



# 18394 - Bridging the Gap Between Strong and Weak Mass Loss with Nebular UV spectra of SN 2025tis and SN 2026ayt

Cycle: 34, Proposal Category: GO

(UV Initiative, Hubble-Roman Science (HRS), HWO Precursor Science (HPS))

(Availability Mode: SUPPORTED)

## INVESTIGATORS

| <i>Name</i>                                    | <i>Institution</i>                                      |
|------------------------------------------------|---------------------------------------------------------|
| <b>Dr. Kyra Azalee Bostroem (PI) (Contact)</b> | <b>California Institute of Technology</b>               |
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| Prof. Griffin Hosseinzadeh (CoI)               | University of California - San Diego                    |
| Dr. Saurabh W. Jha (CoI)                       | Rutgers the State University of New Jersey              |
| Dr. Manisha Shrestha (CoI)                     | Monash University                                       |
| Dr. Conor Ransome (CoI)                        | University of Arizona                                   |
| Dr. Bhagya Subrayan (CoI)                      | University of Arizona                                   |
| Jeniveve Pearson (CoI)                         | University of Arizona                                   |
| Dr. Aravind Pazhayath Ravi (CoI)               | University of California - Davis                        |
| Mr. Nicolas Eduardo Meza Retamal (CoI)         | University of California - Davis                        |
| Ms. Darshana Mehta (CoI)                       | University of California - Davis                        |
| Dr. Lindsey Kwok (CoI)                         | Northwestern University                                 |
| Dr. Sergiy Sergiyovich Vasylyev (CoI)          | University of California - San Diego                    |
| Dr. Jennifer Andrews (CoI)                     | NOIRLab - Gemini North (HI)                             |
| Daryl Janzen (CoI) (CSA Member)                | University of Saskatchewan                              |
| Dr. Yize Dong (CoI)                            | Harvard University                                      |
| Dr. Jacob Jencson (CoI)                        | California Institute of Technology                      |
| Dr. Michael Jon Lundquist (CoI)                | California Association for Research in Astronomy (CARA) |

**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           | (2) SN2026AYT                | STIS/CCD<br>STIS/FUV-MAMA                  | 4                  | 19-Aug-2026 12:01:34.0        | yes                           |
| 05           | (2) SN2026AYT                | STIS/CCD<br>STIS/NUV-MAMA                  | 1                  | 19-Aug-2026 12:01:34.0        | yes                           |
| 02           | (2) SN2026AYT                | STIS/CCD<br>STIS/FUV-MAMA<br>STIS/NUV-MAMA | 3                  | 19-Aug-2026 12:01:35.0        | yes                           |
| 03           | (1) SN2025TIS                | STIS/CCD<br>STIS/FUV-MAMA<br>STIS/NUV-MAMA | 1                  | 19-Aug-2026 12:01:35.0        | yes                           |
| 04           | (1) SN2025TIS                | STIS/CCD<br>STIS/FUV-MAMA                  | 3                  | 19-Aug-2026 12:01:35.0        | yes                           |
| 06           | (1) SN2025TIS                | STIS/CCD<br>STIS/NUV-MAMA                  | 4                  | 19-Aug-2026 12:01:36.0        | yes                           |

16 Total Orbits Used

**ABSTRACT**

Winds from massive stars and their supernova explosions are responsible for the majority of elements in the universe and the regulation of star formation on a galactic scale. However, empirical mass-loss rates disagree and there is mounting evidence of periods of enhanced mass loss as the star nears explosion. While strongly interaction between supernova ejecta and circumstellar material can be observed in the optical at early times, this disappears on the time scale of weeks and is not sensitive at any time to weaker mass loss. Fortunately, signatures of weaker mass loss can be observed in the UV throughout the supernova's evolution. We propose to observe SN2025tis and SN2026ayt, two supernovae are spectroscopically different in early FUV and NUV observations, in the FUV and NUV 200-800Å, after explosion to explore the diversity of UV spectra in supernovae with different amounts of circumstellar material. Additionally, both of these supernovae occurred in dwarf galaxies, giving us the possibility of probing supernovae and CSM interaction in low metallicity environments. This work will connect early and late-time observations, a spectroscopic and photometric sample, and strong and weak interaction in the UV, laying the groundwork for interpreting high redshift supernovae from the Roman

Proposal 18394 (STScI Edit Number: 0, Created: Wednesday, August 19, 2026, 11:01:36AM Eastern Standard Time) - Overview  
Space Telescope, Rubin Observatory, and JWST and preparing for a larger sample in the 2040s with the Habitable Worlds Observatory.

### **OBSERVING DESCRIPTION**

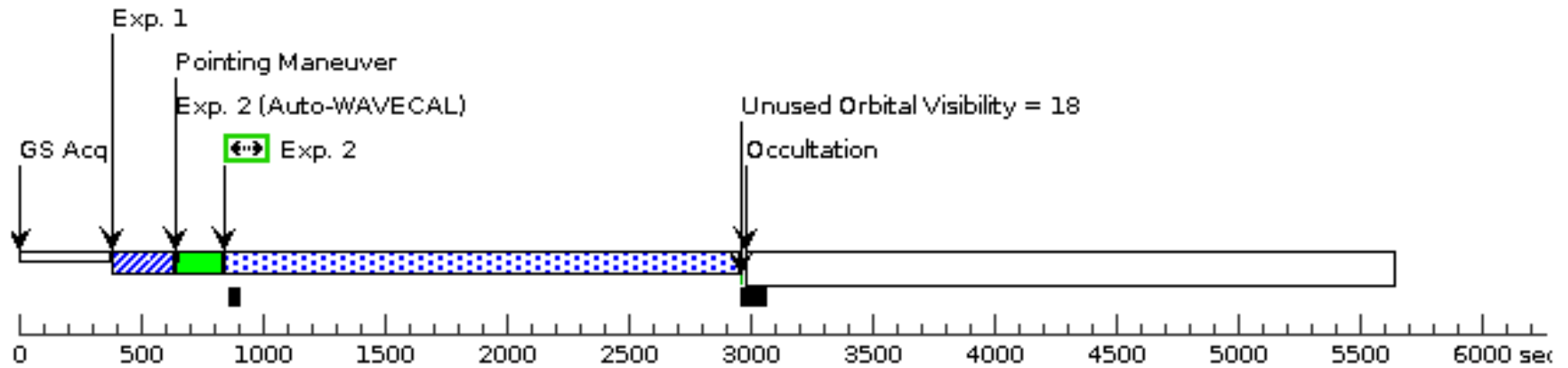
This program seeks to observe SN 2025tis and SN 2026ayt in the FUV and NUV with STIS. Each supernova will be observed over two epochs separated by 200-400d. Visits over 4 orbits were split in to NUV and FUV visits with a requirement that they be taken with 14 days of each other (although closer is preferable)

