



14151 - Constraining Pop III supernova energies and the formation of the first low-mass stars with the iron-poor star HE1327-2326 (with $[Fe/H] = -5.4$)

Cycle: 23, Proposal Category: GO

(Availability Mode: SUPPORTED)

INVESTIGATORS

<i>Name</i>	<i>Institution</i>	<i>E-Mail</i>
Prof. Anna Frebel (PI) (Contact)	Massachusetts Institute of Technology	afrebel@mit.edu
Dr. Ian U. Roederer (CoI)	University of Michigan	iur@umich.edu
Rana Ezzedine (CoI) (ESA Member)	Universite Montpellier II	rana.ezzeddine@univ-montp2.fr

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) HE1327-2326	COS/NUV	3	07-Jul-2015 21:11:37.0	yes
02	(1) HE1327-2326	COS/NUV	3	07-Jul-2015 21:11:40.0	yes
03	(1) HE1327-2326	COS/NUV	3	07-Jul-2015 21:11:42.0	yes
04	(1) HE1327-2326	COS/NUV	3	07-Jul-2015 21:11:44.0	yes
05	(1) HE1327-2326	COS/NUV	3	07-Jul-2015 21:11:45.0	yes
06	(1) HE1327-2326	COS/NUV	3	07-Jul-2015 21:11:47.0	yes
07	(1) HE1327-2326	COS/NUV	3	07-Jul-2015 21:11:49.0	yes
08	(1) HE1327-2326	COS/NUV	3	07-Jul-2015 21:11:51.0	yes
09	(1) HE1327-2326	COS/NUV	3	07-Jul-2015 21:11:53.0	yes
10	(1) HE1327-2326	COS/NUV	2	07-Jul-2015 21:11:55.0	yes

29 Total Orbits Used

ABSTRACT

The nucleosynthetic signatures of the first stars and supernovae are imprinted in the atmosphere of the long-lived, iron-poor star HE1327-2326 (with $[\text{Fe}/\text{H}] = -5.4$). Comparing the abundance signatures of stars like HE1327-2326 with predictions of early low-mass star formation pathways as well as low-metallicity supernova yields provides the only empirical constraints on these early processes, including the properties of the first stars (e.g. mass, explosion energy).

We propose COS high-resolution near-UV spectral observations of HE1327-2326, which is the only known member of the most iron-poor class of stars bright enough for HST observations. It thus provides us with a unique opportunity for a new abundance analysis to address the important and still unanswered questions about the deaths of Pop III stars and the formation of the first low-mass stars. Using the three COS stripes covering spectral portions between 2120Å and 2350Å, our specific goals are: (1) attempt a Si I detection to rule out that HE1327-2326 formed from dust-cooled gas; (2) attempt a Zn I detection at the level of $[\text{Zn}/\text{Fe}] \sim 0.5$. Such a detection would indicate a more energetic Pop III hypernova as progenitor. A non-detection (i.e., decreased upper limit) would provide additional evidence of the previously suggested faint, low-energy progenitor; (3) Fe II, Ni I and Ni II lines will be detected and enable detailed iron-peak element nucleosynthesis assessment in the first stars ii) calibration of our UV abundance scale, and iii) assessment of NLTE effects at this low metallicity and a surface gravity measurement. This will yield the kind of robust iron-peak pattern necessary for constraining the PopIII progenitor.

OBSERVING DESCRIPTION

The goal is to get as much S/N as possible (after many co-additions!) on some NUV spectral stripes of HE1327-2326. We use COS grating G225M, central wavelength 2233 Angstroms. I have verified the target confirmation chart for this star.

-- IUR, 06 July 2015

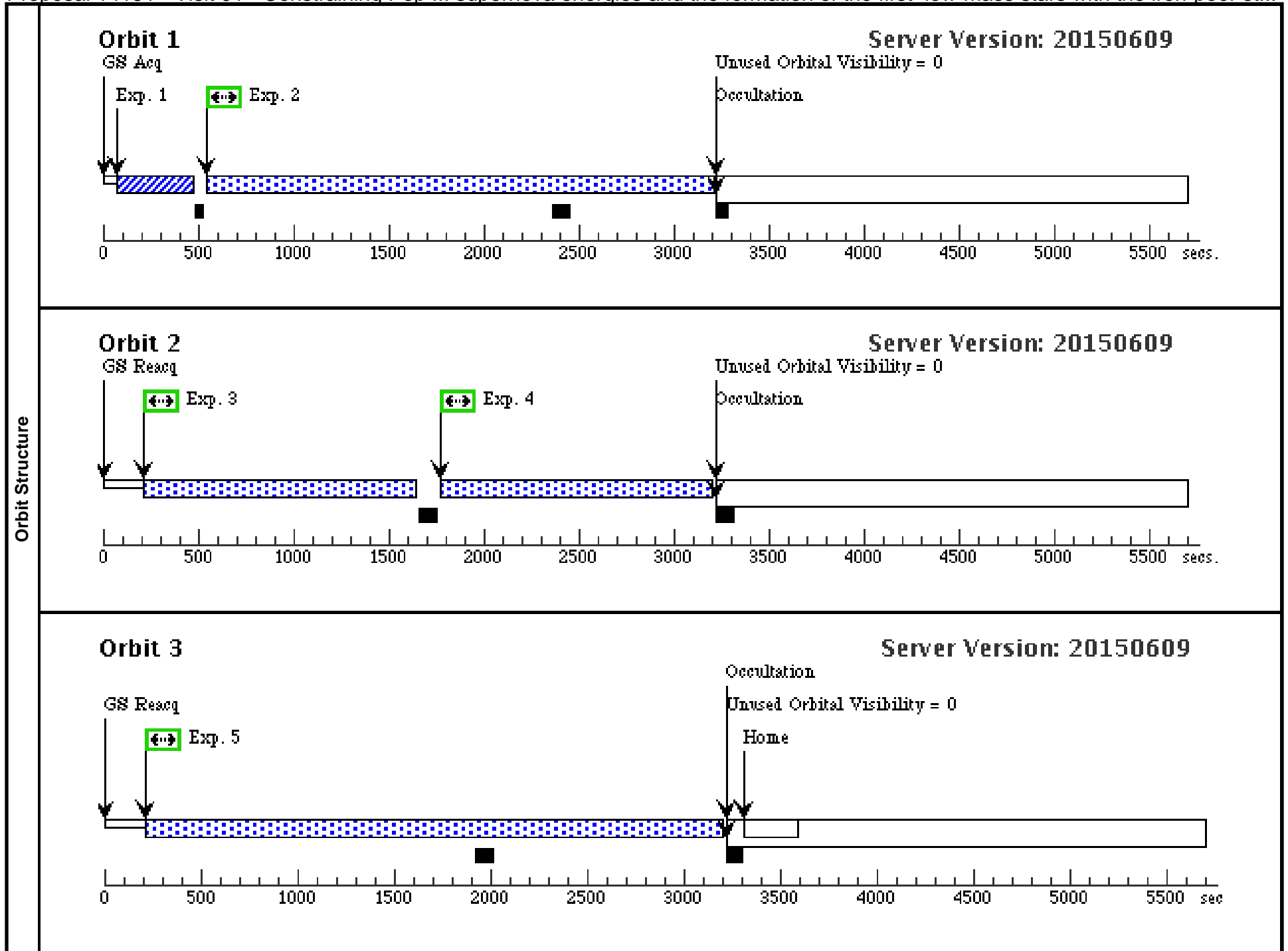
Proposal 14151 - Visit 01 - Constraining Pop III supernova energies and the formation of the first low-mass stars with the iron-poor st...

