



18437 - Building a MgII h+k age-activity relation for old main sequence stars

Cycle: 34, Proposal Category: GO

(UV Initiative, HWO Precursor Science (HPS))

(Availability Mode: SUPPORTED)

INVESTIGATORS

<i>Name</i>	<i>Institution</i>
Dr. Carl Melis (PI) (Contact)	University of California - San Diego

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) CD-41-222 WAVE	STIS/CCD STIS/NUV-MAMA	1	26-Aug-2026 09:00:30.0	yes
02	(2) HD-229513 WAVE	STIS/CCD STIS/NUV-MAMA	1	26-Aug-2026 09:00:30.0	yes
03	(3) HD-183727 WAVE	STIS/CCD STIS/NUV-MAMA	1	26-Aug-2026 09:00:30.0	yes
04	(4) BD+46-2729 WAVE	STIS/CCD STIS/NUV-MAMA	1	26-Aug-2026 09:00:31.0	yes
05	(5) HD-2122 WAVE	STIS/CCD STIS/NUV-MAMA	1	26-Aug-2026 09:00:31.0	yes
06	(6) -PI.-MEN WAVE	STIS/CCD STIS/NUV-MAMA	1	26-Aug-2026 09:00:31.0	yes

Visit	Targets used in Visit	Configurations used in Visit	Orbits Used	Last Orbit Planner Run	OP Current with Visit?
07	(7) -ZET-TUC WAVE	STIS/CCD STIS/FUV-MAMA STIS/NUV-MAMA	1	26-Aug-2026 09:00:32.0	yes
08	(8) -LAM-SER WAVE	STIS/CCD STIS/FUV-MAMA STIS/NUV-MAMA	1	26-Aug-2026 09:00:32.0	yes
09	(9) -GAM-PAV	STIS/CCD STIS/FUV-MAMA STIS/NUV-MAMA	1	26-Aug-2026 09:00:33.0	yes
10	(10) -ALF-MEN WAVE	STIS/CCD STIS/FUV-MAMA STIS/NUV-MAMA	1	26-Aug-2026 09:00:33.0	yes
11	(11) BD+38-3583 WAVE	STIS/CCD STIS/NUV-MAMA	1	26-Aug-2026 09:00:34.0	yes
12	(12) BD+46-2726 WAVE	STIS/CCD STIS/NUV-MAMA	1	26-Aug-2026 09:00:34.0	yes
13	(13) BD+41-3306 WAVE	STIS/CCD STIS/NUV-MAMA	1	26-Aug-2026 09:00:34.0	yes
14	(14) HD-28099 WAVE	STIS/CCD STIS/NUV-MAMA	1	26-Aug-2026 09:00:35.0	yes

14 Total Orbits Used

ABSTRACT

The hunt is on for robust and widely applicable means of assessing the ages of older stars in the solar neighborhood and beyond. Past works suggest that chromospheric ultraviolet MgII emission may be a sensitive indicator of stellar age past 1 Gyr, but well-calibrated age-activity relations remain to be produced. Establishing such a relation would open up a variety of exoplanet host star and Galactic evolution research paths. We propose to obtain a solid anchoring of any putative MgII age-activity relation for Sun-like stars by combining already existing measurements with new observations of stars having well-measured ages from asteroseismology and binary companions. With the proposed dataset we will be able to assess

Proposal 18437 (STScI Edit Number: 0, Created: Wednesday, August 26, 2026, 8:00:35AM Eastern Standard Time) - Overview

the reliability and predictive capability of a MgII age-activity relation for main sequence stars older than roughly 1 Gyr. The proposed data will also be of great value in assessing ultraviolet properties of stars that are part of the Habitable Worlds Observatory target list.

OBSERVING DESCRIPTION

These observations will primarily obtain NUV spectra for a variety of Sun-like star targets. The experimental design borrows from past successful observations of similar stars in the same setups. NUV will use the E230M or E230H gratings depending on source brightness centered on the MgII h+k lines (emission from these transitions is the primary objective) and seek to obtain S/N of at $>\sim 10$ in the MgII absorption cores. For especially bright stars where NUV exposures are short, we will fill remaining time with FUV observations using the E140M grating; the stellar continuum will not be detected in the FUV but several strong chromospheric emission lines will be present and will provide lasting archival value.

Acquisition will depend on target source brightness. Most targets will follow standard acquisition protocol with imaging in the F28X50LP, F28X50OIII, or F28X50OII filters to optimally place the targets in the 0.2"x0.2" spectral aperture. The two brightest targets (gamma Pav and zeta Tuc) will initially use the narrowband OIII filter and then will pickup in a small aperture to optimally place them in their respective narrow spectral apertures.