Proposal 18394 - SN2026ayt epoch 1 FUV (01) - Bridging the Gap Between Strong and Weak Mass Loss with Nebular UV spectra of ...

|               |                                                                   |                                    |               |                                  |  |                          |              |               |        |                                 |                              |       |
|---------------|-------------------------------------------------------------------|------------------------------------|---------------|----------------------------------|--|--------------------------|--------------|---------------|--------|---------------------------------|------------------------------|-------|
| Visit         | Proposal 18394, SN2026ayt epoch 1 FUV (01)                        |                                    |               |                                  |  |                          |              |               |        |                                 | Wed Aug 19 16:01:36 GMT 2026 |       |
|               | Diagnostic Status: No Diagnostics                                 |                                    |               |                                  |  |                          |              |               |        |                                 |                              |       |
|               | Scientific Instruments: STIS/CCD, STIS/FUV-MAMA                   |                                    |               |                                  |  |                          |              |               |        |                                 |                              |       |
|               | Special Requirements: (none)                                      |                                    |               |                                  |  |                          |              |               |        |                                 |                              |       |
| Fixed Targets | #                                                                 | Name                               |               | Target Coordinates               |  | Targ. Coord. Corrections |              | Fluxes        |        | Miscellaneous                   |                              |       |
|               | (2)                                                               | SN2026AYT                          |               | RA: 09 27 23.3900 (141.8474583d) |  |                          |              | V=18.1        |        | Reference Frame: ICRS           |                              |       |
|               |                                                                   |                                    |               | Dec: -32 00 30.88 (-32.00858d)   |  |                          |              |               |        |                                 |                              |       |
|               |                                                                   |                                    |               | Equinox: J2000                   |  |                          |              |               |        |                                 |                              |       |
|               | Comments:<br>Category=EXT-STAR<br>Description=[SUPERNOVA TYPE II] |                                    |               |                                  |  |                          |              |               |        |                                 |                              |       |
| Exposures     | #                                                                 | Label<br>(ETC Run)                 | Target        | Config,Mode,Aperture             |  | Spectral Els.            | Opt. Params. | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] |                              | Orbit |
|               | 1                                                                 | TA                                 | (2) SN2026AYT | STIS/CCD, ACQ, F28X50LP          |  | MIRROR                   |              |               |        | 5 Secs (5 Secs)                 |                              |       |
|               |                                                                   |                                    |               |                                  |  |                          |              |               |        | [==>]                           |                              | [1]   |
|               | 2                                                                 | FUV EXP 1<br>(STIS.sp.23<br>08646) | (2) SN2026AYT | STIS/FUV-MAMA, ACCUM,<br>52X0.2  |  | G140L<br>1425 A          |              |               |        | 2100 Secs (2100 Secs)           |                              |       |
|               |                                                                   |                                    |               |                                  |  |                          |              |               |        | [==>]                           |                              | [1]   |
|               | 3                                                                 | FUV EXP 2<br>(STIS.sp.23<br>08646) | (2) SN2026AYT | STIS/FUV-MAMA, ACCUM,<br>52X0.2  |  | G140L<br>1425 A          |              |               |        | 2550 Secs (2550 Secs)           |                              |       |
|               |                                                                   |                                    |               |                                  |  |                          |              |               |        | [==>]                           |                              | [2]   |
|               | 4                                                                 | FUV EXP 3<br>(STIS.sp.23<br>08646) | (2) SN2026AYT | STIS/FUV-MAMA, ACCUM,<br>52X0.2  |  | G140L<br>1425 A          |              |               |        | 2550 Secs (2550 Secs)           |                              |       |
|               |                                                                   |                                    |               |                                  |  |                          |              |               |        | [==>]                           |                              | [3]   |
|               | 5                                                                 | FUV EXP 4<br>(STIS.sp.23<br>08646) | (2) SN2026AYT | STIS/FUV-MAMA, ACCUM,<br>52X0.2  |  | G140L<br>1425 A          |              |               |        | 2550 Secs (2550 Secs)           |                              |       |
|               |                                                                   |                                    |               |                                  |  |                          |              |               | [==>]  |                                 | [4]                          |       |

