



12565 - Primordial Carbon Abundances in Extremely Metal-Poor Stars

Cycle: 19, Proposal Category: GO

(Availability Mode: SUPPORTED)

INVESTIGATORS

<i>Name</i>	<i>Institution</i>	<i>E-Mail</i>
Dr. Ruth C. Peterson (PI)	Astrophysical Advances	peterson@ucolick.org

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>
02	(2) HD84937	COS/NUV	1	10-Feb-2012 21:02:52.0	yes
03	(3) BD-13D3442	COS/NUV	2	10-Feb-2012 21:03:00.0	yes
04	(4) G64-12	COS/NUV	2	10-Feb-2012 21:03:06.0	yes
05	(5) LP815-43	COS/NUV	2	10-Feb-2012 21:03:15.0	yes
01	(1) BD+03D0740	COS/NUV	1	10-Feb-2012 21:03:20.0	yes
51	(1) BD+03D0740	COS/NUV	1	10-Feb-2012 21:03:25.0	yes

9 Total Orbits Used

ABSTRACT

We propose a novel approach towards defining the initial carbon abundance of extremely metal-poor stars. We will observe the C I 1930.9A line, which is detectable in unevolved turnoff stars even for $[Fe/H] < -3.0$. COS 1941A spectra and ground-based echelle spectra of the CH bands at 3142A and 4315A will both be analyzed with theoretical spectral calculations, and the results compared to understand better the effect of atmospheric convective motions on the CH features normally used for carbon determinations. Because the low-excitation C I 1930.9A line is virtually immune from non-LTE effects, the results should place the carbon abundances of these stars on a firm footing, of importance for theoretical scenarios of single star formation at these low metallicities.

