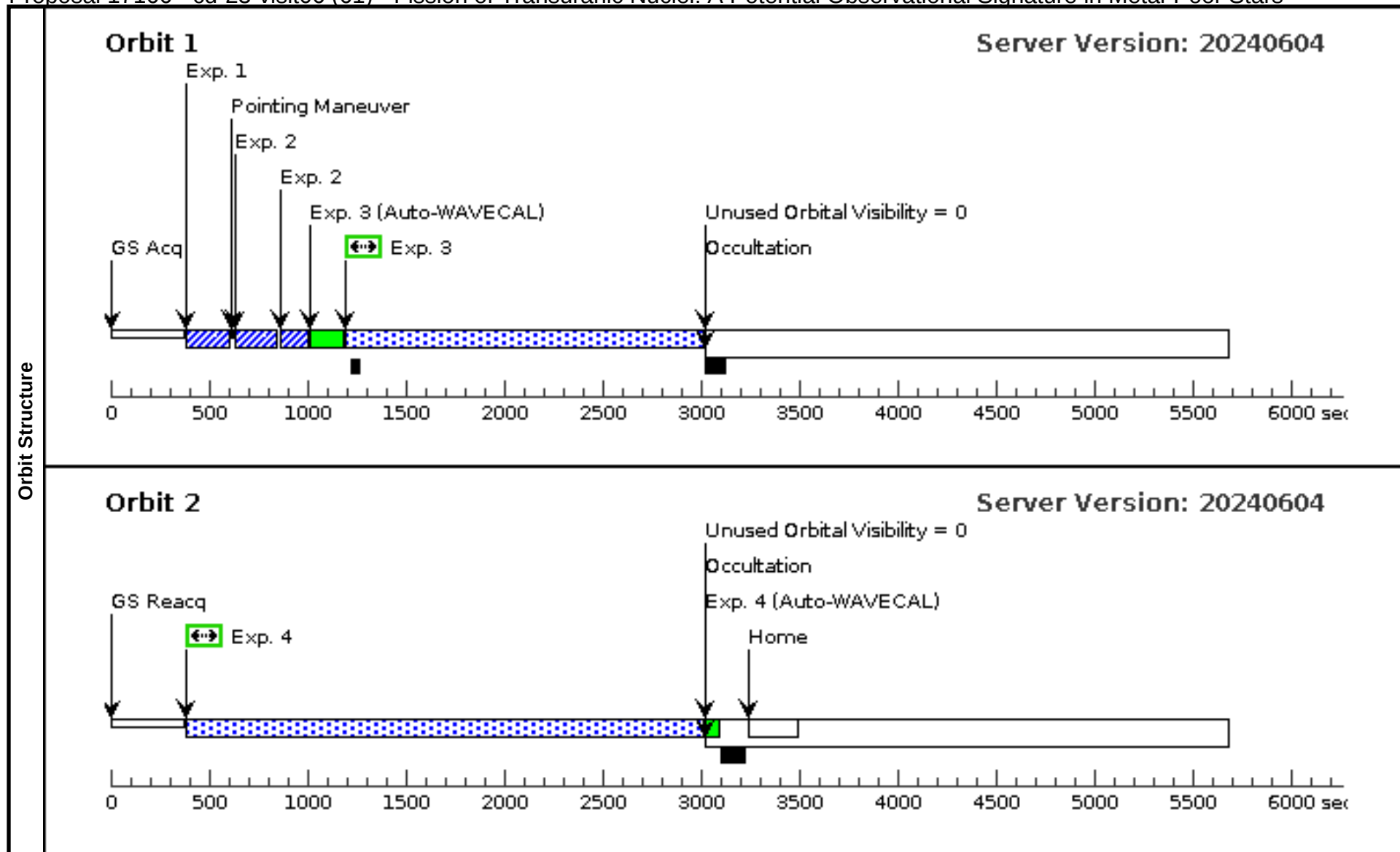
Server Version: 20240604





Proposal 17166 - cd-23-visit06 (61) - Fission of Transuranic Nuclei: A Potential Observational Signature in Metal-Poor Stars

Visit	Proposal 17166, cd-23-visit06 (61), implementation										Fri Jun 07 21:01:09 GMT 2024
	Diagnostic Status: No Diagnostics										
	Scientific Instruments: STIS/NUV-MAMA, STIS/CCD										
	Special Requirements: (none)										
	Comments: HOPR-approved (92713) additional visits to account for failed observations in visits 11 and 67, which suffered failed guide-star acquisitions, leading to some degraded data.										
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections		Fluxes		Miscellaneous			
	(2)	CD-23-12296	RA: 15 27 13.2505 (231.8052104d) Dec: -23 36 19.40 (-23.60539d) Equinox: J2000	Proper Motion RA: -229.735 mas/yr Proper Motion Dec: -99.412 mas/yr Parallax: 0.0065603" Epoch of Position: 2015.5		V=10.849 GALEX NUV = 13.63; E(B-V) = 0.092		Reference Frame: ICRS			
	Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.										
	IUR updated coordinates to Gaia DR2 (ICRS, epoch=2015.5). Gaia DR2 6239162964995926016										
	Category=STAR Description=[G V-IV, 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.180 9325)	(2) CD-23-12296	STIS/CCD, ACQ, F28X50LP	MIRROR				0.1 Secs (0.1 Secs)		
									[==>]		[1]
	Comments: Saturates in 0.36 sec. 0.1 sec gives S/N = 296.										
	(duplicate of visit 66)										
	2	(STIS.ta.180 9326)	(2) CD-23-12296	STIS/CCD, ACQ/PEAK, 0.2X0.09	MIRROR				0.1 Secs (0.1 Secs)		
									[==>]		[1]
	Comments: Saturates in 0.27 sec. 0.1 sec gives S/N = 361, or ~185,000 counts.										
	(duplicate of visit 66)										
	3	(STIS.sp.17 31955)	(2) CD-23-12296	STIS/NUV-MAMA, ACCUM, 0.2X0.09	E230H 2163 A					1800 Secs (1800 Secs)	
									[==>1800.0 Secs]		[1]
Comments: (duplicate of visit 66)											
4	(STIS.sp.17 31955)	(2) CD-23-12296	STIS/NUV-MAMA, ACCUM, 0.2X0.09	E230H 2163 A					2800 Secs (2618 Secs)		
									[==>2618.0 Secs]		[2]

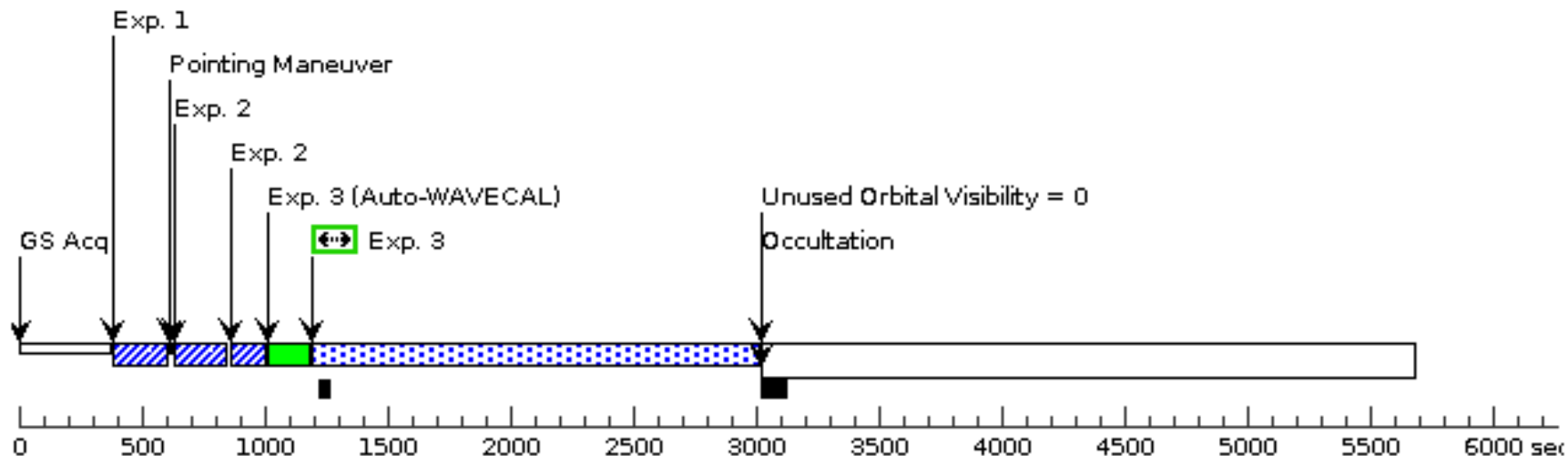


Proposal 17166 - cd-23-visit02 (12) - Fission of Transuranic Nuclei: A Potential Observational Signature in Metal-Poor Stars

Visit	Proposal 17166, cd-23-visit02 (12), implementation								Fri Jun 07 21:01:09 GMT 2024	
	Diagnostic Status: No Diagnostics									
	Scientific Instruments: STIS/NUV-MAMA, STIS/CCD									
	Special Requirements: (none)									
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections		Fluxes		Miscellaneous		
	(2)	CD-23-12296	RA: 15 27 13.2505 (231.8052104d) Dec: -23 36 19.40 (-23.60539d) Equinox: J2000	Proper Motion RA: -229.735 mas/yr Proper Motion Dec: -99.412 mas/yr Parallax: 0.0065603" Epoch of Position: 2015.5		V=10.849 GALEX NUV = 13.63; E(B-V) = 0.092		Reference Frame: ICRS		
	Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.									
	IUR updated coordinates to Gaia DR2 (ICRS, epoch=2015.5). Gaia DR2 6239162964995926016									
	Category=STAR Description=[G V-IV, 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.180 9325)	(2) CD-23-12296	STIS/CCD, ACQ, F28X50LP	MIRROR				0.1 Secs (0.1 Secs)	
									[==>]	[1]
	Comments: Saturates in 0.36 sec. 0.1 sec gives S/N = 296.									
	2	(STIS.ta.180 9326)	(2) CD-23-12296	STIS/CCD, ACQ/PEAK, 0.2X0.09	MIRROR				0.1 Secs (0.1 Secs)	
									[==>]	[1]
	Comments: Saturates in 0.27 sec. 0.1 sec gives S/N = 361, or ~185,000 counts.									
	3	(STIS.sp.17 31955)	(2) CD-23-12296	STIS/NUV-MAMA, ACCUM, 0.2X0.09	E230H 2163 A				1800 Secs (1800 Secs)	
									[==>1800.0 Secs]	[1]
	4	(STIS.sp.17 31955)	(2) CD-23-12296	STIS/NUV-MAMA, ACCUM, 0.2X0.09	E230H 2163 A				2800 Secs (2618 Secs)	
								[==>2618.0 Secs]	[2]	
5	(STIS.sp.17 31955)	(2) CD-23-12296	STIS/NUV-MAMA, ACCUM, 0.2X0.09	E230H 2163 A				2800 Secs (2618 Secs)		
								[==>2618.0 Secs]	[3]	