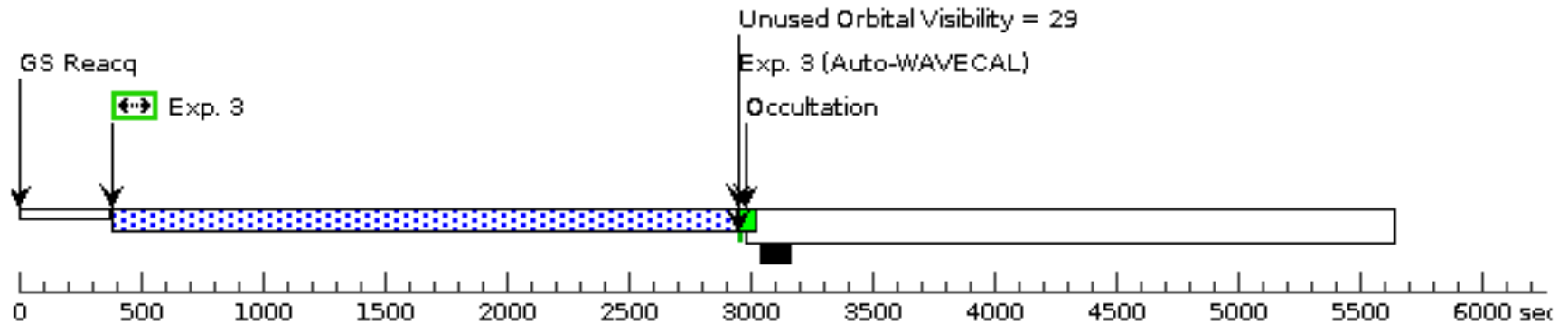
### Orbit 1

Server Version: 20260618



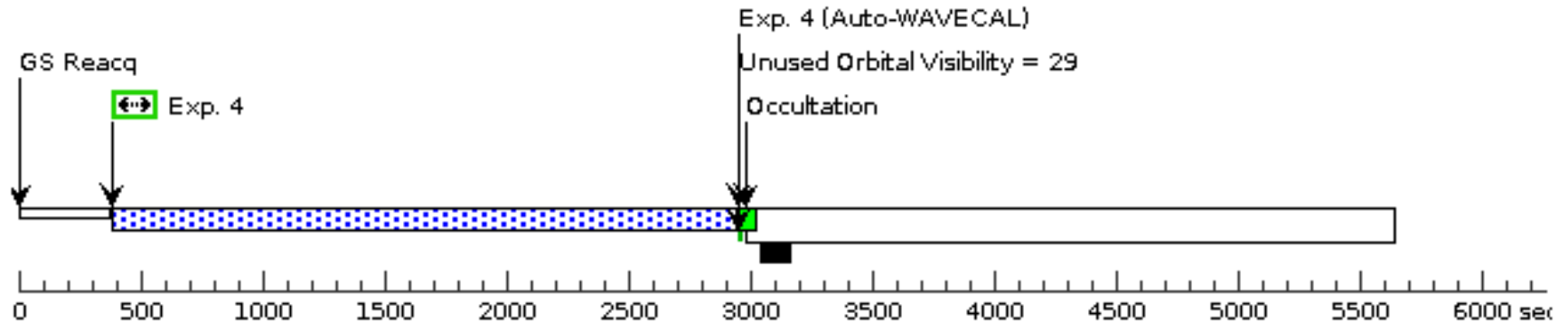
### Orbit 2

Server Version: 20260618



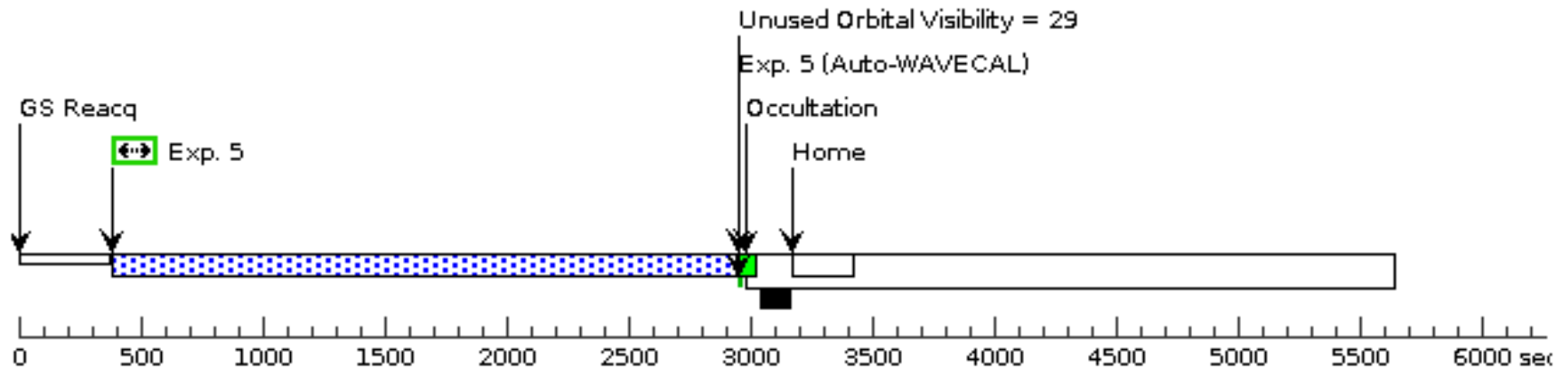
### Orbit 3

Server Version: 20260618



### Orbit 4

Server Version: 20260618



# Proposal 18394 - SN2026ayt epoch 1 NUV (05) - Bridging the Gap Between Strong and Weak Mass Loss with Nebular UV spectra of ...

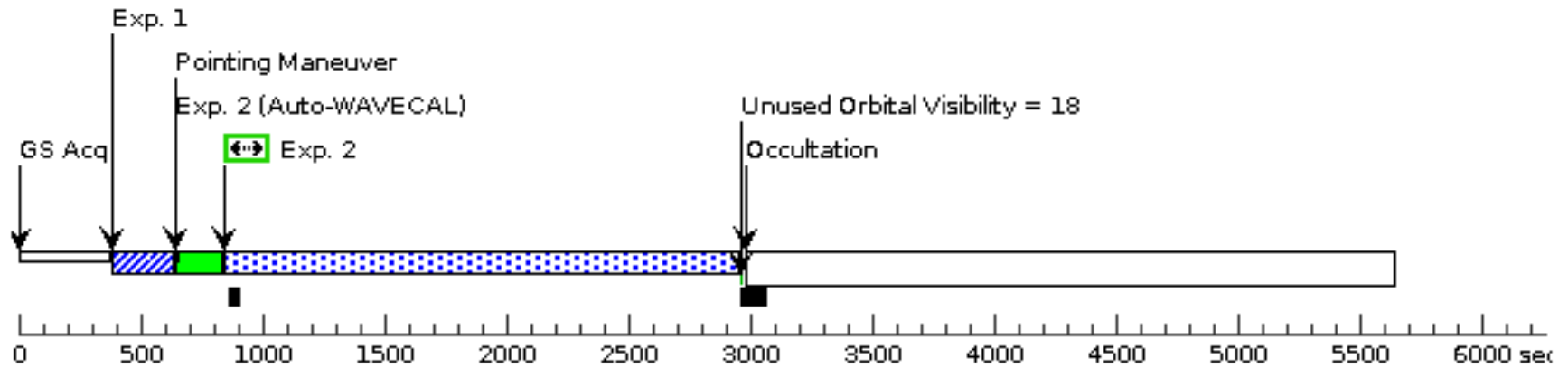
|                                                                   |                                                                                                                                 |                              |                                                                                      |                              |                          |              |               |        |                                 |  |                              |
|-------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|------------------------------|--------------------------------------------------------------------------------------|------------------------------|--------------------------|--------------|---------------|--------|---------------------------------|--|------------------------------|
| Visit                                                             | Proposal 18394, SN2026ayt epoch 1 NUV (05)                                                                                      |                              |                                                                                      |                              |                          |              |               |        |                                 |  | Wed Aug 19 16:01:37 GMT 2026 |
|                                                                   | Diagnostic Status: No Diagnostics                                                                                               |                              |                                                                                      |                              |                          |              |               |        |                                 |  |                              |
|                                                                   | Scientific Instruments: STIS/NUV-MAMA, STIS/CCD                                                                                 |                              |                                                                                      |                              |                          |              |               |        |                                 |  |                              |
|                                                                   | Special Requirements: AFTER 01 BY 0 D TO 14 D                                                                                   |                              |                                                                                      |                              |                          |              |               |        |                                 |  |                              |
| Comments: If possible, please schedule with Visit 1               |                                                                                                                                 |                              |                                                                                      |                              |                          |              |               |        |                                 |  |                              |
| Fixed Targets                                                     | #                                                                                                                               | Name                         | Target Coordinates                                                                   |                              | Targ. Coord. Corrections |              | Fluxes        |        | Miscellaneous                   |  |                              |
|                                                                   | (2)                                                                                                                             | SN2026AYT                    | RA: 09 27 23.3900 (141.8474583d)<br>Dec: -32 00 30.88 (-32.00858d)<br>Equinox: J2000 |                              |                          |              | V=18.1        |        | Reference Frame: ICRS           |  |                              |
| Comments:<br>Category=EXT-STAR<br>Description=[SUPERNOVA TYPE II] |                                                                                                                                 |                              |                                                                                      |                              |                          |              |               |        |                                 |  |                              |
| Exposures                                                         | #                                                                                                                               | Label (ETC Run)              | Target                                                                               | Config,Mode,Aperture         | Spectral Els.            | Opt. Params. | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] |  | Orbit                        |
|                                                                   | 1                                                                                                                               | TA                           | (2) SN2026AYT                                                                        | STIS/CCD, ACQ, F28X50LP      | MIRROR                   |              |               |        | 5 Secs (5 Secs)                 |  |                              |
|                                                                   |                                                                                                                                 |                              |                                                                                      |                              |                          |              |               |        | [==>]                           |  | [1]                          |
|                                                                   | 2                                                                                                                               | NUV EXP 1 (STIS.sp.23 08602) | (2) SN2026AYT                                                                        | STIS/NUV-MAMA, ACCUM, 52X0.2 | G230L<br>2376 A          |              |               |        | 2100 Secs (2100 Secs)           |  |                              |
|                                                                   |                                                                                                                                 |                              |                                                                                      |                              |                          |              |               |        | [==>]                           |  | [1]                          |
| Orbit Structure                                                   | <div><div>Orbit 1</div><div>Server Version: 20260618</div><div>050010001500200025003000350040004500500055006000 sec</div></div> |                              |                                                                                      |                              |                          |              |               |        |                                 |  |                              |

