



10897 - Coronagraphic imaging of the submillimeter debris disk of a 200Myr old M-dwarf

Cycle: 15, Proposal Category: GO

(Availability Mode: SUPPORTED)

INVESTIGATORS

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|---|----------------------------------|--|
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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) GJ-842.2 | NIC2 | 3 | 24-Nov-2009 21:00:58.0 | yes |
| 02 | (3) GJ-809 | NIC2 | 2 | 24-Nov-2009 21:01:09.0 | yes |
| 03 | (1) GJ-842.2 | NIC2 | 4 | 24-Nov-2009 21:01:22.0 | yes |
| 11 | (4) GJ-842.2-COPY | STIS/CCD | 1 | 24-Nov-2009 21:01:28.0 | yes |
| 12 | (5) GJ-809-COPY | STIS/CCD | 1 | 24-Nov-2009 21:01:31.0 | yes |
| 13 | (6) G262-029 | STIS/CCD | 1 | 24-Nov-2009 21:01:34.0 | yes |
| 21 | (4) GJ-842.2-COPY | STIS/CCD | 1 | 24-Nov-2009 21:01:36.0 | yes |
| 22 | (5) GJ-809-COPY | STIS/CCD | 1 | 24-Nov-2009 21:01:39.0 | yes |

| <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> |
|--------------|------------------------------|-------------------------------------|--------------------|-------------------------------|-------------------------------|
| 23 | (6) G262-029 | STIS/CCD | 1 | 24-Nov-2009 21:01:42.0 | yes |
| 31 | (4) GJ-842.2-COPY | STIS/CCD | 1 | 24-Nov-2009 21:01:44.0 | yes |
| 32 | (5) GJ-809-COPY | STIS/CCD | 1 | 24-Nov-2009 21:01:47.0 | yes |
| 33 | (6) G262-029 | STIS/CCD | 1 | 24-Nov-2009 21:01:50.0 | yes |
| 61 | (4) GJ-842.2-COPY | STIS/CCD | 1 | 24-Nov-2009 21:01:53.0 | yes |
| 62 | (5) GJ-809-COPY | STIS/CCD | 1 | 24-Nov-2009 21:01:55.0 | yes |
| 63 | (6) G262-029 | STIS/CCD | 1 | 24-Nov-2009 21:01:58.0 | yes |
| 71 | (4) GJ-842.2-COPY | STIS/CCD | 1 | 24-Nov-2009 21:02:00.0 | yes |
| 73 | (6) G262-029 | STIS/CCD | 1 | 24-Nov-2009 21:02:03.0 | yes |

23 Total Orbits Used

ABSTRACT

A recent sub-millimeter survey has unambiguously discovered a new debris disk around the M0.5 dwarf GJ842.2 which is 200 Myr old. Reanalysis of the IRAS data has shown that there is also a 25 micron excess toward this star indicating warm dust close to the star. It is also only the second debris disk found among M-dwarfs that constitute 70 % of the stars in the Galaxy. Collisional and Poynting-Roberston timescale arguments indicate that the cold grains detected in the sub-mm are "primordial", i.e. original grains from the protoplanetary phase. The disk around GJ842.2 is thus unique in terms of the presence of dust at such a late stage of evolution and presents two conundrums: why did it retain so much primordial dust at large distances, and why does it continue to produce dust close to the star? We propose to conduct high contrast NICMOS coronagraphic imaging of GJ842.2 to determine the spatial distribution of the small reflecting grains and test the various scenarios which might explain the IRAS and sub-mm data e.g.resonant trapping of dust by planets or "sandblasting" by interstellar medium grains working more aggressively on a low-luminosity star than on an A-type star like Beta Pic. Also, we would search for an evolutionary sequence between GJ842.2 and the only other M-dwarf with a disk resolved by HST, the 10 Myr old AU Mic system.

OBSERVING DESCRIPTION

The NICMOS coronagraph will be used to image GJ 842.2 at F110W, F165M to resolve its faint debris disk. Two visits (3 orbits and 4 orbits each, respectively) will be used to image our science target. The second visit has the constraint that the observations have a roll angle difference of 30 degrees from the first visit; this roll angle constraint will enable us to better differentiate real disk structure from PSF subtraction artifacts. A third visit (2 orbits) will be used to observe our PSF calibrator, GJ 809. All 3 visits are constrained to occur in adjacent orbits to prevent motion of the coronagraphic mechanism and reduce time-dependent "breathing" of the telescope focus.

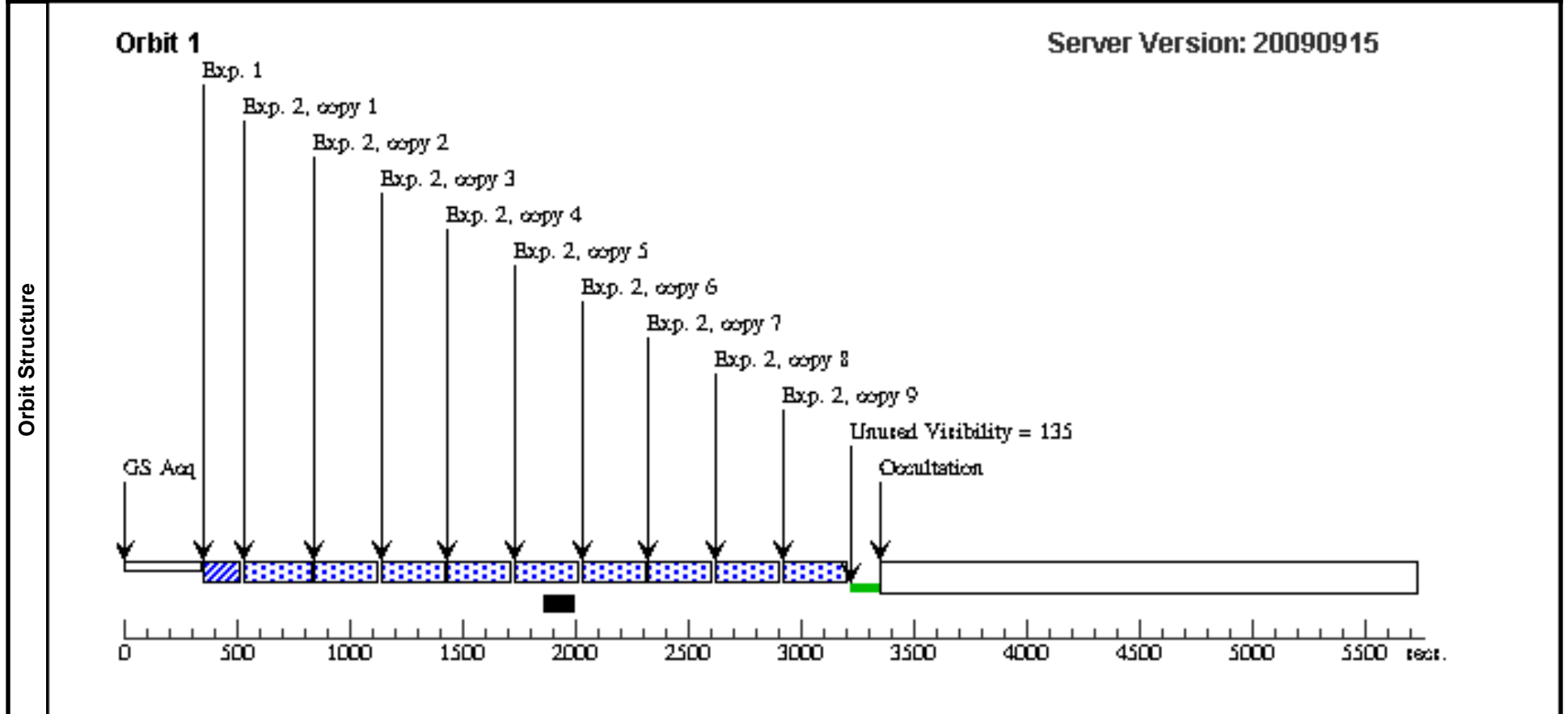
Proposal 10897 - Visit 01 - Coronagraphic imaging of the submillimeter debris disk of a 200Myr old M-dwarf