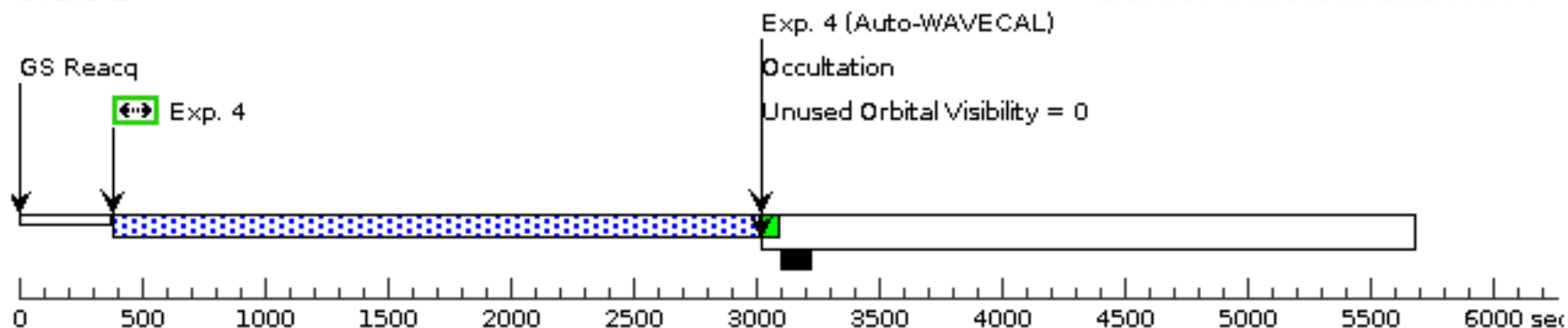
Orbit 1

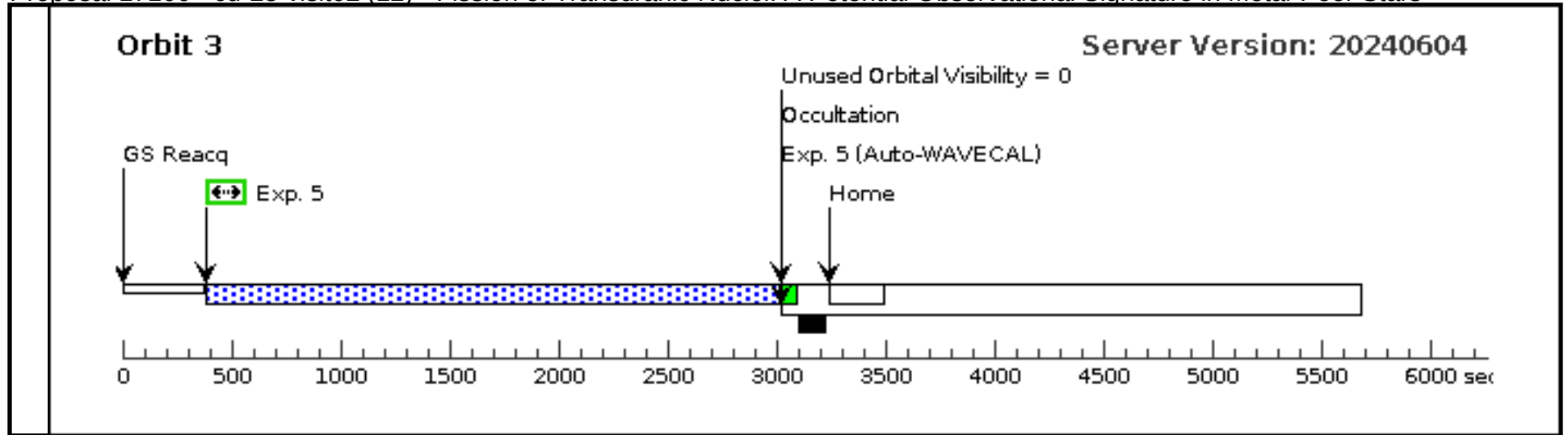
Server Version: 20240604



Orbit 2

Server Version: 20240604



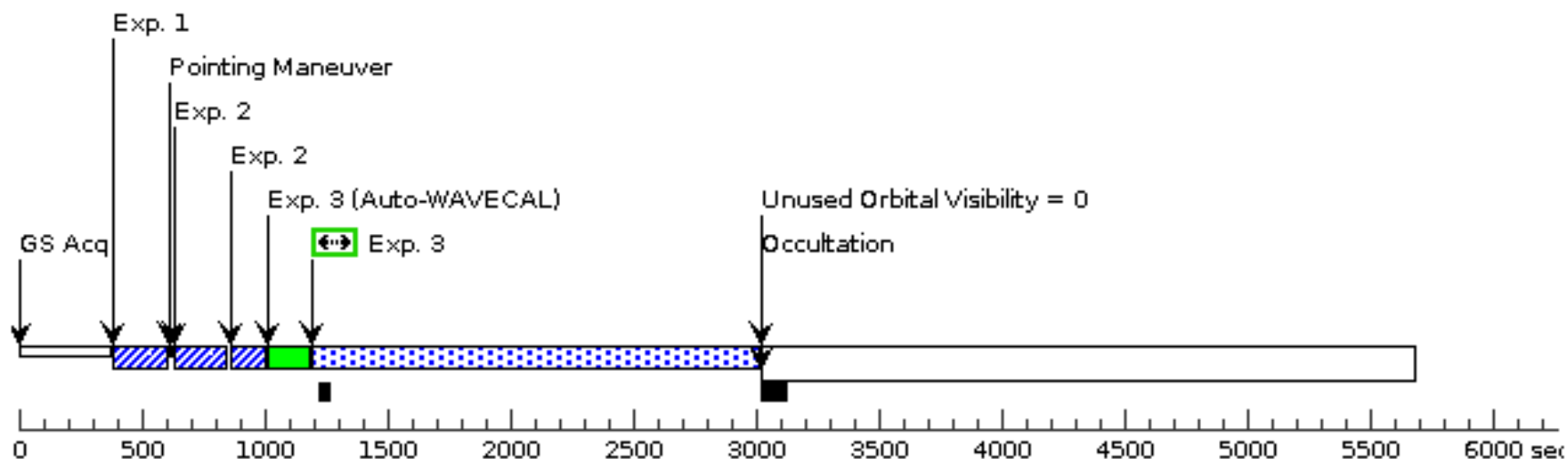


Proposal 17166 - cd-23-visit03 (13) - Fission of Transuranic Nuclei: A Potential Observational Signature in Metal-Poor Stars

Visit	Proposal 17166, cd-23-visit03 (13), implementation										Fri Jun 07 21:01:09 GMT 2024	
	Diagnostic Status: No Diagnostics											
	Scientific Instruments: STIS/NUV-MAMA, STIS/CCD											
	Special Requirements: (none)											
Fixed Targets	#	Name	Target Coordinates		Targ. Coord. Corrections		Fluxes		Miscellaneous			
	(2)	CD-23-12296	RA: 15 27 13.2505 (231.8052104d) Dec: -23 36 19.40 (-23.60539d) Equinox: J2000		Proper Motion RA: -229.735 mas/yr Proper Motion Dec: -99.412 mas/yr Parallax: 0.0065603" Epoch of Position: 2015.5		V=10.849 GALEX NUV = 13.63; E(B-V) = 0.092		Reference Frame: ICRS			
	Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.											
	IUR updated coordinates to Gaia DR2 (ICRS, epoch=2015.5). Gaia DR2 6239162964995926016											
	Category=STAR Description=[G V-IV, 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.180 9325)	(2) CD-23-12296	STIS/CCD, ACQ, F28X50LP	MIRROR				0.1 Secs (0.1 Secs)			
									[==>]		[1]	
	Comments: Saturates in 0.36 sec. 0.1 sec gives S/N = 296.											
	2	(STIS.ta.180 9326)	(2) CD-23-12296	STIS/CCD, ACQ/PEAK, 0.2X0.09	MIRROR				0.1 Secs (0.1 Secs)			
									[==>]		[1]	
	Comments: Saturates in 0.27 sec. 0.1 sec gives S/N = 361, or ~185,000 counts.											
	3	(STIS.sp.17 31955)	(2) CD-23-12296	STIS/NUV-MAMA, ACCUM, 0.2X0.09	E230H 2163 A				1800 Secs (1800 Secs)			
									[==>1800.0 Secs]		[1]	
	4	(STIS.sp.17 31955)	(2) CD-23-12296	STIS/NUV-MAMA, ACCUM, 0.2X0.09	E230H 2163 A				2800 Secs (2618 Secs)			
								[==>2618.0 Secs]		[2]		
5	(STIS.sp.17 31955)	(2) CD-23-12296	STIS/NUV-MAMA, ACCUM, 0.2X0.09	E230H 2163 A				2800 Secs (2618 Secs)				
								[==>2618.0 Secs]		[3]		