We have carefully checked that all targets will not saturate in either the NUV or FUV for the chosen aperture and exposure times and will provide signal-to-noise $>\sim 100$ (without saturating) for acquisition sequences. NUV will use ACCUM mode while TIME-TAG will be used for the FUV where we do not expect to detect stellar continuum; only emission lines will be detected and we have confirmed that the brightest emission line (Lyman-alpha) will not overwhelm the buffer for the chosen dump time.

Proposal 18437 - CD-41-222STIS (01) - Building a MgII h+k age-activity relation for old main sequence stars

Visit	Proposal 18437, CD-41-222STIS (01)										Wed Aug 26 13:00:35 GMT 2026	
	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-41-222	RA: 00 51 46.8029 (12.9450121d)	Proper Motion RA: 3.837 mas/yr			V=10.73		Reference Frame: ICRS			
		Alt Name1: GAIA-DR3-4987088807460766336	Dec: -40 59 47.94 (-40.99665d)	Proper Motion Dec: 2.6 mas/yr			Age=1.1+/-0.1 Gyr,					
			Equinox: J2000	Parallax: 0.0072556"			companion to WDJ005152.55-405952.13,					
				Epoch of Position: 2016			mNUV=15.95					
	Comments: Category=STAR Description=[G V-IV] 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.236 2031)	(1) CD-41-222	STIS/CCD, ACQ, F28X50LP	MIRROR	ACQTYPE=POINT			0.2 Secs (0.2 Secs)			
									[==>]		[1]	
	2	(STIS.sp.23 62041)	(1) CD-41-222	STIS/NUV-MAMA, ACCUM, 0.2X0.2	E230M 2561 A	WAVECAL=NO			2249 Secs (2249 Secs)			
									[==>]		[1]	
	3		WAVE	STIS/NUV-MAMA, ACCUM, 0.2X0.2	E230M 2561 A				[==>]		[1]	
Orbit Structure	Orbit 1											
	Server Version: 20260618											
	Unused Orbital Visibility = 0 Occultation Exp. 3 Home Exp. 1 Exp. 2 GS Acq											

Proposal 18437 - HD-229513STIS (02) - Building a MgII h+k age-activity relation for old main sequence stars

Visit	Proposal 18437, HD-229513STIS (02)										Wed Aug 26 13:00:35 GMT 2026
	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)	HD-229513	RA: 18 47 41.2888 (281.9220367d)		Proper Motion RA: 55.367 mas/yr		V=8.95		Reference Frame: ICRS		
		Alt Name1: GAIA-DR3-4504577990890909184	Dec: +12 26 23.29 (12.43980d)		Proper Motion Dec: 1.263 mas/yr		Age=1.5+/-0.1 Gyr,				
			Equinox: J2000		Parallax: 0.0346854"		companion to WDJ184741.53+122631.75				
	Comments: Category=STAR Description=[K V-IV] 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.236 2045)	(2) HD-229513	STIS/CCD, ACQ, F28X50OIII	MIRROR	ACQTYPE=POINT			2 Secs (2 Secs)		
									[==>]		[1]
	2	(STIS.sp.23 62047)	(2) HD-229513	STIS/NUV-MAMA, ACCUM, 0.2X0.2	E230M 2561 A	WAVECAL=NO			2169 Secs (2169 Secs)		
									[==>]		[1]
	3		WAVE	STIS/NUV-MAMA, ACCUM, 0.2X0.2	E230M 2561 A				[==>]		[1]
Orbit Structure	Orbit 1 Server Version: 20260618 Unused Orbital Visibility = 0 Occultation Exp. 3 Home Exp. 2 Exp. 1 GS Acq 0 500 1000 1500 2000 2500 3000 3500 4000 4500 5000 5500 6000 sec										

Proposal 18437 - HD-183727STIS (03) - Building a MgII h+k age-activity relation for old main sequence stars

Visit	Proposal 18437, HD-183727STIS (03)										Wed Aug 26 13:00:35 GMT 2026
	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)	HD-183727	RA: 19 29 1.6305 (292.2567938d)		Proper Motion RA: 27.901 mas/yr		V=8.49		Reference Frame: ICRS		
		Alt Name1: GAIA-DR3-2125912230597714944	Dec: +43 10 35.17 (43.17644d)		Proper Motion Dec: 67.97 mas/yr		Age=1.9+/-0.3 Gyr,				
			Equinox: J2000		Parallax: 0.0089874"		asteroseismology,				
					Epoch of Position: 2016		mNUV=13.3				
	Comments: Category=STAR Description=[F3-F9] 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.236 2050)	(3) HD-183727	STIS/CCD, ACQ, F28X50OIII	MIRROR	ACQTYPE=POINT			2 Secs (2 Secs)		
									[==>]		[1]
	2	(STIS.sp.23 62053)	(3) HD-183727	STIS/NUV-MAMA, ACCUM, 0.2X0.2	E230M 2561 A	WAVECAL=NO			2196 Secs (2196 Secs)		
									[==>]		[1]
	3		WAVE	STIS/NUV-MAMA, ACCUM, 0.2X0.2	E230M 2561 A				[==>]		[1]
Orbit Structure	Orbit 1 Server Version: 20260618 GS Acq Exp. 1 Exp. 2 Occultation Unused Orbital Visibility = 0 Exp. 3 Home 0 500 1000 1500 2000 2500 3000 3500 4000 4500 5000 5500 6000 sec										