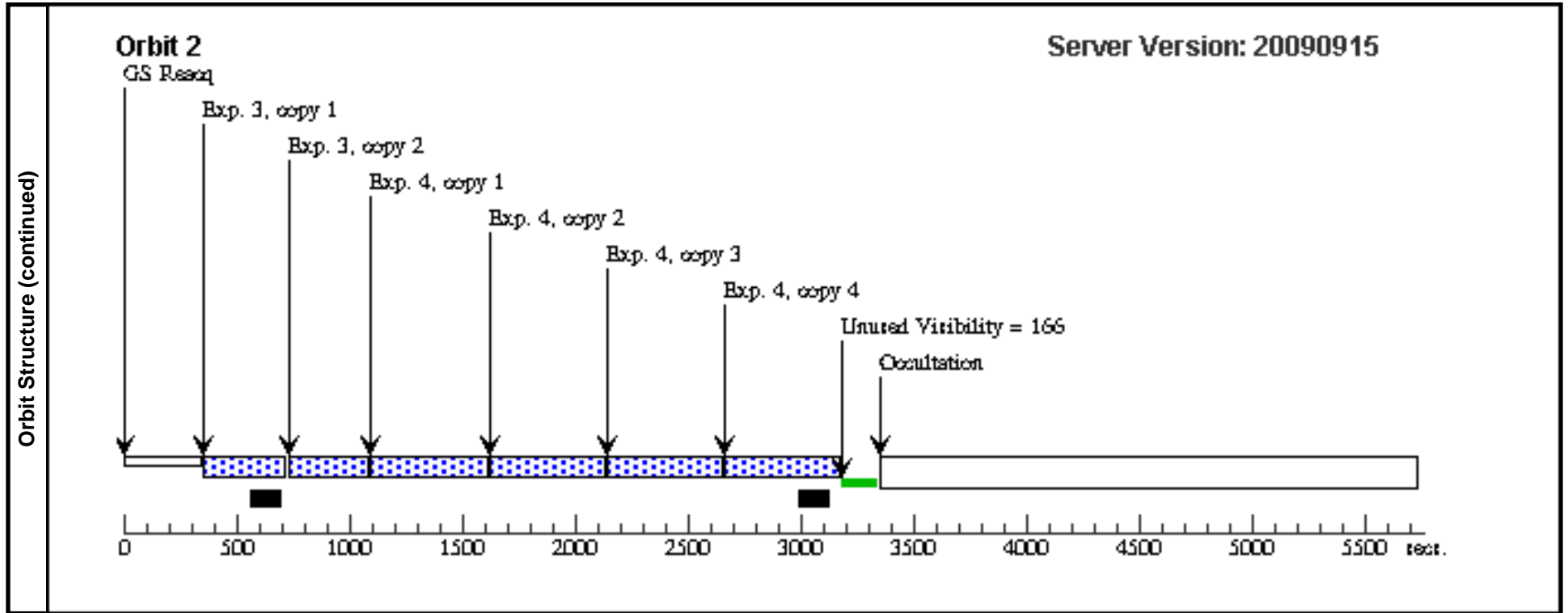
Wed Nov 25 02:02:06 GMT 2009

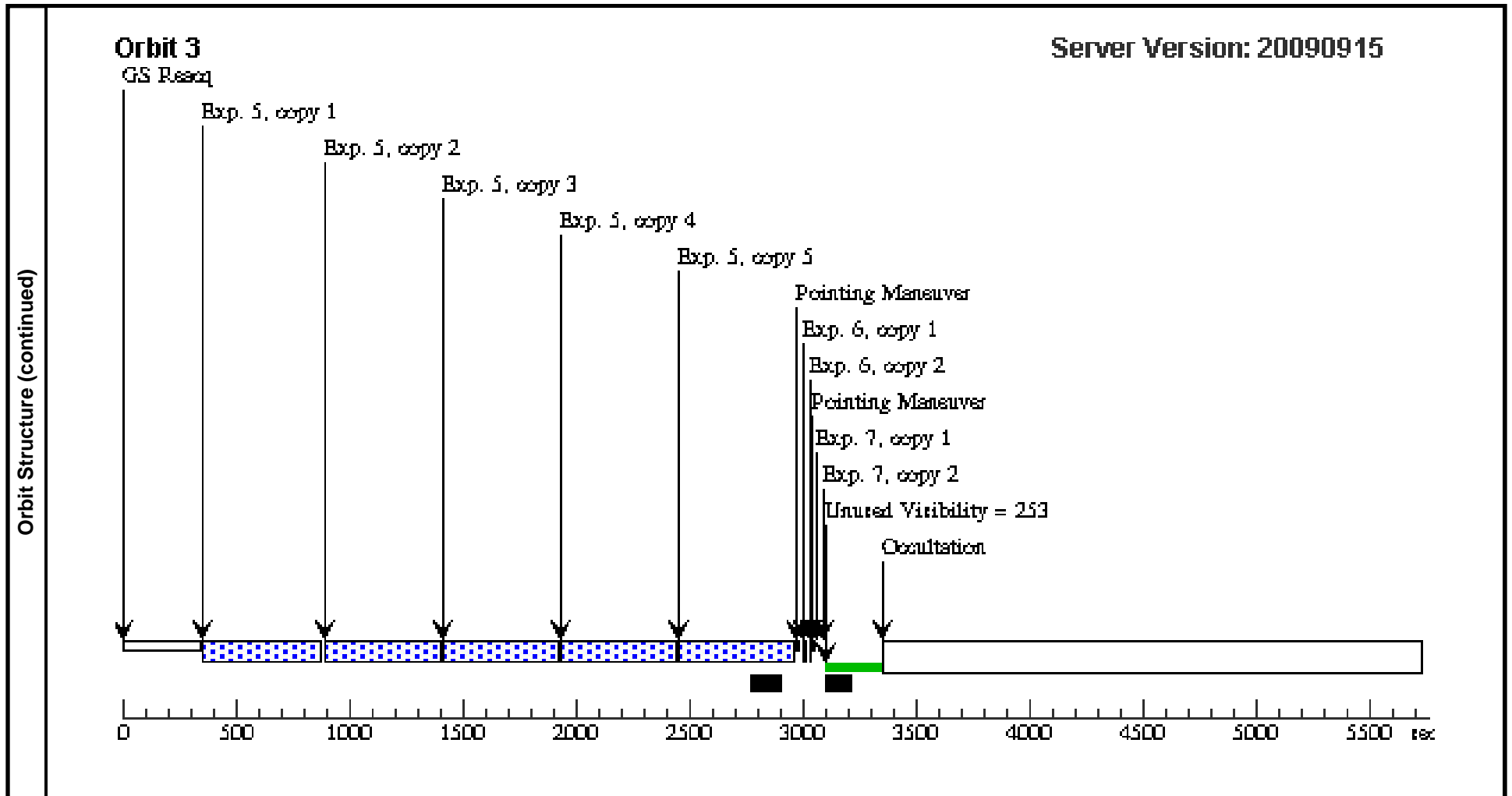
| Visit | Proposal 10897, Visit 01, failed Diagnostic Status: No Diagnostics Scientific Instruments: NIC2 Special Requirements: (none) <i>Comments: We have no orient or timing requirements for this visit. It is imperative that the visit be executed without interruption. This program was previously an ACS coronagraphy program scheduled for execution from Aug 30-Sept 1 2007. The redesign of the program for usage of the NICMOS coronagraph per the present phase-2 file does not adversely affect this previous plan window.</i> | | | | | | | | | |
|-----------|---|----------------------------------|---|--|--------------------------|----------------------------------|---------------|----------------------|---|-------|
| | Fixed Targets | # | Name | Target Coordinates | Targ. Coord. Corrections | Fluxes | Miscellaneous | | | |
| | (1) | GJ-842.2 Alt Name1: HIP108467 | RA: 21 58 24.5054 (329.6021058d) Dec: +75 35 20.63 (75.58906d) Equinox: J2000 | Proper Motion RA: 0.0621s/yr Proper Motion Dec: 0.0226"/yr Parallax: 0.04795" Epoch of Position: 1989.03 Radial Velocity: -11 km/sec | V=10.66+/-0.05 | Reference Frame: ICRS | | | | |
| | <i>Comments: Coordinates (ICRS J2000; epoch 1989.03 from GSC 2.2 catalog). PM $[(0.23183 \text{ as/yr}) / (15 \cos 75.58900273 \text{ deg})]; 22.60 \text{ mas/yr}$ taken from Hipparcos Main Catalog.</i> | | | | | | | | | |
| Exposures | # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time/[Actual Dur.] | Orbit |
| | 1 | | (1) GJ-842.2 | NIC2, ACQ, NIC2-ACQ | F171M | | | Sequence 1-2 Non-Int | 0.35 Secs [==>] | [1] |
| | 2 | | (1) GJ-842.2 | NIC2, MULTIACCUM, NIC2-CORON | F110W | SAMP-SEQ=STEP3 2; NSAMP=16 | | Sequence 1-2 Non-Int | [==>(Copy 1)] [==>(Copy 2)] [==>(Copy 3)] [==>(Copy 4)] [==>(Copy 5)] [==>(Copy 6)] [==>(Copy 7)] [==>(Copy 8)] [==>(Copy 9)] | [1] |
| | 3 | | (1) GJ-842.2 | NIC2, MULTIACCUM, NIC2-CORON | F110W | NSAMP=18; SAMP-SEQ=STEP3 2 | | Sequence 3-4 Non-Int | [==>(Copy 1)] [==>(Copy 2)] | [2] |
| | 4 | | (1) GJ-842.2 | NIC2, MULTIACCUM, NIC2-CORON | F165M | NSAMP=16; SAMP-SEQ=STEP6 4 | | Sequence 3-4 Non-Int | [==>(Copy 1)] [==>(Copy 2)] [==>(Copy 3)] [==>(Copy 4)] | [2] |
| | 5 | | (1) GJ-842.2 | NIC2, MULTIACCUM, NIC2-CORON | F165M | NSAMP=16; SAMP-SEQ=STEP6 4 | | Sequence 5-7 Non-Int | [==>(Copy 1)] [==>(Copy 2)] [==>(Copy 3)] [==>(Copy 4)] [==>(Copy 5)] | [3] |

Proposal 10897 - Visit 01 - Coronagraphic imaging of the submillimeter debris disk of a 200Myr old M-dwarf

| Exposures (continued) | # | Label | Target | Config, Mode, Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time/[Actual Dur.] | Orbit |
|-----------------------|---|--------------|------------------------------|------------------------------|----------------------------------|----------------------------------|----------------------|--------------------------------|--------------------------------|-------|
| | 6 | | (1) GJ-842.2 | NIC2, MULTIACCUM, NIC2-CORON | F165M | NSAMP=16; SAMP-SEQ=SCAM RR | POS TARG 3.0,-3.0 | Sequence 5-7 Non-Int | [==>(Copy 1)] [==>(Copy 2)] | [3] |
| 7 | | (1) GJ-842.2 | NIC2, MULTIACCUM, NIC2-CORON | F110W | NSAMP=16; SAMP-SEQ=SCAM RR | POS TARG 3.0,-2.0 | Sequence 5-7 Non-Int | [==>(Copy 1)] [==>(Copy 2)] | [3] | |



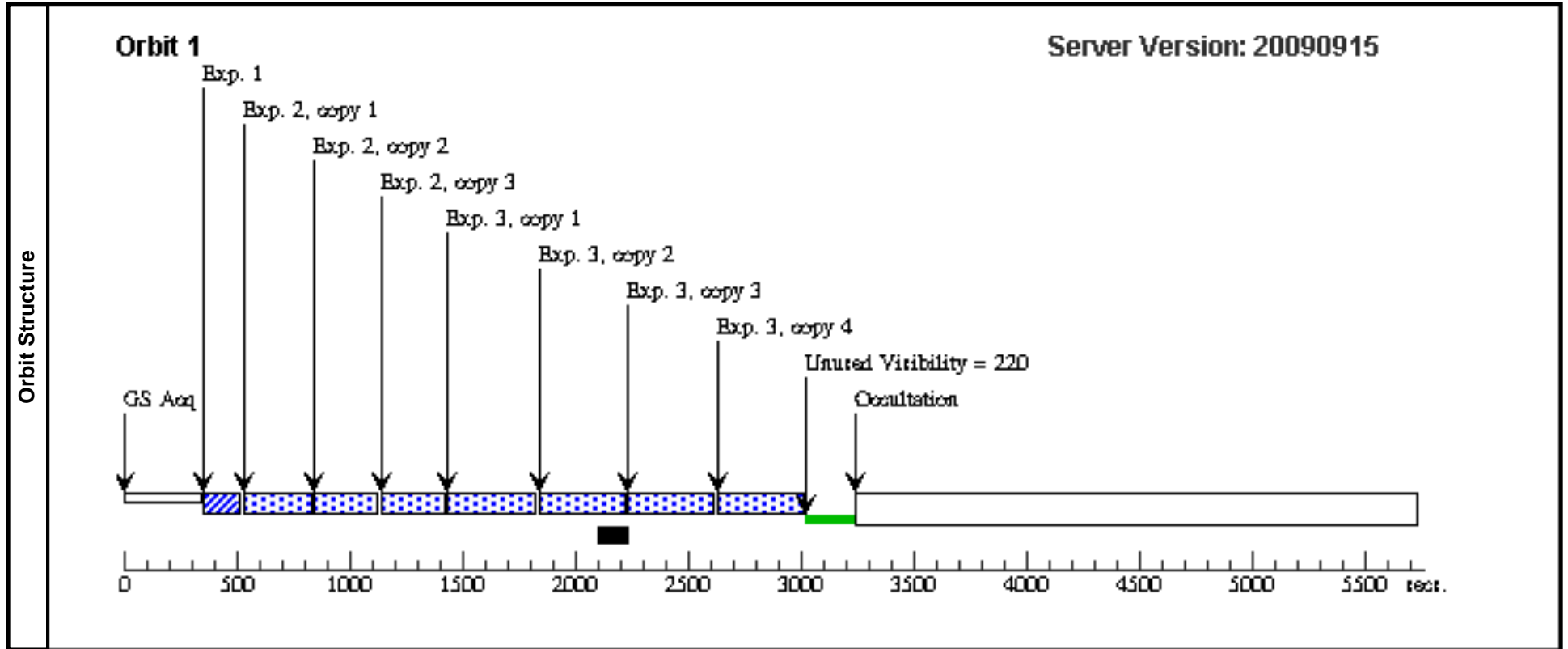


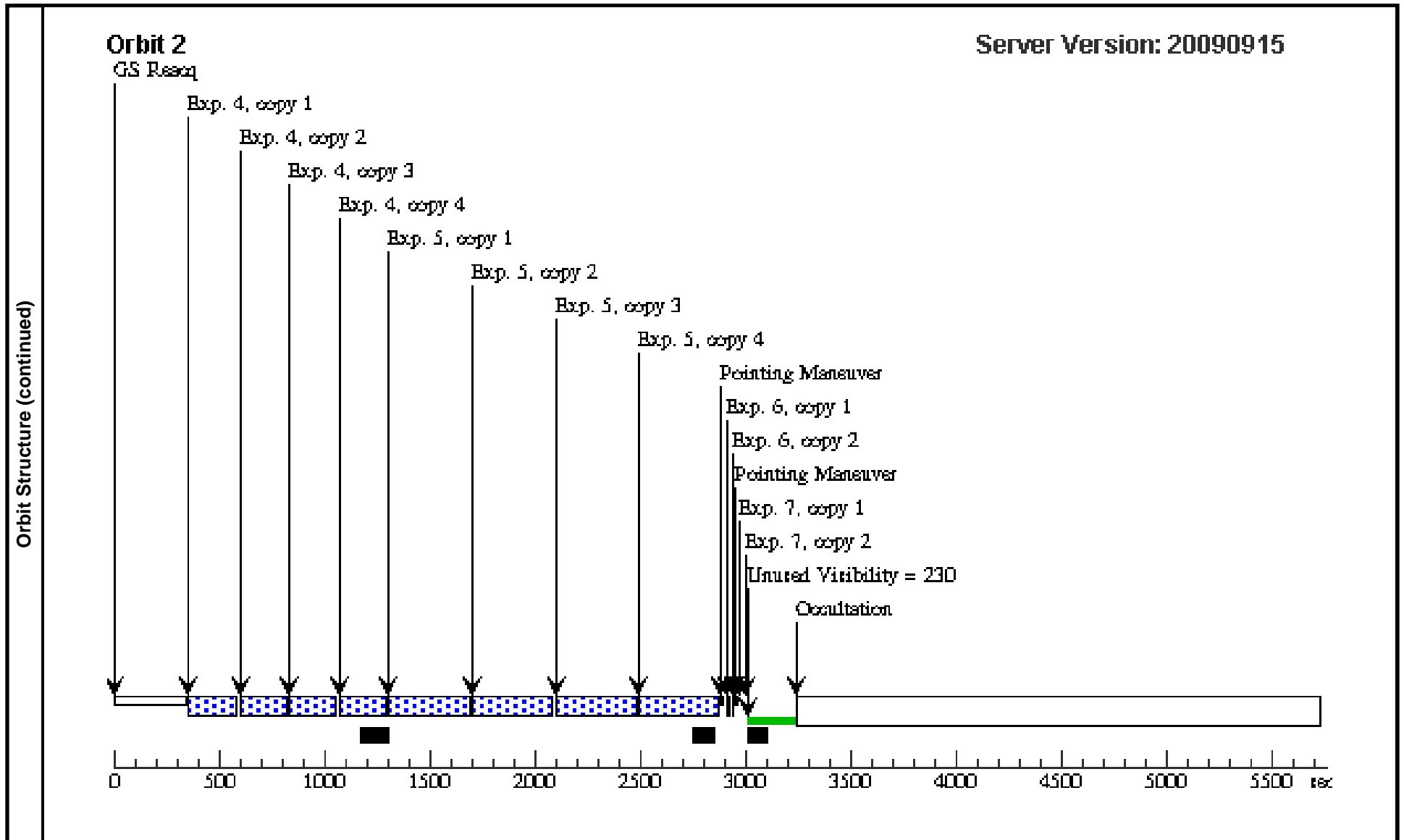


Proposal 10897 - Visit 02 - Coronagraphic imaging of the submillimeter debris disk of a 200Myr old M-dwarf