Wed Jul 08 01:11:56 GMT 2015

Visit	Proposal 14151, Visit 01				
	Diagnostic Status: No Diagnostics				
	Scientific Instruments: COS/NUV				
	Special Requirements: (none)				

Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(1)	HE1327-2326	RA: 13 30 5.9420 (202.5247583d) Dec: -23 41 49.69 (-23.69714d) Equinox: J2000	Proper Motion RA: -51.6 mas/yr Proper Motion Dec: 47.1 mas/yr Parallax: 0." Epoch of Position: 2000.0	V=13.5 U= 13.787	Reference Frame: ICRS
	<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i>					
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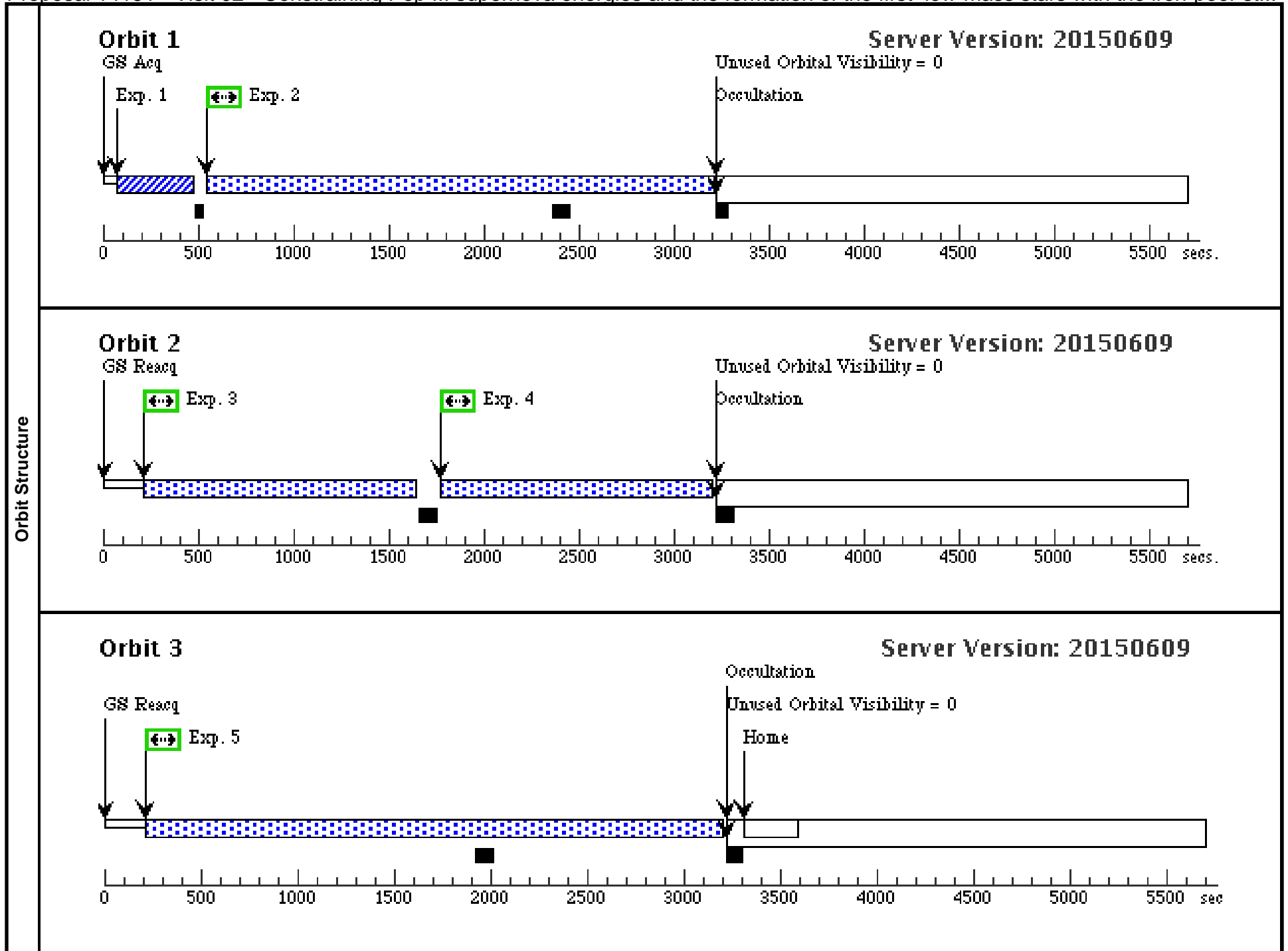
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit	
	1	ACQ/IMAG E (COS.ta.715 075)	(1) HE1327-2326	COS/NUV, ACQ/IMAGE, PSA	MIRRORB					40 Secs (40 Secs) [==>]	[1]
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5	SCIENCE 4 (COS.sp.702 317)	(1) HE1327-2326	COS/NUV, TIME-TAG, PSA	G225M 2233 A		BUFFER-TIME=17 05; FP-POS=4			3100 Secs (2973 Secs) [==>2973.0 Secs]	[3]	



Proposal 14151 - Visit 02 - Constraining Pop III supernova energies and the formation of the first low-mass stars with the iron-poor st...