Proposal 18437 - BD+46-2729STIS (04) - Building a MgII h+k age-activity relation for old main sequence stars

Visit	Proposal 18437, BD+46-2729STIS (04)										Wed Aug 26 13:00:35 GMT 2026
	Diagnostic Status: No Diagnostics										
	Scientific Instruments: STIS/NUV-MAMA, STIS/CCD										
	Special Requirements: (none)										
Fixed Targets	#	Name	Target Coordinates		Targ. Coord. Corrections		Fluxes		Miscellaneous		
	(4)	BD+46-2729	RA: 19 35 5.1993 (293.7716637d)		Proper Motion RA: 21.326 mas/yr		V=9.81		Reference Frame: ICRS		
		Alt Name1: GAIA-DR3-2128218559316957824	Dec: +46 58 30.47 (46.97513d)		Proper Motion Dec: 59.42 mas/yr		Age=2.5+/-0.6 Gyr,				
			Equinox: J2000		Parallax: 0.005822600000000001"		asteroseismology,				
					Epoch of Position: 2016		mNUV=14.3				
	Comments: Category=STAR Description=[F3-F9] 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.236 2319)	(4) BD+46-2729	STIS/CCD, ACQ, F28X50LP	MIRROR	ACQTYPE=POINT			0.1 Secs (0.1 Secs)		
									[==>]	[1]	
	2	(STIS.sp.23 62270)	(4) BD+46-2729	STIS/NUV-MAMA, ACCUM, 0.2X0.2	E230M 2561 A	WAVECAL=NO			2259 Secs (2259 Secs)		
									[==>]	[1]	
	3		WAVE	STIS/NUV-MAMA, ACCUM, 0.2X0.2	E230M 2561 A				[==>]	[1]	
Orbit Structure	Orbit 1 Server Version: 20260618										

Proposal 18437 - HD-2122STIS (05) - Building a MgII h+k age-activity relation for old main sequence stars

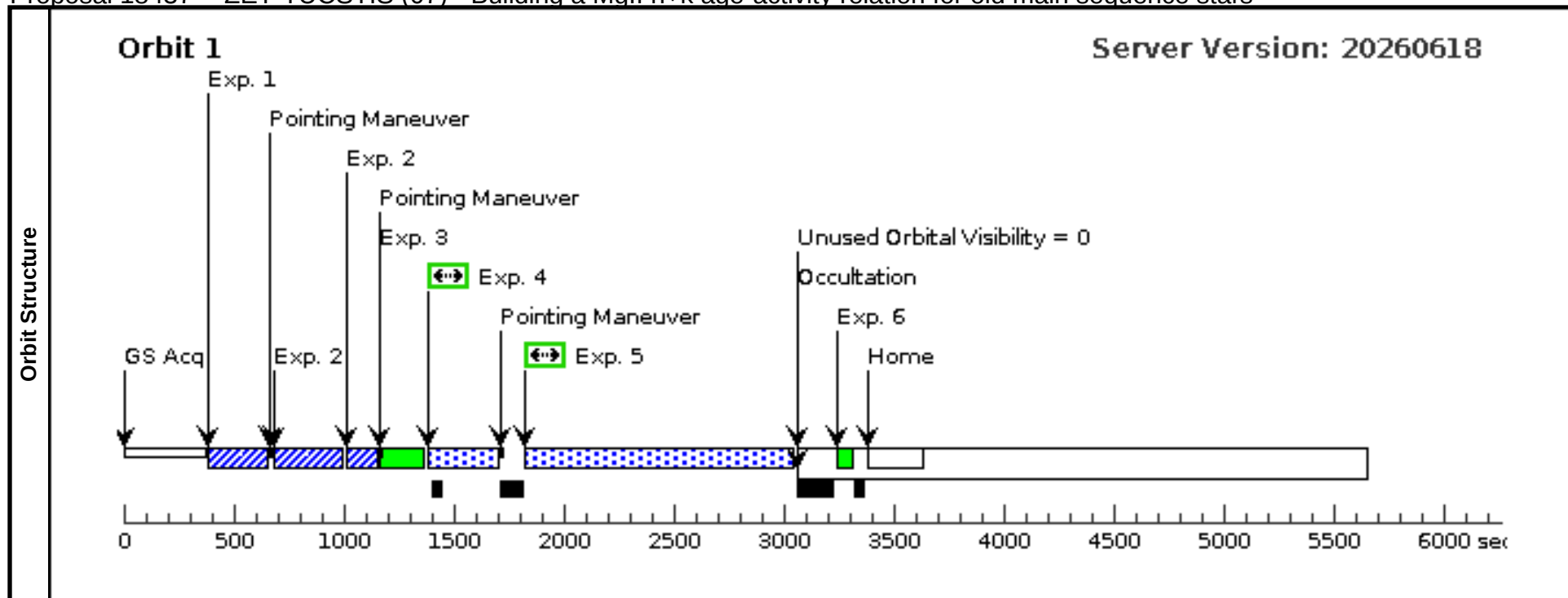
Visit	Proposal 18437, HD-2122STIS (05)										Wed Aug 26 13:00:35 GMT 2026	
	Diagnostic Status: No Diagnostics											
	Scientific Instruments: STIS/NUV-MAMA, STIS/CCD											
	Special Requirements: (none)											
Fixed Targets	#	Name	Target Coordinates		Targ. Coord. Corrections		Fluxes		Miscellaneous			
	(5)	HD-2122	RA: 00 24 56.9838 (6.2374325d)		Proper Motion RA: -70.623 mas/yr		V=8.8		Reference Frame: ICRS			
		Alt Name1: GAIA-DR3-4900583252677355776	Dec: -63 57 2.50 (-63.95069d)		Proper Motion Dec: -44.413 mas/yr		Age=2.9+/-0.1 Gyr,					
			Equinox: J2000		Parallax: 0.0125925"		companion to WDJ002500.50-635646.91,					
					Epoch of Position: 2016		mNUV=13.5					
	Comments: Category=STAR Description=[F3-F9] 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.236 2278)	(5) HD-2122	STIS/CCD, ACQ, F28X500II	MIRROR	ACQTYPE=POINT			2 Secs (2 Secs)			
									[==>]		[1]	
	2	(STIS.sp.23 62286)	(5) HD-2122	STIS/NUV-MAMA, ACCUM, 0.2X0.2	E230M	WAVECAL=NO			2273 Secs (2273 Secs)			
					2561 A				[==>]		[1]	
	3		WAVE	STIS/NUV-MAMA, ACCUM, 0.2X0.2	E230M				[==>]		[1]	
					2561 A							
Orbit Structure	Orbit 1											Server Version: 20260618
	GS Acq Exp. 1 Exp. 2 Unused Orbital Visibility = 0 Occultation Exp. 3 Home 0 500 1000 1500 2000 2500 3000 3500 4000 4500 5000 5500 6000 sec											

