



15517 - Continued Long-Term Ultraviolet Spectroscopy of a Tidal Disruption Event at only 90 Mpc

Cycle: 26, Proposal Category: GO

(UV Initiative)

(Availability Mode: SUPPORTED)

INVESTIGATORS

<i>Name</i>	<i>Institution</i>	<i>E-Mail</i>
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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) LEDA-43234	STIS/CCD STIS/NUV-MAMA	2	18-Jun-2019 13:00:20.0	yes
02	(1) LEDA-43234	STIS/CCD STIS/FUV-MAMA	2	18-Jun-2019 13:00:21.0	yes
03	(1) LEDA-43234	STIS/CCD STIS/NUV-MAMA	2	18-Jun-2019 13:00:22.0	yes
04	(1) LEDA-43234	STIS/CCD STIS/FUV-MAMA	2	18-Jun-2019 13:00:23.0	yes
A1	(1) LEDA-43234	STIS/CCD STIS/NUV-MAMA	2	18-Jun-2019 13:00:24.0	yes

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A4	(1) LEDA-43234	STIS/CCD STIS/FUV-MAMA	2	18-Jun-2019 13:00:25.0	yes

12 Total Orbits Used

ABSTRACT

We propose continued long-term multi-epoch ultraviolet spectroscopy of ASASSN-14li, a stellar tidal disruption event (TDE) at ~90 Mpc. Such a bright, nearby stellar TDEs provides an exceptional opportunity to study broad emission lines which describe the abundances and accretion flow of the stellar debris in one of the most important physical regimes for understanding basic TDE behavior. We also request brief XMM observations to constrain the high-energy spectral evolution on similar timescales. These observations will build upon surprising new results, and will provide an important foundation for follow-up of more ambiguous TDE candidates subsequently identified by LSST and WFIRST at higher redshifts.

OBSERVING DESCRIPTION

We are observing the UV-bright tidal disruption event (TDE) on extended baselines to study the spectroscopic evolution of this transient and how it relates to its accretion history. Complementary joint XMM-Newton observations have been granted to constrain the bolometric luminosity and relate high-energy emission to the UV. We will discuss XMM-Newton scheduling with the XMM-Newton team given the visibility windows available. <2 weeks separation is preferred, and the closer the better. Current predictions for XMM-Newton visibility look favorable for this strategy in June and July of 2019.

This program is essentially an extension of programs 14272, 14812 and 15351, so the instrumental requirements are similar. The TDE is fainter, so we have requested (and been granted) a total of four orbits per grating per epoch, but only one epoch per year is necessary since the TDE is evolving slowly.

For the purposes of this program, LEDA-43234, PGC-043234 and ASASSN-14LI are effectively the same target. We kept the name "LEDA-43234" to agree with the Phase I proposal data in APT, but changing it to "ASASSN-14LI" would be more consistent with previous programs.

As before, we are taking spectroscopy in FUV (STIS-MAMA/G140L) and NUV (STIS-MAMA/G230L). TIME-TAG mode should still be practical. All visits are grouped within 6 days to measure broadly representative properties within that time. We have broken observations into 4 groups of 2