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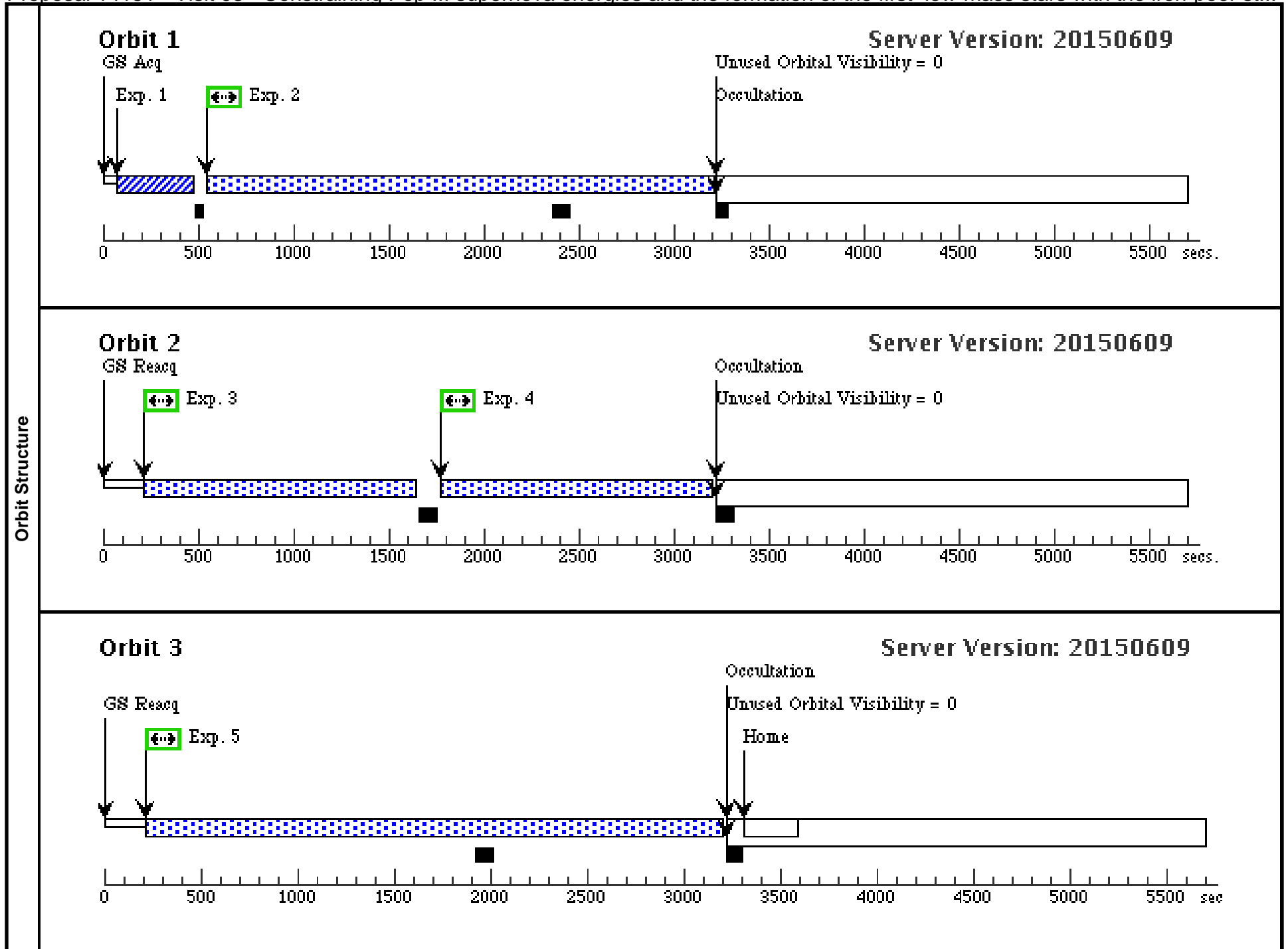
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Proposal 14151 - Visit 03 - Constraining Pop III supernova energies and the formation of the first low-mass stars with the iron-poor st...