# Proposal 18394 - SN2026ayt epoch 2 (02) - Bridging the Gap Between Strong and Weak Mass Loss with Nebular UV spectra of SN 2...

|               |                                                                   |                                 |                                                                                      |                                 |                 |              |               |                       |                                 |       |
|---------------|-------------------------------------------------------------------|---------------------------------|--------------------------------------------------------------------------------------|---------------------------------|-----------------|--------------|---------------|-----------------------|---------------------------------|-------|
| Visit         | Proposal 18394, SN2026ayt epoch 2 (02)                            |                                 |                                                                                      |                                 |                 |              |               |                       | Wed Aug 19 16:01:37 GMT 2026    |       |
|               | Diagnostic Status: No Diagnostics                                 |                                 |                                                                                      |                                 |                 |              |               |                       |                                 |       |
|               | Scientific Instruments: STIS/NUV-MAMA, STIS/CCD, STIS/FUV-MAMA    |                                 |                                                                                      |                                 |                 |              |               |                       |                                 |       |
|               | Special Requirements: AFTER 01 BY 200 D TO 400 D                  |                                 |                                                                                      |                                 |                 |              |               |                       |                                 |       |
| Fixed Targets | #                                                                 | Name                            | Target Coordinates                                                                   | Targ. Coord. Corrections        |                 | Fluxes       |               | Miscellaneous         |                                 |       |
|               | (2)                                                               | SN2026AYT                       | RA: 09 27 23.3900 (141.8474583d)<br>Dec: -32 00 30.88 (-32.00858d)<br>Equinox: J2000 |                                 |                 | V=18.1       |               | Reference Frame: ICRS |                                 |       |
|               | Comments:<br>Category=EXT-STAR<br>Description=[SUPERNOVA TYPE II] |                                 |                                                                                      |                                 |                 |              |               |                       |                                 |       |
|               |                                                                   |                                 |                                                                                      |                                 |                 |              |               |                       |                                 |       |
| Exposures     | #                                                                 | Label<br>(ETC Run)              | Target                                                                               | Config,Mode,Aperture            | Spectral Els.   | Opt. Params. | Special Reqs. | Groups                | Exp. Time (Total)/[Actual Dur.] | Orbit |
|               | 1                                                                 | TA                              | (2) SN2026AYT                                                                        | STIS/CCD, ACQ, F28X50LP         | MIRROR          |              |               |                       | 5 Secs (5 Secs)                 |       |
|               |                                                                   |                                 |                                                                                      |                                 |                 |              |               |                       | [==>]                           | [1]   |
|               | 2                                                                 | FUV EXP 1<br>(STIS.sp.23 08590) | (2) SN2026AYT                                                                        | STIS/FUV-MAMA, ACCUM,<br>52X0.2 | G140L<br>1425 A |              |               |                       | 2100 Secs (2100 Secs)           |       |
|               |                                                                   |                                 |                                                                                      |                                 |                 |              |               |                       | [==>]                           | [1]   |
|               | 3                                                                 | FUV EXP 2<br>(STIS.sp.23 08590) | (2) SN2026AYT                                                                        | STIS/FUV-MAMA, ACCUM,<br>52X0.2 | G140L<br>1425 A |              |               |                       | 2550 Secs (2550 Secs)           |       |
|               |                                                                   |                                 |                                                                                      |                                 |                 |              |               |                       | [==>]                           | [2]   |
|               | 4                                                                 | NUV EXP 1<br>(STIS.sp.23 08599) | (2) SN2026AYT                                                                        | STIS/NUV-MAMA, ACCUM,<br>52X0.2 | G230L<br>2376 A |              |               |                       | 2575 Secs (2575 Secs)           |       |
|               |                                                                   |                                 |                                                                                      |                                 |                 |              |               |                       | [==>]                           | [3]   |