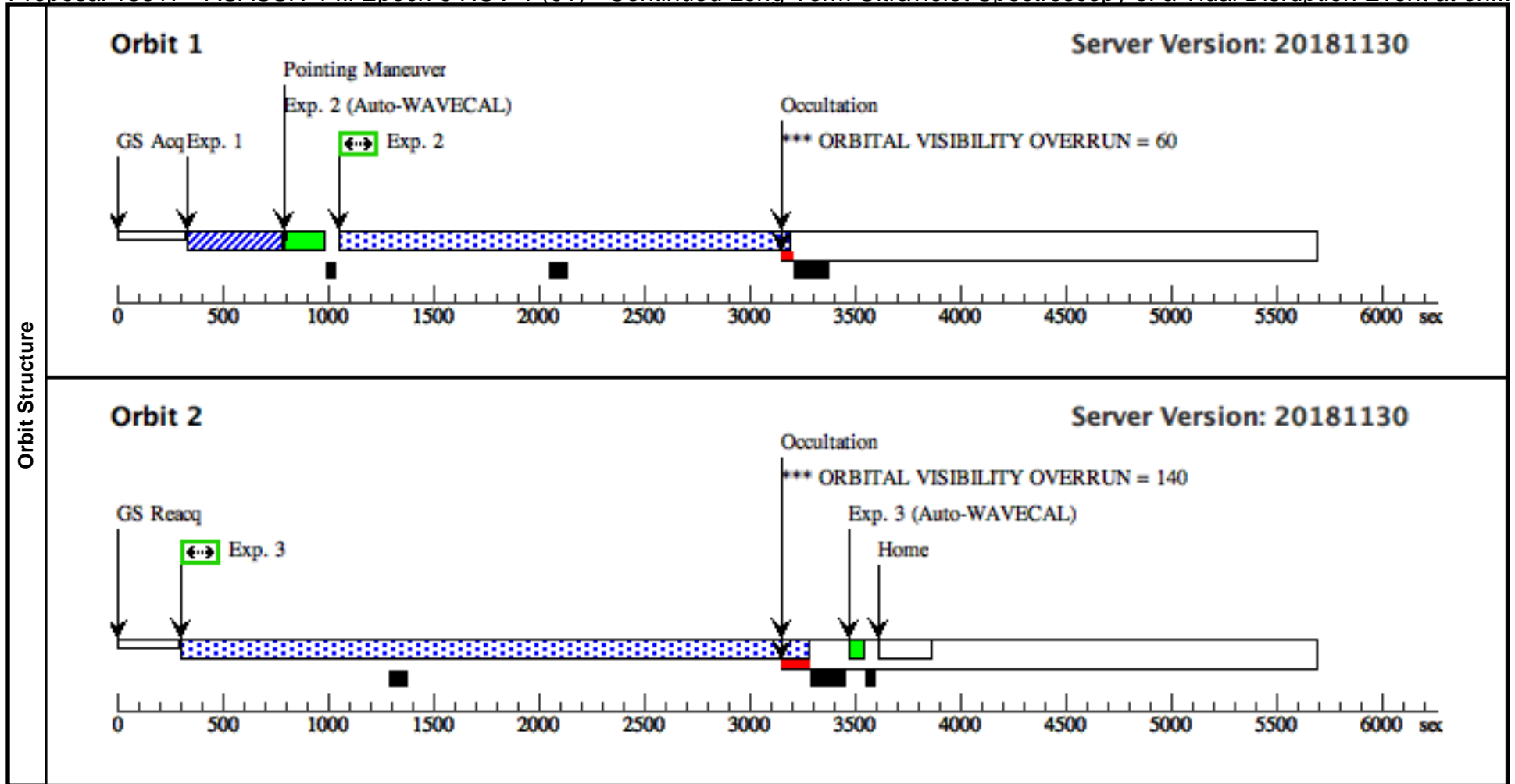
orbits each to allow more flexible scheduling than 2 groups of 4 orbits would allow. Under this configuration, the optimal monitoring strategy is to keep each FUV visit tightly grouped with a NUV visit (<2 days) to allow full-spectrum variability comparisons with timescales of ~days if the signal-to-noise ratio warrants it.

We expect most of the acquisition photons to come from the host galaxy at this point and not the transient. Since the transient is at the nucleus, identification of the nuclear peak is fine for acquisition and has been effective in the previous cycle. The expected modest decline in UV flux (to ~75% of the previous cycle) should not have a significant effect. Thus far we have satisfactorily used clear filter to add statistical weight to the UV source at the nucleus.