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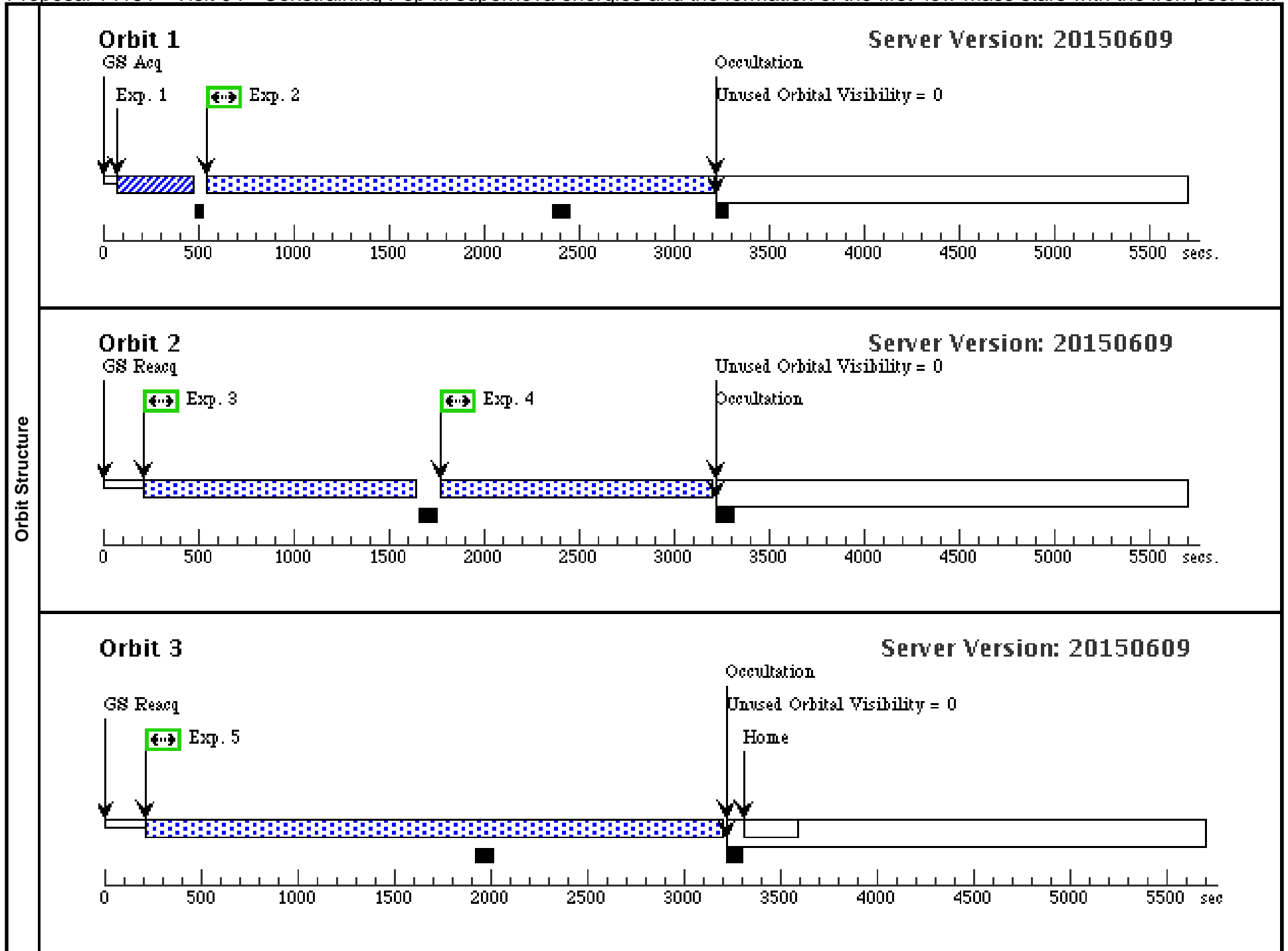
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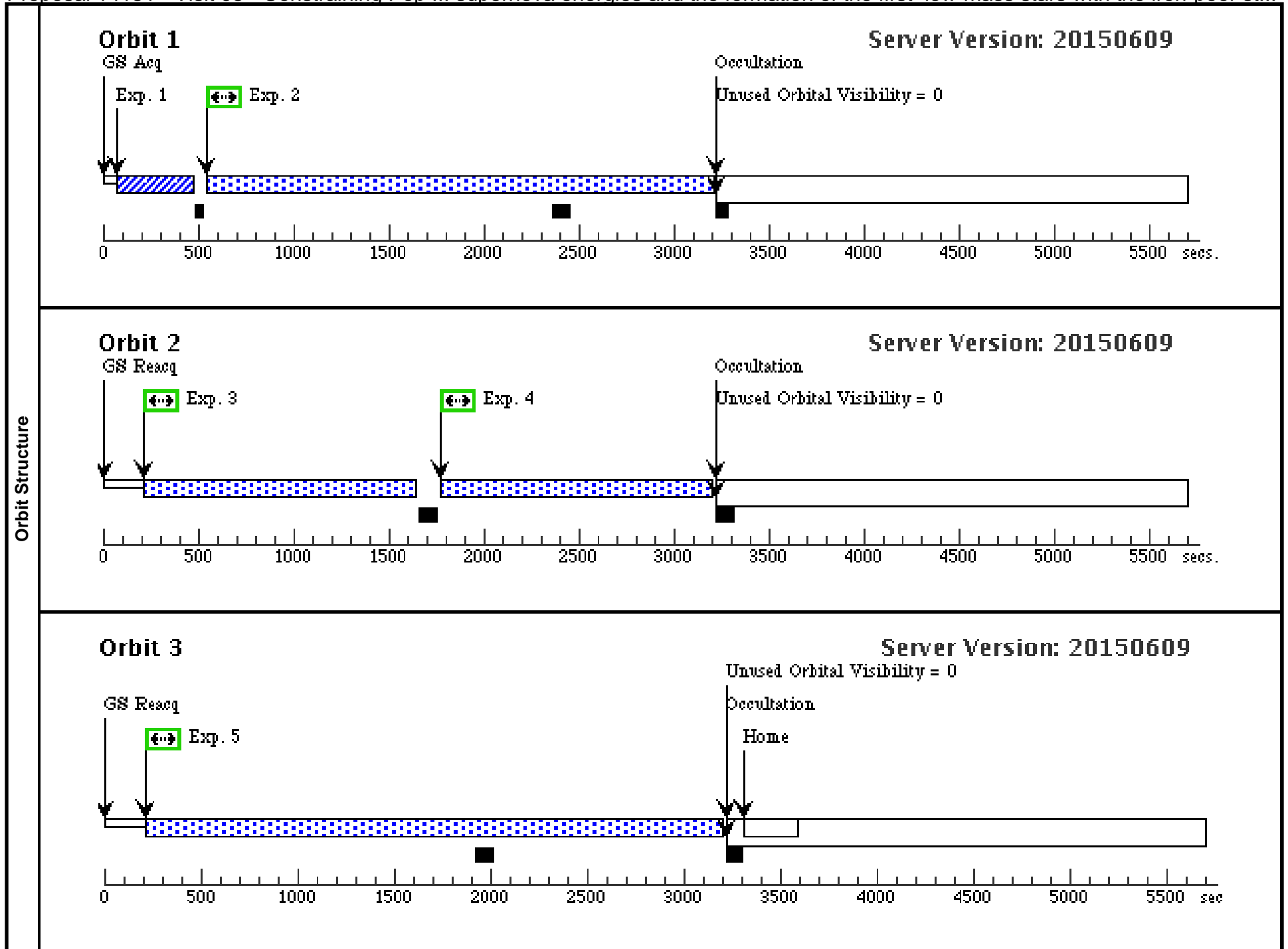
Visit	Proposal 14151, Visit 04 Diagnostic Status: No Diagnostics Scientific Instruments: COS/NUV Special Requirements: (none)									
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		(1)	HE1327-2326	RA: 13 30 5.9420 (202.5247583d) Dec: -23 41 49.69 (-23.69714d) Equinox: J2000	Proper Motion RA: -51.6 mas/yr Proper Motion Dec: 47.1 mas/yr Parallax: 0." Epoch of Position: 2000.0	V=13.5 U= 13.787	Reference Frame: ICRS			
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	2	SCIENCE 1 (COS.sp.702 317)	(1) HE1327-2326	COS/NUV, TIME-TAG, PSA	G225M 2233 A	BUFFER-TIME=17 05; FP-POS=1			2600 Secs (2540 Secs) [==>2540.0 Secs]	[1]
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	3	SCIENCE 2 (COS.sp.702 317)	(1) HE1327-2326	COS/NUV, TIME-TAG, PSA	G225M 2233 A	BUFFER-TIME=17 05; FP-POS=2			1450 Secs (1419 Secs) [==>1419.0 Secs]	[2]
	4	SCIENCE 3 (COS.sp.702 317)	(1) HE1327-2326	COS/NUV, TIME-TAG, PSA	G225M 2233 A	BUFFER-TIME=17 05; FP-POS=3			1450 Secs (1419 Secs) [==>1419.0 Secs]	[2]
	5	SCIENCE 4 (COS.sp.702 317)	(1) HE1327-2326	COS/NUV, TIME-TAG, PSA	G225M 2233 A	BUFFER-TIME=17 05; FP-POS=4			3100 Secs (2973 Secs) [==>2973.0 Secs]	[3]