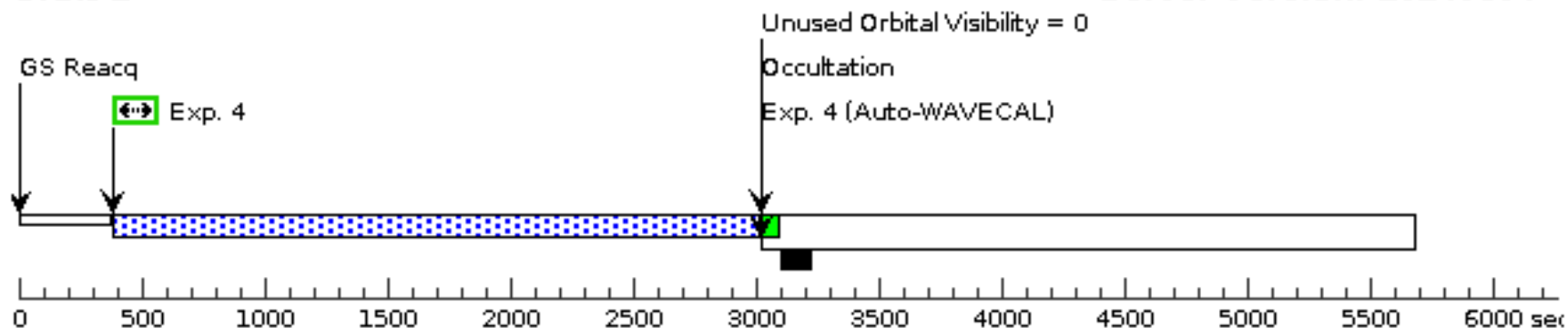
Orbit 1

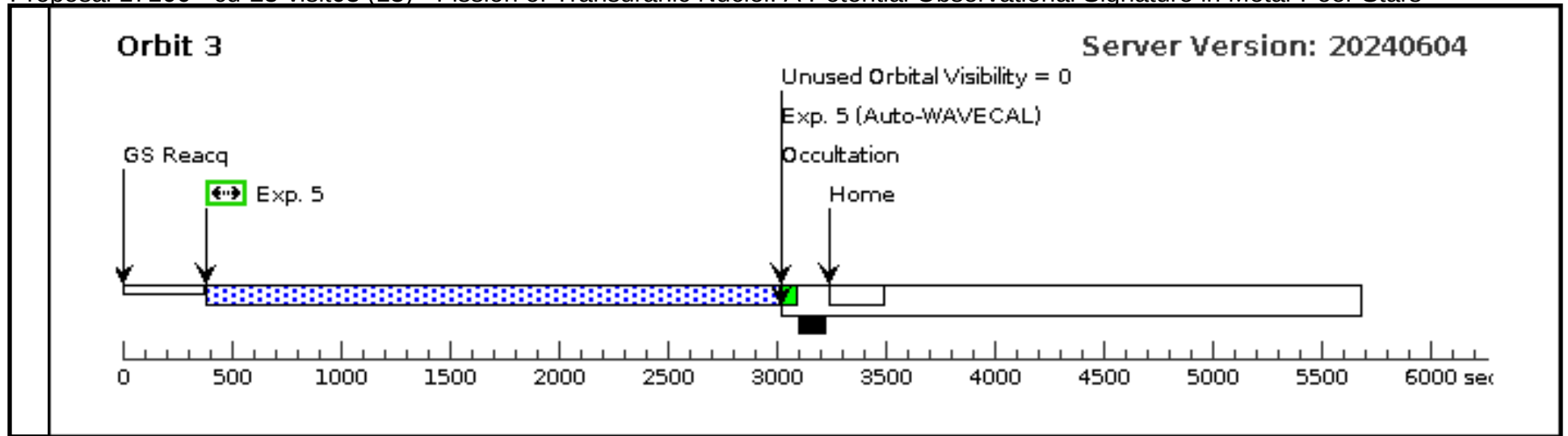
Server Version: 20240604



Orbit 2

Server Version: 20240604



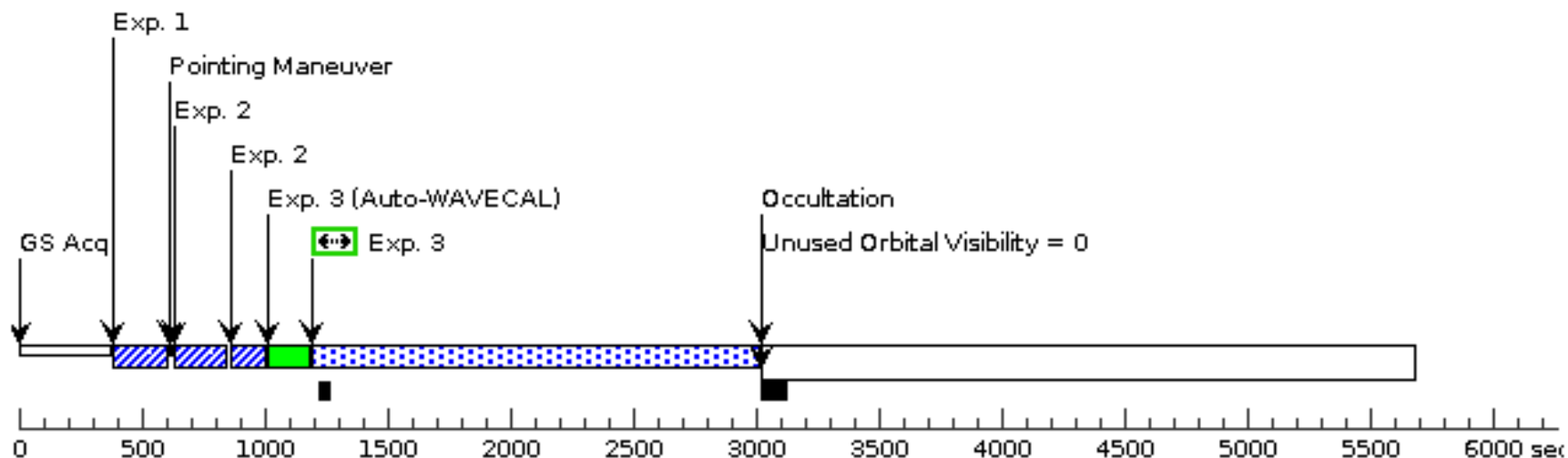


Proposal 17166 - cd-23-visit04 (14) - Fission of Transuranic Nuclei: A Potential Observational Signature in Metal-Poor Stars

Visit	Proposal 17166, cd-23-visit04 (14), implementation								Fri Jun 07 21:01:09 GMT 2024	
	Diagnostic Status: No Diagnostics									
	Scientific Instruments: STIS/NUV-MAMA, STIS/CCD									
	Special Requirements: (none)									
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections		Fluxes		Miscellaneous		
	(2)	CD-23-12296	RA: 15 27 13.2505 (231.8052104d) Dec: -23 36 19.40 (-23.60539d) Equinox: J2000	Proper Motion RA: -229.735 mas/yr Proper Motion Dec: -99.412 mas/yr Parallax: 0.0065603" Epoch of Position: 2015.5		V=10.849 GALEX NUV = 13.63; E(B-V) = 0.092		Reference Frame: ICRS		
	Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.									
	IUR updated coordinates to Gaia DR2 (ICRS, epoch=2015.5). Gaia DR2 6239162964995926016									
	Category=STAR Description=[G V-IV, 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.180 9325)	(2) CD-23-12296	STIS/CCD, ACQ, F28X50LP	MIRROR				0.1 Secs (0.1 Secs)	
									[==>]	[1]
	Comments: Saturates in 0.36 sec. 0.1 sec gives S/N = 296.									
	2	(STIS.ta.180 9326)	(2) CD-23-12296	STIS/CCD, ACQ/PEAK, 0.2X0.09	MIRROR				0.1 Secs (0.1 Secs)	
									[==>]	[1]
	Comments: Saturates in 0.27 sec. 0.1 sec gives S/N = 361, or ~185,000 counts.									
	3	(STIS.sp.17 31955)	(2) CD-23-12296	STIS/NUV-MAMA, ACCUM, 0.2X0.09	E230H 2163 A				1800 Secs (1800 Secs)	
									[==>1800.0 Secs]	[1]
	4	(STIS.sp.17 31955)	(2) CD-23-12296	STIS/NUV-MAMA, ACCUM, 0.2X0.09	E230H 2163 A				2800 Secs (2618 Secs)	
								[==>2618.0 Secs]	[2]	
5	(STIS.sp.17 31955)	(2) CD-23-12296	STIS/NUV-MAMA, ACCUM, 0.2X0.09	E230H 2163 A				2800 Secs (2618 Secs)		
								[==>2618.0 Secs]	[3]	

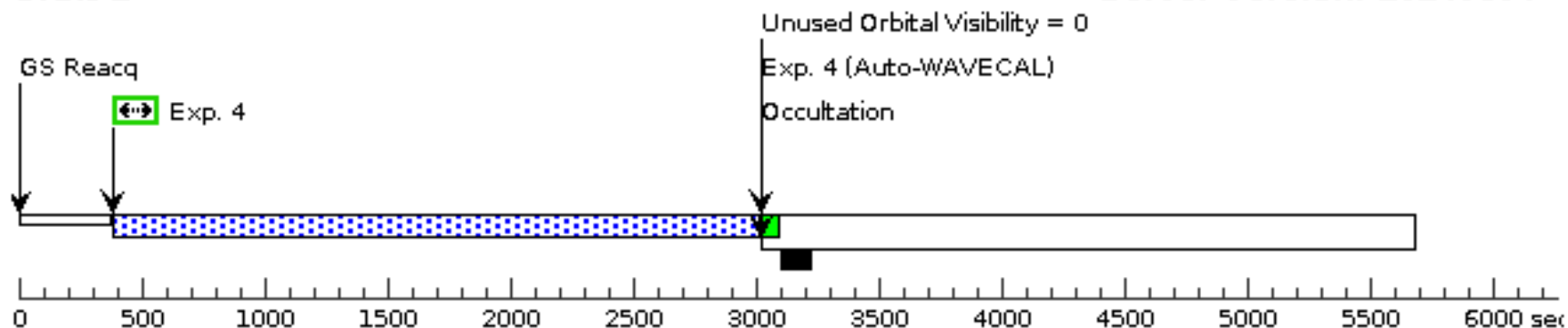
Orbit 1

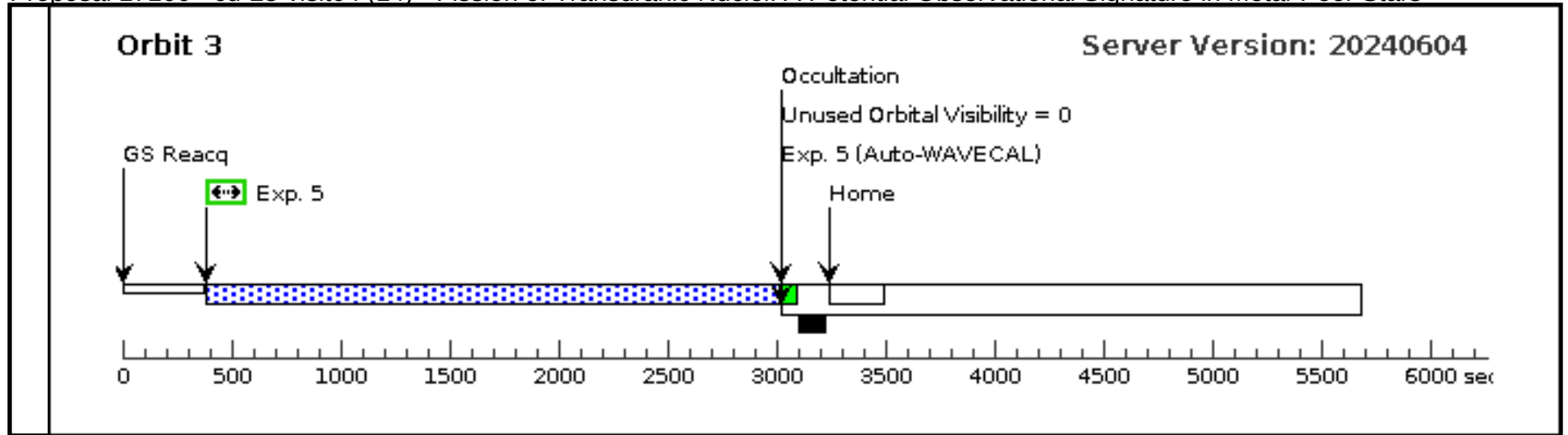
Server Version: 20240604



Orbit 2

Server Version: 20240604



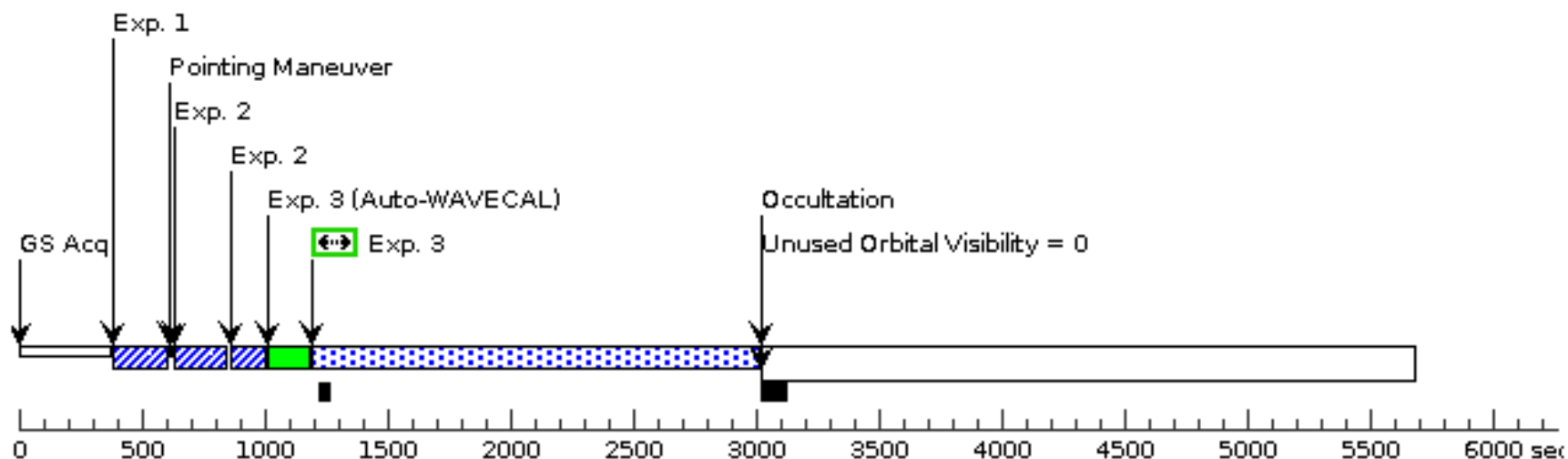


Proposal 17166 - cd-23-visit05 (15) - Fission of Transuranic Nuclei: A Potential Observational Signature in Metal-Poor Stars