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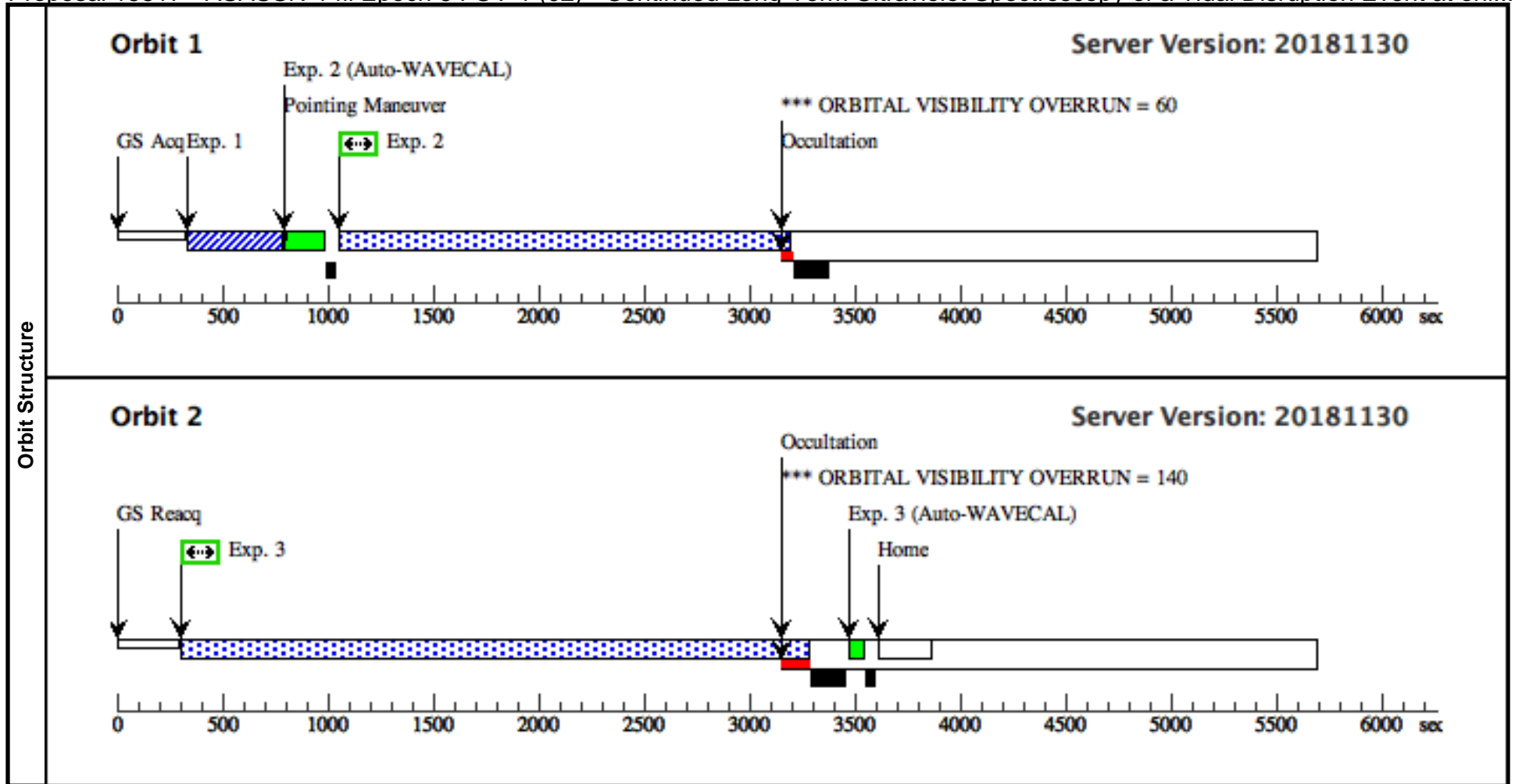
Visit	<p>Proposal 15517, ASASSN-14li Epoch 6 NUV-1 (01), failed</p> <p>Diagnostic Status: Warning</p> <p>Scientific Instruments: STIS/NUV-MAMA, STIS/CCD</p> <p>Special Requirements: BETWEEN 29-MAY-2019:00:00:00 AND 22-JUL-2019:00:00:00; GROUP 01,02 WITHIN 2D; GROUP 01,02,03,04 WITHIN 6D</p> <p><i>Comments: Joint XMM observations have been awarded to complement the HST STIS observations. Although the transient is currently evolving slowly over years, coordination with XMM is preferred if possible, to minimize discrepancies due to short-timescale variability.</i></p> <p><i>A gap of <2 weeks between XMM and HST would be representative, but ideally the shorter the better.</i></p>																																																	
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Proposal 15517 - ASASSN-14li Epoch 6 FUV-1 (02) - Continued Long-Term Ultraviolet Spectroscopy of a Tidal Disruption Event at onl...