Proposal 14151 - Visit 05 - Constraining Pop III supernova energies and the formation of the first low-mass stars with the iron-poor st...

Wed Jul 08 01:11:58 GMT 2015

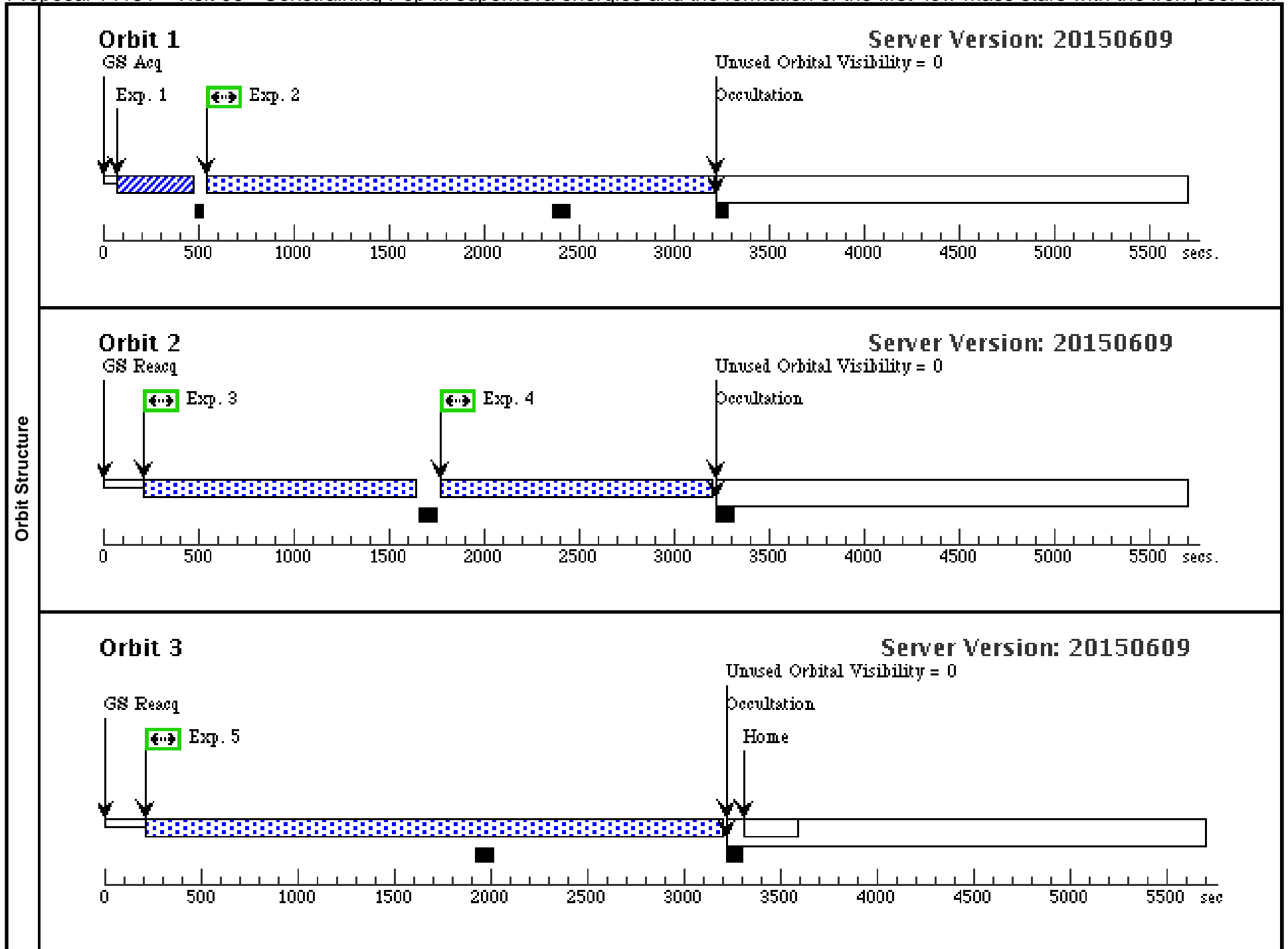
Visit	Proposal 14151, Visit 05 Diagnostic Status: No Diagnostics Scientific Instruments: COS/NUV Special Requirements: (none)																																																																																										
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Proposal 14151 - Visit 06 - Constraining Pop III supernova energies and the formation of the first low-mass stars with the iron-poor st...