Wed Nov 25 02:02:07 GMT 2009

| Visit | Proposal 10897, Visit 02, failed Diagnostic Status: No Diagnostics Scientific Instruments: NIC2 Special Requirements: AFTER 01 BY 0.1 D TO 1.0 D Comments: <i>We have no orient constraints for Visit #02. It is imperative that visit #02 is executed following visit #01 as per the specified timing requirement, to minimize the severity of PSF subtraction residuals caused by the "breathing" of the telescope focus.</i> | | | | | | | | | |
|-----------|---|------------|-------------------------------|---|--|----------------------------------|-----------------------|--------------------------------|--|-------|
| | Fixed Targets | # | Name | Target Coordinates | Targ. Coord. Corrections | Fluxes | Miscellaneous | | | |
| | | (3) | GJ-809 Alt Name1: HD199305 | RA: 20 53 19.7890 (313.3324542d) Dec: +62 09 15.81 (62.15439d) Equinox: J2000 | Proper Motion RA: 1.5E-4s/yr Proper Motion Dec: -0.77424"/yr Parallax: 0.14195" Epoch of Position: 1991.12 Radial Velocity: -15.9 km/sec | V=8.76+/-0.01 | Reference Frame: ICRS | | | |
| | Comments: <i>Coordinates (ICRS J2000; epoch1991.120) from GSC 2.2 catalog. PM (1.08 mas/yr, -774.24 mas/yr) from Hipparcos catalog.</i> | | | | | | | | | |
| Exposures | # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time/[Actual Dur.] | Orbit |
| | 1 | (3) GJ-809 | (3) GJ-809 | NIC2, ACQ, NIC2-ACQ | F187N | | | Sequence 1-3 Non-Int | 0.35 Secs [==>] | [1] |
| | 2 | (3) GJ-809 | (3) GJ-809 | NIC2, MULTIACCUM, NIC2-CORON | F110W | NSAMP=16; SAMP-SEQ=STEP3 2 | | Sequence 1-3 Non-Int | [==>(Copy 1)] [==>(Copy 2)] [==>(Copy 3)] | [1] |
| | 3 | (3) GJ-809 | (3) GJ-809 | NIC2, MULTIACCUM, NIC2-CORON | F165M | NSAMP=14; SAMP-SEQ=STEP6 4 | | Sequence 1-3 Non-Int | [==>(Copy 1)] [==>(Copy 2)] [==>(Copy 3)] [==>(Copy 4)] | [1] |
| | 4 | (3) GJ-809 | (3) GJ-809 | NIC2, MULTIACCUM, NIC2-CORON | F110W | NSAMP=14; SAMP-SEQ=STEP3 2 | | Sequence 4-7 Non-Int | [==>(Copy 1)] [==>(Copy 2)] [==>(Copy 3)] [==>(Copy 4)] | [2] |
| | 5 | (3) GJ-809 | (3) GJ-809 | NIC2, MULTIACCUM, NIC2-CORON | F165M | NSAMP=14; SAMP-SEQ=STEP6 4 | | Sequence 4-7 Non-Int | [==>(Copy 1)] [==>(Copy 2)] [==>(Copy 3)] [==>(Copy 4)] | [2] |
| | 6 | (3) GJ-809 | (3) GJ-809 | NIC2, MULTIACCUM, NIC2-CORON | F165M | NSAMP=12; SAMP-SEQ=SCAM RR | POS TARG 3.0,-3.0 | Sequence 4-7 Non-Int | [==>(Copy 1)] [==>(Copy 2)] | [2] |
| 7 | (3) GJ-809 | (3) GJ-809 | NIC2, MULTIACCUM, NIC2-CORON | F110W | NSAMP=12; SAMP-SEQ=SCAM RR | POS TARG 3.0,-2.0 | Sequence 4-7 Non-Int | [==>(Copy 1)] [==>(Copy 2)] | [2] | |





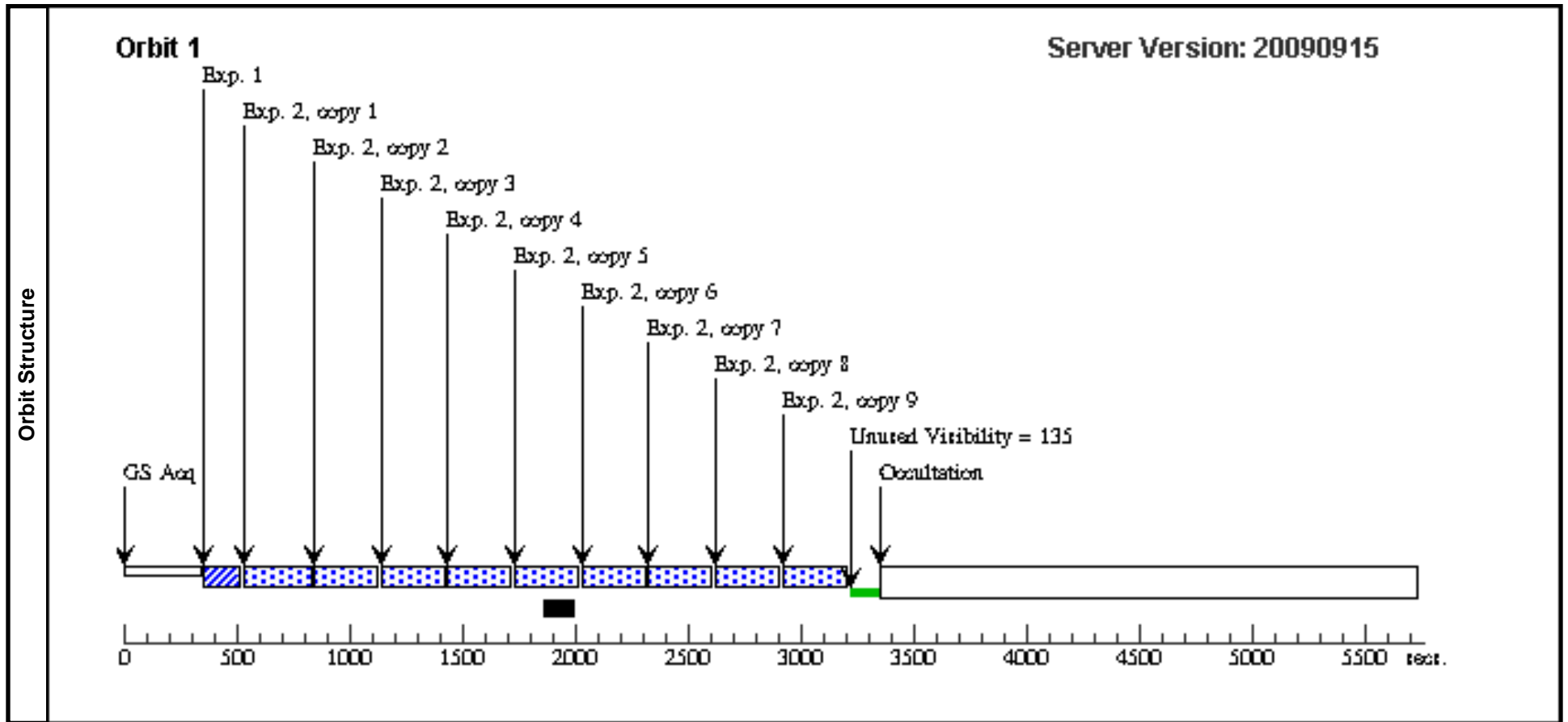
Proposal 10897 - Visit 03 - Coronagraphic imaging of the submillimeter debris disk of a 200Myr old M-dwarf

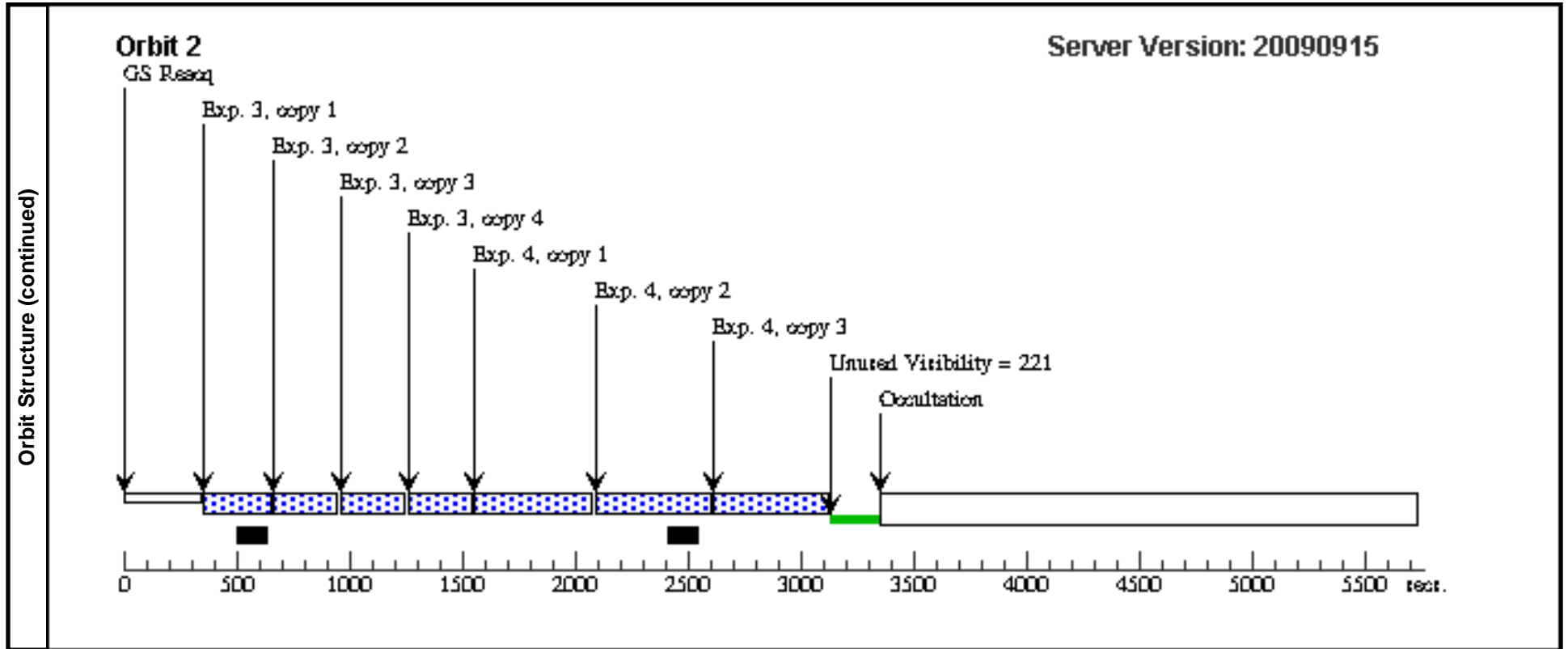
Wed Nov 25 02:02:08 GMT 2009

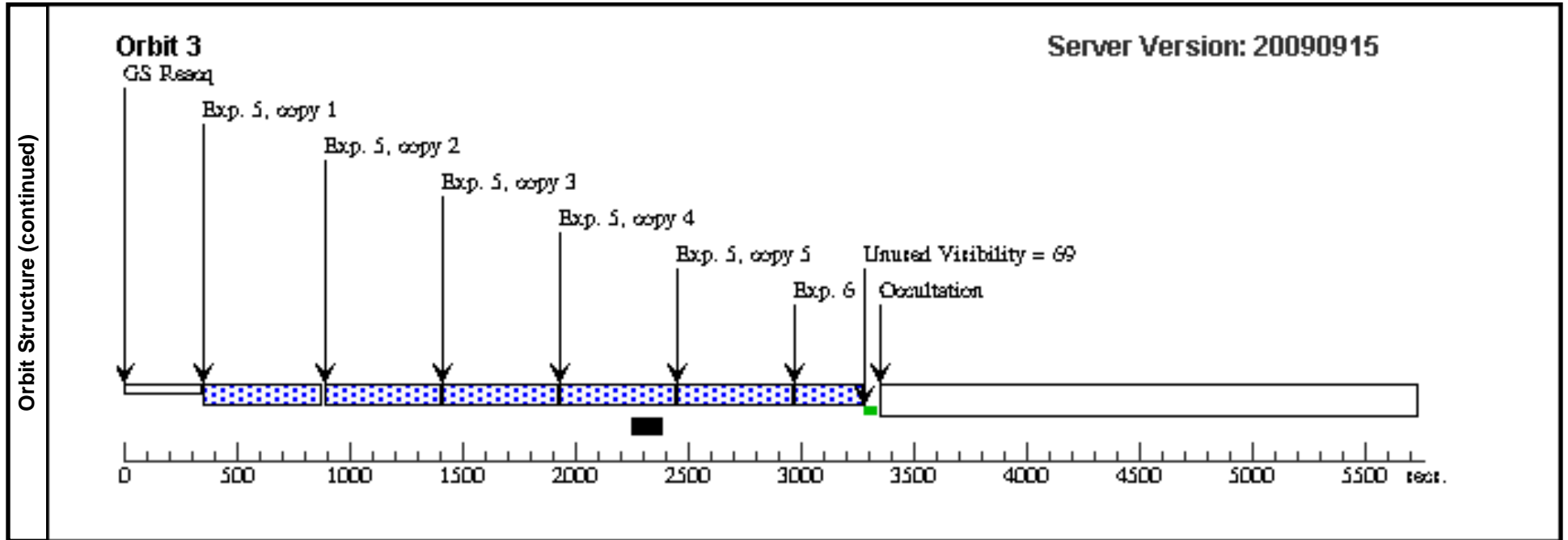
| Visit | Proposal 10897, Visit 03, failed Diagnostic Status: No Diagnostics Scientific Instruments: NIC2 Special Requirements: ORIENT 28.0D TO 32.0D FROM 01; AFTER 02 BY 0.1 D TO 1.0 D <i>Comments: Visit #03 must be oriented 28-32 degrees from the orient used in visit #01, to enable us to differentiate PSF subtraction residuals from bonafide disk structure. Visit #03 must be executed as per the specified timing requirement, to minimize PSF subtraction residuals caused by the "breathing" of the telescope focus.</i> | | | | | | | | | |
|-----------|--|----------------------------------|---|--|----------------------------------|----------------------------------|----------------------|---|---|-------|
| | Fixed Targets | # | Name | Target Coordinates | Targ. Coord. Corrections | Fluxes | Miscellaneous | | | |
| | (1) | GJ-842.2 Alt Name1: HIP108467 | RA: 21 58 24.5054 (329.6021058d) Dec: +75 35 20.63 (75.58906d) Equinox: J2000 | Proper Motion RA: 0.0621s/yr Proper Motion Dec: 0.0226"/yr Parallax: 0.04795" Epoch of Position: 1989.03 Radial Velocity: -11 km/sec | V=10.66+/-0.05 | Reference Frame: ICRS | | | | |
| | <i>Comments: Coordinates (ICRS J2000; epoch 1989.03 from GSC 2.2 catalog). PM $\sqrt{(0.23183 \text{ as/yr})^2 + (15 \cos 75.58900273 \text{ deg})^2}$; 22.60 mas/yr taken from Hipparcos Main Catalog.</i> | | | | | | | | | |
| Exposures | # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time/[Actual Dur.] | Orbit |
| | 1 | | (1) GJ-842.2 | NIC2, ACQ, NIC2-ACQ | F171M | | | Sequence 1-2 Non-Int | 0.35 Secs [==>] | [1] |
| | 2 | | (1) GJ-842.2 | NIC2, MULTIACCUM, NIC2-CORON | F110W | NSAMP=16; SAMP-SEQ=STEP3 2 | | Sequence 1-2 Non-Int | [==>(Copy 1)] [==>(Copy 2)] [==>(Copy 3)] [==>(Copy 4)] [==>(Copy 5)] [==>(Copy 6)] [==>(Copy 7)] [==>(Copy 8)] [==>(Copy 9)] | [1] |
| | 3 | | (1) GJ-842.2 | NIC2, MULTIACCUM, NIC2-CORON | F110W | NSAMP=16; SAMP-SEQ=STEP3 2 | | Sequence 3-4 Non-Int | [==>(Copy 1)] [==>(Copy 2)] [==>(Copy 3)] [==>(Copy 4)] | [2] |
| | 4 | | (1) GJ-842.2 | NIC2, MULTIACCUM, NIC2-CORON | F165M | NSAMP=16; SAMP-SEQ=STEP6 4 | | Sequence 3-4 Non-Int | [==>(Copy 1)] [==>(Copy 2)] [==>(Copy 3)] | [2] |
| 5 | | (1) GJ-842.2 | NIC2, MULTIACCUM, NIC2-CORON | F165M | NSAMP=16; SAMP-SEQ=STEP6 4 | | Sequence 5-6 Non-Int | [==>(Copy 1)] [==>(Copy 2)] [==>(Copy 3)] [==>(Copy 4)] [==>(Copy 5)] | [3] | |