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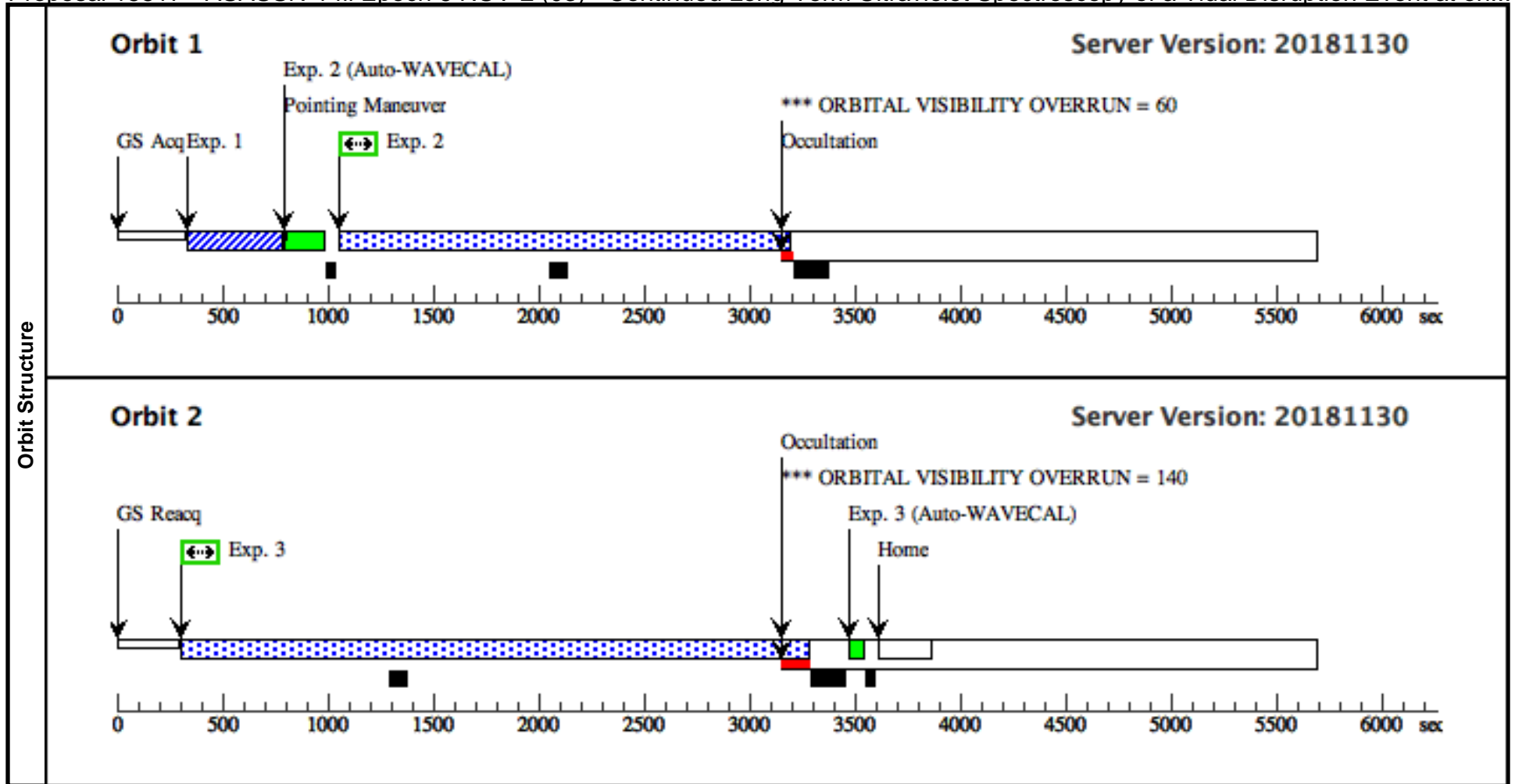
Visit	<p>Proposal 15517, ASASSN-14li Epoch 6 FUV-1 (02), completed</p> <p>Diagnostic Status: Warning</p> <p>Scientific Instruments: STIS/CCD, STIS/FUV-MAMA</p> <p>Special Requirements: BETWEEN 29-MAY-2019:00:00:00 AND 22-JUL-2019:00:00:00; GROUP 02,01 WITHIN 2D; GROUP 02,01,03,04 WITHIN 6D</p> <p><i>Comments: Joint XMM observations have been awarded to complement the HST STIS observations. Although the transient is currently evolving slowly over years, coordination with XMM is preferred if possible, to minimize discrepancies due to short-timescale variability.</i></p> <p><i>A gap of <2 weeks between XMM and HST would be representative, but ideally the shorter the better.</i></p>																																																	
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Proposal 15517 - ASASSN-14li Epoch 6 NUV-2 (03) - Continued Long-Term Ultraviolet Spectroscopy of a Tidal Disruption Event at on...