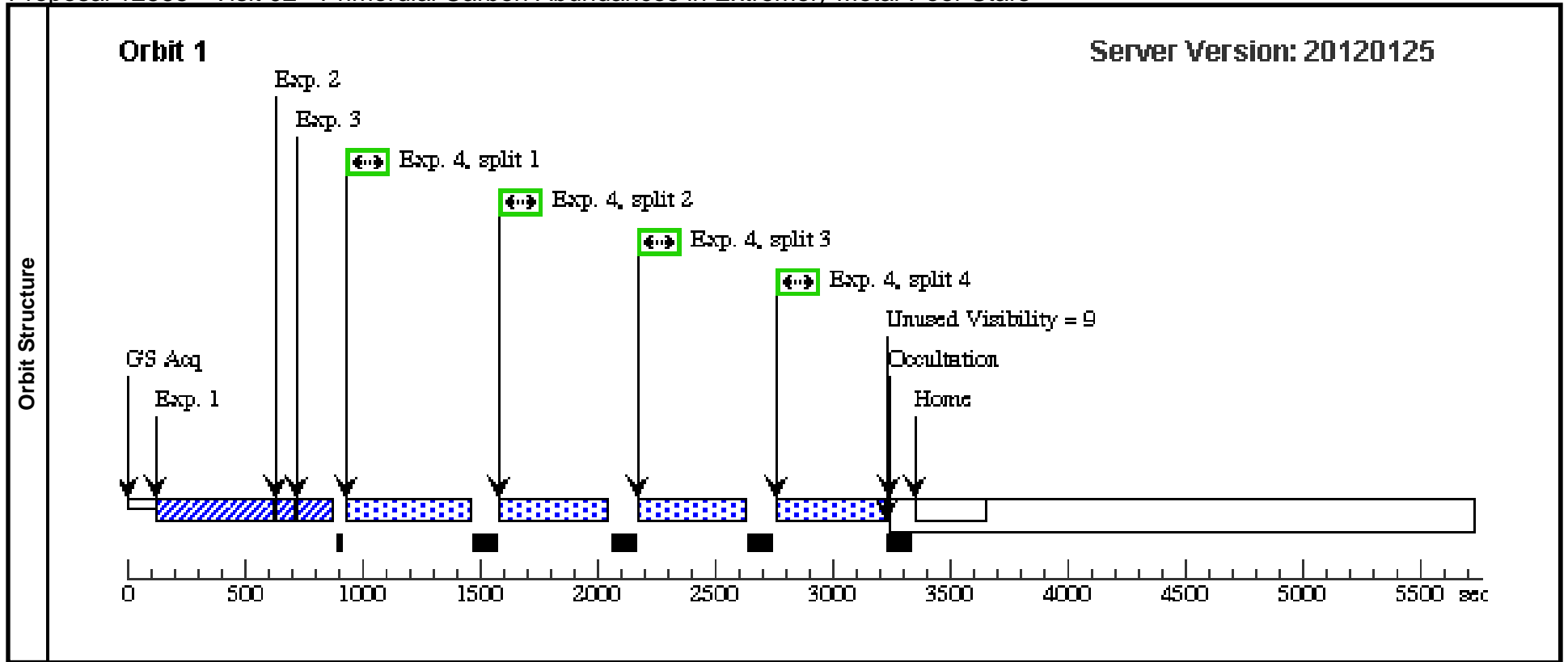
OBSERVING DESCRIPTION

We will determine the carbon abundance of five extremely metal-poor stars from the C I line at 1903.9A, using near-UV spectra obtained in this program. These, and ground-based echelle spectra of the CH bands at 3142A and 4315A, will be analyzed by overplotting theoretical spectral calculations broadened by the appropriate the instrumental resolution.

Proposal 12565 - Visit 02 - Primordial Carbon Abundances in Extremely Metal-Poor Stars