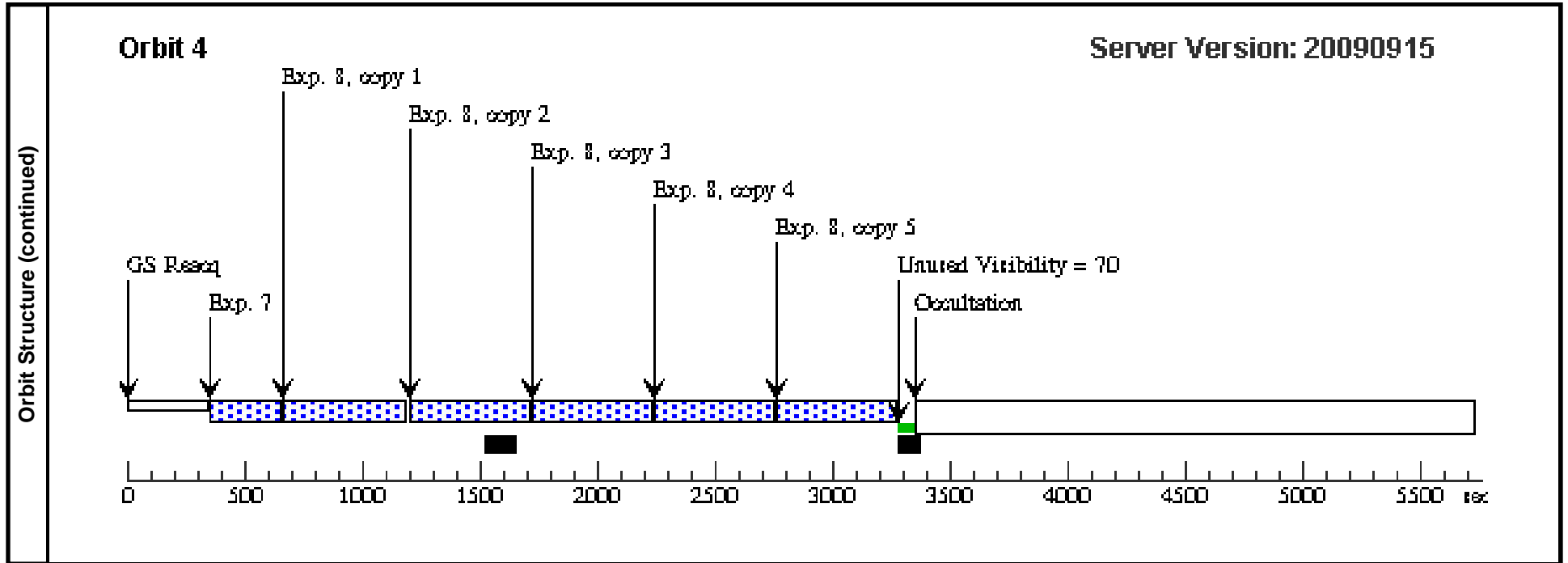
Proposal 10897 - Visit 03 - Coronagraphic imaging of the submillimeter debris disk of a 200Myr old M-dwarf

| Exposures (continued) | # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time/[Actual Dur.] | Orbit |
|-----------------------|---|--------------|---------------------------------|----------------------|----------------------------------|----------------------|---|--------|-------------------------|-------|
| | 6 | (1) GJ-842.2 | NIC2, MULTIACCUM, NIC2-CORON | F110W | NSAMP=16; SAMP-SEQ=STEP3 2 | Sequence 5-6 Non-Int | [==>] | [3] | | |
| | 7 | (1) GJ-842.2 | NIC2, MULTIACCUM, NIC2-CORON | F110W | NSAMP=16; SAMP-SEQ=STEP3 2 | Sequence 7-8 Non-Int | [==>] | [4] | | |
| | 8 | (1) GJ-842.2 | NIC2, MULTIACCUM, NIC2-CORON | F165M | NSAMP=16; SAMP-SEQ=STEP6 4 | Sequence 7-8 Non-Int | [==>(Copy 1)] [==>(Copy 2)] [==>(Copy 3)] [==>(Copy 4)] [==>(Copy 5)] | [4] | | |





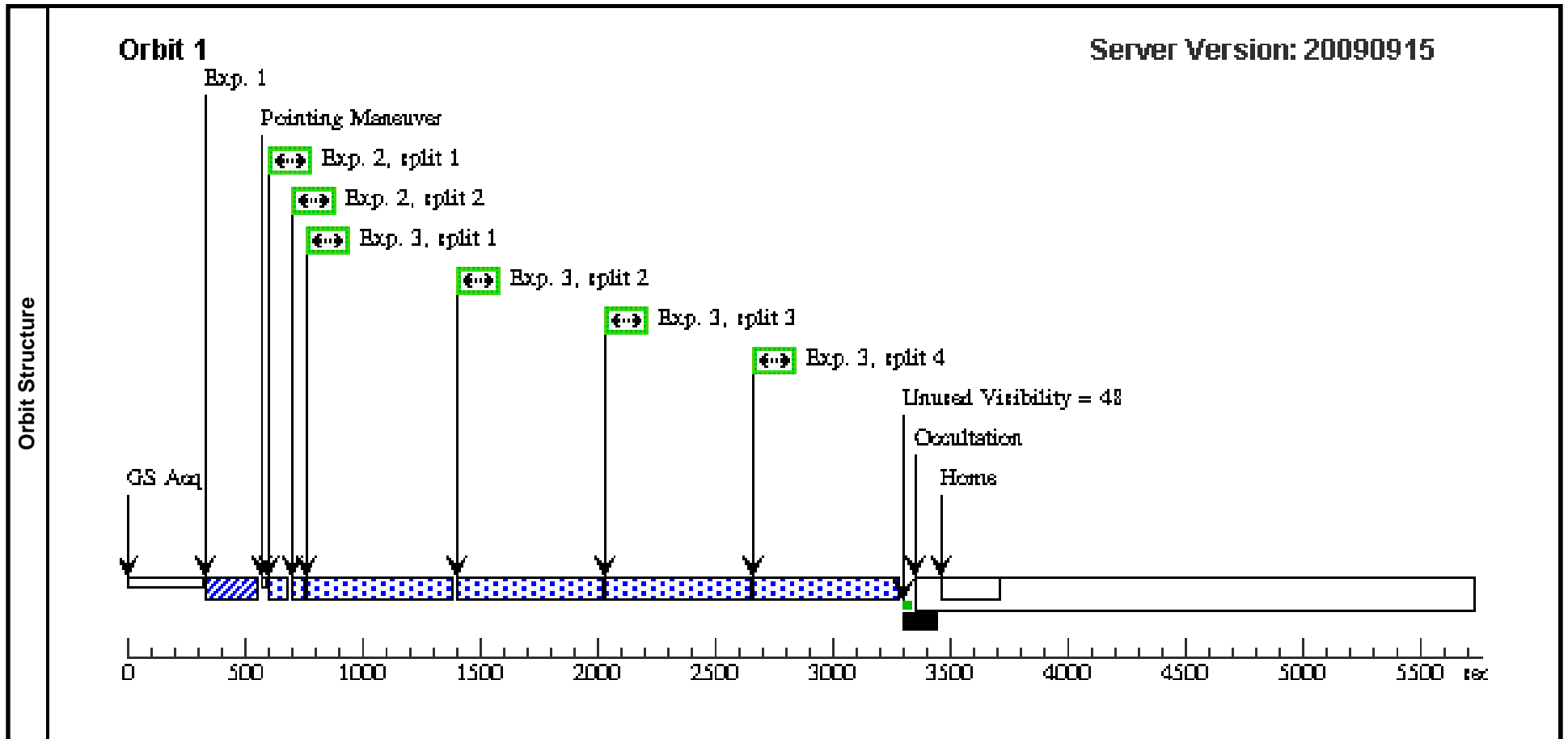




Proposal 10897 - Visit 11 - Coronagraphic imaging of the submillimeter debris disk of a 200Myr old M-dwarf