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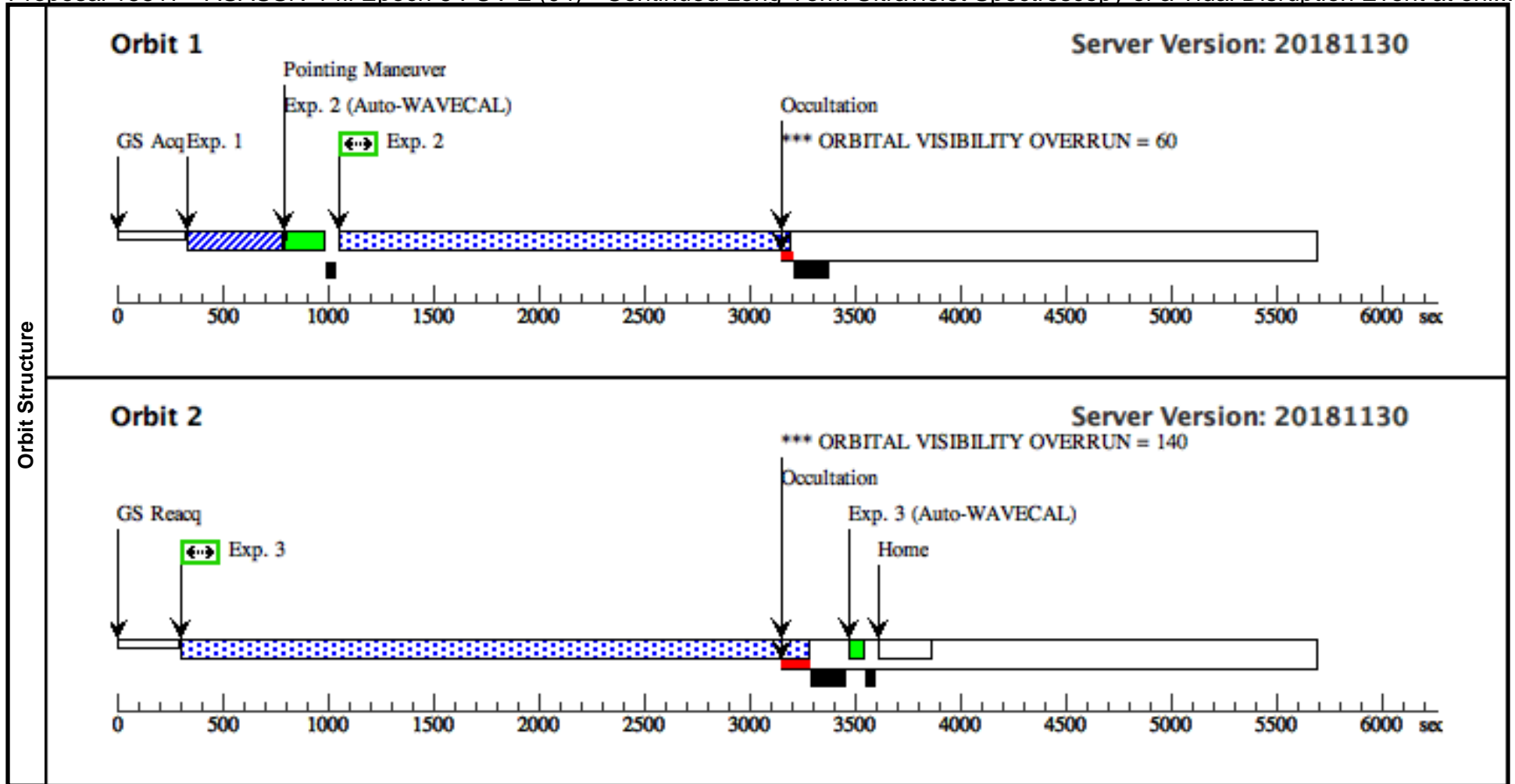
Visit	<p>Proposal 15517, ASASSN-14li Epoch 6 NUV-2 (03), completed</p> <p>Diagnostic Status: Warning</p> <p>Scientific Instruments: STIS/NUV-MAMA, STIS/CCD</p> <p>Special Requirements: BETWEEN 29-MAY-2019:00:00:00 AND 22-JUL-2019:00:00:00; GROUP 03,04 WITHIN 2D; GROUP 03,01,02,04 WITHIN 6D</p> <p><i>Comments: Joint XMM observations have been awarded to complement the HST STIS observations. Although the transient is currently evolving slowly over years, coordination with XMM is preferred if possible, to minimize discrepancies due to short-timescale variability.</i></p> <p><i>A gap of <2 weeks between XMM and HST would be representative, but ideally the shorter the better.</i></p>																																																	
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	2	ASASSN-14li Epoch 6 NUV-2 Sci 1 (STIS.sp.1013321)	(1) LEDA-43234	STIS/NUV-MAMA, TIME-TAG, 52X0.2	G230L 2376 A	BUFFER-TIME=1000			1000 Secs (2131 Secs) [==>2131.0 Secs]	[1]																																								
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Proposal 15517 - ASASSN-14li Epoch 6 FUV-2 (04) - Continued Long-Term Ultraviolet Spectroscopy of a Tidal Disruption Event at onl...