Proposal 18437 - -PI.-MENSTIS (06) - Building a MgII h+k age-activity relation for old main sequence stars

Visit	Proposal 18437, -PI.-MENSTIS (06)										Wed Aug 26 13:00:35 GMT 2026	
	Diagnostic Status: No Diagnostics											
	Scientific Instruments: STIS/NUV-MAMA, STIS/CCD											
	Special Requirements: (none)											
Fixed Targets	#	Name	Target Coordinates		Targ. Coord. Corrections		Fluxes		Miscellaneous			
	(6)	-PI.-MEN	RA: 05 37 11.8897 (84.2995404d)		Proper Motion RA: 310.909 mas/yr		V=5.65		Reference Frame: ICRS			
		Alt Name1: GAIA-DR3-4623036865373793408	Dec: -80 27 52.05 (-80.46446d)		Proper Motion Dec: 1049.06 mas/yr		Age=3.8+/-0.7 Gyr, asteroseismology					
			Equinox: J2000		Parallax: 0.0546825"							
	Comments: Category=STAR Description=[G V-IV] 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.236 2330)	(6) -PI.-MEN	STIS/CCD, ACQ, F28X50OII	MIRROR	ACQTYPE=POINT			0.1 Secs (0.1 Secs)			
									[==>]		[1]	
	2	(STIS.sp.23 62342)	(6) -PI.-MEN	STIS/NUV-MAMA, ACCUM, 0.2X0.2	E230H 2762 A	WAVECAL=NO			2398 Secs (2398 Secs)			
									[==>]		[1]	
	3		WAVE	STIS/NUV-MAMA, ACCUM, 0.2X0.2	E230H 2762 A				[==>]		[1]	
Orbit Structure	Orbit 1											
	Server Version: 20260618											

Proposal 18437 - -ZET-TUCSTIS (07) - Building a MglI h+k age-activity relation for old main sequence stars