Wed Nov 25 02:02:09 GMT 2009

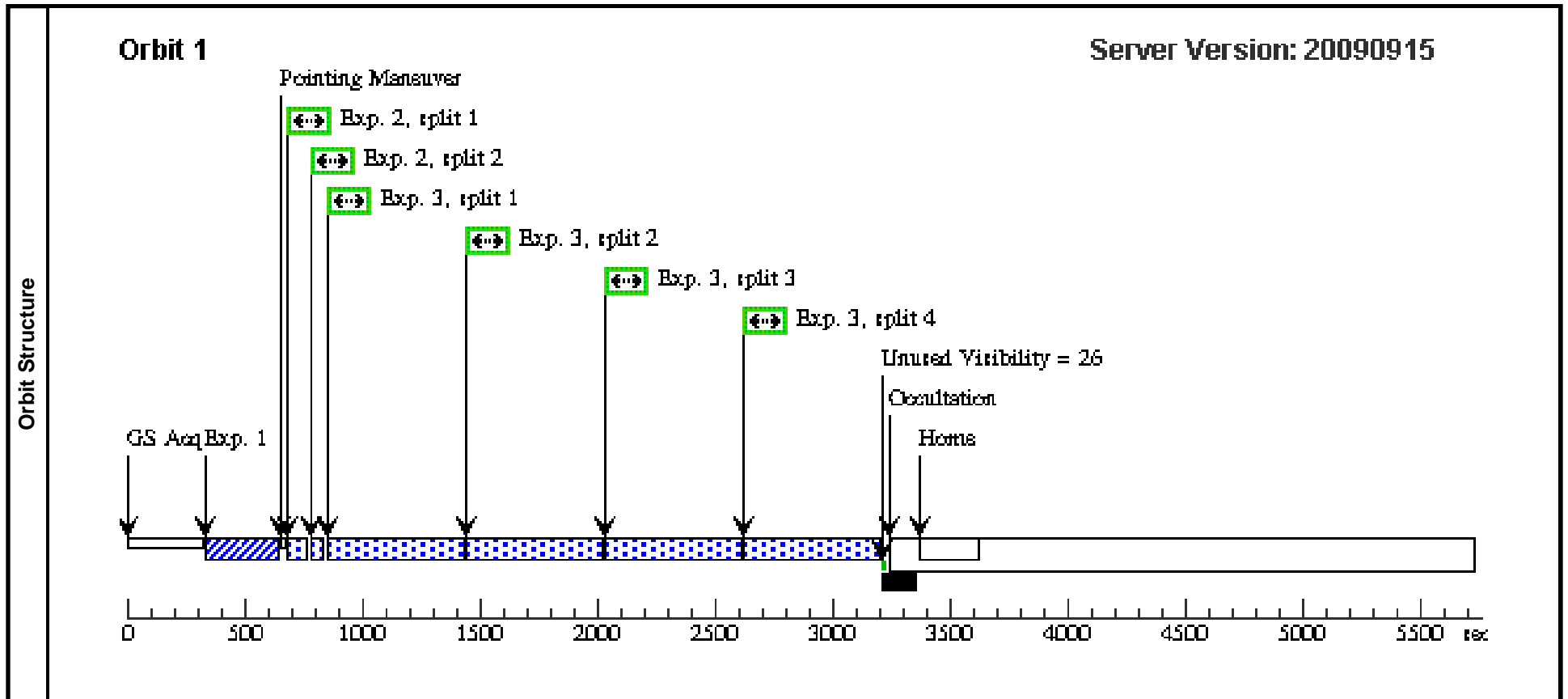
| | | | | | | | | | | | |
|--|---|---------------------------------------|---|--|-----------------------|-----------------------------|-----------------------|---|---|--------------|--|
| Visit | Proposal 10897, Visit 11, failed Diagnostic Status: Warning Scientific Instruments: STIS/CCD Special Requirements: GYRO MODE 3GOBAD | | | | | | | | | | |
| | (Visit 11) Warning (Form): Gyro Mode overrides default value of 2G. | | | | | | | | | | |
| Diagnostics | | | | | | | | | | | |
| | | | | | | | | | | | |
| Fixed Targets | # | Name | Target Coordinates | Targ. Coord. | Corrections | Fluxes | Miscellaneous | | | | |
| | (4) | GJ-842.2-COPY Alt Name1: HIP108467 | RA: 21 58 23.9700 (329.5998750d) Dec: +75 35 20.40 (75.58900d) Equinox: J2000 | Proper Motion RA: 0.0621s/yr Proper Motion Dec: 0.0226"/yr Parallax: 0.04795" Epoch of Position: 1991.25 Radial Velocity: -11 km/sec | | V=10.56+/-0.05 | Reference Frame: ICRS | | | | |
| <i>Comments: Coordinates (ICRS J2000; epoch 1991.25 from Hipparcos catalog). PM [RA = RA_PM/15cos Dec = ((0.23183 as/yr) / (15cos 75.58900273 deg)) = 0.0621; Dec = 22.60 mas/yr) taken from Hipparcos Main Catalog.</i> | | | | | | | | | | | |
| Exposures | # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time/[Actual Dur.] | Orbit | |
| | 1 | (4) GJ-842.2-COPY | STIS/CCD, ACQ, F28X50LP | MIRROR | ACQTYPE=POINT | GS ACQ SCENARI O BASE1B3 | | | 0.1 Secs [==>] | [1] | |
| | <i>Comments: HST STIS Acq ETC gives SNR of 309 for 0.01sec integration (assumes MOV, renormalized to V=10.56) --> this is below saturation (achieved w/ an integration of 0.43 seconds). Note that we're using the F 28x50LP long-pass filter.</i> | | | | | | | | | | |
| | 2 | (4) GJ-842.2-COPY | STIS/CCD, ACCUM, WEDGEA1.0 | MIRROR | CR-SPLIT=2; GAIN=4 | | | | 50 Secs [==>(Split 1)] [==>(Split 2)] | [1] | |
| 3 | (4) GJ-842.2-COPY | STIS/CCD, ACCUM, WEDGEA1.0 | MIRROR | CR-SPLIT=4; GAIN=4 | | | | 2356 Secs [==>(Split 1)] [==>(Split 2)] [==>(Split 3)] [==>(Split 4)] | [1] | | |



Proposal 10897 - Visit 12 - Coronagraphic imaging of the submillimeter debris disk of a 200Myr old M-dwarf

Wed Nov 25 02:02:09 GMT 2009

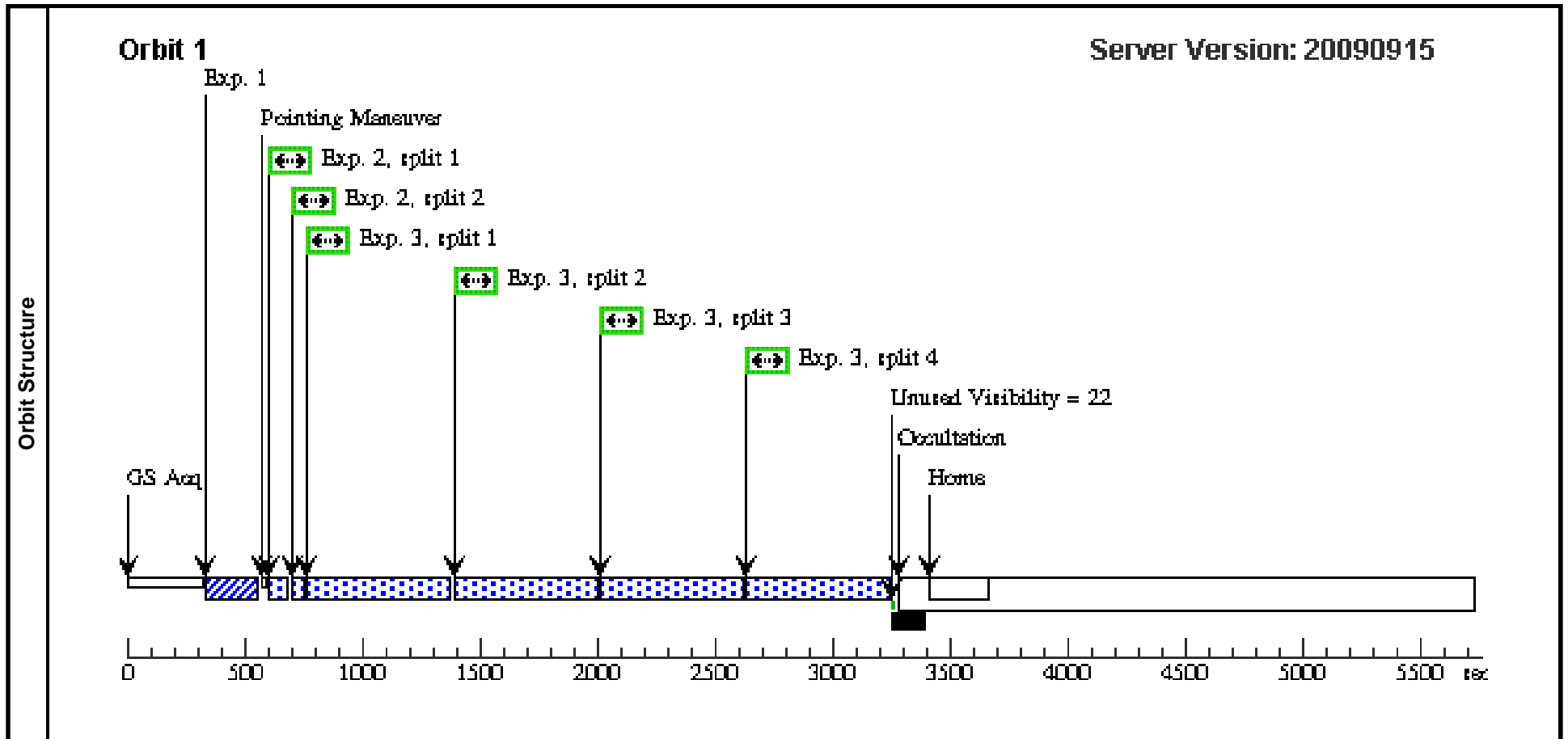
| | | | | | | | | | | | |
|--|--|------------------------------------|---|--|-----------------------|-----------------------|-----------------------------|---------------|---|---|-----|
| Visit | Proposal 10897, Visit 12, failed Diagnostic Status: Warning Scientific Instruments: STIS/CCD Special Requirements: GYRO MODE 3GOBAD; AFTER 11 BY 0.1 Orbits TO 1.1 Orbits | | | | | | | | | | |
| | (Visit 12) Warning (Form): Gyro Mode overrides default value of 2G. | | | | | | | | | | |
| Diagnostics | | | | | | | | | | | |
| | | | | | | | | | | | |
| Fixed Targets | # | Name | Target Coordinates | Targ. Coord. Corrections | Fluxes | Miscellaneous | | | | | |
| | (5) | GJ-809-COPY Alt Name1: HD199305 | RA: 20 53 19.7900 (313.3324583d) Dec: +62 09 22.60 (62.15628d) Equinox: J2000 | Proper Motion RA: 1.5E-4s/yr Proper Motion Dec: -0.77424"/yr Parallax: 0.14195" Epoch of Position: 1991.25 Radial Velocity: -15.9 km/sec | V=8.55+/-0.01 | Reference Frame: ICRS | | | | | |
| <i>Comments: Coordinates (ICRS J2000; epoch1991.25) from Hipparcos catalog. PM (RA = RA PM/15cosDec = 1.08 mas/yr / 15cos(62.15627228) = 1.5E-4; Dec = -774.24 mas/yr) from Hipparcos catalog.</i> | | | | | | | | | | | |
| Exposures | # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time[Actual Dur.] | Orbit | |
| | 1 | (5) GJ-809-COPY | (5) GJ-809-COPY | STIS/CCD, ACQ, F25ND3 | MIRROR | ACQTYPE=POINT | GS ACQ SCENARI O BASE1B3 | | 4.0 Secs [==>] | [1] | |
| | <i>Comments: HST STIS Acq ETC gives SNR of 281 for 4.0 sec integration (assumes MOV, renormalized to V=8.55) --> this is below saturation (achieved w/ an integration of 20.78 seconds). Note that the F25ND3 neutral density filter is used for GJ809.</i> | | | | | | | | | | |
| | 2 | (5) GJ-809-COPY | (5) GJ-809-COPY | STIS/CCD, ACCUM, WEDGEA1.0 | MIRROR | CR-SPLIT=2; GAIN=4 | | | | 50 Secs [==>(Split 1)] [==>(Split 2)] | [1] |
| 3 | (5) GJ-809-COPY | (5) GJ-809-COPY | STIS/CCD, ACCUM, WEDGEA1.0 | MIRROR | CR-SPLIT=4; GAIN=4 | | | | 2184 Secs [==>(Split 1)] [==>(Split 2)] [==>(Split 3)] [==>(Split 4)] | [1] | |



Proposal 10897 - Visit 13 - Coronagraphic imaging of the submillimeter debris disk of a 200Myr old M-dwarf