Visit	Proposal 17166, cd-23-visit05 (15), implementation										Fri Jun 07 21:01:09 GMT 2024
	Diagnostic Status: No Diagnostics										
	Scientific Instruments: STIS/NUV-MAMA, STIS/CCD										
	Special Requirements: (none)										
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections			Fluxes	Miscellaneous			
	(2)	CD-23-12296	RA: 15 27 13.2505 (231.8052104d) Dec: -23 36 19.40 (-23.60539d) Equinox: J2000	Proper Motion RA: -229.735 mas/yr Proper Motion Dec: -99.412 mas/yr Parallax: 0.0065603" Epoch of Position: 2015.5			V=10.849 GALEX NUV = 13.63; E(B-V) = 0.092	Reference Frame: ICRS			
	Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.										
	IUR updated coordinates to Gaia DR2 (ICRS, epoch=2015.5). Gaia DR2 6239162964995926016										
	Category=STAR Description=[G V-IV, 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.180 9325)	(2) CD-23-12296	STIS/CCD, ACQ, F28X50LP	MIRROR				0.1 Secs (0.1 Secs)		
									[==>]	[1]	
	Comments: Saturates in 0.36 sec. 0.1 sec gives S/N = 296.										
	2	(STIS.ta.180 9326)	(2) CD-23-12296	STIS/CCD, ACQ/PEAK, 0.2X0.09	MIRROR				0.1 Secs (0.1 Secs)		
									[==>]	[1]	
	Comments: Saturates in 0.27 sec. 0.1 sec gives S/N = 361, or ~185,000 counts.										
	3	(STIS.sp.17 31955)	(2) CD-23-12296	STIS/NUV-MAMA, ACCUM, 0.2X0.09	E230H 2163 A				1800 Secs (1800 Secs)		
									[==>1800.0 Secs]	[1]	
	4	(STIS.sp.17 31955)	(2) CD-23-12296	STIS/NUV-MAMA, ACCUM, 0.2X0.09	E230H 2163 A				2800 Secs (2618 Secs)		
								[==>2618.0 Secs]	[2]		
5	(STIS.sp.17 31955)	(2) CD-23-12296	STIS/NUV-MAMA, ACCUM, 0.2X0.09	E230H 2163 A				2800 Secs (2618 Secs)			
								[==>2618.0 Secs]	[3]		

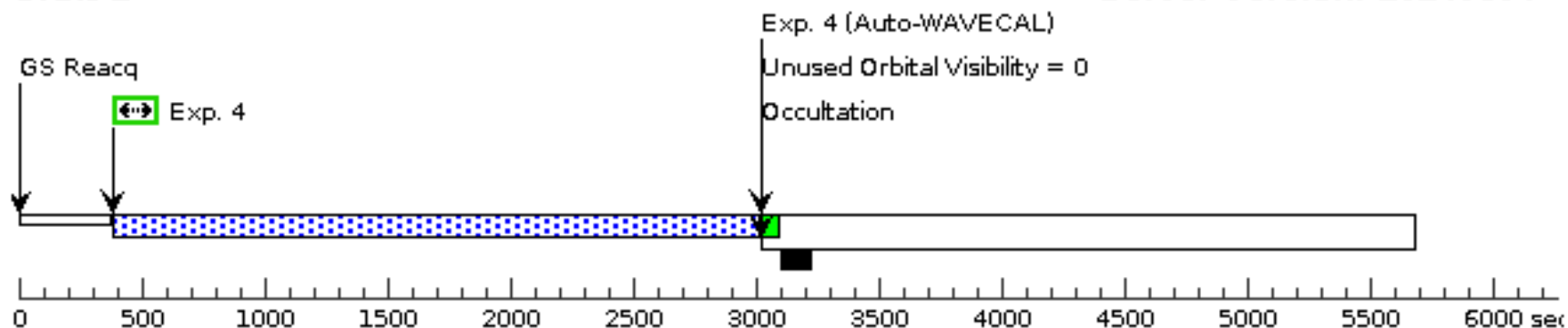
Orbit 1

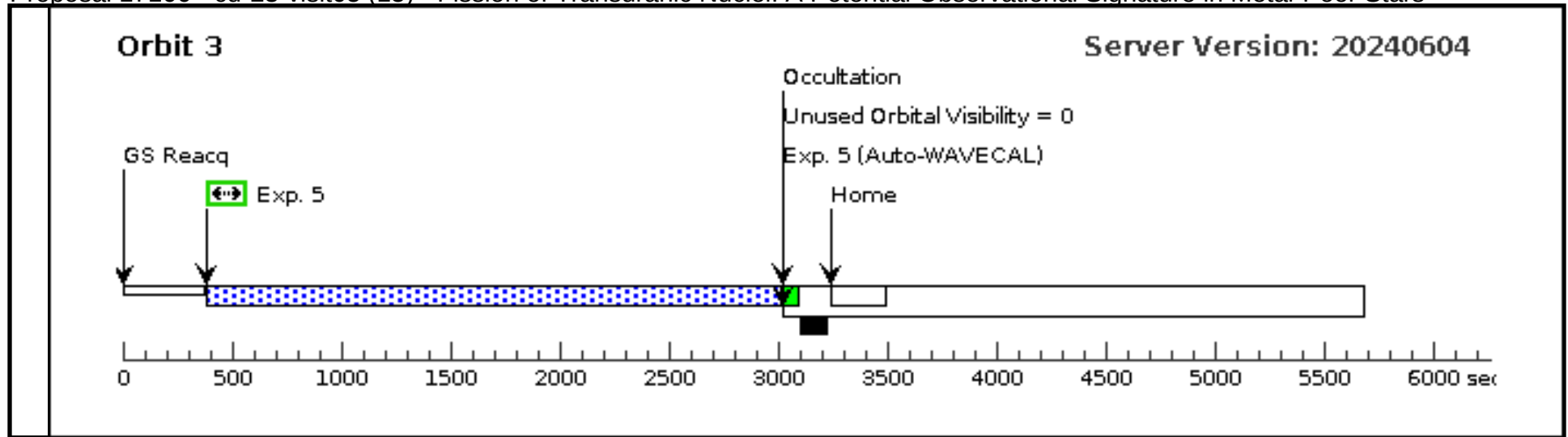
Server Version: 20240604



Orbit 2

Server Version: 20240604



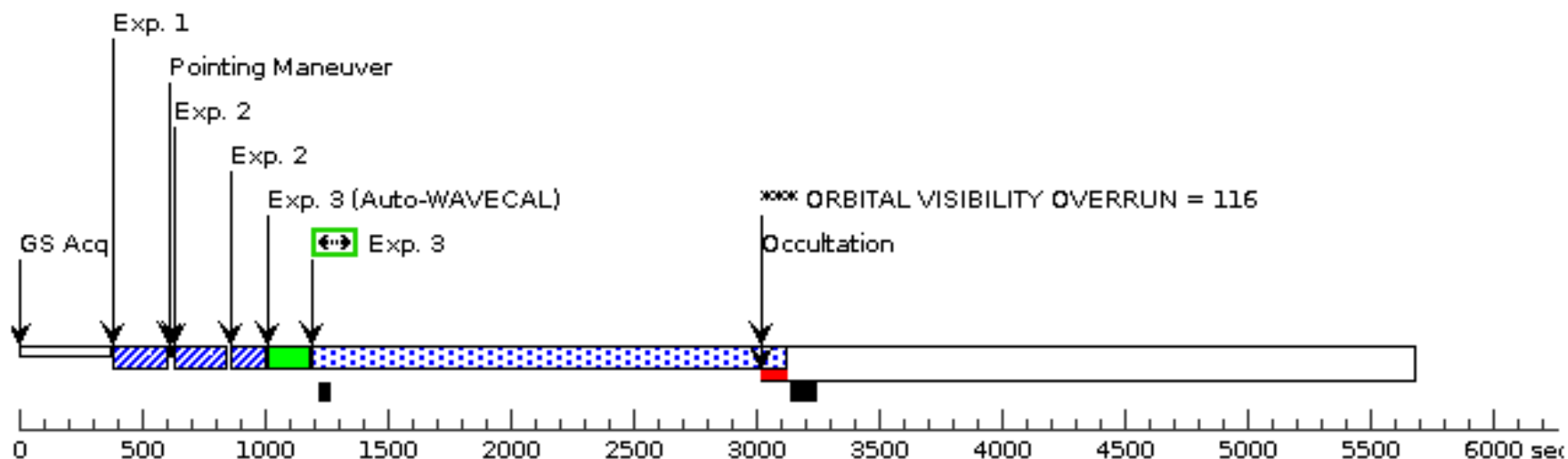


Proposal 17166 - cd-23-visit06 (16) - Fission of Transuranic Nuclei: A Potential Observational Signature in Metal-Poor Stars

Visit	Proposal 17166, cd-23-visit06 (16), failed										Fri Jun 07 21:01:09 GMT 2024	
	Diagnostic Status: Warning											
	Scientific Instruments: STIS/NUV-MAMA, STIS/CCD											
	Special Requirements: (none)											
Diagnostics	(cd-23-visit06 (16)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN											
	(cd-23-visit06 (16)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN											
	(cd-23-visit06 (16)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN											
Fixed Targets	#	Name	Target Coordinates		Targ. Coord. Corrections		Fluxes		Miscellaneous			
	(2)	CD-23-12296	RA: 15 27 13.2505 (231.8052104d) Dec: -23 36 19.40 (-23.60539d) Equinox: J2000		Proper Motion RA: -229.735 mas/yr Proper Motion Dec: -99.412 mas/yr Parallax: 0.0065603" Epoch of Position: 2015.5		V=10.849 GALEX NUV = 13.63; E(B-V) = 0.092		Reference Frame: ICRS			
	Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.											
	IUR updated coordinates to Gaia DR2 (ICRS, epoch=2015.5). Gaia DR2 6239162964995926016											
	Category=STAR											
	Description=[G V-IV, 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.180 9325)	(2) CD-23-12296	STIS/CCD, ACQ, F28X50LP		MIRROR				0.1 Secs (0.1 Secs)		
										[==>]		[1]
	Comments: Saturates in 0.36 sec. 0.1 sec gives S/N = 296.											
	2	(STIS.ta.180 9326)	(2) CD-23-12296	STIS/CCD, ACQ/PEAK, 0.2X0.09		MIRROR				0.1 Secs (0.1 Secs)		
										[==>]		[1]
	Comments: Saturates in 0.27 sec. 0.1 sec gives S/N = 361, or ~185,000 counts.											
	3	(STIS.sp.17 31955)	(2) CD-23-12296	STIS/NUV-MAMA, ACCUM, 0.2X0.09		E230H 2163 A				1800 Secs (1916 Secs)		
										[==>1916.0 Secs]		[1]
	4	(STIS.sp.17 31955)	(2) CD-23-12296	STIS/NUV-MAMA, ACCUM, 0.2X0.09		E230H 2163 A				2800 Secs (2735 Secs)		
										[==>2735.0 Secs]		[2]
	5	(STIS.sp.17 31955)	(2) CD-23-12296	STIS/NUV-MAMA, ACCUM, 0.2X0.09		E230H 2163 A				2800 Secs (2735 Secs)		
									[==>2735.0 Secs]		[3]	