Visit	Proposal 18437, -ZET-TUCSTIS (07)										Wed Aug 26 13:00:35 GMT 2026	
	Diagnostic Status: No Diagnostics											
	Scientific Instruments: STIS/NUV-MAMA, STIS/CCD, STIS/FUV-MAMA											
	Special Requirements: (none)											
Fixed Targets	#	Name	Target Coordinates		Targ. Coord. Corrections		Fluxes		Miscellaneous			
	(7)	-ZET-TUC	RA: 00 20 8.5463 (5.0356096d)		Proper Motion RA: 1706.747 mas/yr		V=4.23		Reference Frame: ICRS			
		Alt Name1: GAIA-DR3-4900108950849461248	Dec: -64 52 10.62 (-64.86962d)		Proper Motion Dec: 1164.959 mas/yr		Age=5.3+/-0.5 Gyr, asteroseismology					
			Equinox: J2000		Parallax: 0.1161826"							
	Comments: Category=STAR Description=[F3-F9] 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.236 2737)	(7) -ZET-TUC	STIS/CCD, ACQ, F28X50OIII	MIRROR	ACQTYPE=POINT			0.1 Secs (0.1 Secs)			
									[==>]		[1]	
	2	(STIS.ta.236 2761)	(7) -ZET-TUC	STIS/CCD, ACQ/PEAK, 0.3X0.05ND	MIRROR				1 Secs (1 Secs)			
									[==>]		[1]	
	3		WAVE	STIS/NUV-MAMA, ACCUM, 0.2X0.09	E230H 2762 A				[==>]		[1]	
	4	(STIS.sp.23 62776)	(7) -ZET-TUC	STIS/NUV-MAMA, ACCUM, 0.2X0.09	E230H 2762 A	WAVECAL=NO			300 Secs (300 Secs)			
									[==>]		[1]	
	5	(STIS.sp.23 62779)	(7) -ZET-TUC	STIS/FUV-MAMA, TIME-TAG, 0.2X0.2	E140M 1425 A	BUFFER-TIME=90 0;			1055 Secs (1055 Secs)			
						WAVECAL=NO			[==>]		[1]	
6		WAVE	STIS/FUV-MAMA, ACCUM, 0.2X0.2	E140M 1425 A				[==>]		[1]		

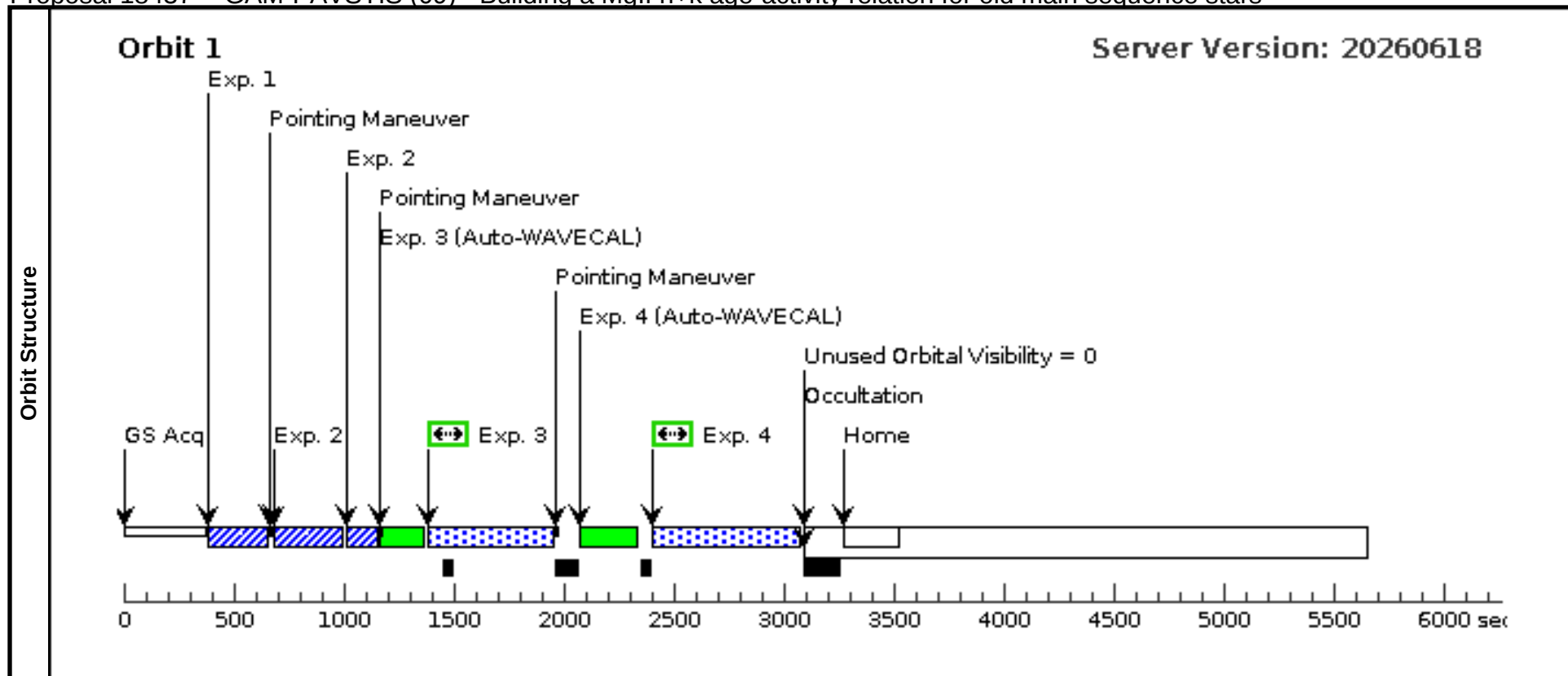


Proposal 18437 - -LAM-SERSTIS (08) - Building a MglI h+k age-activity relation for old main sequence stars