Wed Nov 25 02:02:10 GMT 2009

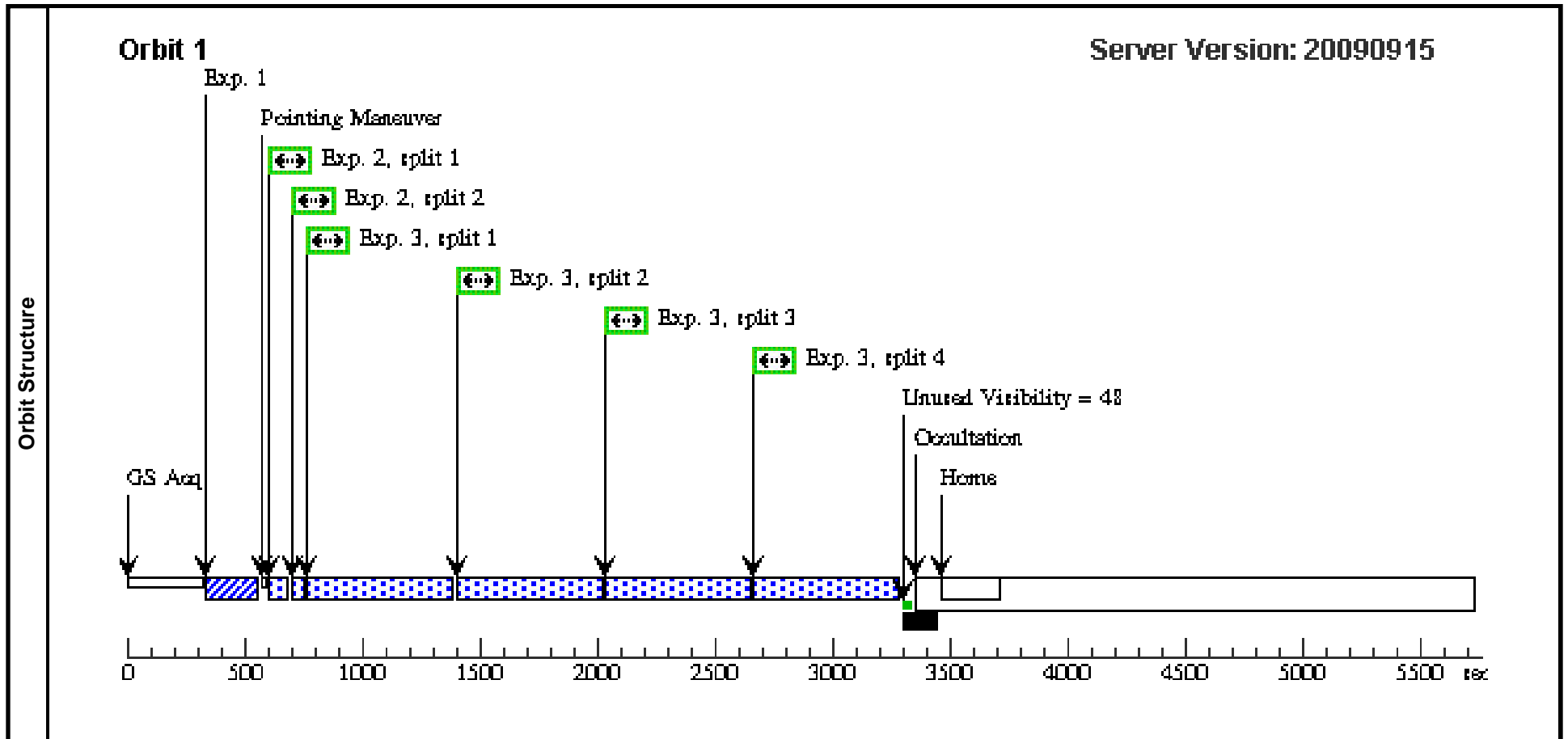
| | | | | | | | | | | | |
|---|---|-------------------------------|--|--|-----------------------|-----------------------|-----------------------------|---------------|---|---|-----|
| Visit | Proposal 10897, Visit 13, failed Diagnostic Status: Warning Scientific Instruments: STIS/CCD Special Requirements: GYRO MODE 3GOBAD; AFTER 12 BY 0.1 Orbits TO 1.1 Orbits | | | | | | | | | | |
| | (Visit 13) Warning (Form): Gyro Mode overrides default value of 2G. | | | | | | | | | | |
| Diagnostics | | | | | | | | | | | |
| | | | | | | | | | | | |
| Fixed Targets | # | Name | Target Coordinates | Targ. Coord. Corrections | Fluxes | Miscellaneous | | | | | |
| | (6) | G262-029 Alt Name1: GJ4170 | RA: 20 51 59.7400 (312.9989167d) Dec: +69 10 7.20 (69.16867d) Equinox: J2000 | Proper Motion RA: 0.04012s/yr Proper Motion Dec: 0.045"/yr Epoch of Position: 1995.584 | V=11.62+/-0.1 | Reference Frame: ICRS | | | | | |
| <i>Comments: Coordinates at epoch 1995.584 from the Guide Star Catalog version 2.3. Proper motion values from Lepine et al 2005, AJ, 129, 1483. RA proper motion determined by $0.214 \text{ "/yr} / 15 \cos(\text{dec}) = 0.214 / 15 \cos(69.168664) = 0.04012$</i> | | | | | | | | | | | |
| Exposures | # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time/[Actual Dur.] | Orbit | |
| | 1 | (6) G262-029 | | STIS/CCD, ACQ, F28X50LP | MIRROR | ACQTYPE=POINT | GS ACQ SCENARI O BASE1B3 | | 0.2 Secs [==>] | [1] | |
| | <i>Comments: HST STIS Acq ETC gives SNR of 270.75 for 0.2 sec integration (assumes MOV, renormalized to V=11.62) --> this is below saturation (achieved w/ an integration of 1.13 seconds). Note that we're using the F28x50LP long-pass filter.</i> | | | | | | | | | | |
| | 2 | (6) G262-029 | | STIS/CCD, ACCUM, WEDGEA1.0 | MIRROR | CR-SPLIT=2; GAIN=4 | | | | 50 Secs [==>(Split 1)] [==>(Split 2)] | [1] |
| 3 | (6) G262-029 | | STIS/CCD, ACCUM, WEDGEA1.0 | MIRROR | CR-SPLIT=4; GAIN=4 | | | | 2308 Secs [==>(Split 1)] [==>(Split 2)] [==>(Split 3)] [==>(Split 4)] | [1] | |



Proposal 10897 - Visit 21 - Coronagraphic imaging of the submillimeter debris disk of a 200Myr old M-dwarf

Wed Nov 25 02:02:10 GMT 2009

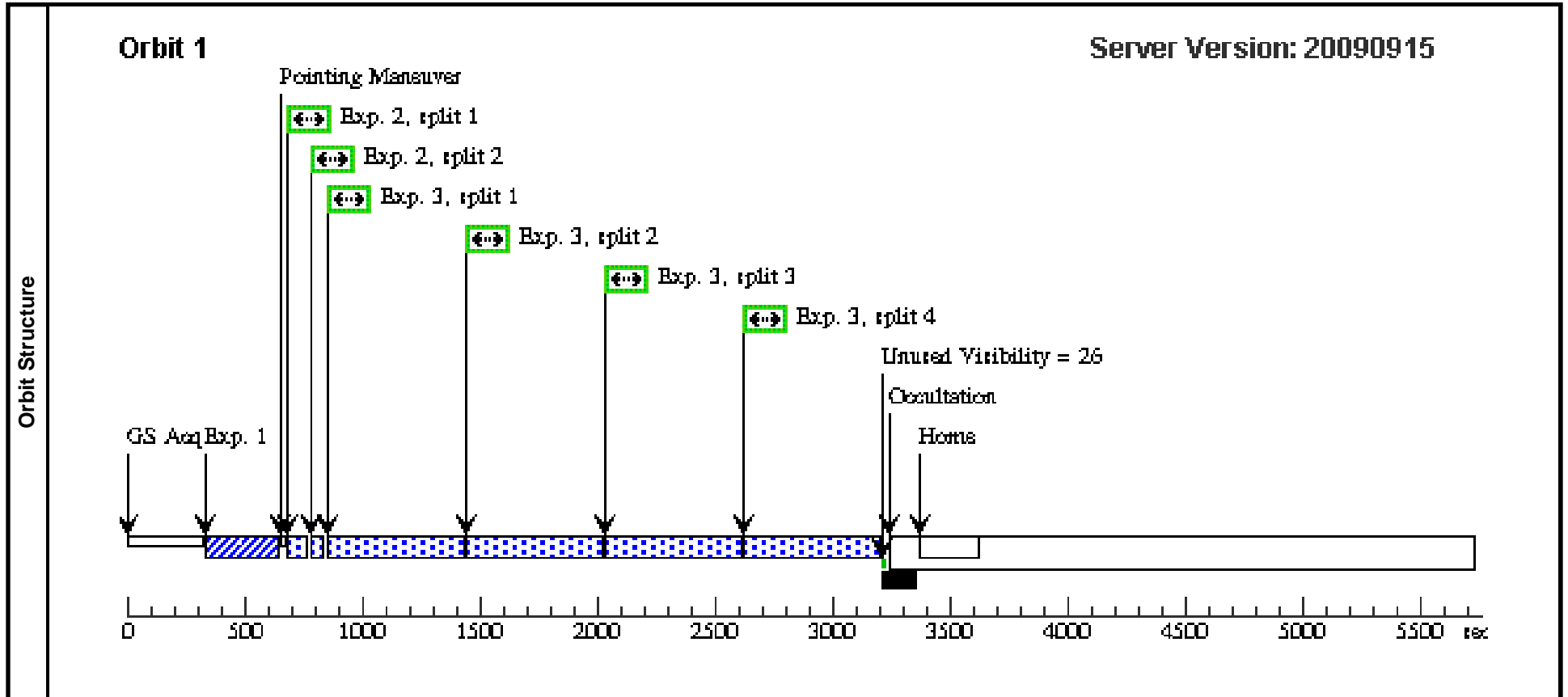
| | | | | | | | | | | | |
|--|---|---------------------------------------|---|--|-----------------------|-----------------------------|-----------------------|---|---|--------------|--|
| Visit | Proposal 10897, Visit 21, failed Diagnostic Status: Warning Scientific Instruments: STIS/CCD Special Requirements: GYRO MODE 3GOBAD; ORIENT 25D TO 35D FROM 11 | | | | | | | | | | |
| | (Visit 21) Warning (Form): Gyro Mode overrides default value of 2G. | | | | | | | | | | |
| Diagnosics | | | | | | | | | | | |
| | | | | | | | | | | | |
| Fixed Targets | # | Name | Target Coordinates | Targ. Coord. | Corrections | Fluxes | Miscellaneous | | | | |
| | (4) | GJ-842.2-COPY Alt Name1: HIP108467 | RA: 21 58 23.9700 (329.5998750d) Dec: +75 35 20.40 (75.58900d) Equinox: J2000 | Proper Motion RA: 0.0621s/yr Proper Motion Dec: 0.0226"/yr Parallax: 0.04795" Epoch of Position: 1991.25 Radial Velocity: -11 km/sec | | V=10.56+/-0.05 | Reference Frame: ICRS | | | | |
| <i>Comments: Coordinates (ICRS J2000; epoch 1991.25 from Hipparcos catalog). PM [RA = RA_PM/15cos Dec = ((0.23183 as/yr) / (15cos 75.58900273 deg)) = 0.0621; Dec = 22.60 mas/yr) taken from Hipparcos Main Catalog.</i> | | | | | | | | | | | |
| Exposures | # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time/[Actual Dur.] | Orbit | |
| | 1 | (4) GJ-842.2-COPY | STIS/CCD, ACQ, F28X50LP | MIRROR | ACQTYPE=POINT | GS ACQ SCENARI O BASE1B3 | | | 0.1 Secs [==>] | [1] | |
| | <i>Comments: HST STIS Acq ETC gives SNR of 309 for 0.01sec integration (assumes MOV, renormalized to V=10.56) --> this is below saturation (achieved w/ an integration of 0.43 seconds). Note that we're using the F 28x50LP long-pass filter.</i> | | | | | | | | | | |
| | 2 | (4) GJ-842.2-COPY | STIS/CCD, ACCUM, WEDGEA1.0 | MIRROR | CR-SPLIT=2; GAIN=4 | | | | 50 Secs [==>(Split 1)] [==>(Split 2)] | [1] | |
| 3 | (4) GJ-842.2-COPY | STIS/CCD, ACCUM, WEDGEA1.0 | MIRROR | CR-SPLIT=4; GAIN=4 | | | | 2356 Secs [==>(Split 1)] [==>(Split 2)] [==>(Split 3)] [==>(Split 4)] | [1] | | |



Proposal 10897 - Visit 22 - Coronagraphic imaging of the submillimeter debris disk of a 200Myr old M-dwarf

Wed Nov 25 02:02:11 GMT 2009

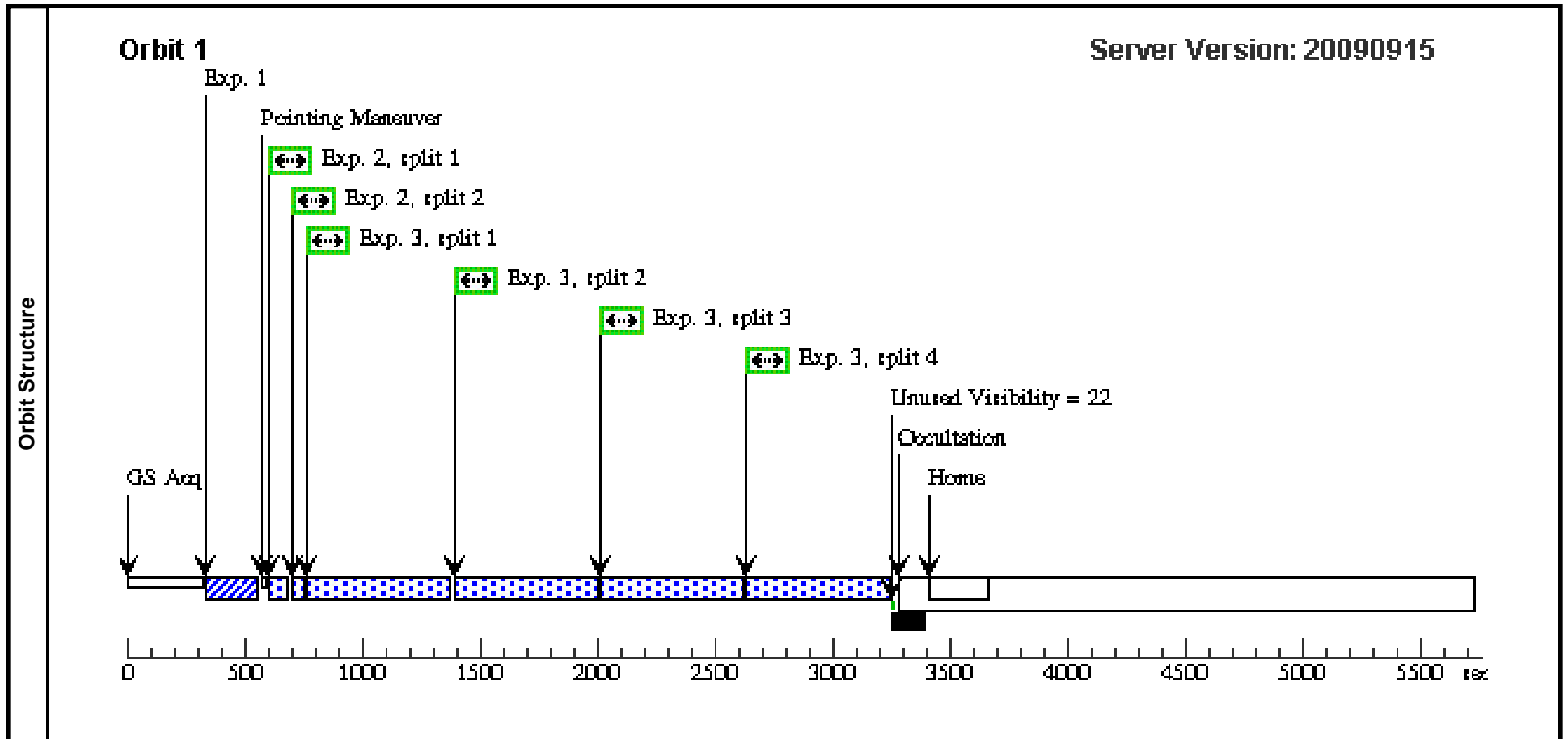
| | | | | | | | | | | | |
|--|--|------------------------------------|---|--|-----------------------|-----------------------------|----------------------|---------------|---|---|-----|
| Visit | Proposal 10897, Visit 22, completed Diagnostic Status: Warning Scientific Instruments: STIS/CCD Special Requirements: GYRO MODE 3GOBAD; AFTER 21 BY 0.1 Orbits TO 1.1 Orbits | | | | | | | | | | |
| | (Visit 22) Warning (Form): Gyro Mode overrides default value of 2G. | | | | | | | | | | |
| Diagnostics | | | | | | | | | | | |
| | | | | | | | | | | | |
| Fixed Targets | # | Name | Target Coordinates | Targ. Coord. Corrections | Fluxes | Miscellaneous | | | | | |
| | (5) | GJ-809-COPY Alt Name1: HD199305 | RA: 20 53 19.7900 (313.3324583d) Dec: +62 09 22.60 (62.15628d) Equinox: J2000 | Proper Motion RA: 1.5E-4s/yr Proper Motion Dec: -0.77424"/yr Parallax: 0.14195" Epoch of Position: 1991.25 Radial Velocity: -15.9 km/sec | V=8.55+/-0.01 | Reference Frame: ICRS | | | | | |
| <i>Comments: Coordinates (ICRS J2000; epoch1991.25) from Hipparcos catalog. PM (RA = RA PM/15cosDec = 1.08 mas/yr / 15cos(62.15627228) = 1.5E-4; Dec = -774.24 mas/yr) from Hipparcos catalog.</i> | | | | | | | | | | | |
| Exposures | # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time[Actual Dur.] | Orbit | |
| | 1 | (5) GJ-809-COPY | STIS/CCD, ACQ, F25ND3 | MIRROR | ACQTYPE=POINT | GS ACQ SCENARI O BASE1B3 | | | 4.0 Secs [==>] | [1] | |
| | <i>Comments: HST STIS Acq ETC gives SNR of 281 for 4.0 sec integration (assumes MOV, renormalized to V=8.55) --> this is below saturation (achieved w/ an integration of 20.78 seconds). Note that the F25ND3 neutral density filter is used for GJ809.</i> | | | | | | | | | | |
| | 2 | (5) GJ-809-COPY | STIS/CCD, ACCUM, WEDGEA1.0 | MIRROR | CR-SPLIT=2; GAIN=4 | | | | | 50 Secs [==>(Split 1)] [==>(Split 2)] | [1] |
| 3 | (5) GJ-809-COPY | STIS/CCD, ACCUM, WEDGEA1.0 | MIRROR | CR-SPLIT=4; GAIN=4 | | | | | 2184 Secs [==>(Split 1)] [==>(Split 2)] [==>(Split 3)] [==>(Split 4)] | [1] | |



