



14232 - STIS Observations of Metal-Poor Stars: Direct Confrontation with Nucleosynthetic Predictions

Cycle: 23, Proposal Category: GO

(UV Initiative)

(Availability Mode: SUPPORTED)

INVESTIGATORS

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Dr. Ian U. Roederer (PI) (Contact)	University of Michigan	iur@umich.edu
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Dr. Jennifer S. Sobeck (CoI)	The University of Virginia	jss7qg@virginia.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) BD+03-740	STIS/CCD STIS/NUV-MAMA	2	01-Mar-2016 21:01:38.0	yes
02	(1) BD+03-740	STIS/CCD STIS/NUV-MAMA	3	01-Mar-2016 21:01:40.0	yes
03	(2) BD-13-3442	STIS/CCD STIS/NUV-MAMA	3	01-Mar-2016 21:01:42.0	yes
04	(2) BD-13-3442	STIS/CCD STIS/NUV-MAMA	2	01-Mar-2016 21:01:44.0	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>
05	(2) BD-13-3442	STIS/CCD STIS/NUV-MAMA	2	01-Mar-2016 21:01:45.0	yes
06	(3) CD-33-1173	STIS/CCD STIS/NUV-MAMA	3	01-Mar-2016 21:01:47.0	yes
07	(3) CD-33-1173	STIS/CCD STIS/NUV-MAMA	3	01-Mar-2016 21:01:49.0	yes
08	(3) CD-33-1173	STIS/CCD STIS/NUV-MAMA	3	01-Mar-2016 21:01:51.0	yes

21 Total Orbits Used

ABSTRACT

We propose to obtain STIS NUV echelle spectra (2300-3100 Angstroms) of three extremely metal-poor ($[Fe/H] \sim -3$) main-sequence turnoff stars. We will analyze these spectra to obtain accurate elemental abundances from many transitions of neutral and singly-ionized species of Fe-group elements (Sc, Ti, V, Cr, Mn, Fe, Co, Ni; atomic numbers 21 to 28). Relative abundances of this element group can be predicted theoretically in detail, and they can be interpreted in terms of stellar nucleosynthesis and Galactic chemical evolution. However, their observed abundances in low-metallicity stars are unreliable at present, and there are substantial clashes with theoretical predictions. Our proposed observations, built on a solid foundation of recent and new laboratory transition studies by our group, will finally provide reliable Fe-group abundances that can at last directly confront the Galactic chemical evolution predictions for these important elements.

OBSERVING DESCRIPTION

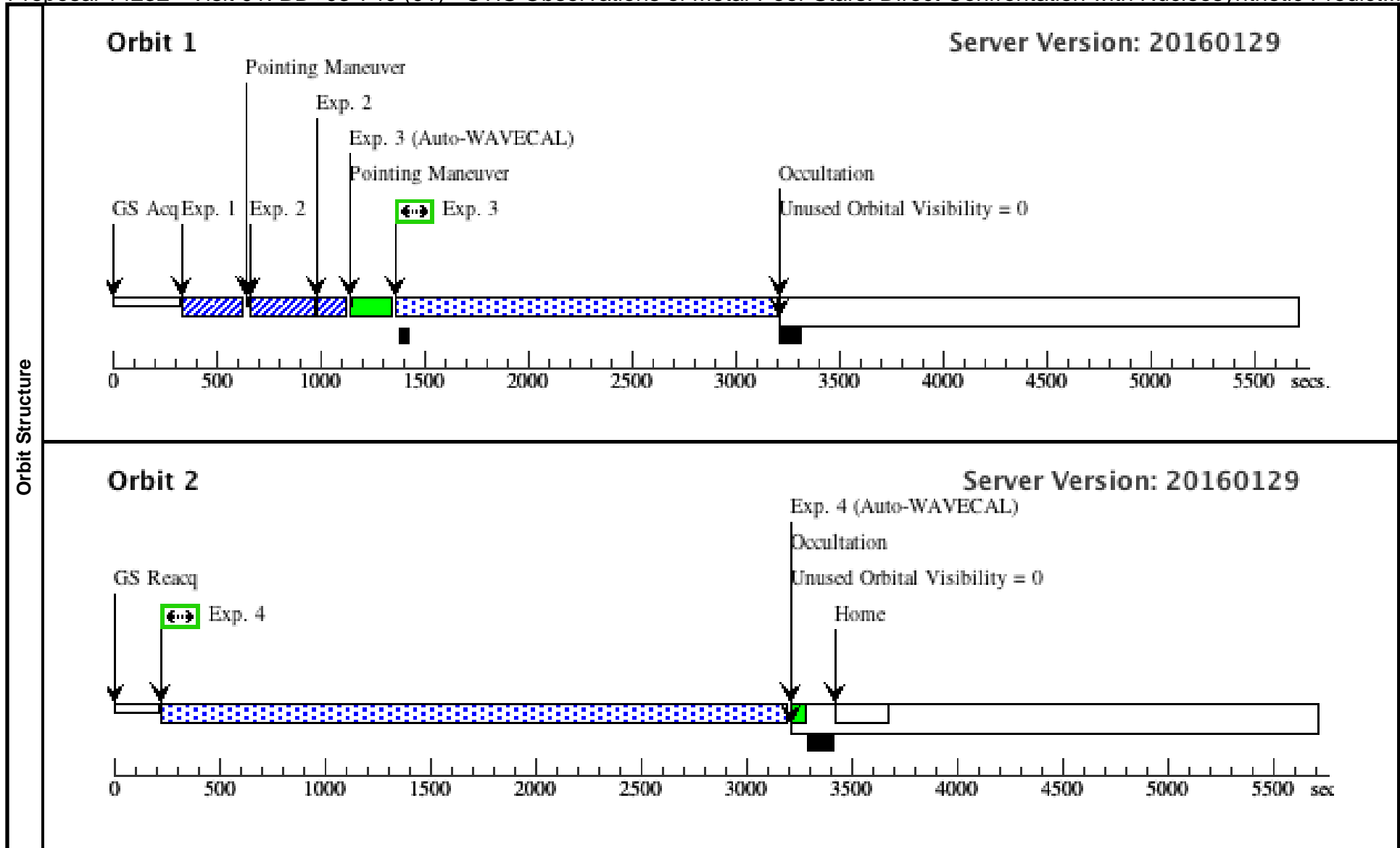
There are three target stars. Each one is a metal-poor main sequence turn-off star (late-F spectral type, $[Fe/H] \sim -3$). Our goal is to obtain as much S/N as possible in the allocated orbits. Our S/N targets are $\sim 50/1$ at 2378 Angstroms for each star. The instrumental setup is designed to obtain continuous $R \sim 30,000$ spectra from ~ 2300 Angstroms to ~ 3100 Angstroms. I have verified all three target confirmation charts.

-- IUR, 06 July 2015

Proposal 14232 - Visit 01: BD+03-740 (01) - STIS Observations of Metal-Poor Stars: Direct Confrontation with Nucleosynthetic Predict...