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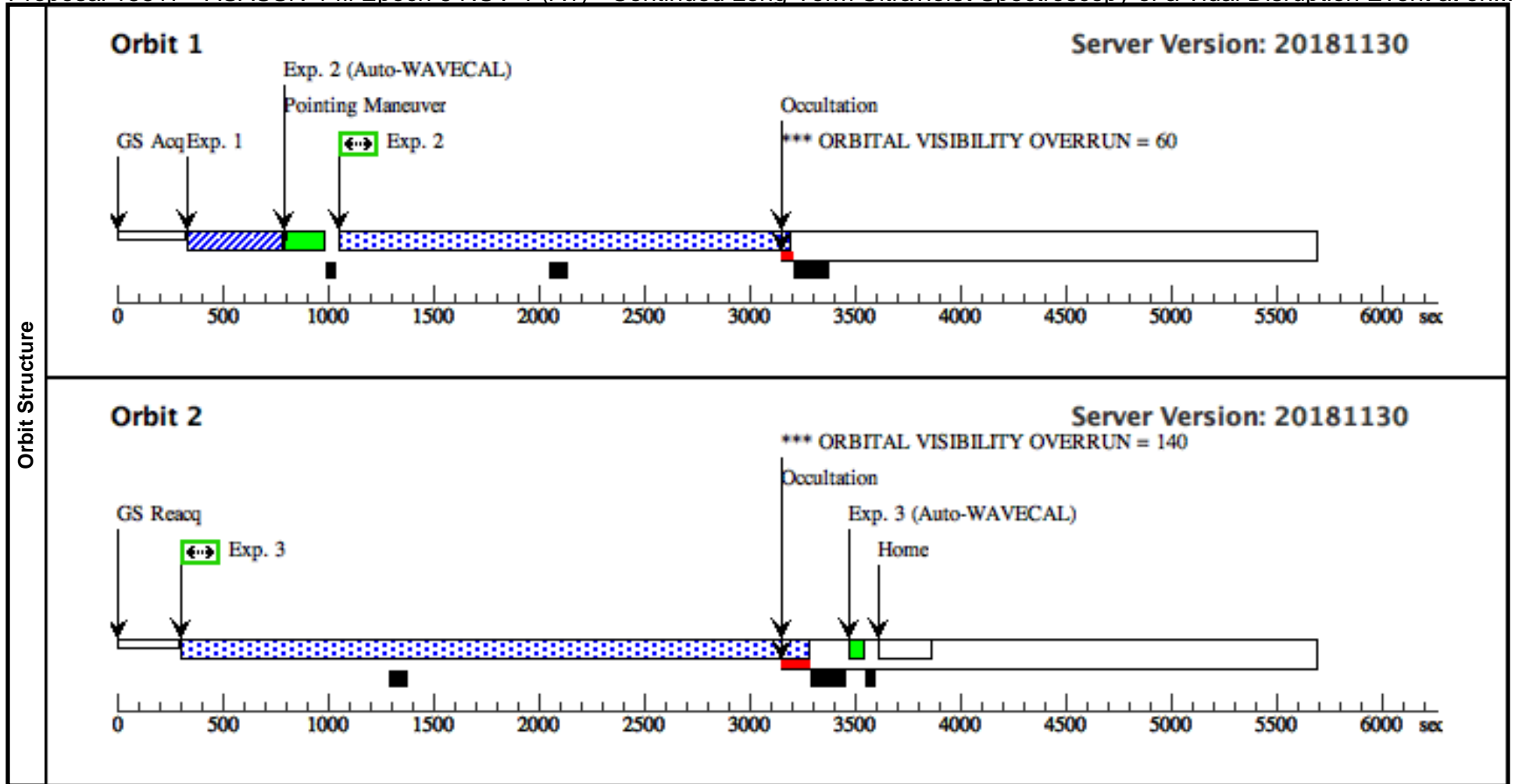
Visit	<p>Proposal 15517, ASASSN-14li Epoch 6 FUV-2 (04), failed</p> <p>Diagnostic Status: Warning</p> <p>Scientific Instruments: STIS/CCD, STIS/FUV-MAMA</p> <p>Special Requirements: BETWEEN 29-MAY-2019:00:00:00 AND 22-JUL-2019:00:00:00; GROUP 04,03 WITHIN 2D; GROUP 04,01,02,03 WITHIN 6D</p> <p><i>Comments: Joint XMM observations have been awarded to complement the HST STIS observations. Although the transient is currently evolving slowly over years, coordination with XMM is preferred if possible, to minimize discrepancies due to short-timescale variability.</i></p> <p><i>A gap of <2 weeks between XMM and HST would be representative, but ideally the shorter the better.</i></p>																																																	
	<p>(ASASSN-14li Epoch 6 FUV-2 (04)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN</p> <p>(ASASSN-14li Epoch 6 FUV-2 (04)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN</p>																																																	
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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>(1)</td> <td>LEDA-43234 Alt Name1: PGC-043234 Alt Name2: ASASSN-14LI</td> <td>RA: 12 48 15.2300 (192.0634583d) Dec: +17 46 26.56 (17.77404d) Equinox: J2000</td> <td>Redshift: 0.0206</td> <td>V=16.1 Currently AB mag ~16.4 at 1500 AA. Host GALEX baseline is (21.7, 19.0) for (FUV, NUV).</td> <td>Reference Frame: ICRS</td> </tr> </tbody> </table> <p><i>Comments: Phase I coordinates in Cycle 25 were taken using SIMBAD. Phase II coordinates are adjusted to match those of Cycle 24 observations.</i></p> <p>Category=GALAXY Description=[ACCRETION DISK, BLR, NUCLEUS, UNDESIGNATED] Extended=NO</p>										#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous	(1)	LEDA-43234 Alt Name1: PGC-043234 Alt Name2: ASASSN-14LI	RA: 12 48 15.2300 (192.0634583d) Dec: +17 46 26.56 (17.77404d) Equinox: J2000	Redshift: 0.0206	V=16.1 Currently AB mag ~16.4 at 1500 AA. Host GALEX baseline is (21.7, 19.0) for (FUV, NUV).	Reference Frame: ICRS																												
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Proposal 15517 - ASASSN-14li Epoch 6 NUV-1 (A1) - Continued Long-Term Ultraviolet Spectroscopy of a Tidal Disruption Event at on...