Proposal 10897 - Visit 23 - Coronagraphic imaging of the submillimeter debris disk of a 200Myr old M-dwarf

Wed Nov 25 02:02:11 GMT 2009

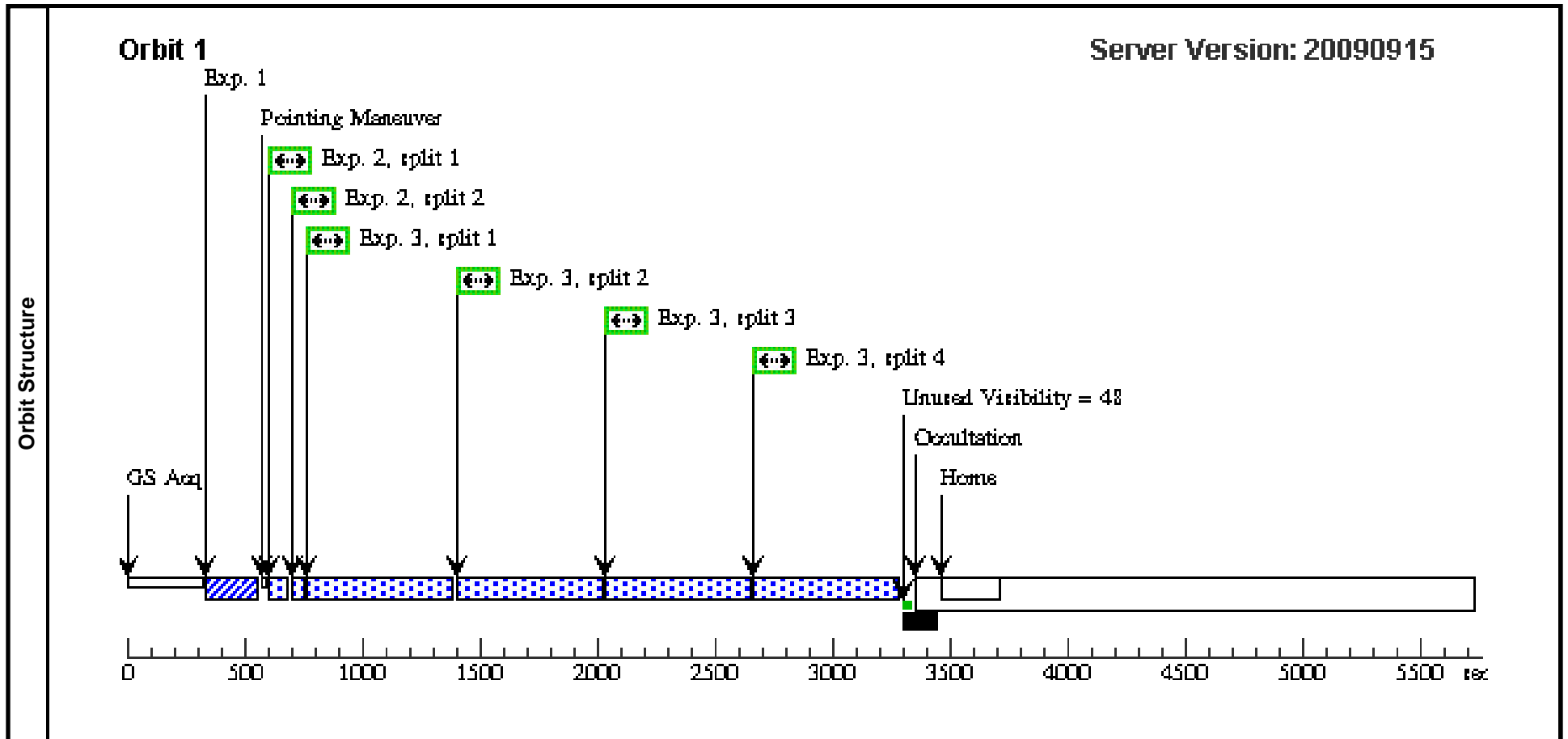
| | | | | | | | | | | | |
|---|---|-------------------------------|--|--|-----------------------|-----------------------|-----------------------------|---------------|---|---|-----|
| Visit | Proposal 10897, Visit 23, failed Diagnostic Status: Warning Scientific Instruments: STIS/CCD Special Requirements: GYRO MODE 3GOBAD; AFTER 22 BY 0.1 Orbits TO 1.1 Orbits | | | | | | | | | | |
| | (Visit 23) Warning (Form): Gyro Mode overrides default value of 2G. | | | | | | | | | | |
| Diagnostics | | | | | | | | | | | |
| | | | | | | | | | | | |
| Fixed Targets | # | Name | Target Coordinates | Targ. Coord. Corrections | Fluxes | Miscellaneous | | | | | |
| | (6) | G262-029 Alt Name1: GJ4170 | RA: 20 51 59.7400 (312.9989167d) Dec: +69 10 7.20 (69.16867d) Equinox: J2000 | Proper Motion RA: 0.04012s/yr Proper Motion Dec: 0.045"/yr Epoch of Position: 1995.584 | V=11.62+/-0.1 | Reference Frame: ICRS | | | | | |
| <i>Comments: Coordinates at epoch 1995.584 from the Guide Star Catalog version 2.3. Proper motion values from Lepine et al 2005, AJ, 129, 1483. RA proper motion determined by $0.214 \text{ "/yr} / 15 \cos(\text{dec}) = 0.214 / 15 \cos(69.168664) = 0.04012$</i> | | | | | | | | | | | |
| Exposures | # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time/[Actual Dur.] | Orbit | |
| | 1 | | (6) G262-029 | STIS/CCD, ACQ, F28X50LP | MIRROR | ACQTYPE=POINT | GS ACQ SCENARI O BASE1B3 | | 0.2 Secs [==>] | [1] | |
| | <i>Comments: HST STIS Acq ETC gives SNR of 270.75 for 0.2 sec integration (assumes MOV, renormalized to V=11.62) --> this is below saturation (achieved w/ an integration of 1.13 seconds). Note that we're using the F28x50LP long-pass filter.</i> | | | | | | | | | | |
| | 2 | | (6) G262-029 | STIS/CCD, ACCUM, WEDGEA1.0 | MIRROR | CR-SPLIT=2; GAIN=4 | | | | 50 Secs [==>(Split 1)] [==>(Split 2)] | [1] |
| 3 | | (6) G262-029 | STIS/CCD, ACCUM, WEDGEA1.0 | MIRROR | CR-SPLIT=4; GAIN=4 | | | | 2308 Secs [==>(Split 1)] [==>(Split 2)] [==>(Split 3)] [==>(Split 4)] | [1] | |



Proposal 10897 - Visit 31 - Coronagraphic imaging of the submillimeter debris disk of a 200Myr old M-dwarf

Wed Nov 25 02:02:11 GMT 2009

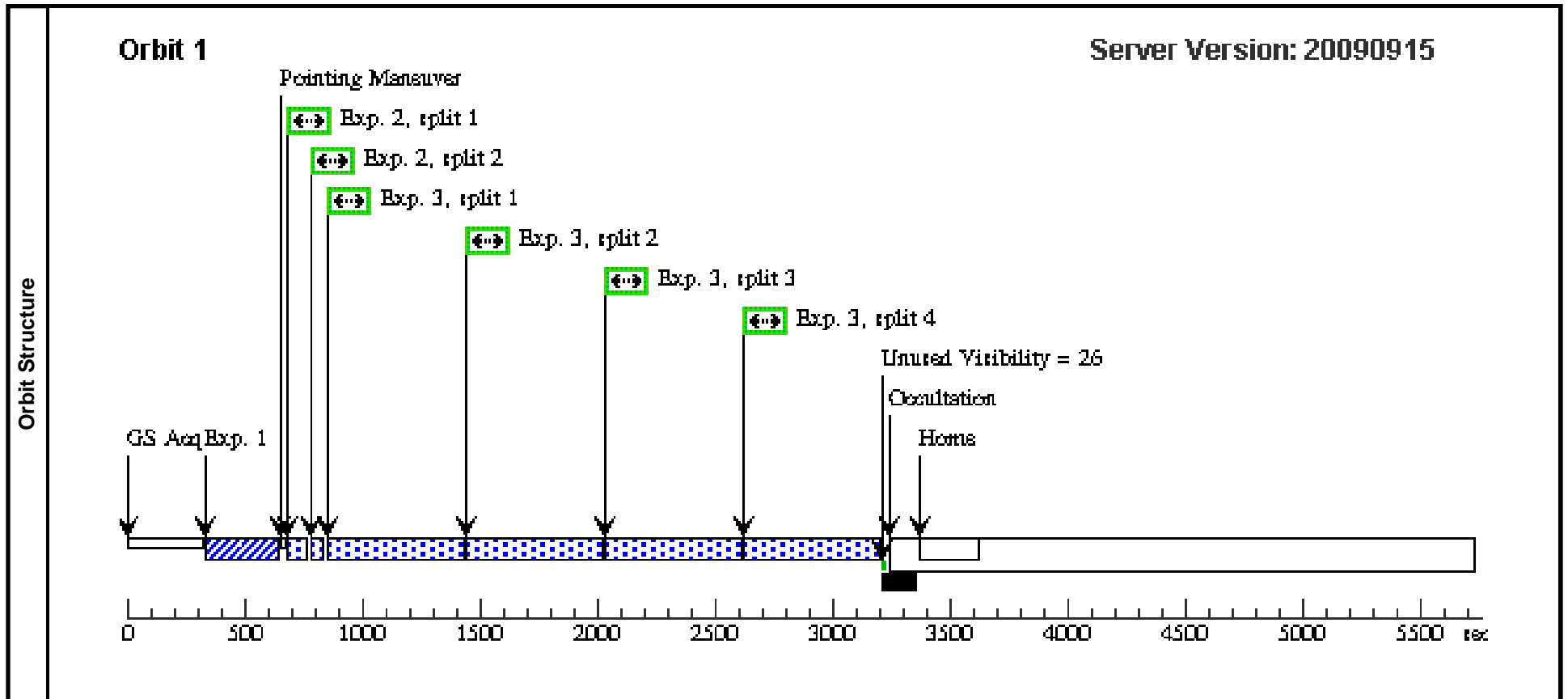
| | | | | | | | | | | | |
|--|---|---------------------------------------|---|--|-----------------------|-----------------------|-----------------------------|---------------|---|---|-----|
| Visit | Proposal 10897, Visit 31, completed Diagnostic Status: Warning Scientific Instruments: STIS/CCD Special Requirements: GYRO MODE 3GOBAD; ORIENT -35D TO -25D FROM 11 | | | | | | | | | | |
| | (Visit 31) Warning (Form): Gyro Mode overrides default value of 2G. | | | | | | | | | | |
| Diagnostics | | | | | | | | | | | |
| | | | | | | | | | | | |
| Fixed Targets | # | Name | Target Coordinates | Targ. Coord. Corrections | Fluxes | Miscellaneous | | | | | |
| | (4) | GJ-842.2-COPY Alt Name1: HIP108467 | RA: 21 58 23.9700 (329.5998750d) Dec: +75 35 20.40 (75.58900d) Equinox: J2000 | Proper Motion RA: 0.0621s/yr Proper Motion Dec: 0.0226"/yr Parallax: 0.04795" Epoch of Position: 1991.25 Radial Velocity: -11 km/sec | V=10.56+/-0.05 | Reference Frame: ICRS | | | | | |
| <i>Comments: Coordinates (ICRS J2000; epoch 1991.25 from Hipparcos catalog). PM [RA = RA_PM/15cos Dec = ((0.23183 as/yr) / (15cos 75.58900273 deg)) = 0.0621; Dec = 22.60 mas/yr] taken from Hipparcos Main Catalog.</i> | | | | | | | | | | | |
| Exposures | # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time/[Actual Dur.] | Orbit | |
| | 1 | | (4) GJ-842.2-COPY | STIS/CCD, ACQ, F28X50LP | MIRROR | ACQTYPE=POINT | GS ACQ SCENARI O BASE1B3 | | 0.1 Secs [==>] | [1] | |
| | <i>Comments: HST STIS Acq ETC gives SNR of 309 for 0.01sec integration (assumes MOV, renormalized to V=10.56) --> this is below saturation (achieved w/ an integration of 0.43 seconds). Note that we're using the F 28x50LP long-pass filter.</i> | | | | | | | | | | |
| | 2 | | (4) GJ-842.2-COPY | STIS/CCD, ACCUM, WEDGEA1.0 | MIRROR | CR-SPLIT=2; GAIN=4 | | | | 50 Secs [==>(Split 1)] [==>(Split 2)] | [1] |
| 3 | | (4) GJ-842.2-COPY | STIS/CCD, ACCUM, WEDGEA1.0 | MIRROR | CR-SPLIT=4; GAIN=4 | | | | 2356 Secs [==>(Split 1)] [==>(Split 2)] [==>(Split 3)] [==>(Split 4)] | [1] | |