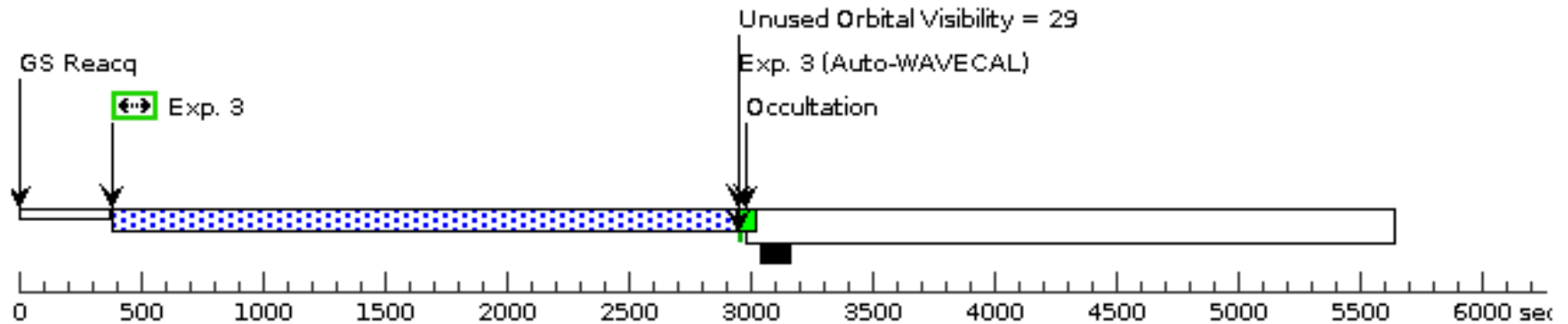
### Orbit 1

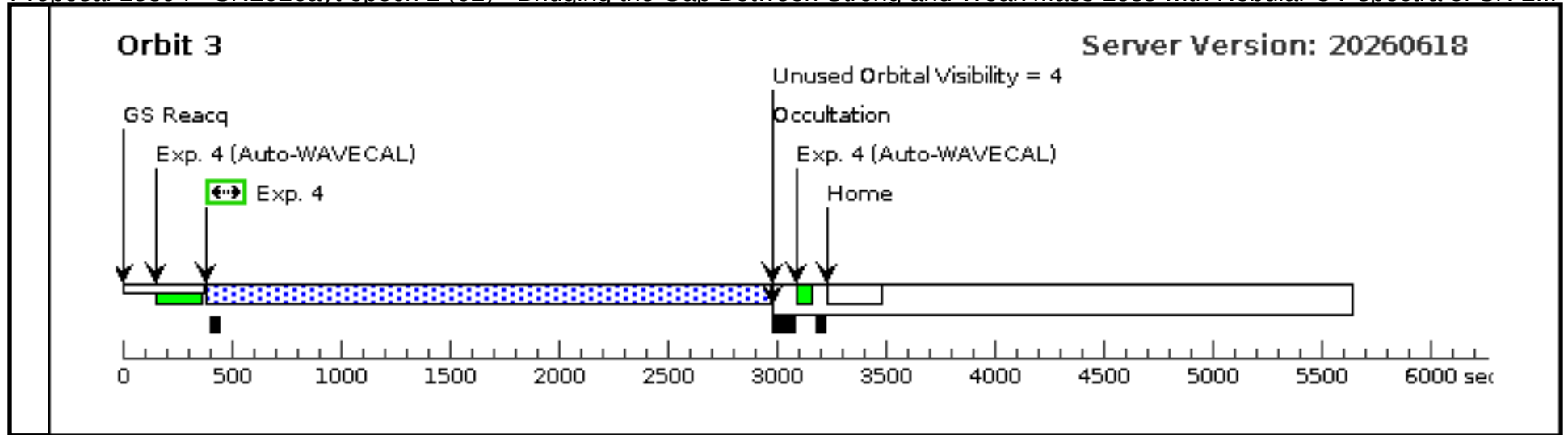
Server Version: 20260618



### Orbit 2

Server Version: 20260618





# Proposal 18394 - SN2025tis epoch 1 (03) - Bridging the Gap Between Strong and Weak Mass Loss with Nebular UV spectra of SN 20...

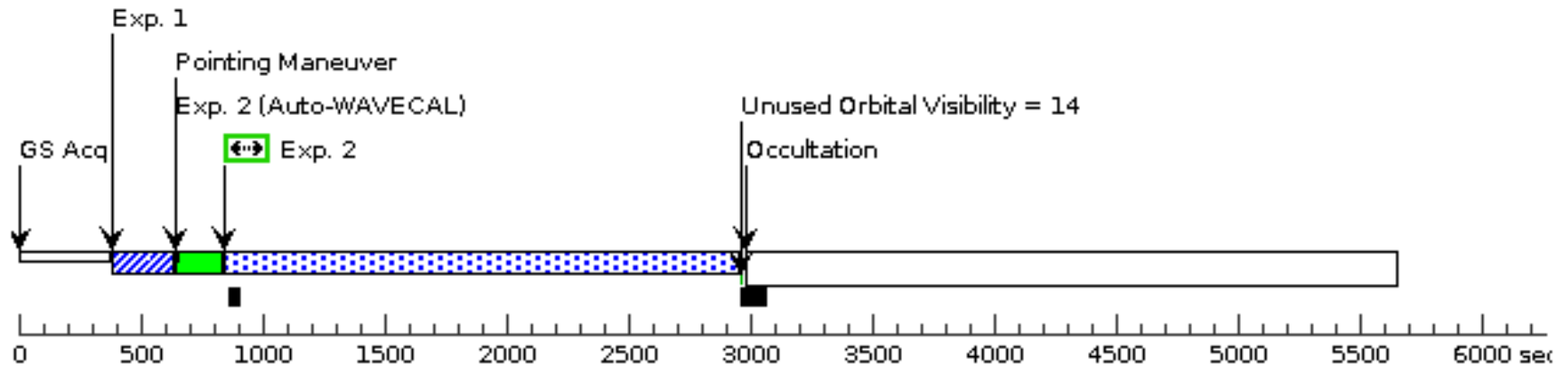
|                 |                                                                                                          |                              |                                                                                     |                              |                          |              |               |        |                                 |     |       |
|-----------------|----------------------------------------------------------------------------------------------------------|------------------------------|-------------------------------------------------------------------------------------|------------------------------|--------------------------|--------------|---------------|--------|---------------------------------|-----|-------|
| Visit           | Proposal 18394, SN2025tis epoch 1 (03)                                                                   |                              |                                                                                     |                              |                          |              |               |        | Wed Aug 19 16:01:37 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                   |     |       |
|                 | (1)                                                                                                      | SN2025TIS                    | RA: 03 55 22.7940 (58.8449750d)<br>Dec: -28 09 32.69 (-28.15908d)<br>Equinox: J2000 |                              |                          |              | V=19.4        |        | Reference Frame: ICRS           |     |       |
|                 | Comments:<br>Category=EXT-STAR<br>Description=[SUPERNOVA TYPE II]                                        |                              |                                                                                     |                              |                          |              |               |        |                                 |     |       |
|                 |                                                                                                          |                              |                                                                                     |                              |                          |              |               |        |                                 |     |       |
| Exposures       | #                                                                                                        | Label (ETC Run)              | Target                                                                              | Config,Mode,Aperture         | Spectral Els.            | Opt. Params. | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] |     | Orbit |
|                 | 1                                                                                                        | TA                           | (1) SN2025TIS                                                                       | STIS/CCD, ACQ, F28X50LP      | MIRROR                   |              |               |        | 5 Secs (5 Secs)                 |     |       |
|                 |                                                                                                          |                              |                                                                                     |                              |                          |              |               |        | [==>]                           |     | [1]   |
|                 | 2                                                                                                        | FUV EXP 1 (STIS.sp.23 08614) | (1) SN2025TIS                                                                       | STIS/FUV-MAMA, ACCUM, 52X0.2 | G140L<br>1425 A          |              |               |        | 870 Secs (870 Secs)             |     |       |
|                 |                                                                                                          |                              |                                                                                     |                              |                          |              |               |        | [==>]                           |     | [1]   |
|                 | 3                                                                                                        | NUV EXP 1 (STIS.sp.23 08612) | (1) SN2025TIS                                                                       | STIS/NUV-MAMA, ACCUM, 52X0.2 | G230L<br>2376 A          |              |               |        | 870 Secs (870 Secs)             |     |       |
|                 |                                                                                                          |                              |                                                                                     |                              |                          |              |               | [==>]  |                                 | [1] |       |
| Orbit Structure | <div><div>Orbit 1</div><div>Server Version: 20260618</div><div>Unused Orbital Visibility = 7</div></div> |                              |                                                                                     |                              |                          |              |               |        |                                 |     |       |