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Visit	<p>Proposal 15517, ASASSN-14li Epoch 6 NUV-1 (A1), implementation</p> <p>Diagnostic Status: Warning</p> <p>Scientific Instruments: STIS/NUV-MAMA, STIS/CCD</p> <p>Special Requirements: BETWEEN 29-MAY-2019:00:00:00 AND 28-JUL-2019:00:00:00; GROUP A1,A4 WITHIN 3D</p> <p><i>Comments: Joint XMM observations have been awarded to complement the HST STIS observations. Although the transient is currently evolving slowly over years, coordination with XMM is preferred if possible, to minimize discrepancies due to short-timescale variability.</i></p> <p><i>A gap of <2 weeks between XMM and HST would be representative, but ideally the shorter the better.</i></p> <p><i>This is a repeat of visit 01 which failed.</i></p>									
	<p>(ASASSN-14li Epoch 6 NUV-1 (A1)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN</p> <p>(ASASSN-14li Epoch 6 NUV-1 (A1)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN</p>									
Diagnosics										
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(1)	LEDA-43234 Alt Name1: PGC-043234 Alt Name2: ASASSN-14LI	RA: 12 48 15.2300 (192.0634583d) Dec: +17 46 26.56 (17.77404d) Equinox: J2000	Redshift: 0.0206	V=16.1 Currently AB mag ~16.4 at 1500 AA. Host GALEX baseline is (2 1.7, 19.0) for (FUV, NUV).	Reference Frame: ICRS				
<p><i>Comments: Phase I coordinates in Cycle 25 were taken using SIMBAD. Phase II coordinates are adjusted to match those of Cycle 24 observations.</i></p> <p><i>Category=GALAXY</i></p> <p><i>Description=[ACCRETION DISK, BLR, NUCLEUS, UNDESIGNATED]</i></p> <p><i>Extended=NO</i></p>										
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	ASASSN-14li Epoch 6 Acquisition N UV-1	(1) LEDA-43234	STIS/CCD, ACQ, 50CCD	MIRROR	ACQTYPE=DIFFUSE; CHECKBOX=5; DIFFUSE-CENTER=FLUX-CENTROID			50 Secs (50 Secs) [==>]	[1]
	2	ASASSN-14li Epoch 6 NUV-1 Sci 1 (STIS.sp.10 13321)	(1) LEDA-43234	STIS/NUV-MAMA, TIME-TAG, 52X0.2	G230L 2376 A	BUFFER-TIME=1000			1000 Secs (2131 Secs) [==>2131.0 Secs]	[1]
	3	ASASSN-14li Epoch 6 NUV-1 Sci 2 (STIS.sp.10 13321)	(1) LEDA-43234	STIS/NUV-MAMA, TIME-TAG, 52X0.2	G230L 2376 A	BUFFER-TIME=1000			1000 Secs (2966 Secs) [==>2966.0 Secs]	[2]