Visit	Proposal 18437, -LAM-SERSTIS (08)										Wed Aug 26 13:00:35 GMT 2026	
	Diagnostic Status: No Diagnostics											
	Scientific Instruments: STIS/NUV-MAMA, STIS/CCD, STIS/FUV-MAMA											
	Special Requirements: (none)											
Fixed Targets	#	Name	Target Coordinates		Targ. Coord. Corrections		Fluxes		Miscellaneous			
	(8)	-LAM-SER	RA: 15 46 26.3734 (236.6098892d)		Proper Motion RA: -223.952 mas/yr		V=4.42		Reference Frame: ICRS			
		Alt Name1: GAIA-DR3-4430238051199001216	Dec: +07 21 9.93 (7.35276d) Equinox: J2000		Proper Motion Dec: -69.763 mas/yr Parallax: 0.0839214" Epoch of Position: 2016		Age=5.4+/-0.7 Gyr, asteroseismology					
	Comments: Category=STAR Description=[G V-IV] 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.236 4105)	(8) -LAM-SER	STIS/CCD, ACQ, F28X50OIII		MIRROR	ACQTYPE=POINT			0.1 Secs (0.1 Secs)		
										[==>]		[1]
	2		WAVE	STIS/NUV-MAMA, ACCUM, 0.2X0.2		E230H 2762 A				[==>]		[1]
	3	(STIS.sp.23 64106)	(8) -LAM-SER	STIS/NUV-MAMA, ACCUM, 0.2X0.2		E230H 2762 A	WAVECAL=NO			300 Secs (300 Secs)		
										[==>]		[1]
	4	(STIS.sp.23 64113)	(8) -LAM-SER	STIS/FUV-MAMA, TIME-TAG, 0.2X0.2		E140M 1425 A	WAVECAL=NO; BUFFER-TIME=90 0			1515 Secs (1515 Secs)		
									[==>]		[1]	
5		WAVE	STIS/FUV-MAMA, ACCUM, 0.2X0.2		E140M 1425 A				[==>]		[1]	
Orbit Structure	Orbit 1											
	Server Version: 20260618											

Proposal 18437 - -GAM-PAVSTIS (09) - Building a MgII h+k age-activity relation for old main sequence stars

Visit	Proposal 18437, -GAM-PAVSTIS (09)										Wed Aug 26 13:00:35 GMT 2026
	Diagnostic Status: No Diagnostics										
	Scientific Instruments: STIS/NUV-MAMA, STIS/CCD, STIS/FUV-MAMA										
	Special Requirements: (none)										
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections			Fluxes	Miscellaneous			
	(9)	-GAM-PAV	RA: 21 26 26.8118 (321.6117158d)	Proper Motion RA: 80.815 mas/yr			V=4.22	Reference Frame: ICRS			
		Alt Name1: GAIA-DR3-6401464693867773568	Dec: -65 21 45.50 (-65.36264d)	Proper Motion Dec: 800.573 mas/yr			Age=5.9+/-1.0 Gyr,				
			Equinox: J2000	Parallax: 0.1080102"			asteroseismology				
	Comments: Category=STAR Description=[F3-F9] 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.236 4040)	(9) -GAM-PAV	STIS/CCD, ACQ, F28X50OIII	MIRROR	ACQTYPE=POINT			0.1 Secs (0.1 Secs)		
									[==>]		[1]
	2	(STIS.ta.236 4059)	(9) -GAM-PAV	STIS/CCD, ACQ/PEAK, 0.3X0.05ND	MIRROR				1 Secs (1 Secs)		
									[==>]		[1]
	3	(STIS.sp.23 64067)	(9) -GAM-PAV	STIS/NUV-MAMA, ACCUM, 31X0.05NDA	E230H 2762 A				500 Secs (500 Secs)		
									[==>]		[1]
4	(STIS.sp.23 64079)	(9) -GAM-PAV	STIS/FUV-MAMA, TIME-TAG, 0.2X0.2	E140M 1425 A	BUFFER-TIME=90 0			654 Secs (654 Secs)			
								[==>]		[1]	



Proposal 18437 - -ALF-MENSTIS (10) - Building a MglI h+k age-activity relation for old main sequence stars