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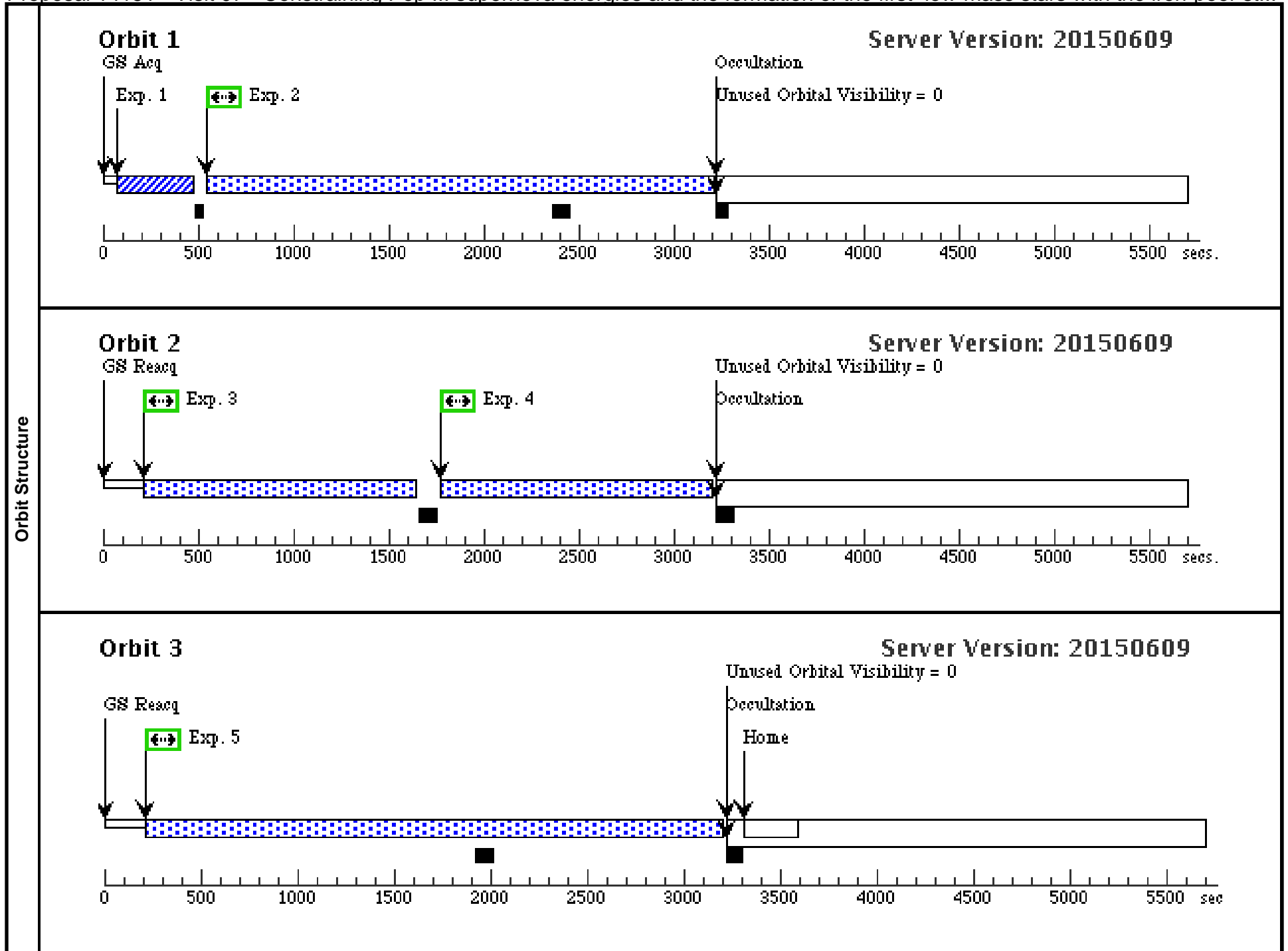
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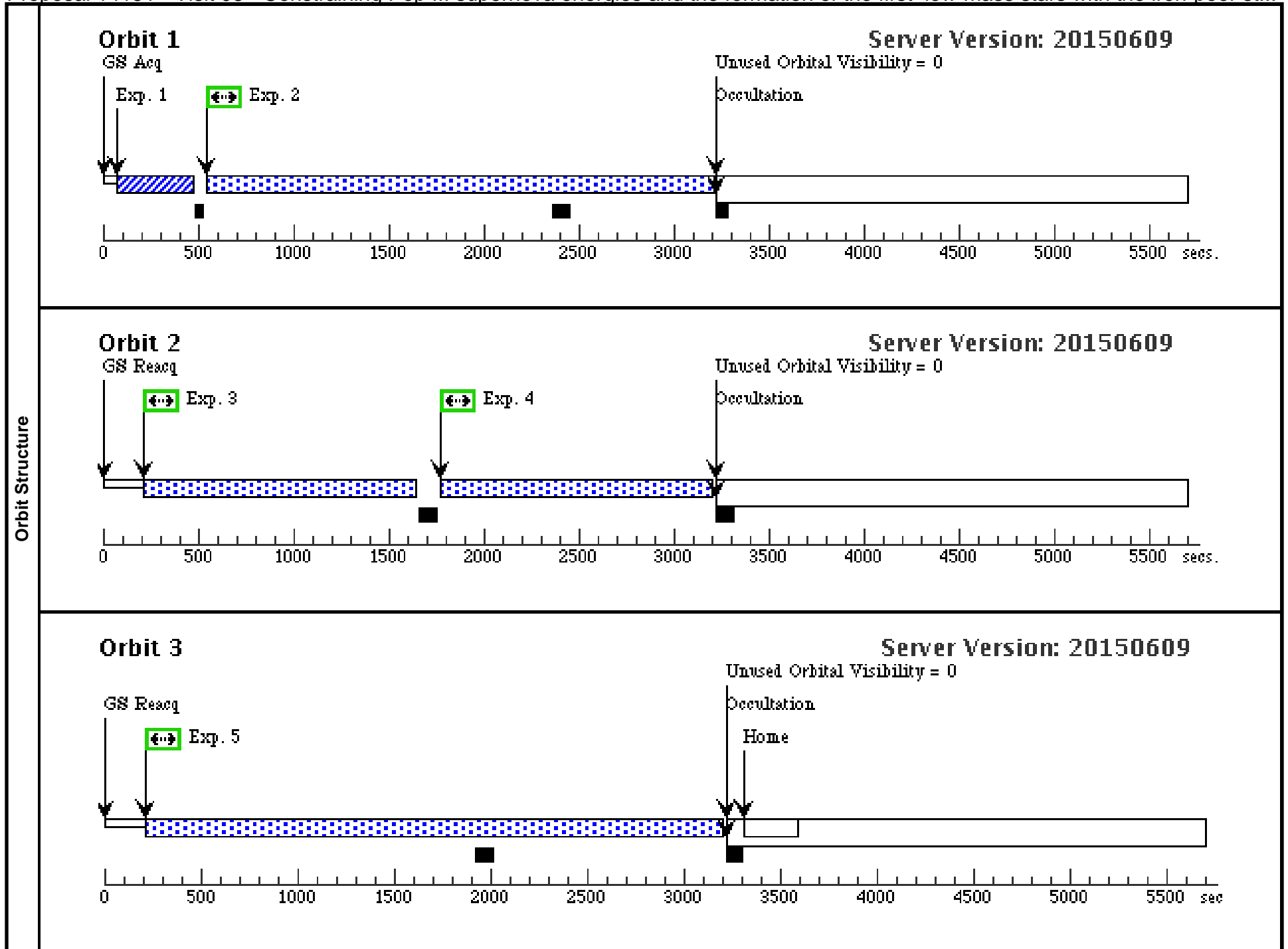
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Proposal 14151 - Visit 08 - Constraining Pop III supernova energies and the formation of the first low-mass stars with the iron-poor st...