Wed Mar 02 02:01:52 GMT 2016

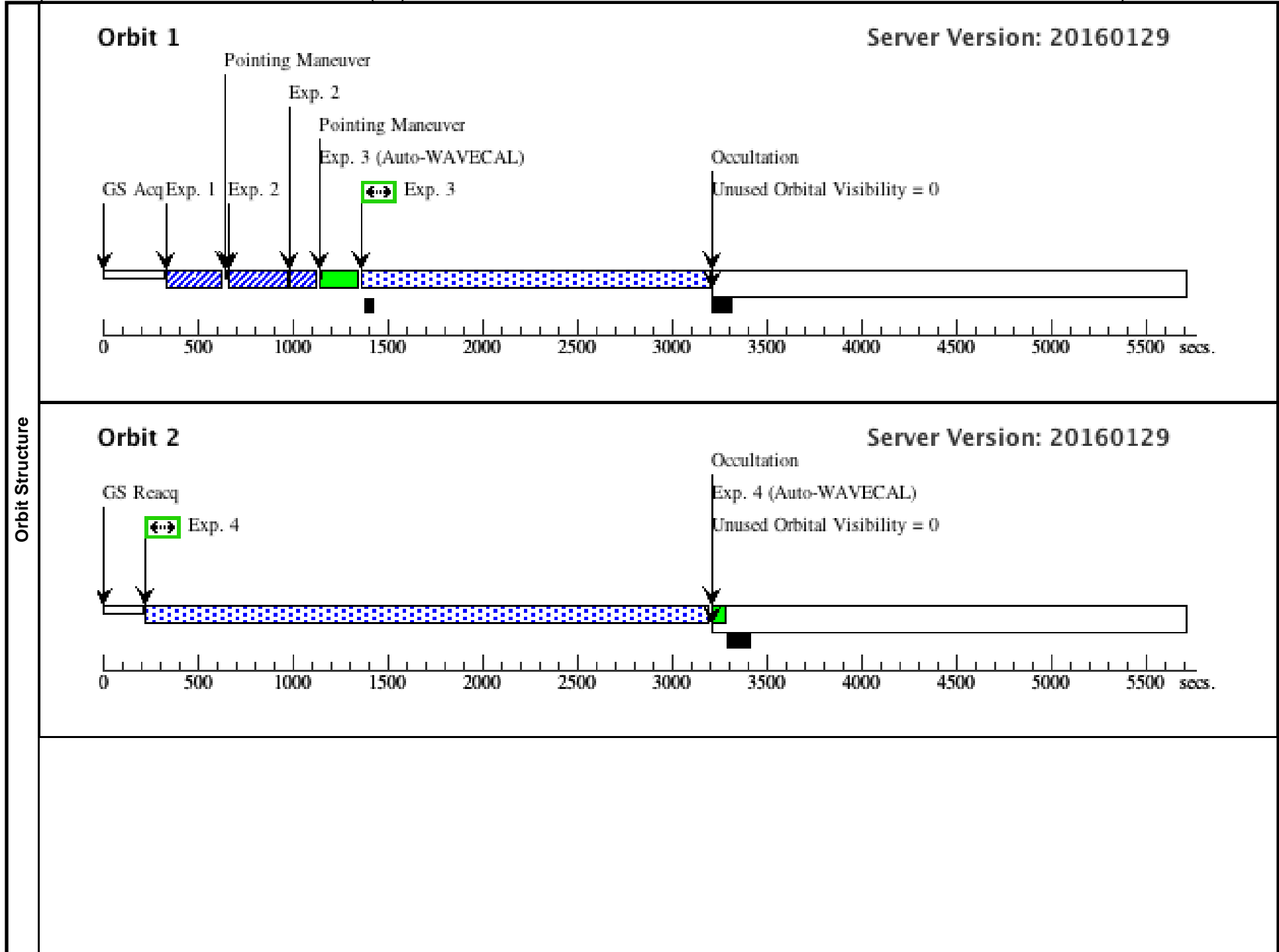
Visit	Proposal 14232, Visit 01: BD+03-740 (01), failed Diagnostic Status: No Diagnostics Scientific Instruments: STIS/NUV-MAMA, STIS/CCD Special Requirements: (none)									
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous			
		(1)	BD+03-740	RA: 05 01 16.6228 (75.3192617d) Dec: +04 06 37.03 (4.11029d) Equinox: J2000	Proper Motion RA: 156.0 mas/yr Proper Motion Dec: -144.9 mas/yr Parallax: 0.00879" Epoch of Position: 2000.0	V=9.81+/-0.05	Reference Frame: ICRS			
	<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> <i>Coords from UCAC4 (via Vizier). PM from UCAC4 (via Vizier). Parallax from Hipparcos re-reduction (via Vizier).</i> <i>Extended=NO</i>									
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	ACQ (STIS.ta.715 008)	(1) BD+03-740	STIS/CCD, ACQ, F25ND3	MIRROR				1 Secs (1 Secs) [==>]	[1]
	2	ACQ/PEAK (STIS.ta.715 009)	(1) BD+03-740	STIS/CCD, ACQ/PEAK, 0.2X0.05ND	MIRROR				1 Secs (1 Secs) [==>]	[1]
	3	SCIENCE 1 (STIS.sp.67 6441)	(1) BD+03-740	STIS/NUV-MAMA, ACCUM, 0.2X0.06	E230M 2707 A				2000 Secs (1820 Secs) [==>1820.0 Secs]	[1]
	4	SCIENCE 2 (STIS.sp.67 6441)	(1) BD+03-740	STIS/NUV-MAMA, ACCUM, 0.2X0.06	E230M 2707 A				3100 Secs (2958 Secs) [==>2958.0 Secs]	[2]

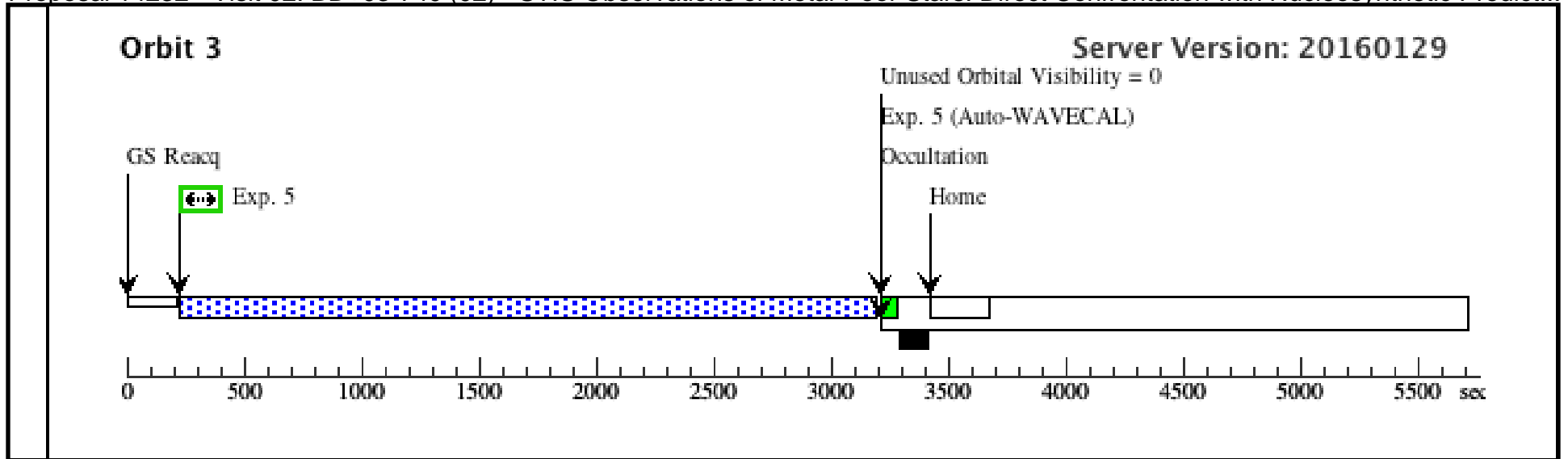


Proposal 14232 - Visit 02: BD+03-740 (02) - STIS Observations of Metal-Poor Stars: Direct Confrontation with Nucleosynthetic Predict...