Sat Feb 11 02:03:30 GMT 2012

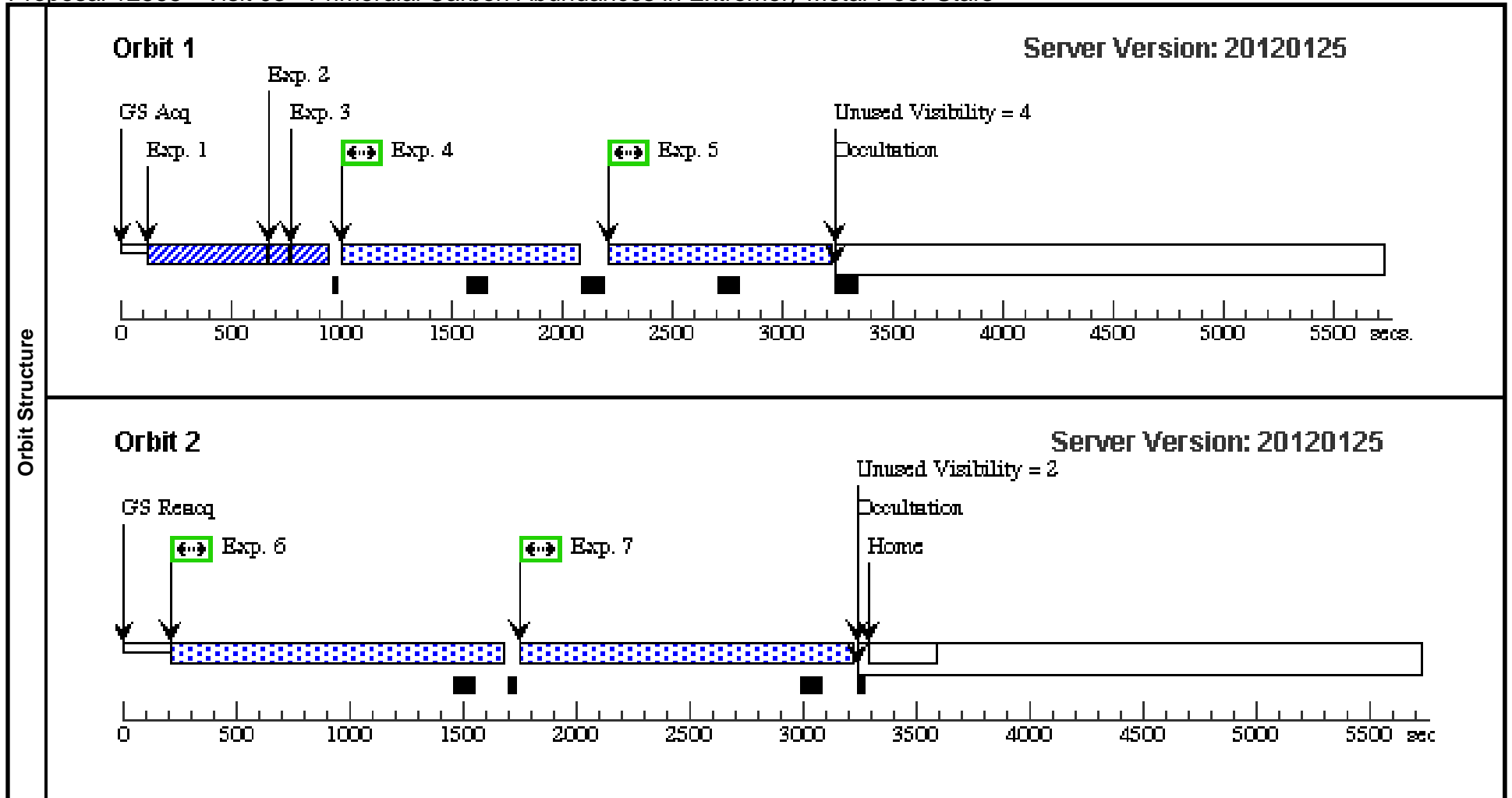
Visit		Proposal 12565, Visit 02, completed Diagnostic Status: No Diagnostics Scientific Instruments: COS/NUV Special Requirements: (none)																																																					
Fixed Targets		<table border="1"> <thead> <tr> <th>#</th> <th>Name</th> <th>Target Coordinates</th> <th>Targ. Coord. Corrections</th> <th>Fluxes</th> <th>Miscellaneous</th> </tr> </thead> <tbody> <tr> <td>(2)</td> <td>HD84937</td> <td>RA: 09 48 55.8860 (147.2328583d)</td> <td>Proper Motion RA: +373.05 mas/yr</td> <td>V=8.28</td> <td rowspan="4">Reference Frame: ICRS</td> </tr> <tr> <td></td> <td>Alt Name1: HIP48152</td> <td>Dec: +13 44 46.26 (13.74618d)</td> <td>Proper Motion Dec: -774.38 mas/yr</td> <td>B 8.69</td> </tr> <tr> <td></td> <td>Alt Name2: TYC834-654-1</td> <td>Equinox: J2000</td> <td>Parallax: .01374"</td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td>Epoch of Position: 1991.36</td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td>Radial Velocity: -16.7 km/sec</td> <td></td> <td></td> </tr> </tbody> </table> <p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. RA, Dec, and Epoch from Tycho2 I/259. Proper Motion RA & Dec and Parallax from Hipparchos I/311.</i></p>	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous	(2)	HD84937	RA: 09 48 55.8860 (147.2328583d)	Proper Motion RA: +373.05 mas/yr	V=8.28	Reference Frame: ICRS		Alt Name1: HIP48152	Dec: +13 44 46.26 (13.74618d)	Proper Motion Dec: -774.38 mas/yr	B 8.69		Alt Name2: TYC834-654-1	Equinox: J2000	Parallax: .01374"					Epoch of Position: 1991.36					Radial Velocity: -16.7 km/sec																						
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Proposal 12565 - Visit 03 - Primordial Carbon Abundances in Extremely Metal-Poor Stars