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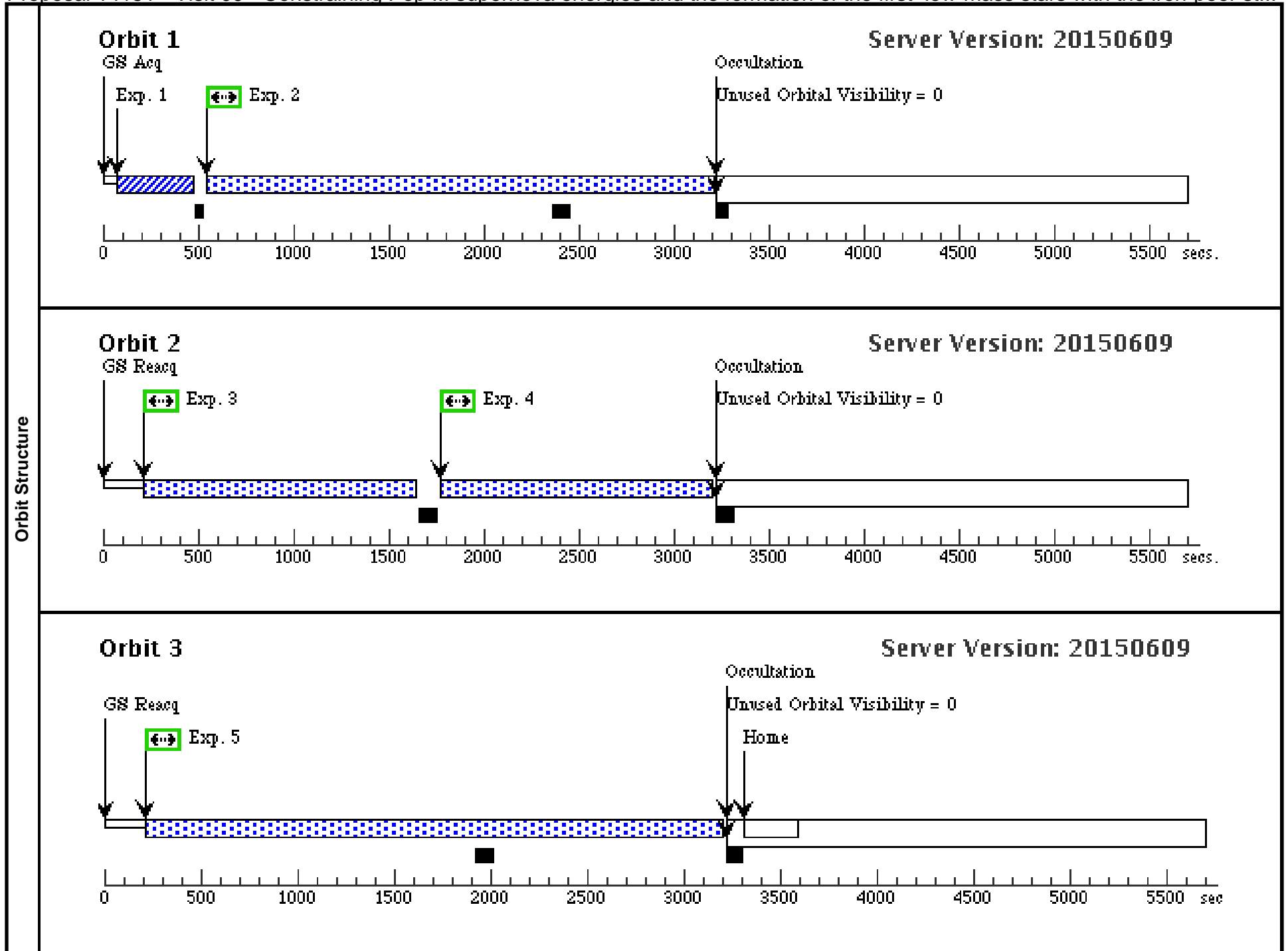
Visit	Proposal 14151, Visit 08 Diagnostic Status: No Diagnostics Scientific Instruments: COS/NUV Special Requirements: (none)									
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous			
		(1)	HE1327-2326	RA: 13 30 5.9420 (202.5247583d) Dec: -23 41 49.69 (-23.69714d) Equinox: J2000	Proper Motion RA: -51.6 mas/yr Proper Motion Dec: 47.1 mas/yr Parallax: 0." Epoch of Position: 2000.0	V=13.5 U= 13.787	Reference Frame: ICRS			
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	5	SCIENCE 4 (COS.sp.702 317)	(1) HE1327-2326	COS/NUV, TIME-TAG, PSA	G225M 2233 A	BUFFER-TIME=17 05; FP-POS=4			3100 Secs (2973 Secs) [==>2973.0 Secs]	[3]