Wed Mar 02 02:01:53 GMT 2016

Visit	Proposal 14232, Visit 02: BD+03-740 (02), implementation Diagnostic Status: No Diagnostics Scientific Instruments: STIS/NUV-MAMA, STIS/CCD Special Requirements: (none)									
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous			
		(1)	BD+03-740	RA: 05 01 16.6228 (75.3192617d) Dec: +04 06 37.03 (4.11029d) Equinox: J2000	Proper Motion RA: 156.0 mas/yr Proper Motion Dec: -144.9 mas/yr Parallax: 0.00879" Epoch of Position: 2000.0	V=9.81+/-0.05	Reference Frame: ICRS			
	<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> <i>Coords from UCAC4 (via Vizier). PM from UCAC4 (via Vizier). Parallax from Hipparcos re-reduction (via Vizier).</i> <i>Extended=NO</i>									
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	ACQ (STIS.ta.715 008)	(1) BD+03-740	STIS/CCD, ACQ, F25ND3	MIRROR				1 Secs (1 Secs) [==>]	[1]
	2	ACQ/PEAK (STIS.ta.715 009)	(1) BD+03-740	STIS/CCD, ACQ/PEAK, 0.2X0.05ND	MIRROR				1 Secs (1 Secs) [==>]	[1]
	3	SCIENCE 1 (STIS.sp.67 6441)	(1) BD+03-740	STIS/NUV-MAMA, ACCUM, 0.2X0.06	E230M 2707 A				2000 Secs (1820 Secs) [==>1820.0 Secs]	[1]
	4	SCIENCE 2 (STIS.sp.67 6441)	(1) BD+03-740	STIS/NUV-MAMA, ACCUM, 0.2X0.06	E230M 2707 A				3100 Secs (2958 Secs) [==>2958.0 Secs]	[2]
	5	SCIENCE 3 (STIS.sp.67 6441)	(1) BD+03-740	STIS/NUV-MAMA, ACCUM, 0.2X0.06	E230M 2707 A				3100 Secs (2958 Secs) [==>2958.0 Secs]	[3]
	<i>Comments: This third orbit in visit 02 was added to replace a failed observation during visit 01 (see HOPR 83637), as approved by the TTRB. It is a duplicate of orbit 2 in visit 02.</i>									