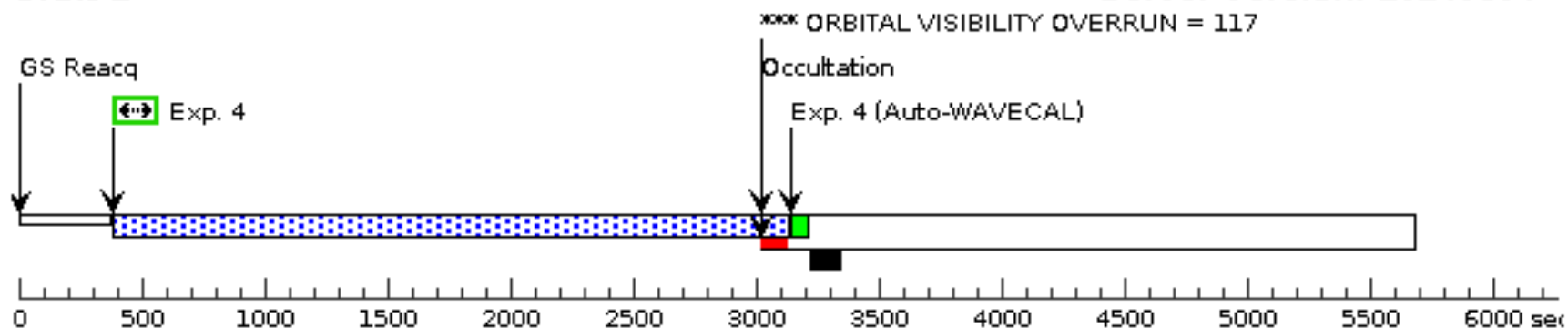
Orbit 1

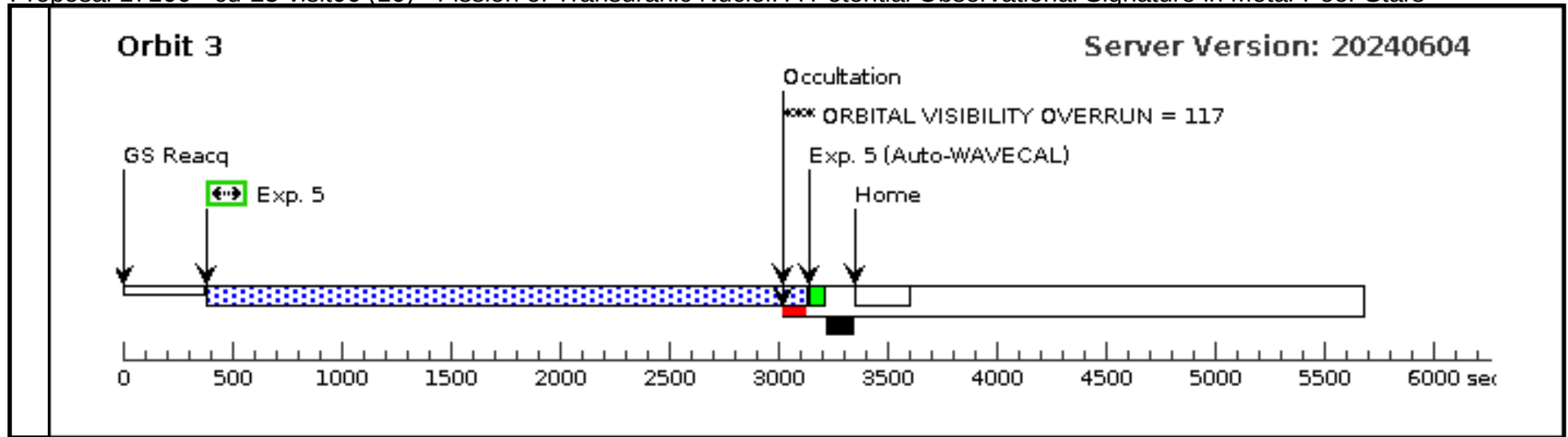
Server Version: 20240604



Orbit 2

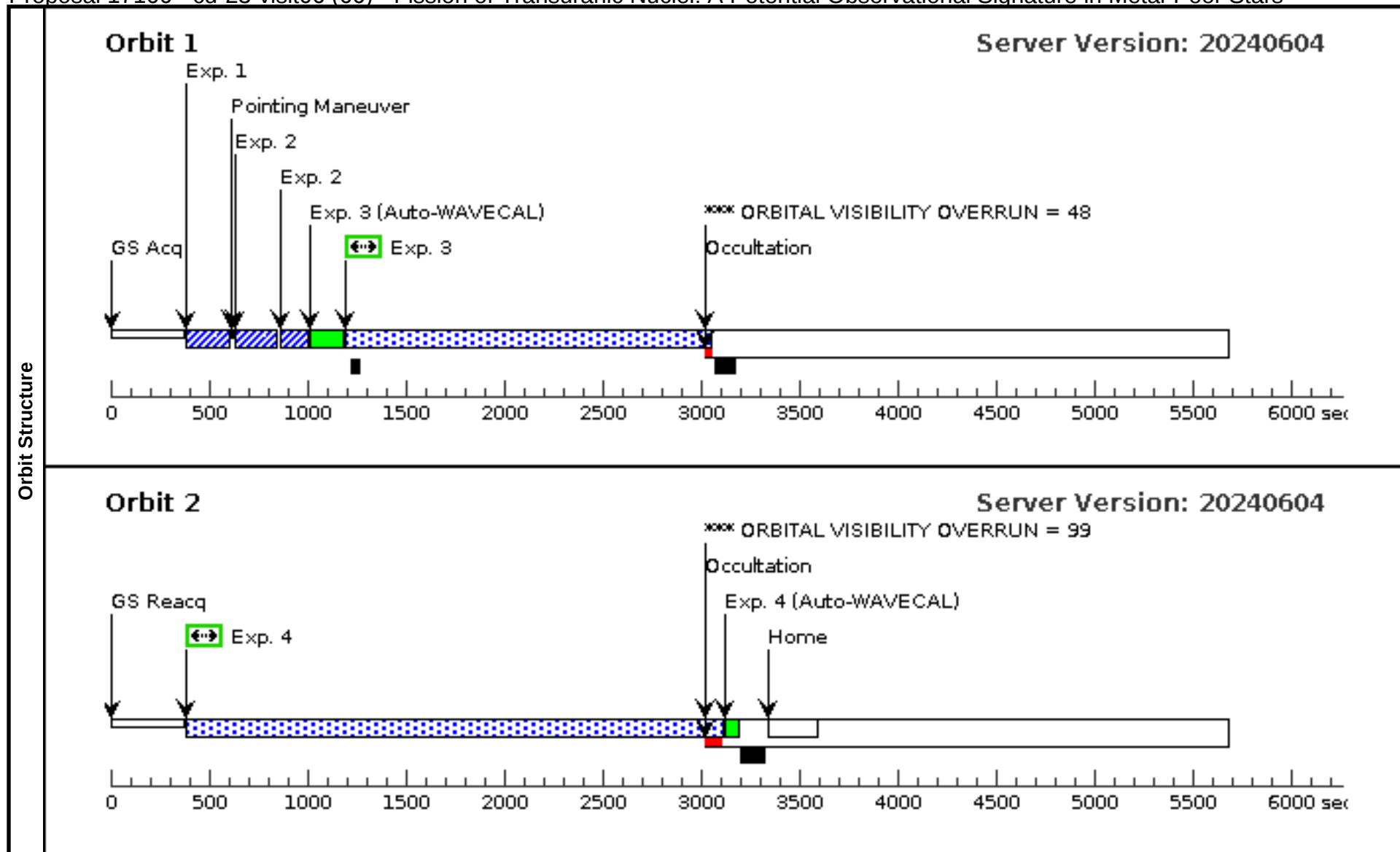
Server Version: 20240604





Proposal 17166 - cd-23-visit06 (66) - Fission of Transuranic Nuclei: A Potential Observational Signature in Metal-Poor Stars

Visit	Proposal 17166, cd-23-visit06 (66), completed										Fri Jun 07 21:01:09 GMT 2024
	Diagnostic Status: Warning										
	Scientific Instruments: STIS/NUV-MAMA, STIS/CCD										
	Special Requirements: (none)										
Diagnostics	(cd-23-visit06 (66)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN										
	(cd-23-visit06 (66)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN										
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections			Fluxes	Miscellaneous			
	(2)	CD-23-12296	RA: 15 27 13.2505 (231.8052104d) Dec: -23 36 19.40 (-23.60539d) Equinox: J2000	Proper Motion RA: -229.735 mas/yr Proper Motion Dec: -99.412 mas/yr Parallax: 0.0065603" Epoch of Position: 2015.5			V=10.849 GALEX NUV = 13.63; E(B-V) = 0.092	Reference Frame: ICRS			
	Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.										
	IUR updated coordinates to Gaia DR2 (ICRS, epoch=2015.5). Gaia DR2 6239162964995926016										
	Category=STAR										
	Description=[G V-IV, 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.180 9325)	(2) CD-23-12296	STIS/CCD, ACQ, F28X50LP	MIRROR				0.1 Secs (0.1 Secs)		
									[==>]	[1]	
	Comments: Saturates in 0.36 sec. 0.1 sec gives S/N = 296.										
	2	(STIS.ta.180 9326)	(2) CD-23-12296	STIS/CCD, ACQ/PEAK, 0.2X0.09	MIRROR				0.1 Secs (0.1 Secs)		
									[==>]	[1]	
	Comments: Saturates in 0.27 sec. 0.1 sec gives S/N = 361, or ~185,000 counts.										
	3	(STIS.sp.17 31955)	(2) CD-23-12296	STIS/NUV-MAMA, ACCUM, 0.2X0.09	E230H 2163 A				1800 Secs (1848 Secs)		
									[==>1848.0 Secs]	[1]	
	4	(STIS.sp.17 31955)	(2) CD-23-12296	STIS/NUV-MAMA, ACCUM, 0.2X0.09	E230H 2163 A				2800 Secs (2717 Secs)		
								[==>2717.0 Secs]	[2]		

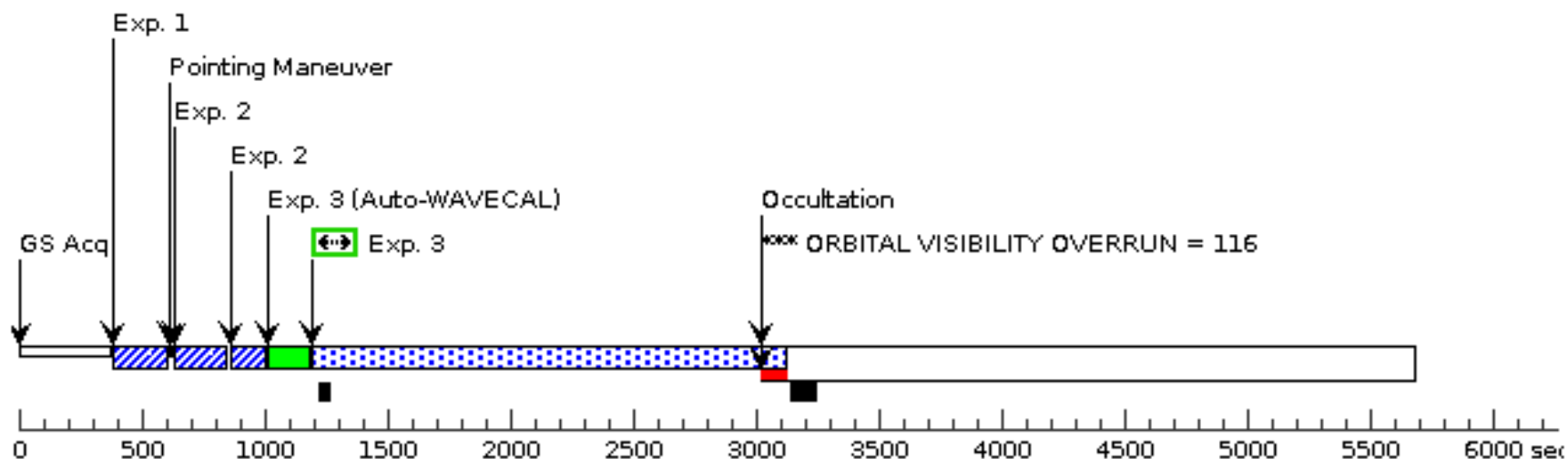


Proposal 17166 - cd-23-visit07 (17) - Fission of Transuranic Nuclei: A Potential Observational Signature in Metal-Poor Stars