Proposal 14151 - Visit 09 - Constraining Pop III supernova energies and the formation of the first low-mass stars with the iron-poor st...

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Proposal 14151 - Visit 10 - Constraining Pop III supernova energies and the formation of the first low-mass stars with the iron-poor st...

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Exposures	<table border="1"> <thead> <tr> <th>#</th> <th>Label (ETC Run)</th> <th>Target</th> <th>Config,Mode,Aperture</th> <th>Spectral Els.</th> <th>Opt. Params.</th> <th>Special Reqs.</th> <th>Groups</th> <th>Exp. Time (Total)/[Actual Dur.]</th> <th>Orbit</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>ACQ/IMAG E (COS.ta.715 075)</td> <td>(1) HE1327-2326</td> <td>COS/NUV, ACQ/IMAGE, PSA</td> <td>MIRRORB</td> <td></td> <td></td> <td></td> <td>40 Secs (40 Secs) [==>]</td> <td>[1]</td> </tr> <tr> <td colspan="10"> <i>Comments: Target is not too bright for MIRRORB acquisition exposures. Also, coordinates are very good, so follow sequence #1 in Table 8.1.</i> <i>Exposure time is ETC value, rounded up.</i> </td> </tr> <tr> <td>2</td> <td>SCIENCE 1 (COS.sp.702 317)</td> <td>(1) HE1327-2326</td> <td>COS/NUV, TIME-TAG, PSA</td> <td>G225M 2233 A</td> <td>BUFFER-TIME=17 05; FP-POS=1</td> <td></td> <td></td> <td>1220 Secs (1207 Secs) [==>1207.0 Secs]</td> <td>[1]</td> </tr> <tr> <td colspan="10"> <i>Comments: Buffer time is 2/3 times ETC value (calculated for total integration time).</i> </td> </tr> <tr> <td>3</td> <td>SCIENCE 2 (COS.sp.702 317)</td> <td>(1) HE1327-2326</td> <td>COS/NUV, TIME-TAG, PSA</td> <td>G225M 2233 A</td> <td>BUFFER-TIME=17 05; FP-POS=2</td> <td></td> <td></td> <td>1220 Secs (1207 Secs) [==>1207.0 Secs]</td> <td>[1]</td> </tr> <tr> <td>4</td> <td>SCIENCE 3 (COS.sp.702 317)</td> <td>(1) HE1327-2326</td> <td>COS/NUV, TIME-TAG, PSA</td> <td>G225M 2233 A</td> <td>BUFFER-TIME=17 05; FP-POS=3</td> <td></td> <td></td> <td>1460 Secs (1419 Secs) [==>1419.0 Secs]</td> <td>[2]</td> </tr> <tr> <td>5</td> <td>SCIENCE 4 (COS.sp.702 317)</td> <td>(1) HE1327-2326</td> <td>COS/NUV, TIME-TAG, PSA</td> <td>G225M 2233 A</td> <td>BUFFER-TIME=17 05; FP-POS=4</td> <td></td> <td></td> <td>1460 Secs (1419 Secs) [==>1419.0 Secs]</td> <td>[2]</td> </tr> </tbody> </table>	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit	1	ACQ/IMAG E (COS.ta.715 075)	(1) HE1327-2326	COS/NUV, ACQ/IMAGE, PSA	MIRRORB				40 Secs (40 Secs) [==>]	[1]	<i>Comments: Target is not too bright for MIRRORB acquisition exposures. Also, coordinates are very good, so follow sequence #1 in Table 8.1.</i> <i>Exposure time is ETC value, rounded up.</i>										2	SCIENCE 1 (COS.sp.702 317)	(1) HE1327-2326	COS/NUV, TIME-TAG, PSA	G225M 2233 A	BUFFER-TIME=17 05; FP-POS=1			1220 Secs (1207 Secs) [==>1207.0 Secs]	[1]	<i>Comments: Buffer time is 2/3 times ETC value (calculated for total integration time).</i>										3	SCIENCE 2 (COS.sp.702 317)	(1) HE1327-2326	COS/NUV, TIME-TAG, PSA	G225M 2233 A	BUFFER-TIME=17 05; FP-POS=2			1220 Secs (1207 Secs) [==>1207.0 Secs]	[1]	4	SCIENCE 3 (COS.sp.702 317)	(1) HE1327-2326	COS/NUV, TIME-TAG, PSA	G225M 2233 A	BUFFER-TIME=17 05; FP-POS=3			1460 Secs (1419 Secs) [==>1419.0 Secs]	[2]	5	SCIENCE 4 (COS.sp.702 317)	(1) HE1327-2326	COS/NUV, TIME-TAG, PSA	G225M 2233 A	BUFFER-TIME=17 05; FP-POS=4			1460 Secs (1419 Secs) [==>1419.0 Secs]	[2]
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