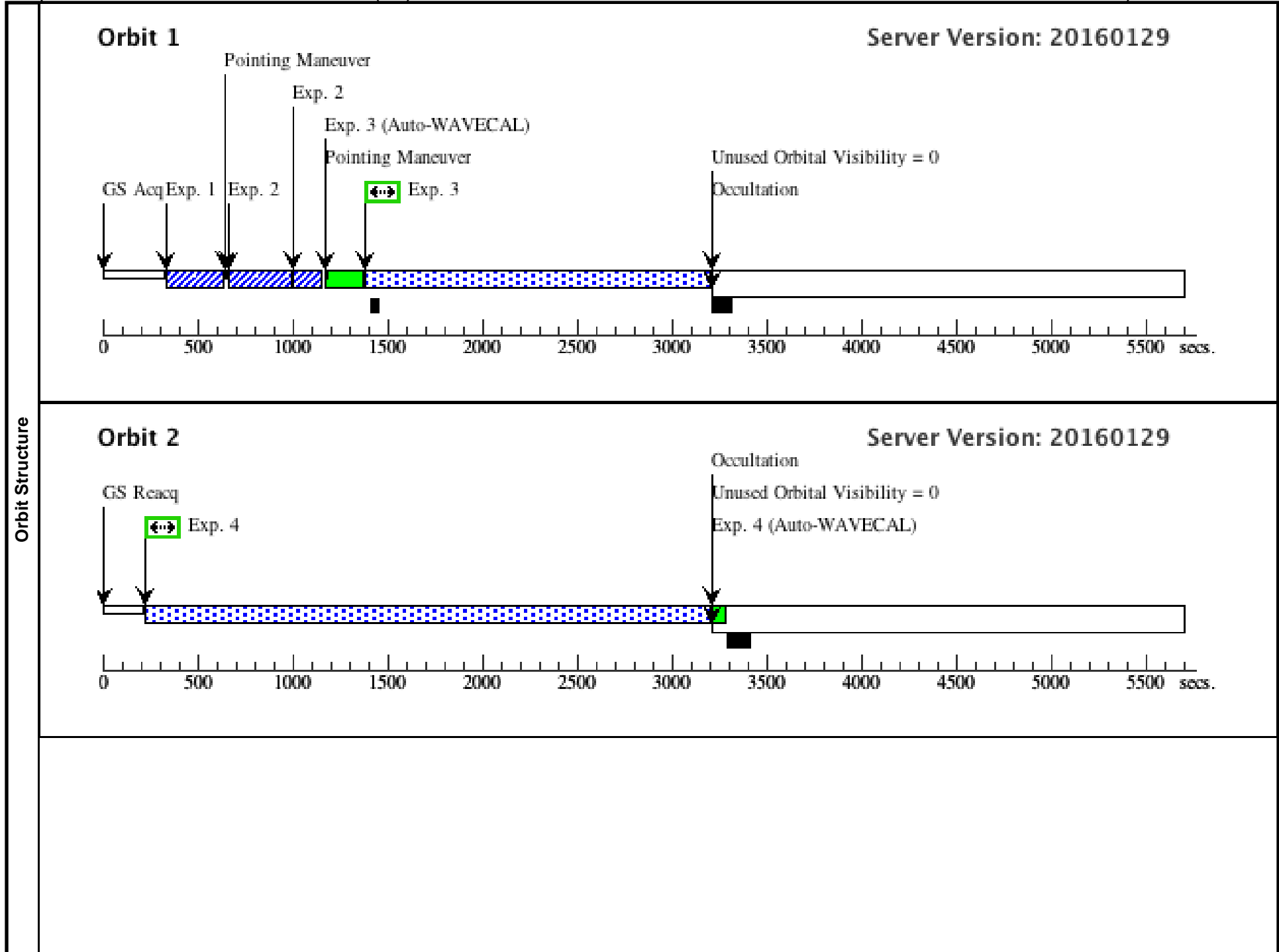


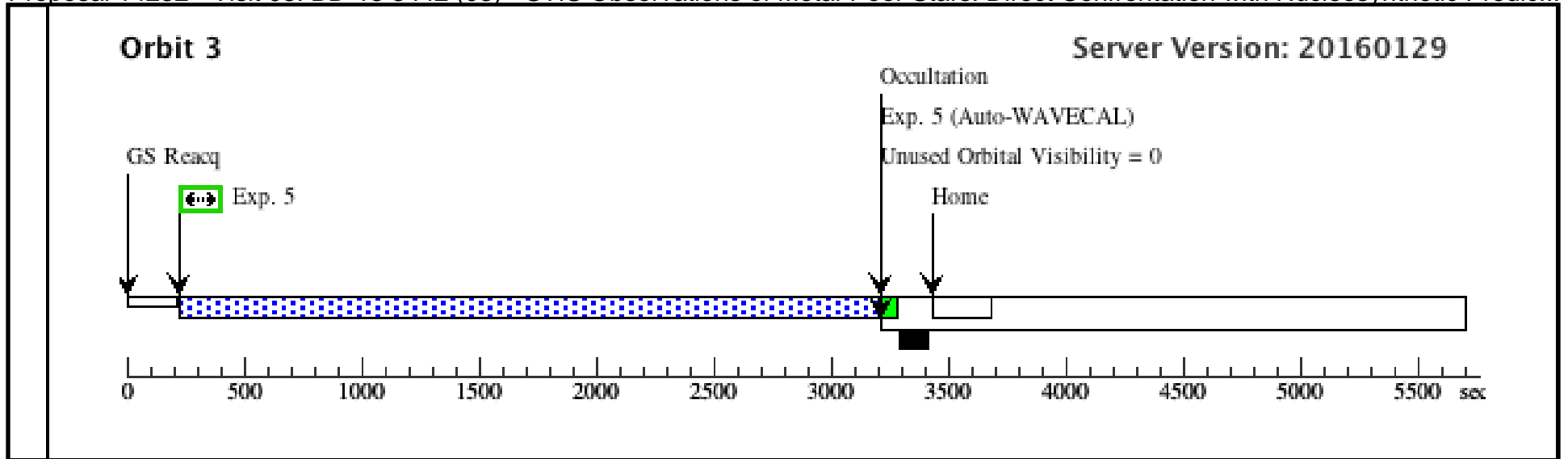


Proposal 14232 - Visit 03: BD-13 3442 (03) - STIS Observations of Metal-Poor Stars: Direct Confrontation with Nucleosynthetic Predic...

Wed Mar 02 02:01:53 GMT 2016

Visit	Proposal 14232, Visit 03: BD-13 3442 (03), scheduling 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)	BD-13-3442	RA: 11 46 50.6520 (176.7110500d) Dec: -14 06 43.45 (-14.11207d) Equinox: J2000	Proper Motion RA: 26.9 mas/yr Proper Motion Dec: -194.4 mas/yr Parallax: 0" Epoch of Position: 2000.0	V=10.31+/-0.05	Reference Frame: ICRS			
	<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> <i>Coords from UCAC4 (as computed by Vizier). PM from UCAC4 (via Vizier).</i> <i>Extended=NO</i>									
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	ACQ (STIS.ta.715 011)	(2) BD-13-3442	STIS/CCD, ACQ, F25ND3	MIRROR				2 Secs (2 Secs) [==>]	[1]
	2	ACQ/PEAK (STIS.ta.715 010)	(2) BD-13-3442	STIS/CCD, ACQ/PEAK, 0.2X0.05ND	MIRROR				2 Secs (2 Secs) [==>]	[1]
	3	SCIENCE 1 (STIS.sp.67 6444)	(2) BD-13-3442	STIS/NUV-MAMA, ACCUM, 0.2X0.06	E230M 2707 A				2000 Secs (1800 Secs) [==>1800.0 Secs]	[1]
	4	SCIENCE 2 (STIS.sp.67 6444)	(2) BD-13-3442	STIS/NUV-MAMA, ACCUM, 0.2X0.06	E230M 2707 A				3100 Secs (2966 Secs) [==>2966.0 Secs]	[2]
	5	SCIENCE 3 (STIS.sp.67 6444)	(2) BD-13-3442	STIS/NUV-MAMA, ACCUM, 0.2X0.06	E230M 2707 A				3100 Secs (2966 Secs) [==>2966.0 Secs]	[3]

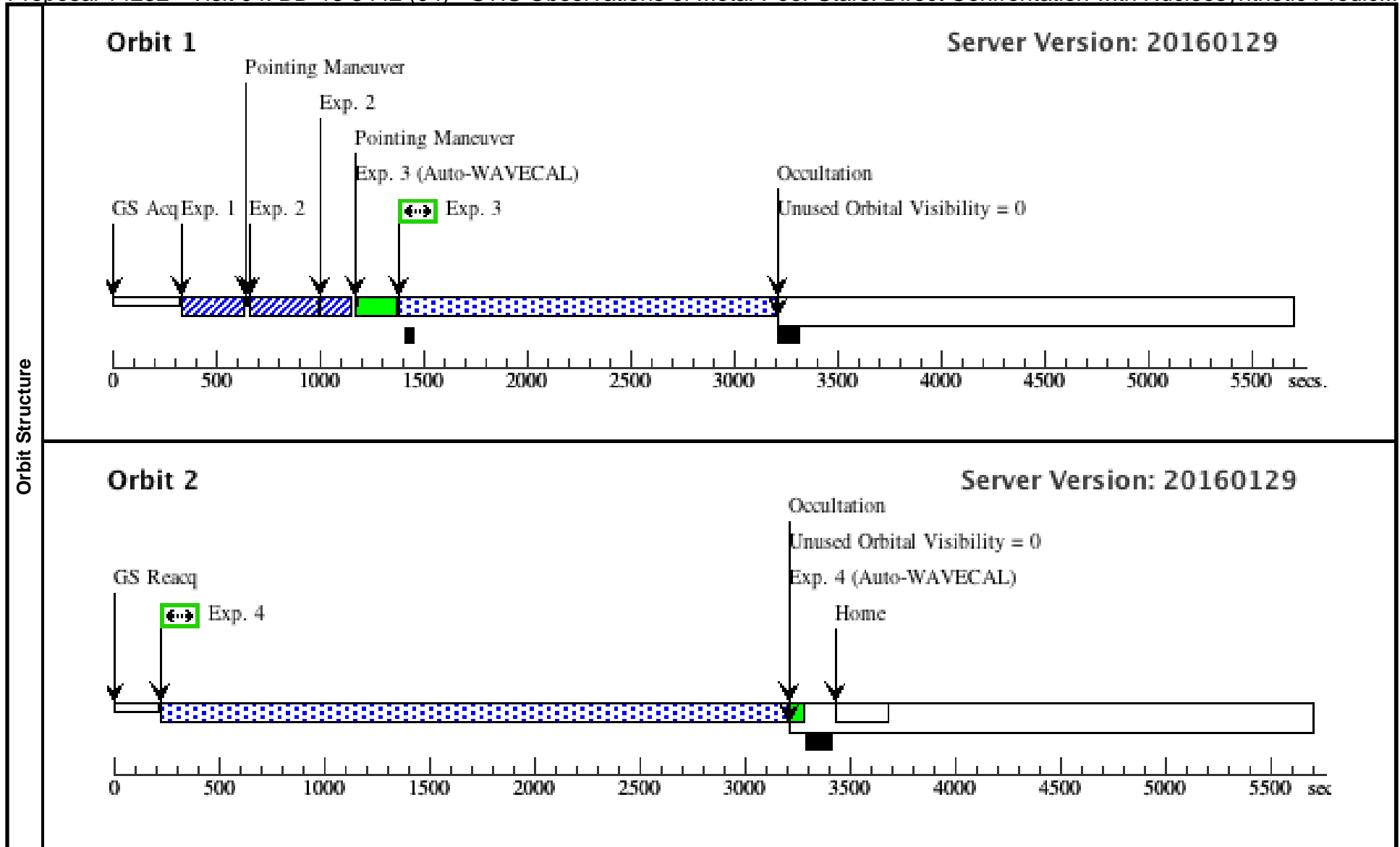




Proposal 14232 - Visit 04: BD-13 3442 (04) - STIS Observations of Metal-Poor Stars: Direct Confrontation with Nucleosynthetic Predic...