# Proposal 18394 - SN2025tis epoch 2 FUV (04) - Bridging the Gap Between Strong and Weak Mass Loss with Nebular UV spectra of S...

|               |                                                                   |                              |                                                                                     |                              |                 |              |               |                       |                                 |       |
|---------------|-------------------------------------------------------------------|------------------------------|-------------------------------------------------------------------------------------|------------------------------|-----------------|--------------|---------------|-----------------------|---------------------------------|-------|
| Visit         | Proposal 18394, SN2025tis epoch 2 FUV (04)                        |                              |                                                                                     |                              |                 |              |               |                       | Wed Aug 19 16:01:37 GMT 2026    |       |
|               | Diagnostic Status: No Diagnostics                                 |                              |                                                                                     |                              |                 |              |               |                       |                                 |       |
|               | Scientific Instruments: STIS/CCD, STIS/FUV-MAMA                   |                              |                                                                                     |                              |                 |              |               |                       |                                 |       |
|               | Special Requirements: AFTER 03 BY 200 D TO 400 D                  |                              |                                                                                     |                              |                 |              |               |                       |                                 |       |
| Fixed Targets | #                                                                 | Name                         | Target Coordinates                                                                  | Targ. Coord. Corrections     |                 | Fluxes       |               | Miscellaneous         |                                 |       |
|               | (1)                                                               | SN2025TIS                    | RA: 03 55 22.7940 (58.8449750d)<br>Dec: -28 09 32.69 (-28.15908d)<br>Equinox: J2000 |                              |                 | V=19.4       |               | Reference Frame: ICRS |                                 |       |
|               | Comments:<br>Category=EXT-STAR<br>Description=[SUPERNOVA TYPE II] |                              |                                                                                     |                              |                 |              |               |                       |                                 |       |
|               |                                                                   |                              |                                                                                     |                              |                 |              |               |                       |                                 |       |
| Exposures     | #                                                                 | Label (ETC Run)              | Target                                                                              | Config,Mode,Aperture         | Spectral Els.   | Opt. Params. | Special Reqs. | Groups                | Exp. Time (Total)/[Actual Dur.] | Orbit |
|               | 1                                                                 | TA                           | (1) SN2025TIS                                                                       | STIS/CCD, ACQ, F28X50LP      | MIRROR          |              |               |                       | 5 Secs (5 Secs)                 |       |
|               |                                                                   |                              |                                                                                     |                              |                 |              |               |                       | [==>]                           | [1]   |
|               | 2                                                                 | FUV EXP 1 (STIS.sp.23 08622) | (1) SN2025TIS                                                                       | STIS/FUV-MAMA, ACCUM, 52X0.2 | G140L<br>1425 A |              |               |                       | 2100 Secs (2100 Secs)           |       |
|               |                                                                   |                              |                                                                                     |                              |                 |              |               |                       | [==>]                           | [1]   |
|               | 3                                                                 | FUV EXP 2 (STIS.sp.23 08622) | (1) SN2025TIS                                                                       | STIS/FUV-MAMA, ACCUM, 52X0.2 | G140L<br>1425 A |              |               |                       | 2550 Secs (2550 Secs)           |       |
|               |                                                                   |                              |                                                                                     |                              |                 |              |               |                       | [==>]                           | [2]   |
|               | 4                                                                 | FUV EXP 3 (STIS.sp.23 08622) | (1) SN2025TIS                                                                       | STIS/FUV-MAMA, ACCUM, 52X0.2 | G140L<br>1425 A |              |               |                       | 2550 Secs (2550 Secs)           |       |
|               |                                                                   |                              |                                                                                     |                              |                 |              |               | [==>]                 | [3]                             |       |