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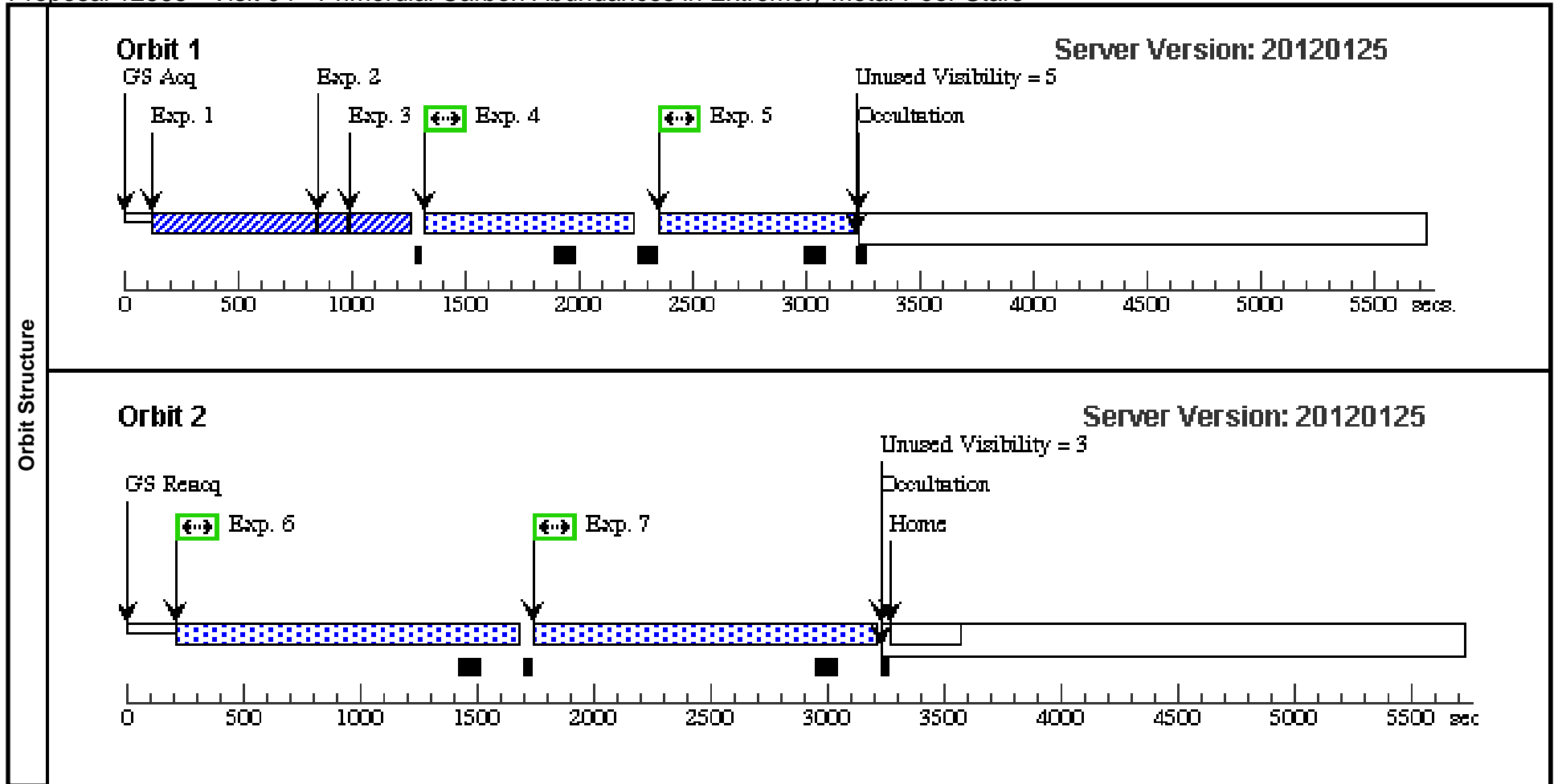
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Fixed Targets	(3)	BD-13D3442	RA: 11 46 50.6360 (176.7109833d)	Proper Motion RA: +25.0 mas/yr	V=10.37	Reference Frame: ICRS				
		Alt Name1: TYC5523-1415-1	Dec: -14 06 41.84 (-14.11162d) Equinox: J2000	Proper Motion Dec: -196.7 mas/yr Parallax: 0" Epoch of Position: 1991.77 Radial Velocity: +159 km/sec	B 10.69					
<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. RA, Dec, Epoch, and Proper Motion RA & Dec are from Tycho2, catalog I/259. No parallax found. B from SIMBAD.</i>										
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	sp.acq/srch (cos.sa.1799 10)	(3) BD-13D3442	COS/NUV, ACQ/SEARCH, PSA	G185M 1921 A	SCAN-SIZE=3; STEP-SIZE=1.767; CENTER=FLUX-W T-FLR			5.1 Secs [==>]	[1]
	2	sp.acq/xd (cos.sa.1799 11)	(3) BD-13D3442	COS/NUV, ACQ/PEAKXD, PSA	G185M 1921 A				11.9 Secs [==>]	[1]
	3	sp.acq/d (cos.sa.1799 10)	(3) BD-13D3442	COS/NUV, ACQ/PEAKD, PSA	G185M 1921 A	NUM-POS=5; STEP-SIZE=.9; CENTER=FLUX-W T-FLR			5.1 Secs [==>]	[1]
	4	spectrum (cos.sp.1802 97)	(3) BD-13D3442	COS/NUV, TIME-TAG, PSA	G185M 1921 A	BUFFER-TIME=50 0; FLASH=YES; FP-POS=1			996 Secs [==>]	[1]
	5	spectrum (cos.sp.1802 97)	(3) BD-13D3442	COS/NUV, TIME-TAG, PSA	G185M 1921 A	BUFFER-TIME=50 0; FLASH=YES; FP-POS=2			996 Secs [==>]	[1]
	6	spectrum (cos.sp.1802 97)	(3) BD-13D3442	COS/NUV, TIME-TAG, PSA	G185M 1921 A	BUFFER-TIME=12 40; FLASH=YES; FP-POS=3			1457 Secs [==>]	[2]
	7	spectrum (cos.sp.1802 97)	(3) BD-13D3442	COS/NUV, TIME-TAG, PSA	G185M 1921 A	BUFFER-TIME=12 40; FLASH=YES; FP-POS=4			1457 Secs [==>]	[2]