Wed Mar 02 02:01:53 GMT 2016

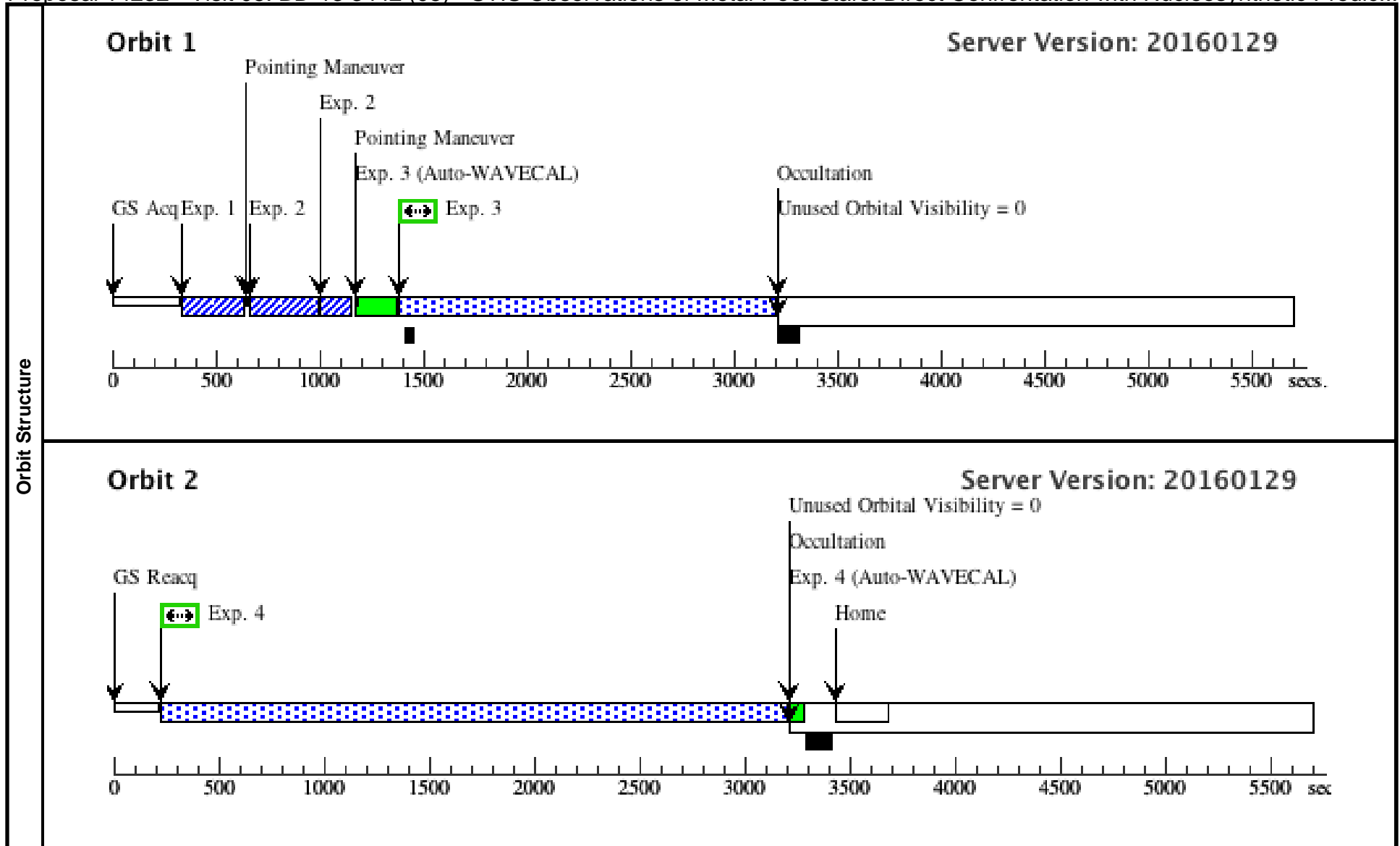
Visit	Proposal 14232, Visit 04: BD-13 3442 (04), scheduling Diagnostic Status: No Diagnostics Scientific Instruments: STIS/NUV-MAMA, STIS/CCD Special Requirements: (none)																											
	Fixed Targets	<table border="1"> <thead> <tr> <th>#</th> <th>Name</th> <th>Target Coordinates</th> <th>Targ. Coord. Corrections</th> <th>Fluxes</th> <th>Miscellaneous</th> </tr> </thead> <tbody> <tr> <td>(2)</td> <td>BD-13-3442</td> <td>RA: 11 46 50.6520 (176.7110500d) Dec: -14 06 43.45 (-14.11207d) Equinox: J2000</td> <td>Proper Motion RA: 26.9 mas/yr Proper Motion Dec: -194.4 mas/yr Parallax: 0" Epoch of Position: 2000.0</td> <td>V=10.31+/-0.05</td> <td>Reference Frame: ICRS</td> </tr> <tr> <td colspan="6"> <i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> <i>Coords from UCAC4 (as computed by Vizier). PM from UCAC4 (via Vizier).</i> <i>Extended=NO</i> </td> </tr> </tbody> </table>										#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous	(2)	BD-13-3442	RA: 11 46 50.6520 (176.7110500d) Dec: -14 06 43.45 (-14.11207d) Equinox: J2000	Proper Motion RA: 26.9 mas/yr Proper Motion Dec: -194.4 mas/yr Parallax: 0" Epoch of Position: 2000.0	V=10.31+/-0.05	Reference Frame: ICRS	<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> <i>Coords from UCAC4 (as computed by Vizier). PM from UCAC4 (via Vizier).</i> <i>Extended=NO</i>				
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Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit																		
	1	ACQ (STIS.ta.715 011)	(2) BD-13-3442	STIS/CCD, ACQ, F25ND3	MIRROR				2 Secs (2 Secs) [==>]	[1]																		
	2	ACQ/PEAK (STIS.ta.715 010)	(2) BD-13-3442	STIS/CCD, ACQ/PEAK, 0.2X0.05ND	MIRROR				2 Secs (2 Secs) [==>]	[1]																		
	3	SCIENCE 1 (STIS.sp.67 6444)	(2) BD-13-3442	STIS/NUV-MAMA, ACCUM, 0.2X0.06	E230M 2707 A				2000 Secs (1800 Secs) [==>1800.0 Secs]	[1]																		
	4	SCIENCE 2 (STIS.sp.67 6444)	(2) BD-13-3442	STIS/NUV-MAMA, ACCUM, 0.2X0.06	E230M 2707 A				3100 Secs (2966 Secs) [==>2966.0 Secs]	[2]																		



Proposal 14232 - Visit 05: BD-13 3442 (05) - STIS Observations of Metal-Poor Stars: Direct Confrontation with Nucleosynthetic Predic...