Visit	Proposal 17166, cd-23-visit07 (17), failed										Fri Jun 07 21:01:09 GMT 2024
	Diagnostic Status: Warning										
	Scientific Instruments: STIS/NUV-MAMA, STIS/CCD										
	Special Requirements: (none)										
Diagnostics	(cd-23-visit07 (17)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN										
	(cd-23-visit07 (17)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN										
	(cd-23-visit07 (17)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN										
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections		Fluxes		Miscellaneous			
	(2)	CD-23-12296	RA: 15 27 13.2505 (231.8052104d) Dec: -23 36 19.40 (-23.60539d) Equinox: J2000	Proper Motion RA: -229.735 mas/yr Proper Motion Dec: -99.412 mas/yr Parallax: 0.0065603" Epoch of Position: 2015.5		V=10.849 GALEX NUV = 13.63; E(B-V) = 0.092		Reference Frame: ICRS			
	Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.										
	IUR updated coordinates to Gaia DR2 (ICRS, epoch=2015.5). Gaia DR2 6239162964995926016										
	Category=STAR										
	Description=[G V-IV, 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.180 9325)	(2) CD-23-12296	STIS/CCD, ACQ, F28X50LP	MIRROR				0.1 Secs (0.1 Secs)		
									[==>]	[1]	
	Comments: Saturates in 0.36 sec. 0.1 sec gives S/N = 296.										
	2	(STIS.ta.180 9326)	(2) CD-23-12296	STIS/CCD, ACQ/PEAK, 0.2X0.09	MIRROR				0.1 Secs (0.1 Secs)		
									[==>]	[1]	
	Comments: Saturates in 0.27 sec. 0.1 sec gives S/N = 361, or ~185,000 counts.										
	3	(STIS.sp.17 31955)	(2) CD-23-12296	STIS/NUV-MAMA, ACCUM, 0.2X0.09	E230H 2163 A				1800 Secs (1916 Secs)		
									[==>1916.0 Secs]	[1]	
	4	(STIS.sp.17 31955)	(2) CD-23-12296	STIS/NUV-MAMA, ACCUM, 0.2X0.09	E230H 2163 A				2800 Secs (2735 Secs)		
									[==>2735.0 Secs]	[2]	
	5	(STIS.sp.17 31955)	(2) CD-23-12296	STIS/NUV-MAMA, ACCUM, 0.2X0.09	E230H 2163 A				2800 Secs (2735 Secs)		
								[==>2735.0 Secs]	[3]		

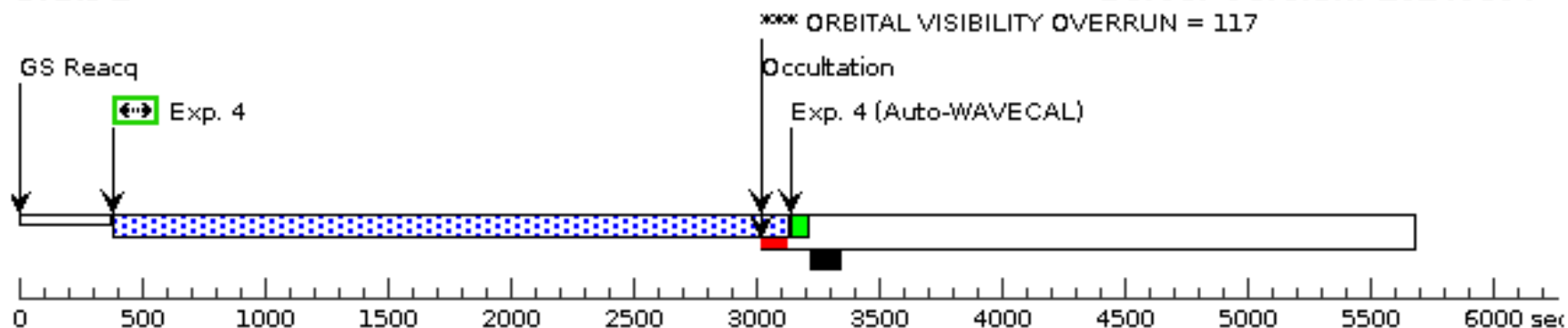
Orbit 1

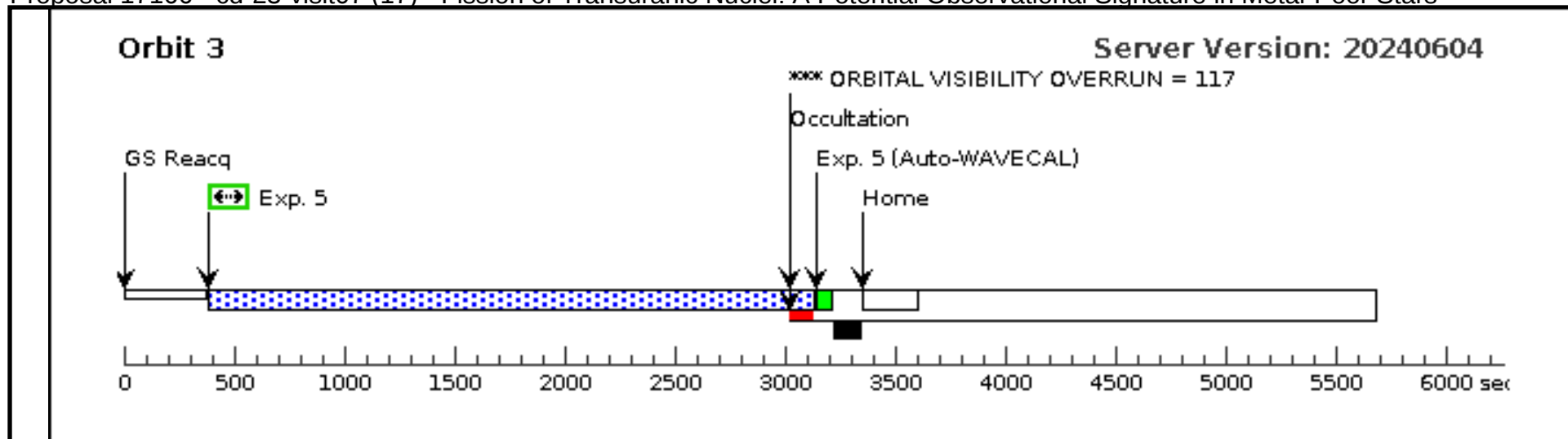
Server Version: 20240604



Orbit 2

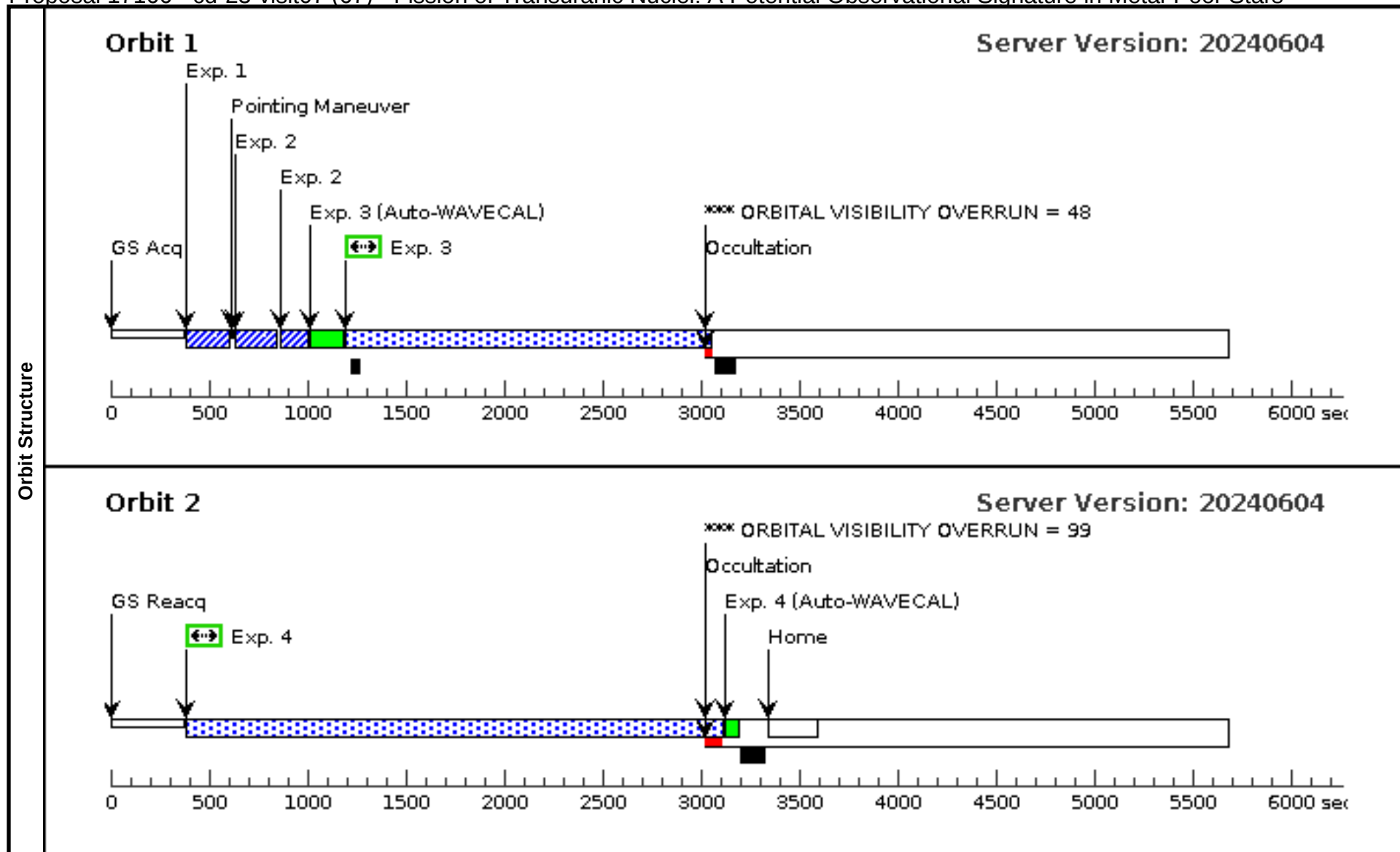
Server Version: 20240604





Proposal 17166 - cd-23-visit07 (67) - Fission of Transuranic Nuclei: A Potential Observational Signature in Metal-Poor Stars

Visit	Proposal 17166, cd-23-visit07 (67), failed										Fri Jun 07 21:01:09 GMT 2024	
	Diagnostic Status: Warning											
	Scientific Instruments: STIS/NUV-MAMA, STIS/CCD											
	Special Requirements: (none)											
Diagnostics	(cd-23-visit07 (67)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN											
	(cd-23-visit07 (67)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN											
Fixed Targets	#	Name	Target Coordinates		Targ. Coord. Corrections		Fluxes		Miscellaneous			
	(2)	CD-23-12296	RA: 15 27 13.2505 (231.8052104d) Dec: -23 36 19.40 (-23.60539d) Equinox: J2000		Proper Motion RA: -229.735 mas/yr Proper Motion Dec: -99.412 mas/yr Parallax: 0.0065603" Epoch of Position: 2015.5		V=10.849 GALEX NUV = 13.63; E(B-V) = 0.092		Reference Frame: ICRS			
	Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.											
	IUR updated coordinates to Gaia DR2 (ICRS, epoch=2015.5). Gaia DR2 6239162964995926016											
	Category=STAR											
	Description=[G V-IV, 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.180 9325)	(2) CD-23-12296	STIS/CCD, ACQ, F28X50LP		MIRROR				0.1 Secs (0.1 Secs)		
											[==>]	[1]
	Comments: Saturates in 0.36 sec. 0.1 sec gives S/N = 296.											
	2	(STIS.ta.180 9326)	(2) CD-23-12296	STIS/CCD, ACQ/PEAK, 0.2X0.09		MIRROR				0.1 Secs (0.1 Secs)		
											[==>]	[1]
	Comments: Saturates in 0.27 sec. 0.1 sec gives S/N = 361, or ~185,000 counts.											
	3	(STIS.sp.17 31955)	(2) CD-23-12296	STIS/NUV-MAMA, ACCUM, 0.2X0.09		E230H 2163 A				1800 Secs (1848 Secs)		
											[==>1848.0 Secs]	[1]
	4	(STIS.sp.17 31955)	(2) CD-23-12296	STIS/NUV-MAMA, ACCUM, 0.2X0.09		E230H 2163 A				2800 Secs (2717 Secs)		
										[==>2717.0 Secs]	[2]	