Proposal 12565 - Visit 04 - Primordial Carbon Abundances in Extremely Metal-Poor Stars

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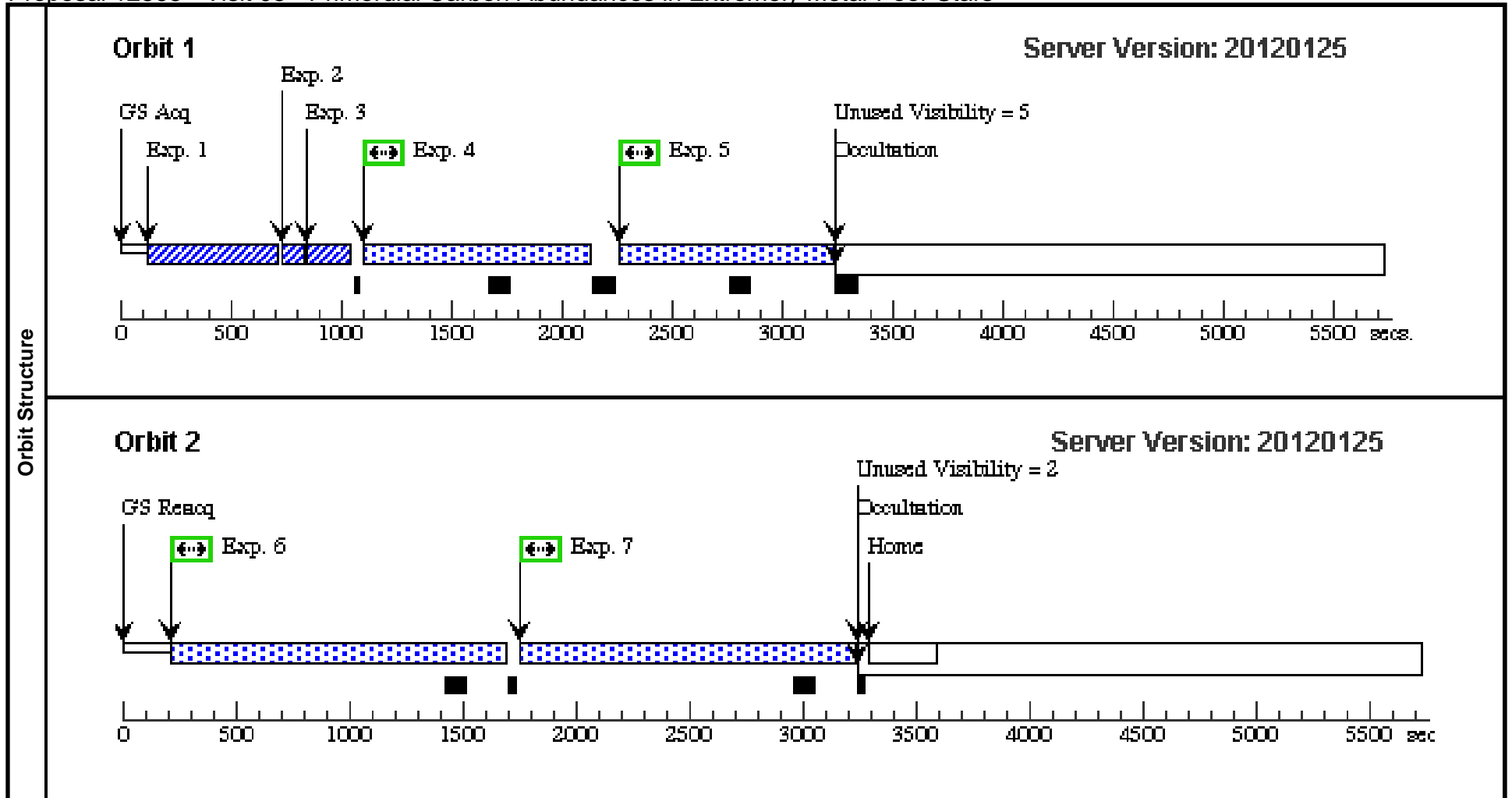
Visit	Proposal 12565, Visit 04, scheduling Diagnostic Status: No