Wed Mar 02 02:01:53 GMT 2016

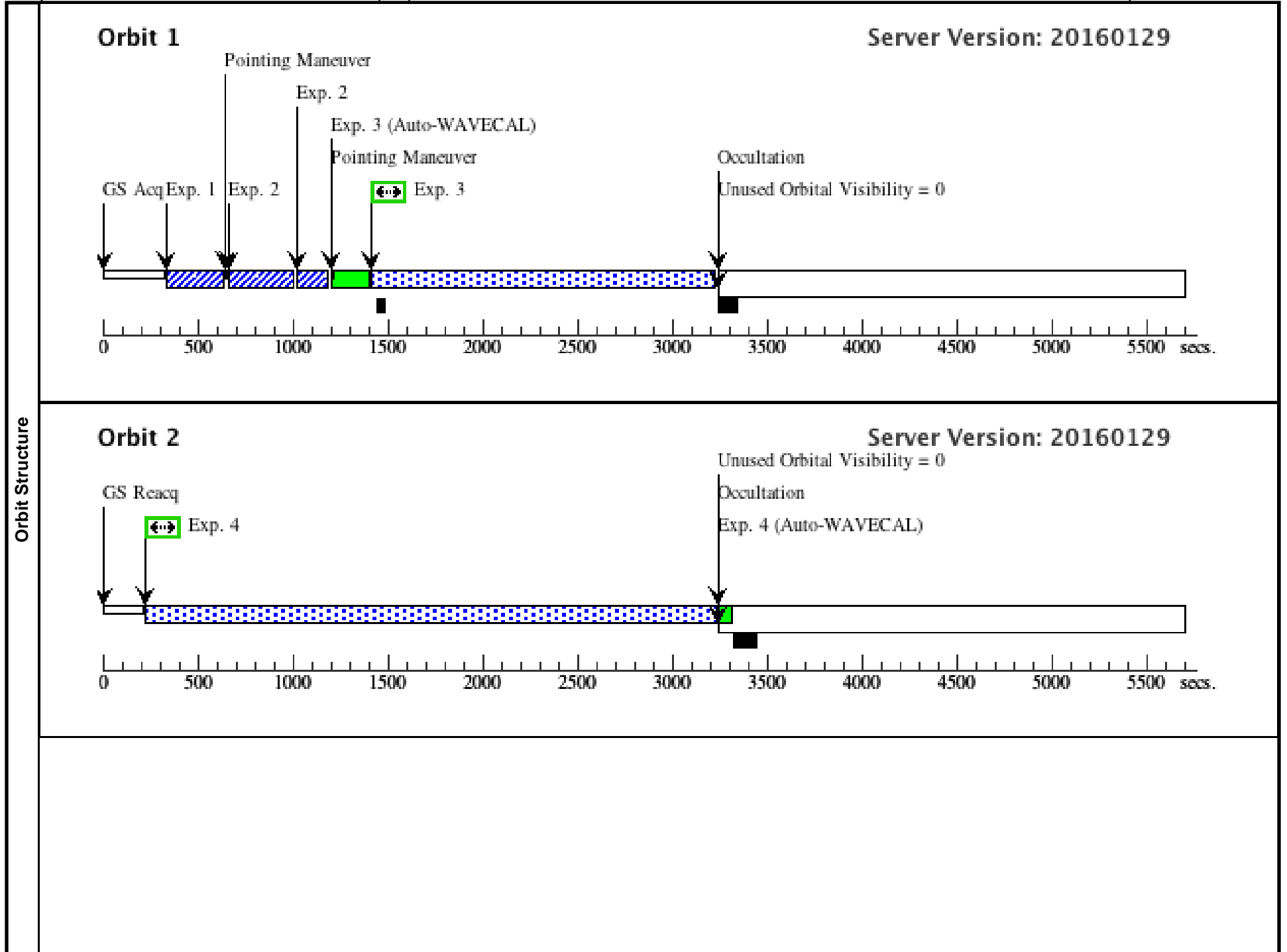
Visit	Proposal 14232, Visit 05: BD-13 3442 (05), scheduling Diagnostic Status: No Diagnostics Scientific Instruments: STIS/NUV-MAMA, STIS/CCD Special Requirements: (none)									
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous			
		(2)	BD-13-3442	RA: 11 46 50.6520 (176.7110500d) Dec: -14 06 43.45 (-14.11207d) Equinox: J2000	Proper Motion RA: 26.9 mas/yr Proper Motion Dec: -194.4 mas/yr Parallax: 0" Epoch of Position: 2000.0	V=10.31+/-0.05	Reference Frame: ICRS			
	<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> <i>Coords from UCAC4 (as computed by Vizier). PM from UCAC4 (via Vizier).</i> <i>Extended=NO</i>									
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	ACQ (STIS.ta.715 011)	(2) BD-13-3442	STIS/CCD, ACQ, F25ND3	MIRROR				2 Secs (2 Secs) [==>]	[1]
	2	ACQ/PEAK (STIS.ta.715 010)	(2) BD-13-3442	STIS/CCD, ACQ/PEAK, 0.2X0.05ND	MIRROR				2 Secs (2 Secs) [==>]	[1]
	3	SCIENCE 1 (STIS.sp.67 6444)	(2) BD-13-3442	STIS/NUV-MAMA, ACCUM, 0.2X0.06	E230M 2707 A				2000 Secs (1800 Secs) [==>1800.0 Secs]	[1]
	4	SCIENCE 2 (STIS.sp.67 6444)	(2) BD-13-3442	STIS/NUV-MAMA, ACCUM, 0.2X0.06	E230M 2707 A				3100 Secs (2966 Secs) [==>2966.0 Secs]	[2]

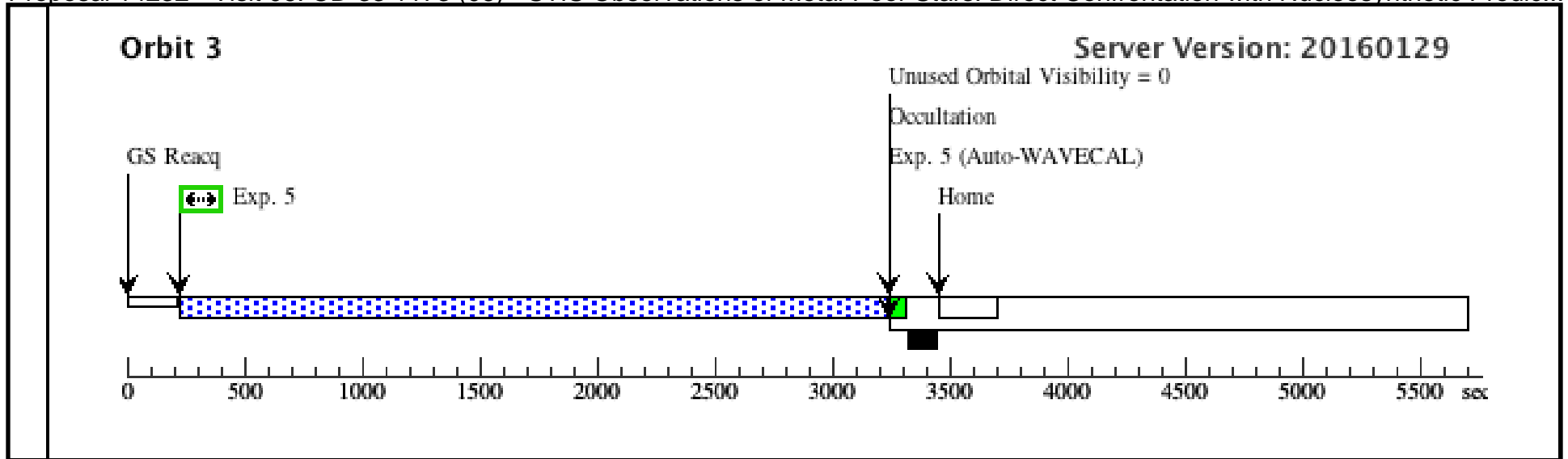


Proposal 14232 - Visit 06: CD-33 1173 (06) - STIS Observations of Metal-Poor Stars: Direct Confrontation with Nucleosynthetic Predic...