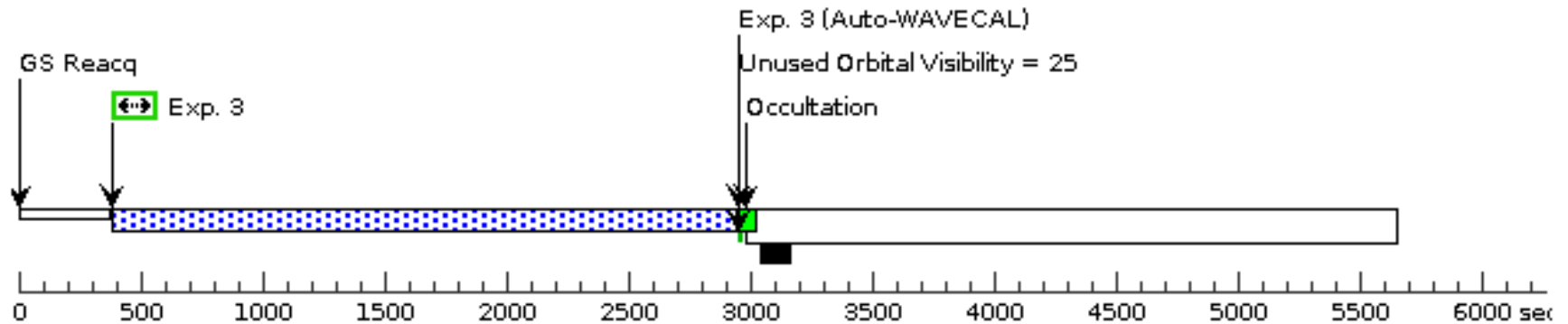
### Orbit 1

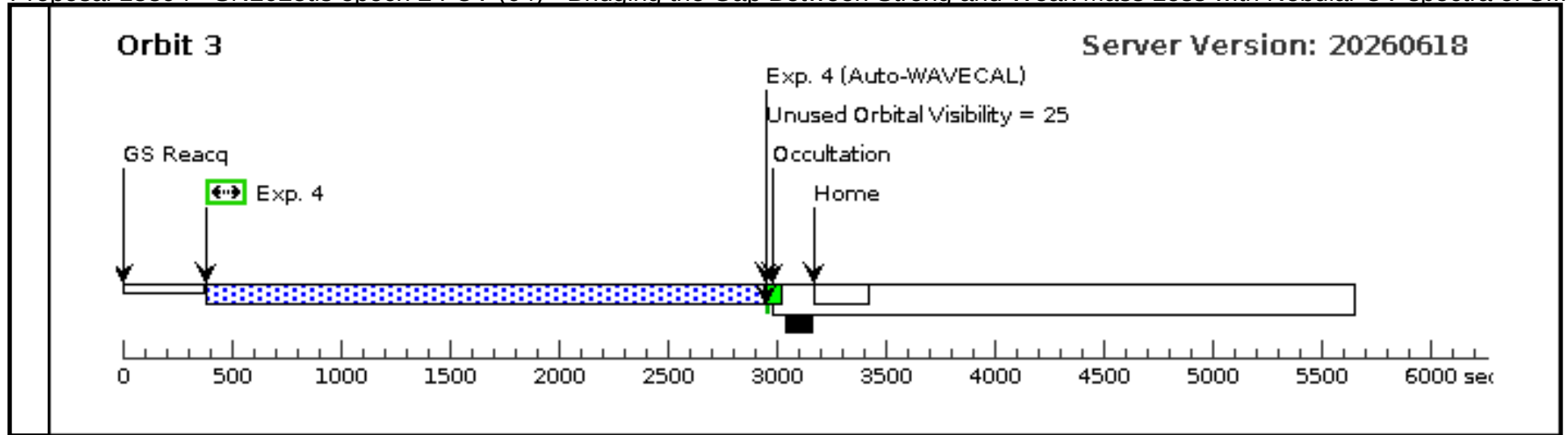
Server Version: 20260618



### Orbit 2

Server Version: 20260618



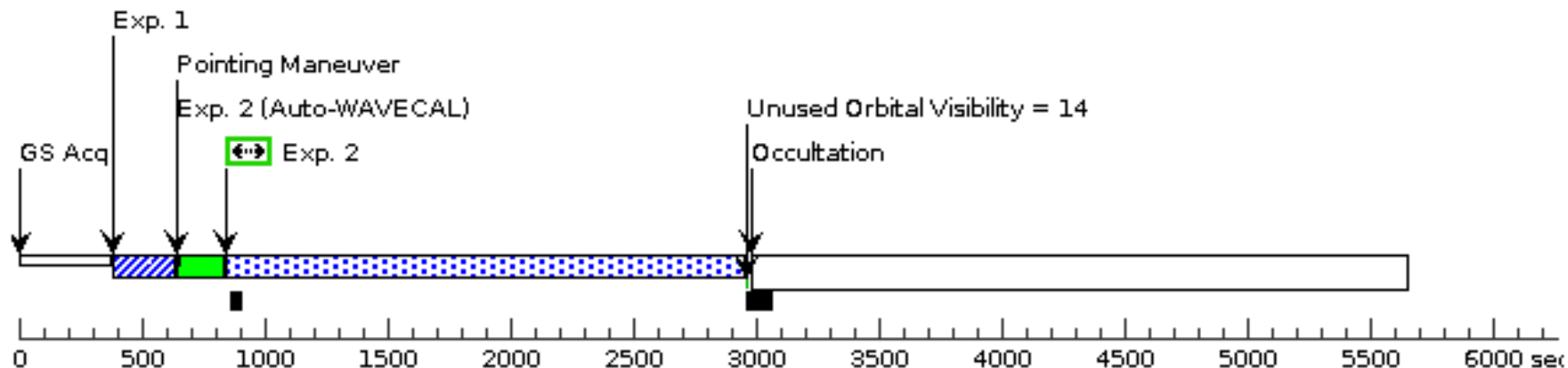


Proposal 18394 - SN2025tis epoch 2 NUV (06) - Bridging the Gap Between Strong and Weak Mass Loss with Nebular UV spectra of ...