Diagnostics Scientific Instruments: COS/NUV Special Requirements: (none)																																																																																
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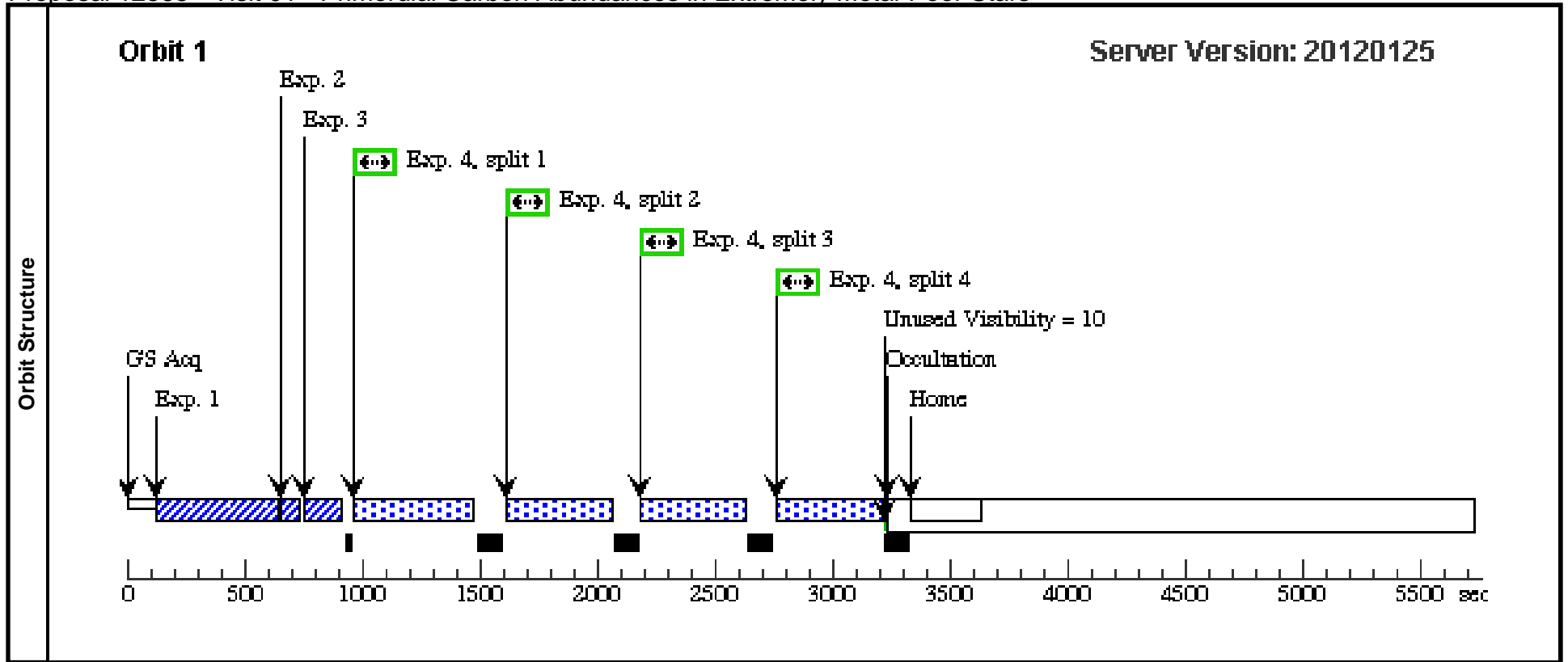