Wed Mar 02 02:01:53 GMT 2016

Visit	Proposal 14232, Visit 06: CD-33 1173 (06), scheduling Diagnostic Status: No Diagnostics Scientific Instruments: STIS/NUV-MAMA, STIS/CCD Special Requirements: (none)																											
	Fixed Targets	<table border="1"> <thead> <tr> <th>#</th> <th>Name</th> <th>Target Coordinates</th> <th>Targ. Coord. Corrections</th> <th>Fluxes</th> <th>Miscellaneous</th> </tr> </thead> <tbody> <tr> <td>(3)</td> <td>CD-33-1173</td> <td>RA: 03 19 35.3140 (49.8971417d) Dec: -32 50 43.18 (-32.84533d) Equinox: J2000</td> <td>Proper Motion RA: 28.8 mas/yr Proper Motion Dec: -201.7 mas/yr Parallax: 0.00387" Epoch of Position: 2000.0</td> <td>V=10.83+/-0.05</td> <td>Reference Frame: ICRS</td> </tr> <tr> <td colspan="6"> <i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> <i>Coords from UCAC4 (as computed by Vizier). PM from UCAC4 (via Vizier). Parallax from Hipparcos re-reduction (via Vizier).</i> <i>Extended=NO</i> </td> </tr> </tbody> </table>										#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous	(3)	CD-33-1173	RA: 03 19 35.3140 (49.8971417d) Dec: -32 50 43.18 (-32.84533d) Equinox: J2000	Proper Motion RA: 28.8 mas/yr Proper Motion Dec: -201.7 mas/yr Parallax: 0.00387" Epoch of Position: 2000.0	V=10.83+/-0.05	Reference Frame: ICRS	<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> <i>Coords from UCAC4 (as computed by Vizier). PM from UCAC4 (via Vizier). Parallax from Hipparcos re-reduction (via Vizier).</i> <i>Extended=NO</i>				
#		Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous																						
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Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit																		
	1	ACQ (STIS.ta.715 013)	(3) CD-33-1173	STIS/CCD, ACQ, F25ND3	MIRROR				3 Secs (3 Secs) [==>]	[1]																		
	2	ACQ/PEAK (STIS.ta.715 014)	(3) CD-33-1173	STIS/CCD, ACQ/PEAK, 0.2X0.05ND	MIRROR				3 Secs (3 Secs) [==>]	[1]																		
	3	SCIENCE 1 (STIS.sp.67 6445)	(3) CD-33-1173	STIS/NUV-MAMA, ACCUM, 0.2X0.06	E230M 2707 A				1900 Secs (1799 Secs) [==>1799.0 Secs]	[1]																		
	4	SCIENCE 2 (STIS.sp.67 6445)	(3) CD-33-1173	STIS/NUV-MAMA, ACCUM, 0.2X0.06	E230M 2707 A				3100 Secs (2993 Secs) [==>2993.0 Secs]	[2]																		
	5	SCIENCE 3 (STIS.sp.67 6445)	(3) CD-33-1173	STIS/NUV-MAMA, ACCUM, 0.2X0.06	E230M 2707 A				3100 Secs (2993 Secs) [==>2993.0 Secs]	[3]																		