Visit	Proposal 18437, -ALF-MENSTIS (10)										Wed Aug 26 13:00:35 GMT 2026
	Diagnostic Status: No Diagnostics										
	Scientific Instruments: STIS/NUV-MAMA, STIS/CCD, STIS/FUV-MAMA										
	Special Requirements: (none)										
Fixed Targets	#	Name	Target Coordinates		Targ. Coord. Corrections		Fluxes		Miscellaneous		
	(10)	-ALF-MEN	RA: 06 10 14.9658 (92.5623575d)		Proper Motion RA: 121.596 mas/yr		V=5.069		Reference Frame: ICRS		
		Alt Name1: GAIA-DR3-5264749303462961280	Dec: -74 45 14.36 (-74.75399d)		Proper Motion Dec: -212.411 mas/yr		Age=6.0+/-1.0 Gyr, asteroseismology				
			Equinox: J2000		Parallax: 0.0979158"						
	Comments: Category=STAR Description=[G V-IV] 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.236 4122)	(10) -ALF-MEN	STIS/CCD, ACQ, F28X50OIII	MIRROR	ACQTYPE=POINT			0.1 Secs (0.1 Secs)		
									[==>]		[1]
	2		WAVE	STIS/NUV-MAMA, ACCUM, 0.2X0.2	E230H 2762 A				[==>]		[1]
	3	(STIS.sp.23 64131)	(10) -ALF-MEN	STIS/NUV-MAMA, ACCUM, 0.2X0.2	E230H 2762 A	WAVECAL=NO			500 Secs (500 Secs)		
									[==>]		[1]
	4	(STIS.sp.23 64132)	(10) -ALF-MEN	STIS/FUV-MAMA, TIME-TAG, 0.2X0.2	E140M 1425 A	BUFFER-TIME=90 0; WAVECAL=NO			1459 Secs (1459 Secs)		
								[==>]		[1]	
5		WAVE	STIS/FUV-MAMA, ACCUM, 0.2X0.2	E140M 1425 A				[==>]		[1]	
Orbit Structure	Orbit 1 Server Version: 20260618 Unused Orbital Visibility = 0 GS Acq Exp. 1 Exp. 2 Exp. 3 Exp. 4 Occultation Exp. 5 Home 0 500 1000 1500 2000 2500 3000 3500 4000 4500 5000 5500 6000 sec										

Proposal 18437 - BD+38-3583STIS (11) - Building a Mqll h+k age-activity relation for old main sequence stars

Visit	Proposal 18437, BD+38-3583STIS (11)									Wed Aug 26 13:00:35 GMT 2026
	Diagnostic Status: No Diagnostics									
	Scientific Instruments: STIS/NUV-MAMA, STIS/CCD									
	Special Requirements: (none)									
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections		Fluxes		Miscellaneous		
	(11)	BD+38-3583	RA: 19 25 40.3493 (291.4181221d)	Proper Motion RA: -28.672 mas/yr		V=10.0		Reference Frame: ICRS		
		Alt Name1: GAIA-DR3-2052747119115620352	Dec: +38 40 20.32 (38.67231d)	Proper Motion Dec: -5.722 mas/yr		Age=6.6+/-0.9 Gyr,				
			Equinox: J2000	Parallax: 0.0104148"		asteroseismology,				
	Epoch of Position: 2016									mNUV=15.5
	Comments: Category=STAR Description=[G V-IV] 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.236 2303)	(11) BD+38-3583	STIS/CCD, ACQ, F28X50LP	MIRROR	ACQTYPE=POINT			0.1 Secs (0.1 Secs)	
									[==>]	[1]
	2	(STIS.sp.23 62304)	(11) BD+38-3583	STIS/NUV-MAMA, ACCUM, 0.2X0.2	E230M 2561 A	WAVECAL=NO			2240 Secs (2240 Secs)	
									[==>]	[1]
	3		WAVE	STIS/NUV-MAMA, ACCUM, 0.2X0.2	E230M 2561 A				[==>]	[1]
Orbit Structure	Orbit 1									
	Server Version: 20260618									
	Occultation Unused Orbital Visibility = 0 Exp. 3 Home Exp. 2 Exp. 1 GS Acq									

Proposal 18437 - BD+46-2726STIS (12) - Building a MgII h+k age-activity relation for old main sequence stars