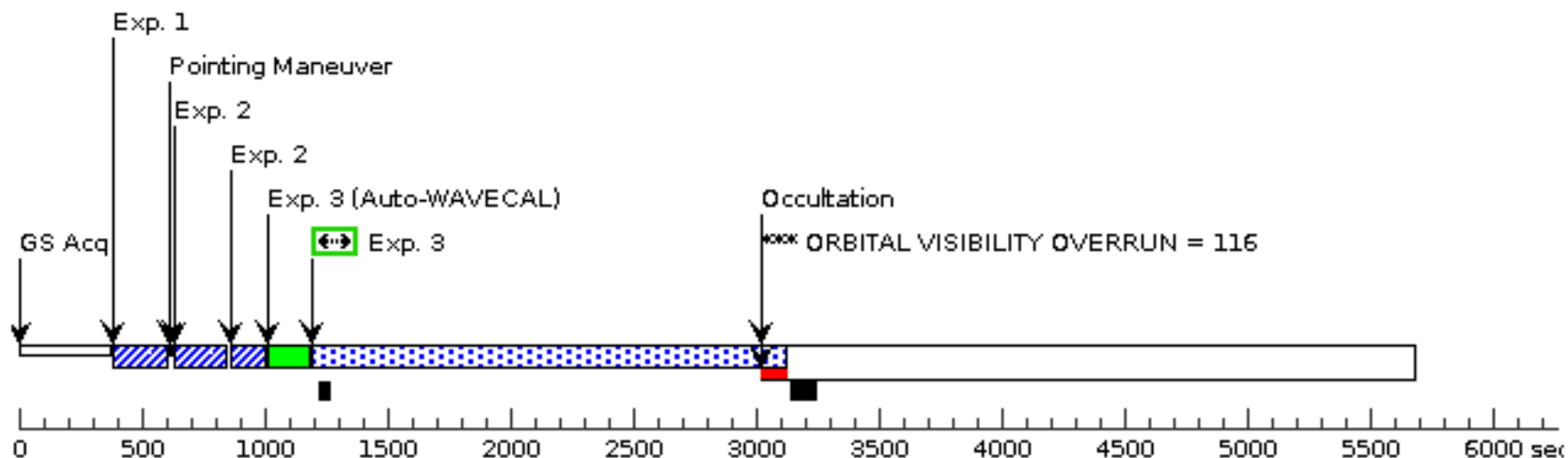


Proposal 17166 - cd-23-visit08 (18) - Fission of Transuranic Nuclei: A Potential Observational Signature in Metal-Poor Stars

Visit	Proposal 17166, cd-23-visit08 (18), completed										Fri Jun 07 21:01:09 GMT 2024
	Diagnostic Status: Warning										
	Scientific Instruments: STIS/NUV-MAMA, STIS/CCD										
	Special Requirements: (none)										
Diagnostics	(cd-23-visit08 (18)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN										
	(cd-23-visit08 (18)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN										
	(cd-23-visit08 (18)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN										
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections			Fluxes	Miscellaneous			
	(2)	CD-23-12296	RA: 15 27 13.2505 (231.8052104d) Dec: -23 36 19.40 (-23.60539d) Equinox: J2000	Proper Motion RA: -229.735 mas/yr Proper Motion Dec: -99.412 mas/yr Parallax: 0.0065603" Epoch of Position: 2015.5			V=10.849 GALEX NUV = 13.63; E(B-V) = 0.092	Reference Frame: ICRS			
	Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.										
	IUR updated coordinates to Gaia DR2 (ICRS, epoch=2015.5). Gaia DR2 6239162964995926016										
	Category=STAR										
	Description=[G V-IV, 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.180 9325)	(2) CD-23-12296	STIS/CCD, ACQ, F28X50LP	MIRROR				0.1 Secs (0.1 Secs)		
									[==>]	[1]	
	Comments: Saturates in 0.36 sec. 0.1 sec gives S/N = 296.										
	2	(STIS.ta.180 9326)	(2) CD-23-12296	STIS/CCD, ACQ/PEAK, 0.2X0.09	MIRROR				0.1 Secs (0.1 Secs)		
									[==>]	[1]	
	Comments: Saturates in 0.27 sec. 0.1 sec gives S/N = 361, or ~185,000 counts.										
	3	(STIS.sp.17 31955)	(2) CD-23-12296	STIS/NUV-MAMA, ACCUM, 0.2X0.09	E230H 2163 A				1800 Secs (1916 Secs)		
									[==>1916.0 Secs]	[1]	
	4	(STIS.sp.17 31955)	(2) CD-23-12296	STIS/NUV-MAMA, ACCUM, 0.2X0.09	E230H 2163 A				2800 Secs (2735 Secs)		
									[==>2735.0 Secs]	[2]	
	5	(STIS.sp.17 31955)	(2) CD-23-12296	STIS/NUV-MAMA, ACCUM, 0.2X0.09	E230H 2163 A				2800 Secs (2735 Secs)		
								[==>2735.0 Secs]	[3]		

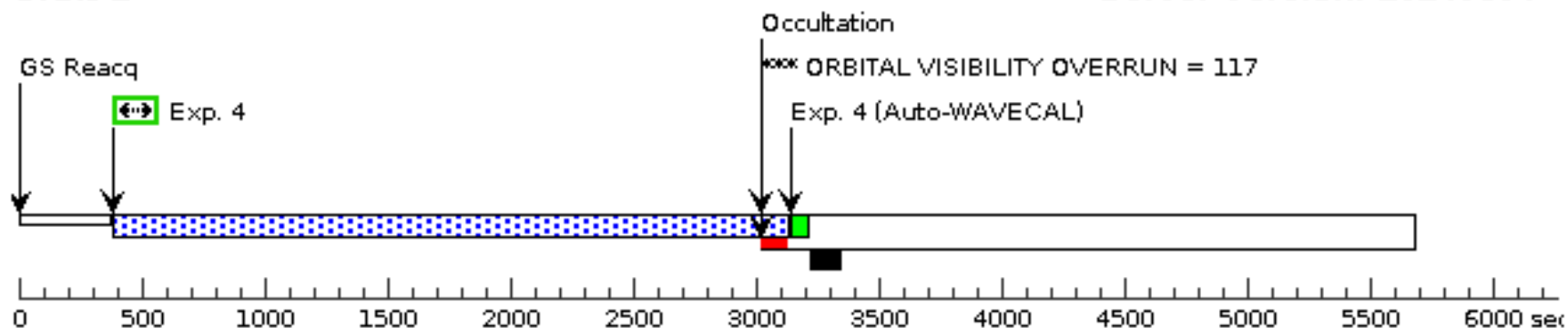
Orbit 1

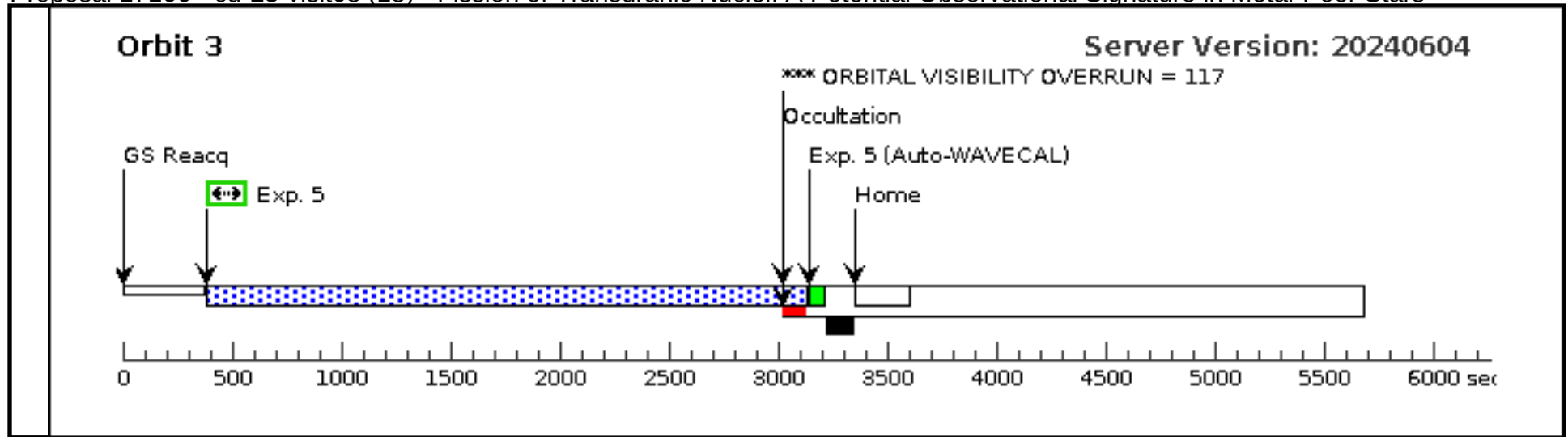
Server Version: 20240604



Orbit 2

Server Version: 20240604



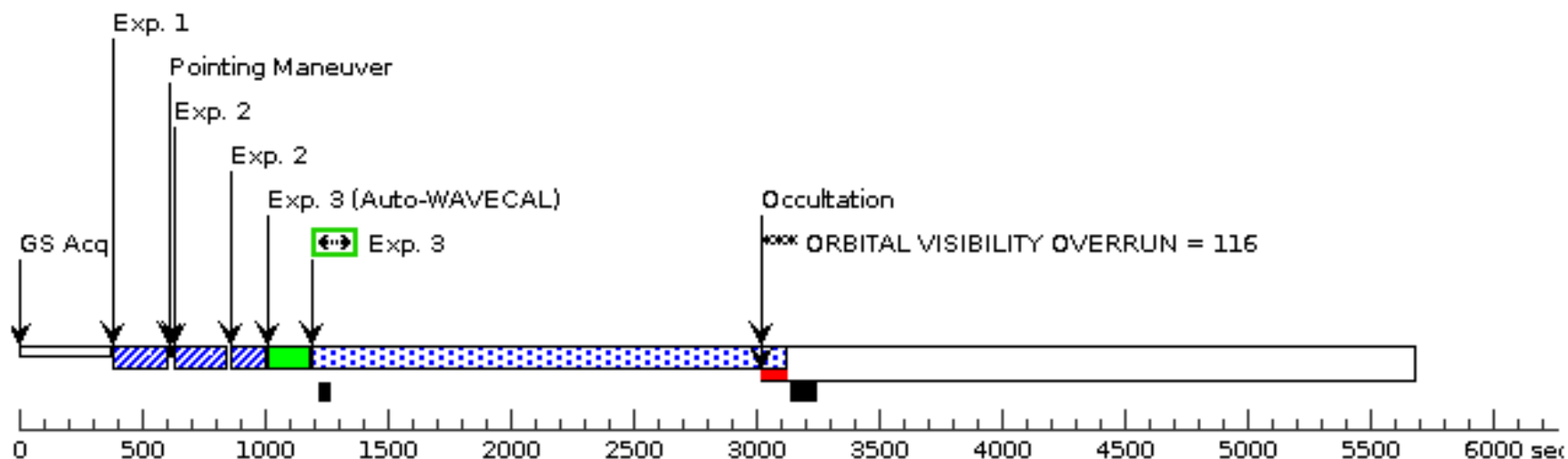


Proposal 17166 - cd-23-visit09 (19) - Fission of Transuranic Nuclei: A Potential Observational Signature in Metal-Poor Stars