|               |                                                                   |                              |               |                                                                                     |  |                          |              |               |        |                                 |                              |       |
|---------------|-------------------------------------------------------------------|------------------------------|---------------|-------------------------------------------------------------------------------------|--|--------------------------|--------------|---------------|--------|---------------------------------|------------------------------|-------|
| Visit         | Proposal 18394, SN2025tis epoch 2 NUV (06)                        |                              |               |                                                                                     |  |                          |              |               |        |                                 | Wed Aug 19 16:01:37 GMT 2026 |       |
|               | Diagnostic Status: No Diagnostics                                 |                              |               |                                                                                     |  |                          |              |               |        |                                 |                              |       |
|               | Scientific Instruments: STIS/NUV-MAMA, STIS/CCD                   |                              |               |                                                                                     |  |                          |              |               |        |                                 |                              |       |
|               | Special Requirements: AFTER 04 BY 0 D TO 14 D                     |                              |               |                                                                                     |  |                          |              |               |        |                                 |                              |       |
|               | Comments: If possible, please schedule with Visit 4               |                              |               |                                                                                     |  |                          |              |               |        |                                 |                              |       |
| Fixed Targets | #                                                                 | Name                         |               | Target Coordinates                                                                  |  | Targ. Coord. Corrections |              | Fluxes        |        | Miscellaneous                   |                              |       |
|               | (1)                                                               | SN2025TIS                    |               | RA: 03 55 22.7940 (58.8449750d)<br>Dec: -28 09 32.69 (-28.15908d)<br>Equinox: J2000 |  |                          |              | V=19.4        |        | Reference Frame: ICRS           |                              |       |
|               | Comments:<br>Category=EXT-STAR<br>Description=[SUPERNOVA TYPE II] |                              |               |                                                                                     |  |                          |              |               |        |                                 |                              |       |
| Exposures     | #                                                                 | Label (ETC Run)              | Target        | Config,Mode,Aperture                                                                |  | Spectral Els.            | Opt. Params. | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] |                              | Orbit |
|               | 1                                                                 | TA                           | (1) SN2025TIS | STIS/CCD, ACQ, F28X50LP                                                             |  | MIRROR                   |              |               |        | 5 Secs (5 Secs)                 |                              |       |
|               |                                                                   |                              |               |                                                                                     |  |                          |              |               |        | [==>]                           |                              | [1]   |
|               | 2                                                                 | NUV EXP 1 (STIS.sp.23 08623) | (1) SN2025TIS | STIS/NUV-MAMA, ACCUM, 52X0.2                                                        |  | G230L<br>2376 A          |              |               |        | 2100 Secs (2100 Secs)           |                              |       |
|               |                                                                   |                              |               |                                                                                     |  |                          |              |               |        | [==>]                           |                              | [1]   |
|               | 3                                                                 | NUV EXP 2 (STIS.sp.23 08623) | (1) SN2025TIS | STIS/NUV-MAMA, ACCUM, 52X0.2                                                        |  | G230L<br>2376 A          |              |               |        | 2575 Secs (2575 Secs)           |                              |       |
|               |                                                                   |                              |               |                                                                                     |  |                          |              |               |        | [==>]                           |                              | [2]   |
|               | 4                                                                 | NUV EXP 3 (STIS.sp.23 08623) | (1) SN2025TIS | STIS/NUV-MAMA, ACCUM, 52X0.2                                                        |  | G230L<br>2376 A          |              |               |        | 2575 Secs (2575 Secs)           |                              |       |
|               |                                                                   |                              |               |                                                                                     |  |                          |              |               |        | [==>]                           |                              | [3]   |
|               | 5                                                                 | NUV EXP 4 (STIS.sp.23 08623) | (1) SN2025TIS | STIS/NUV-MAMA, ACCUM, 52X0.2                                                        |  | G230L<br>2376 A          |              |               |        | 2575 Secs (2575 Secs)           |                              |       |
|               |                                                                   |                              |               |                                                                                     |  |                          |              |               | [==>]  |                                 | [4]                          |       |

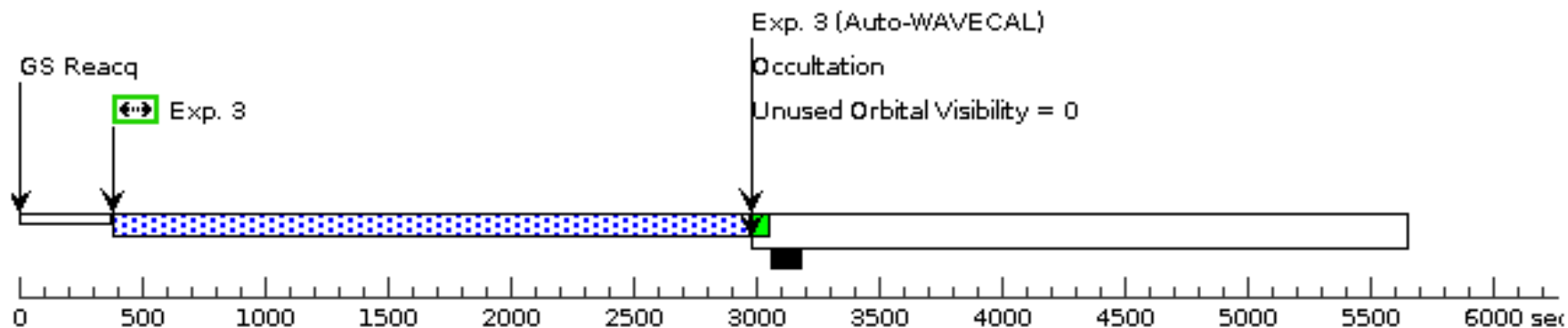
### Orbit 1

Server Version: 20260618



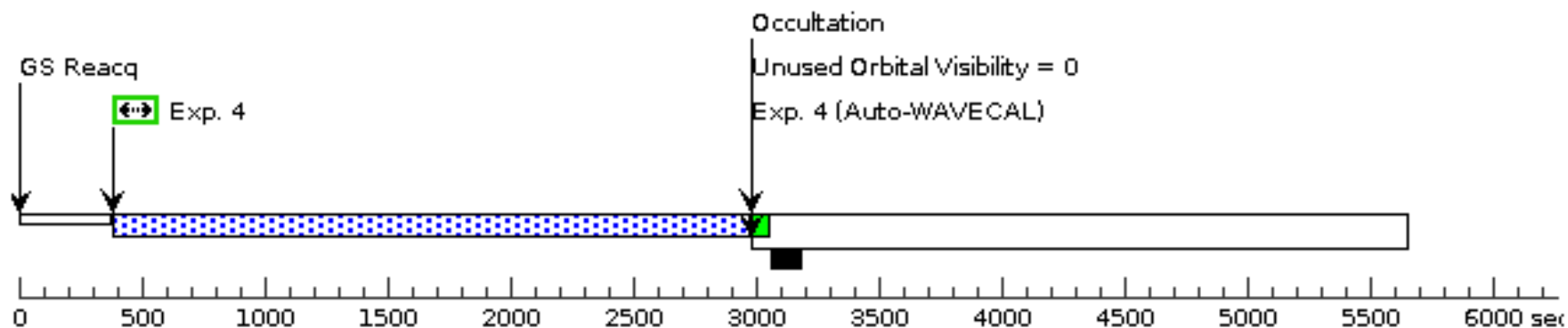
### Orbit 2

Server Version: 20260618



### Orbit 3

Server Version: 20260618



### Orbit 4

Server Version: 20260618