Visit	Proposal 18437, BD+46-2726STIS (12)									Wed Aug 26 13:00:36 GMT 2026
	Diagnostic Status: No Diagnostics									
	Scientific Instruments: STIS/NUV-MAMA, STIS/CCD									
	Special Requirements: (none)									
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections		Fluxes		Miscellaneous		
	(12)	BD+46-2726	RA: 19 34 43.0096 (293.6792067d)	Proper Motion RA: 4.734 mas/yr		V=9.64		Reference Frame: ICRS		
		Alt Name1: GAIA-DR3-2128215909315876352	Dec: +46 51 9.84 (46.85273d)	Proper Motion Dec: -6.251 mas/yr		Age=7.0+/-0.5 Gyr,				
			Equinox: J2000	Parallax: 0.0146811"		asteroseismology,				
	Epoch of Position: 2016									mNUV=16.05
	Comments: Category=STAR Description=[K V-IV] 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.236 2311)	(12) BD+46-2726	STIS/CCD, ACQ, F28X50LP	MIRROR	ACQTYPE=POINT			0.1 Secs (0.1 Secs)	
									[==>]	[1]
	2	(STIS.sp.23 62312)	(12) BD+46-2726	STIS/NUV-MAMA, ACCUM, 0.2X0.2	E230M 2561 A	WAVECAL=NO			2259 Secs (2259 Secs)	
									[==>]	[1]
	3		WAVE	STIS/NUV-MAMA, ACCUM, 0.2X0.2	E230M 2561 A				[==>]	[1]
Orbit Structure	Orbit 1									
	Server Version: 20260618									
	Unused Orbital Visibility = 0									
	Occultation									
	Exp. 3									
	Home									
	Exp. 1									
	Exp. 2									
	GS Acq									

Proposal 18437 - BD+41-3306STIS (13) - Building a MgII h+k age-activity relation for old main sequence stars

Visit	Proposal 18437, BD+41-3306STIS (13)										Wed Aug 26 13:00:36 GMT 2026	
	Diagnostic Status: No Diagnostics											
	Scientific Instruments: STIS/NUV-MAMA, STIS/CCD											
	Special Requirements: (none)											
Fixed Targets	#	Name	Target Coordinates		Targ. Coord. Corrections		Fluxes		Miscellaneous			
	(13)	BD+41-3306	RA: 19 19 0.6839 (289.7528496d)		Proper Motion RA: 94.639 mas/yr		V=8.86		Reference Frame: ICRS			
		Alt Name1: GAIA-DR3-2101486923385239808	Dec: +41 37 54.47 (41.63180d)		Proper Motion Dec: -632.269 mas/yr		Age=11.2+/-1.0 Gyr,					
			Equinox: J2000		Parallax: 0.0273578"		asteroseismology,					
	Epoch of Position: 2016											mNUV=15.5
	Comments: 1.88" separation companion that is about 3-4 magnitudes fainter in the optical											
	Category=STAR											
	Description=[K V-IV]											
	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.236 2324)	(13) BD+41-3306	STIS/CCD, ACQ, F28X50OIII		MIRROR	ACQTYPE=POINT			2 Secs (2 Secs)		
										[==>]	[1]	
	2	(STIS.sp.23 62325)	(13) BD+41-3306	STIS/NUV-MAMA, ACCUM, 0.2X0.2		E230M 2561 A	WAVECAL=NO			2196 Secs (2196 Secs)		
										[==>]	[1]	
	3		WAVE	STIS/NUV-MAMA, ACCUM, 0.2X0.2		E230M 2561 A				[==>]	[1]	
Orbit Structure	Orbit 1 Server Version: 20260618 GS Acq Exp. 1 Exp. 2 Occultation Exp. 3 Home Unused Orbital Visibility = 0											

Proposal 18437 - V911TauSTIS (14) - Building a MgII h+k age-activity relation for old main sequence stars

Visit	Proposal 18437, V911TauSTIS (14)										Wed Aug 26 13:00:36 GMT 2026
	Diagnostic Status: No Diagnostics										
	Scientific Instruments: STIS/NUV-MAMA, STIS/CCD										
	Special Requirements: (none)										
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections		Fluxes		Miscellaneous			
	(14)	HD-28099	RA: 04 26 40.2414 (66.6676725d)	Proper Motion RA: 107.472 mas/yr		V=8.12		Reference Frame: ICRS			
		Alt Name1: V911-TAU	Dec: +16 44 48.38 (16.74677d)	Proper Motion Dec: -31.531 mas/yr		Age=0.7 Gyr,					
		Alt Name2: GAIA-DR3-3313689422030650496	Equinox: J2000	Parallax: 0.0218521"		Hyades Sun-like star,		mNUV=13.8			
	Comments: 0.4" Delta_K=5 mag companion seen in two Keck AO epochs separated by several years										
	Category=STAR										
	Description=[G V-IV]										
	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.236 7679)	(14) HD-28099	STIS/CCD, ACQ, F28X50OII	MIRROR	ACQTYPE=POINT			1 Secs (1 Secs)		
									[==>]	[1]	
	2	(STIS.sp.23 67688)	(14) HD-28099	STIS/NUV-MAMA, ACCUM, 0.2X0.2	E230M 2561 A	WAVECAL=NO			2189 Secs (2189 Secs)		
									[==>]	[1]	
	3		WAVE	STIS/NUV-MAMA, ACCUM, 0.2X0.2	E230M 2561 A				[==>]	[1]	
Orbit Structure	Orbit 1 Server Version: 20260618 Occultation Unused Orbital Visibility = 0 Exp. 3 Home Exp. 2 Exp. 1 GS Acq <										