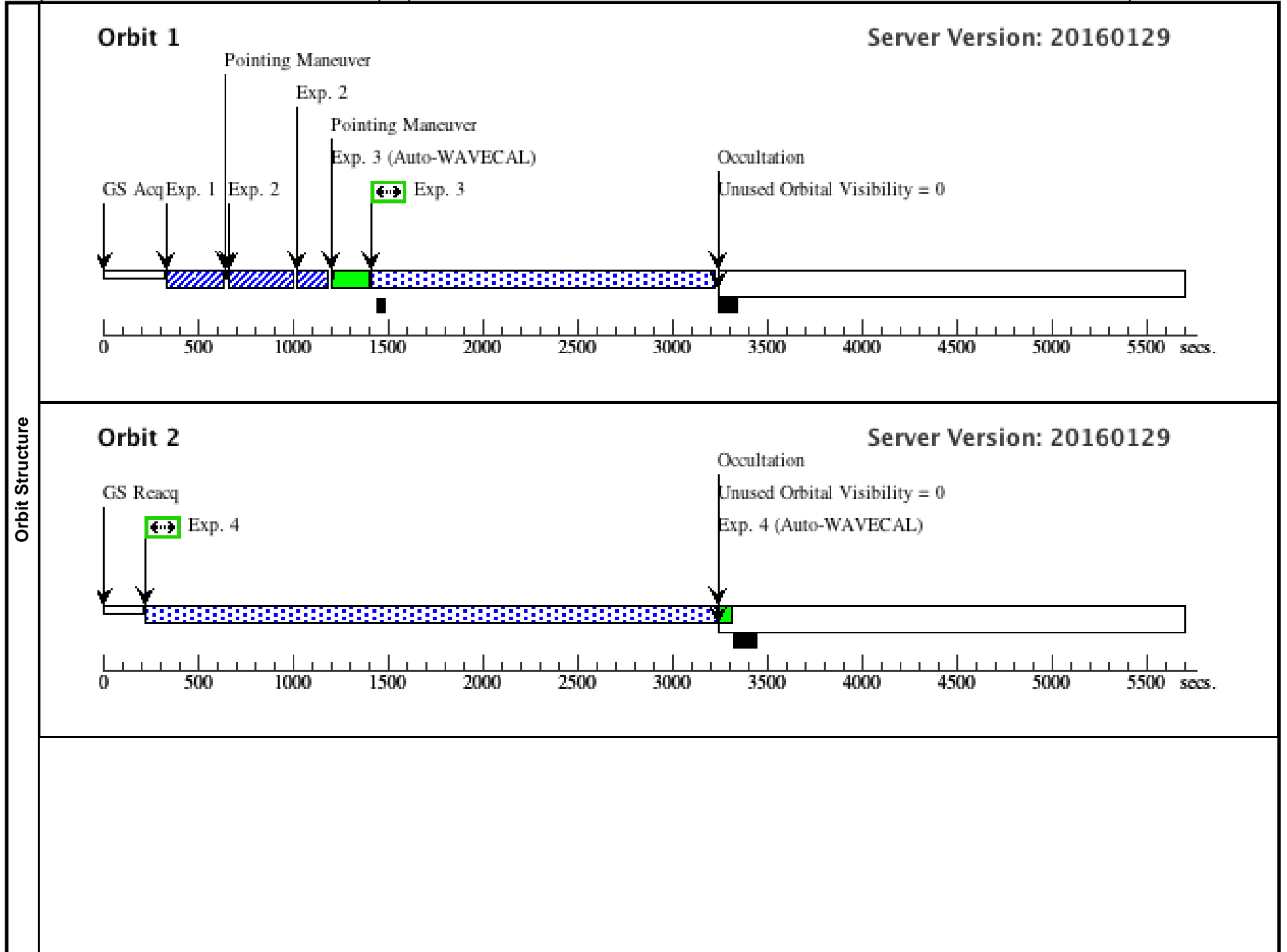


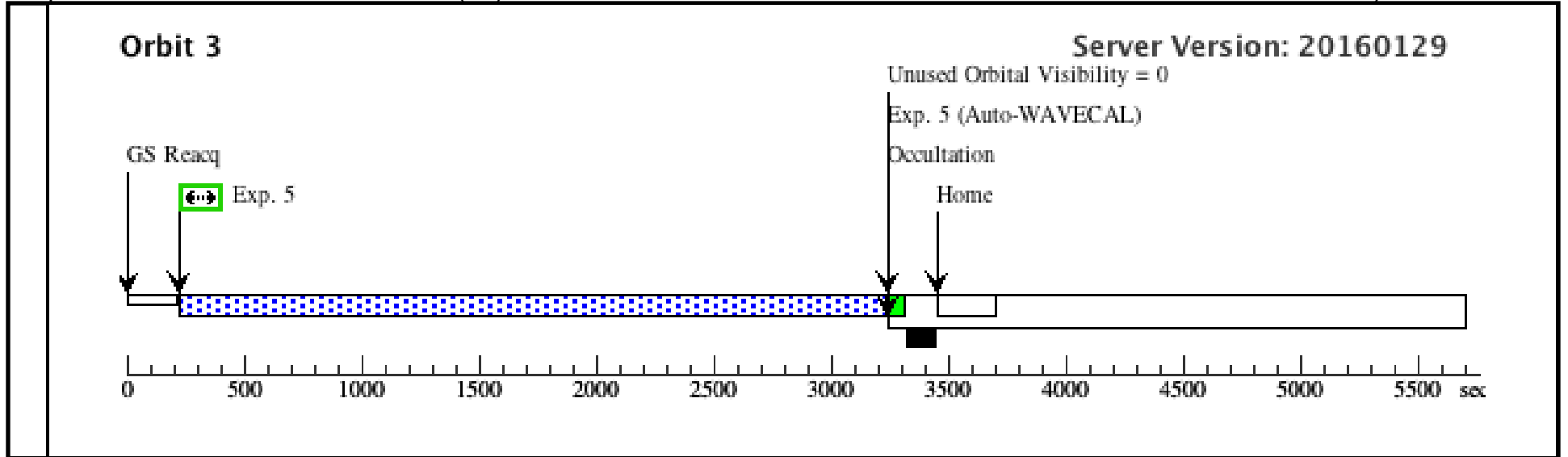


Proposal 14232 - Visit 07: CD-33 1173 (07) - STIS Observations of Metal-Poor Stars: Direct Confrontation with Nucleosynthetic Predic...

Wed Mar 02 02:01:53 GMT 2016

Visit	Proposal 14232, Visit 07: CD-33 1173 (07), scheduling Diagnostic Status: No Diagnostics Scientific Instruments: STIS/NUV-MAMA, STIS/CCD Special Requirements: (none)									
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous			
		(3)	CD-33-1173	RA: 03 19 35.3140 (49.8971417d) Dec: -32 50 43.18 (-32.84533d) Equinox: J2000	Proper Motion RA: 28.8 mas/yr Proper Motion Dec: -201.7 mas/yr Parallax: 0.00387" Epoch of Position: 2000.0	V=10.83+/-0.05	Reference Frame: ICRS			
	<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> <i>Coords from UCAC4 (as computed by Vizier). PM from UCAC4 (via Vizier). Parallax from Hipparcos re-reduction (via Vizier).</i> <i>Extended=NO</i>									
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	ACQ (STIS.ta.715 013)	(3) CD-33-1173	STIS/CCD, ACQ, F25ND3	MIRROR				3 Secs (3 Secs) [==>]	[1]
	2	ACQ/PEAK (STIS.ta.715 014)	(3) CD-33-1173	STIS/CCD, ACQ/PEAK, 0.2X0.05ND	MIRROR				3 Secs (3 Secs) [==>]	[1]
	3	SCIENCE 1 (STIS.sp.67 6445)	(3) CD-33-1173	STIS/NUV-MAMA, ACCUM, 0.2X0.06	E230M 2707 A				1900 Secs (1799 Secs) [==>1799.0 Secs]	[1]
	4	SCIENCE 2 (STIS.sp.67 6445)	(3) CD-33-1173	STIS/NUV-MAMA, ACCUM, 0.2X0.06	E230M 2707 A				3100 Secs (2993 Secs) [==>2993.0 Secs]	[2]
	5	SCIENCE 3 (STIS.sp.67 6445)	(3) CD-33-1173	STIS/NUV-MAMA, ACCUM, 0.2X0.06	E230M 2707 A				3100 Secs (2993 Secs) [==>2993.0 Secs]	[3]





Proposal 14232 - Visit 08: CD-33 1173 (08) - STIS Observations of Metal-Poor Stars: Direct Confrontation with Nucleosynthetic Predic...

Wed Mar 02 02:01:53 GMT 2016

Visit	Proposal 14232, Visit 08: CD-33 1173 (08), scheduling Diagnostic Status: No Diagnostics Scientific Instruments: STIS/NUV-MAMA, STIS/CCD Special Requirements: (none)																											
	Fixed Targets	<table border="1"> <thead> <tr> <th>#</th> <th>Name</th> <th>Target Coordinates</th> <th>Targ. Coord. Corrections</th> <th>Fluxes</th> <th>Miscellaneous</th> </tr> </thead> <tbody> <tr> <td>(3)</td> <td>CD-33-1173</td> <td>RA: 03 19 35.3140 (49.8971417d) Dec: -32 50 43.18 (-32.84533d) Equinox: J2000</td> <td>Proper Motion RA: 28.8 mas/yr Proper Motion Dec: -201.7 mas/yr Parallax: 0.00387" Epoch of Position: 2000.0</td> <td>V=10.83+/-0.05</td> <td>Reference Frame: ICRS</td> </tr> <tr> <td colspan="6"> <i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> <i>Coords from UCAC4 (as computed by Vizier). PM from UCAC4 (via Vizier). Parallax from Hipparcos re-reduction (via Vizier).</i> <i>Extended=NO</i> </td> </tr> </tbody> </table>										#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous	(3)	CD-33-1173	RA: 03 19 35.3140 (49.8971417d) Dec: -32 50 43.18 (-32.84533d) Equinox: J2000	Proper Motion RA: 28.8 mas/yr Proper Motion Dec: -201.7 mas/yr Parallax: 0.00387" Epoch of Position: 2000.0	V=10.83+/-0.05	Reference Frame: ICRS	<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> <i>Coords from UCAC4 (as computed by Vizier). PM from UCAC4 (via Vizier). Parallax from Hipparcos re-reduction (via Vizier).</i> <i>Extended=NO</i>				
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Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit																		
	1	ACQ (STIS.ta.715 013)	(3) CD-33-1173	STIS/CCD, ACQ, F25ND3	MIRROR				3 Secs (3 Secs) [==>]	[1]																		
	2	ACQ/PEAK (STIS.ta.715 014)	(3) CD-33-1173	STIS/CCD, ACQ/PEAK, 0.2X0.05ND	MIRROR				3 Secs (3 Secs) [==>]	[1]																		
	3	SCIENCE 1 (STIS.sp.67 6445)	(3) CD-33-1173	STIS/NUV-MAMA, ACCUM, 0.2X0.06	E230M 2707 A				1900 Secs (1799 Secs) [==>1799.0 Secs]	[1]																		
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