Proposal 15517 - ASASSN-14li Epoch 6 FUV-2 (A4) - Continued Long-Term Ultraviolet Spectroscopy of a Tidal Disruption Event at on...

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Visit	<p>Proposal 15517, ASASSN-14li Epoch 6 FUV-2 (A4), implementation</p> <p>Diagnostic Status: Warning</p> <p>Scientific Instruments: STIS/CCD, STIS/FUV-MAMA</p> <p>Special Requirements: BETWEEN 29-MAY-2019:00:00:00 AND 28-JUL-2019:00:00:00</p> <p><i>Comments: Joint XMM observations have been awarded to complement the HST STIS observations. Although the transient is currently evolving slowly over years, coordination with XMM is preferred if possible, to minimize discrepancies due to short-timescale variability.</i></p> <p><i>A gap of <2 weeks between XMM and HST would be representative, but ideally the shorter the better.</i></p> <p><i>This is a repeat of visit 04 which failed.</i></p>									
	<p>(ASASSN-14li Epoch 6 FUV-2 (A4)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN</p> <p>(ASASSN-14li Epoch 6 FUV-2 (A4)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN</p>									
Diagnosics										
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(1)	LEDA-43234 Alt Name1: PGC-043234 Alt Name2: ASASSN-14LI	RA: 12 48 15.2300 (192.0634583d) Dec: +17 46 26.56 (17.77404d) Equinox: J2000	Redshift: 0.0206	V=16.1 Currently AB mag ~16.4 at 1500 AA. Host GALEX baseline is (2 1.7, 19.0) for (FUV, NUV).	Reference Frame: ICRS				
<p><i>Comments: Phase I coordinates in Cycle 25 were taken using SIMBAD. Phase II coordinates are adjusted to match those of Cycle 24 observations.</i></p> <p><i>Category=GALAXY</i></p> <p><i>Description=[ACCRETION DISK, BLR, NUCLEUS, UNDESIGNATED]</i></p> <p><i>Extended=NO</i></p>										
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	1	ASASSN-14li Epoch 6 Acquisition FUV-2	(1) LEDA-43234	STIS/CCD, ACQ, 50CCD	MIRROR	ACQTYPE=DIFFUSE; CHECKBOX=5; DIFFUSE-CENTER=FLUX-CENTROID			50 Secs (50 Secs) [==>]	[1]
	2	ASASSN-14li Epoch 6 FUV-2 Sci 1 (STIS.sp.10 13402)	(1) LEDA-43234	STIS/FUV-MAMA, TIME-TAG, 52X0.2	G140L 1425 A	BUFFER-TIME=1500			1000 Secs (2131 Secs) [==>2131.0 Secs]	[1]
	3	ASASSN-14li Epoch 6 FUV-2 Sci 2 (STIS.sp.10 13402)	(1) LEDA-43234	STIS/FUV-MAMA, TIME-TAG, 52X0.2	G140L 1425 A	BUFFER-TIME=1500			1000 Secs (2966 Secs) [==>2966.0 Secs]	[2]