Visit	Proposal 17166, cd-23-visit09 (19), completed										Fri Jun 07 21:01:09 GMT 2024	
	Diagnostic Status: Warning											
	Scientific Instruments: STIS/NUV-MAMA, STIS/CCD											
	Special Requirements: (none)											
Diagnostics	(cd-23-visit09 (19)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN											
	(cd-23-visit09 (19)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN											
	(cd-23-visit09 (19)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN											
Fixed Targets	#	Name	Target Coordinates		Targ. Coord. Corrections		Fluxes		Miscellaneous			
	(2)	CD-23-12296	RA: 15 27 13.2505 (231.8052104d) Dec: -23 36 19.40 (-23.60539d) Equinox: J2000		Proper Motion RA: -229.735 mas/yr Proper Motion Dec: -99.412 mas/yr Parallax: 0.0065603" Epoch of Position: 2015.5		V=10.849 GALEX NUV = 13.63; E(B-V) = 0.092		Reference Frame: ICRS			
	Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.											
	IUR updated coordinates to Gaia DR2 (ICRS, epoch=2015.5). Gaia DR2 6239162964995926016											
	Category=STAR											
	Description=[G V-IV, 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.180 9325)	(2) CD-23-12296	STIS/CCD, ACQ, F28X50LP		MIRROR				0.1 Secs (0.1 Secs)		
											[==>]	[1]
	Comments: Saturates in 0.36 sec. 0.1 sec gives S/N = 296.											
	2	(STIS.ta.180 9326)	(2) CD-23-12296	STIS/CCD, ACQ/PEAK, 0.2X0.09		MIRROR				0.1 Secs (0.1 Secs)		
											[==>]	[1]
	Comments: Saturates in 0.27 sec. 0.1 sec gives S/N = 361, or ~185,000 counts.											
	3	(STIS.sp.17 31955)	(2) CD-23-12296	STIS/NUV-MAMA, ACCUM, 0.2X0.09		E230H 2163 A				1800 Secs (1916 Secs)		
											[==>1916.0 Secs]	[1]
	4	(STIS.sp.17 31955)	(2) CD-23-12296	STIS/NUV-MAMA, ACCUM, 0.2X0.09		E230H 2163 A				2800 Secs (2735 Secs)		
											[==>2735.0 Secs]	[2]
	5	(STIS.sp.17 31955)	(2) CD-23-12296	STIS/NUV-MAMA, ACCUM, 0.2X0.09		E230H 2163 A				2800 Secs (2735 Secs)		
										[==>2735.0 Secs]	[3]	

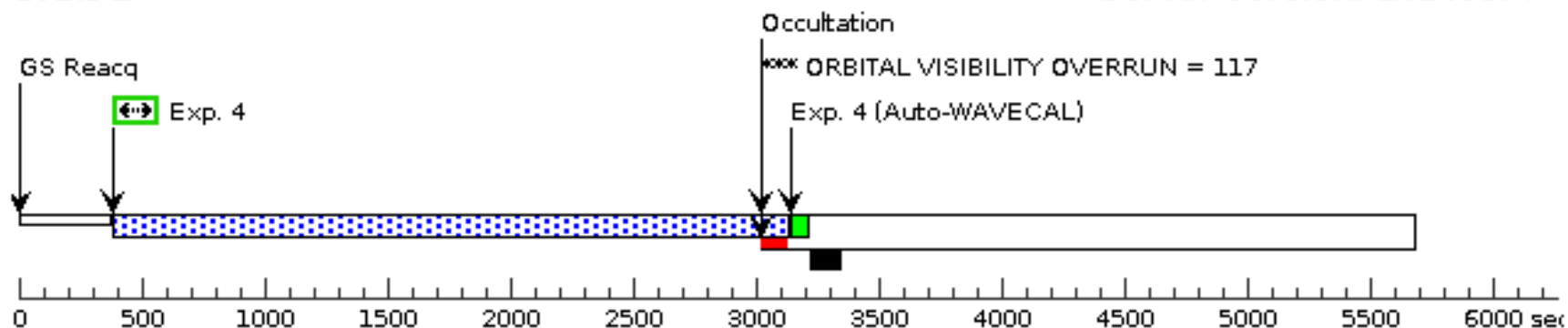
Orbit 1

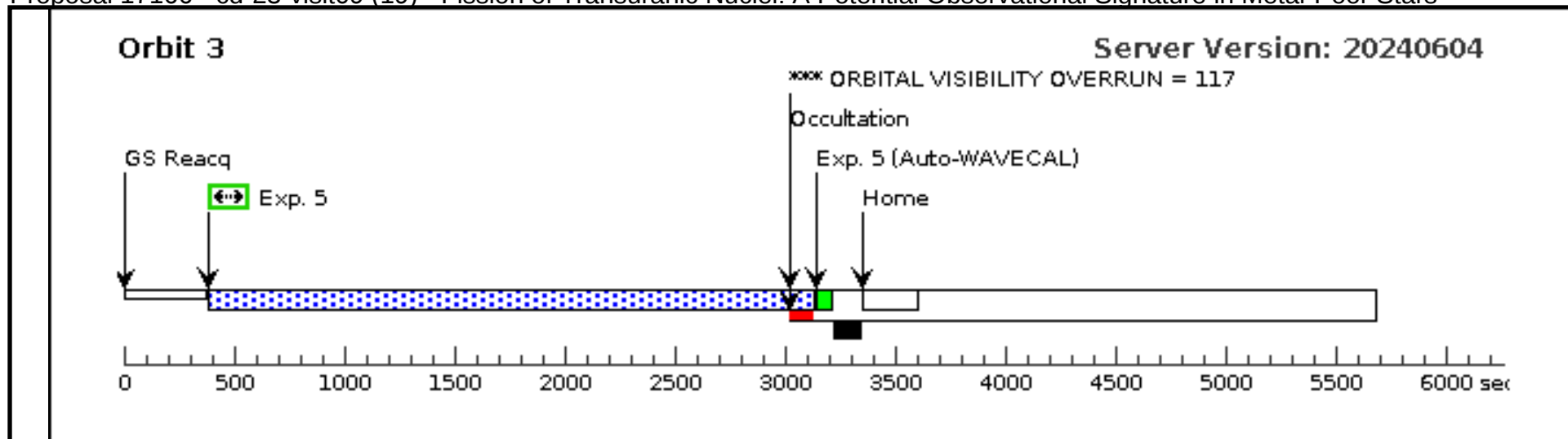
Server Version: 20240604



Orbit 2

Server Version: 20240604



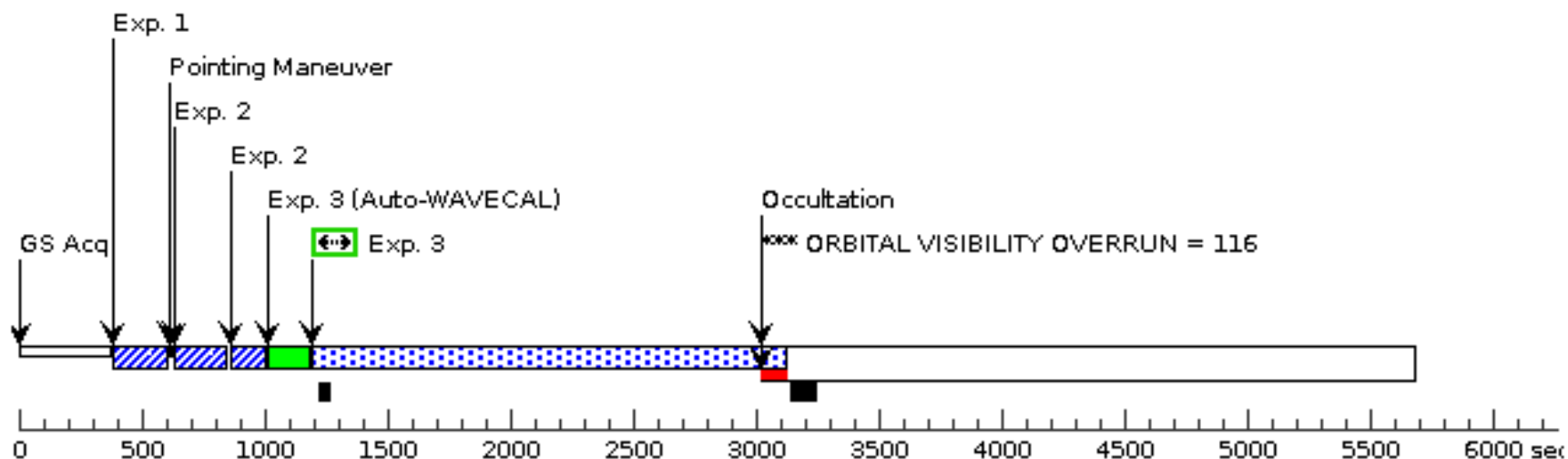


Proposal 17166 - cd-23-visit10 (20) - Fission of Transuranic Nuclei: A Potential Observational Signature in Metal-Poor Stars

Visit	Proposal 17166, cd-23-visit10 (20), completed										Fri Jun 07 21:01:09 GMT 2024
	Diagnostic Status: Warning										
	Scientific Instruments: STIS/NUV-MAMA, STIS/CCD										
	Special Requirements: (none)										
Diagnostics	(cd-23-visit10 (20)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN										
	(cd-23-visit10 (20)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN										
	(cd-23-visit10 (20)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN										
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections			Fluxes		Miscellaneous		
	(2)	CD-23-12296	RA: 15 27 13.2505 (231.8052104d) Dec: -23 36 19.40 (-23.60539d) Equinox: J2000	Proper Motion RA: -229.735 mas/yr Proper Motion Dec: -99.412 mas/yr Parallax: 0.0065603" Epoch of Position: 2015.5			V=10.849 GALEX NUV = 13.63; E(B-V) = 0.092		Reference Frame: ICRS		
	Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.										
	IUR updated coordinates to Gaia DR2 (ICRS, epoch=2015.5). Gaia DR2 6239162964995926016										
	Category=STAR										
	Description=[G V-IV, 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.180 9325)	(2) CD-23-12296	STIS/CCD, ACQ, F28X50LP	MIRROR				0.1 Secs (0.1 Secs)		
									[==>]	[1]	
	Comments: Saturates in 0.36 sec. 0.1 sec gives S/N = 296.										
	2	(STIS.ta.180 9326)	(2) CD-23-12296	STIS/CCD, ACQ/PEAK, 0.2X0.09	MIRROR				0.1 Secs (0.1 Secs)		
									[==>]	[1]	
	Comments: Saturates in 0.27 sec. 0.1 sec gives S/N = 361, or ~185,000 counts.										
	3	(STIS.sp.17 31955)	(2) CD-23-12296	STIS/NUV-MAMA, ACCUM, 0.2X0.09	E230H 2163 A				1800 Secs (1916 Secs)		
									[==>1916.0 Secs]	[1]	
	4	(STIS.sp.17 31955)	(2) CD-23-12296	STIS/NUV-MAMA, ACCUM, 0.2X0.09	E230H 2163 A				2800 Secs (2735 Secs)		
								[==>2735.0 Secs]	[2]		
5	(STIS.sp.17 31955)	(2) CD-23-12296	STIS/NUV-MAMA, ACCUM, 0.2X0.09	E230H 2163 A				2800 Secs (2735 Secs)			
								[==>2735.0 Secs]	[3]		

Orbit 1

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Orbit 2

Server Version: 20240604