Proposal 12565 - Visit 05 - Primordial Carbon Abundances in Extremely Metal-Poor Stars

Sat Feb 11 02:03:32 GMT 2012

Visit	Proposal 12565, Visit 05, scheduling Diagnostic Status: No Diagnostics Scientific Instruments: COS/NUV Special Requirements: (none)																																																																																									
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3	sp.acq/d (cos.sa.1799 15)	(5) LP815-43	COS/NUV, ACQ/PEAKD, PSA	G185M 1921 A	NUM-POS=5; STEP-SIZE=.9; CENTER=FLUX-W T-FLR			11.2 Secs [==>]	[1]																																																																																	
4	spectrum (cos.sp.1803 06)	(5) LP815-43	COS/NUV, TIME-TAG, PSA	G185M 1921 A	BUFFER-TIME=50 0; FLASH=YES; FP-POS=1			949 Secs [==>]	[1]																																																																																	
5	spectrum (cos.sp.1803 06)	(5) LP815-43	COS/NUV, TIME-TAG, PSA	G185M 1921 A	BUFFER-TIME=50 0; FLASH=YES; FP-POS=2			949 Secs [==>]	[1]																																																																																	
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Proposal 12565 - Visit 51 - Primordial Carbon Abundances in Extremely Metal-Poor Stars

Sat Feb 11 02:03:33 GMT 2012

Visit	Proposal 12565, Visit 51 Diagnostic Status: No Diagnostics Scientific Instruments: COS/NUV Special Requirements: (none) <i>Comments: This visit is a repeat of failed visit 01</i>									
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous			
		(1)	BD+03D0740 Alt Name1: HIP23344 Alt Name2: TYC106-1237-1	RA: 05 01 16.5360 (75.3189000d) Dec: +04 06 38.27 (4.11063d) Equinox: J2000	Proper Motion RA: +156.3 mas/yr Proper Motion Dec: -142.7 mas/yr Parallax: .00879" Epoch of Position: 1991.58 Radial Velocity: +173.9 km/sec	V=9.82 B 10.18	Reference Frame: ICRS			
	<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. Parallax from Hipparcos I/311. RA, Dec, Epoch, Proper motion RA & Dec from Tycho2 I/259.</i>									
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	sp.acq/srch (cos.sa.179906)	(1) BD+03D0740	COS/NUV, ACQ/SEARCH, PSA	G185M 1921 A	SCAN-SIZE=3; STEP-SIZE=1.767; CENTER=FLUX-W T-FLR			2.8 Secs [==>]	[1]
	2	sp.acq/xd (cos.sa.179908)	(1) BD+03D0740	COS/NUV, ACQ/PEAKXD, PSA	G185M 1921 A				7.0 Secs [==>]	[1]
	3	sp.acq/d (cos.sa.179906)	(1) BD+03D0740	COS/NUV, ACQ/PEAKD, PSA	G185M 1921 A	NUM-POS=5; STEP-SIZE=.9; CENTER=FLUX-W T-FLR			2.8 Secs [==>]	[1]
	4	spectrum (cos.sp.180294)	(1) BD+03D0740	COS/NUV, TIME-TAG, PSA	G185M 1921 A	BUFFER-TIME=430; FLASH=YES; FP-POS=ALL			430 Secs [==>(Split 1)] [==>(Split 2)] [==>(Split 3)] [==>(Split 4)]	[1]