Proposal 10897 - Visit 32 - Coronagraphic imaging of the submillimeter debris disk of a 200Myr old M-dwarf

Wed Nov 25 02:02:12 GMT 2009

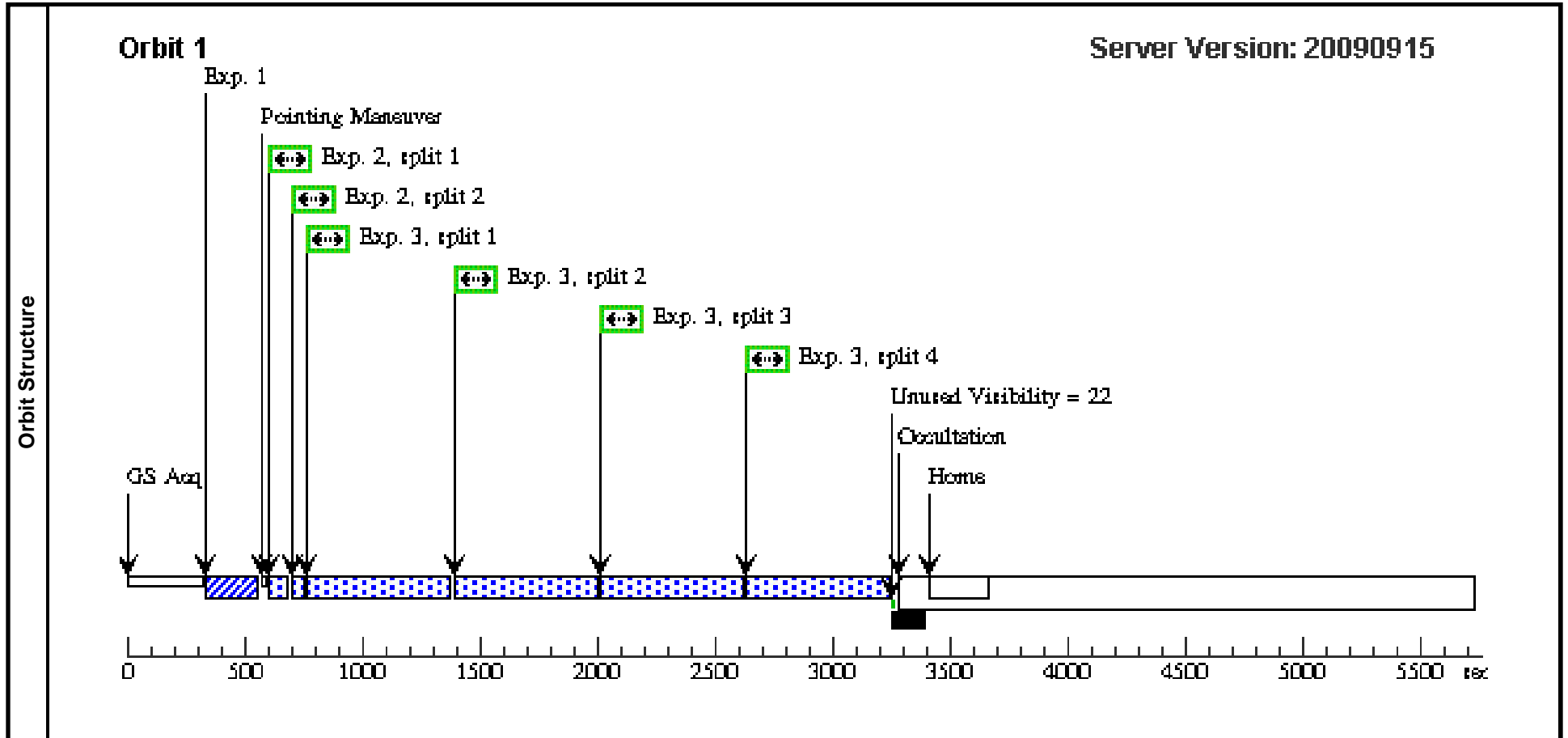
| | | | | | | | | | | | |
|--|--|------------------------------------|---|--|-----------------------|-----------------------|-----------------------------|---------------|---|---|-----|
| Visit | Proposal 10897, Visit 32, completed Diagnostic Status: Warning Scientific Instruments: STIS/CCD Special Requirements: GYRO MODE 3GOBAD; AFTER 31 BY 0.1 Orbits TO 1.1 Orbits | | | | | | | | | | |
| | (Visit 32) Warning (Form): Gyro Mode overrides default value of 2G. | | | | | | | | | | |
| Diagnostics | | | | | | | | | | | |
| | | | | | | | | | | | |
| Fixed Targets | # | Name | Target Coordinates | Targ. Coord. Corrections | Fluxes | Miscellaneous | | | | | |
| | (5) | GJ-809-COPY Alt Name1: HD199305 | RA: 20 53 19.7900 (313.3324583d) Dec: +62 09 22.60 (62.15628d) Equinox: J2000 | Proper Motion RA: 1.5E-4s/yr Proper Motion Dec: -0.77424"/yr Parallax: 0.14195" Epoch of Position: 1991.25 Radial Velocity: -15.9 km/sec | V=8.55+/-0.01 | Reference Frame: ICRS | | | | | |
| <i>Comments: Coordinates (ICRS J2000; epoch1991.25) from Hipparcos catalog. PM (RA = RA PM/15cosDec = 1.08 mas/yr / 15cos(62.15627228) = 1.5E-4; Dec = -774.24 mas/yr) from Hipparcos catalog.</i> | | | | | | | | | | | |
| Exposures | # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time[Actual Dur.] | Orbit | |
| | 1 | | (5) GJ-809-COPY | STIS/CCD, ACQ, F25ND3 | MIRROR | ACQTYPE=POINT | GS ACQ SCENARI O BASE1B3 | | 4.0 Secs [==>] | [1] | |
| | <i>Comments: HST STIS Acq ETC gives SNR of 281 for 4.0 sec integration (assumes MOV, renormalized to V=8.55) --> this is below saturation (achieved w/ an integration of 20.78 seconds). Note that the F25ND3 neutral density filter is used for GJ809.</i> | | | | | | | | | | |
| | 2 | | (5) GJ-809-COPY | STIS/CCD, ACCUM, WEDGEA1.0 | MIRROR | CR-SPLIT=2; GAIN=4 | | | | 50 Secs [==>(Split 1)] [==>(Split 2)] | [1] |
| 3 | | (5) GJ-809-COPY | STIS/CCD, ACCUM, WEDGEA1.0 | MIRROR | CR-SPLIT=4; GAIN=4 | | | | 2184 Secs [==>(Split 1)] [==>(Split 2)] [==>(Split 3)] [==>(Split 4)] | [1] | |



Proposal 10897 - Visit 33 - Coronagraphic imaging of the submillimeter debris disk of a 200Myr old M-dwarf

Wed Nov 25 02:02:12 GMT 2009

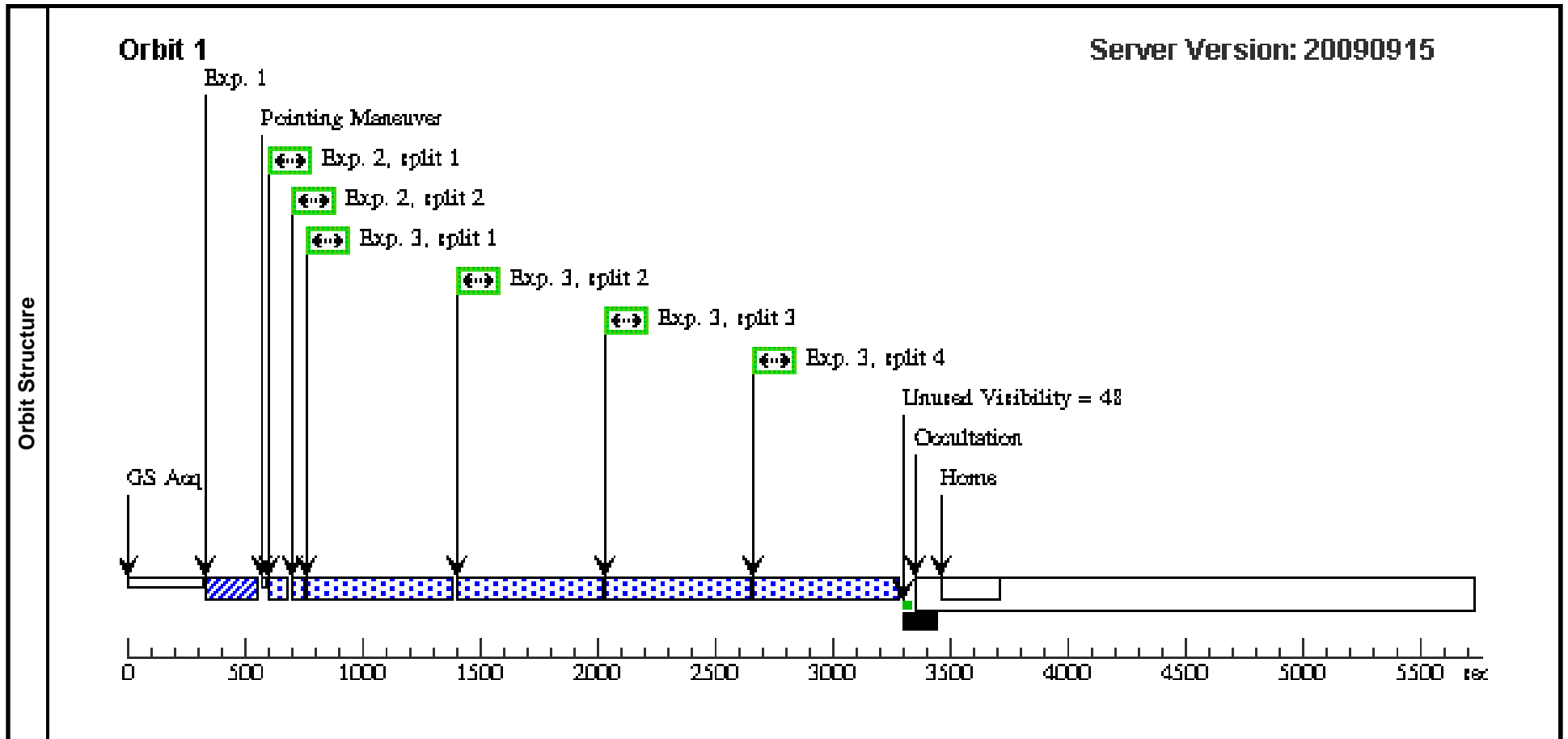
| | | | | | | | | | | | |
|---|---|-------------------------------|--|--|-----------------------|-----------------------|-----------------------------|---------------|---|---|-----|
| Visit | Proposal 10897, Visit 33, completed Diagnostic Status: Warning Scientific Instruments: STIS/CCD Special Requirements: GYRO MODE 3GOBAD; AFTER 32 BY 0.1 Orbits TO 1.1 Orbits | | | | | | | | | | |
| | (Visit 33) Warning (Form): Gyro Mode overrides default value of 2G. | | | | | | | | | | |
| Diagnostics | | | | | | | | | | | |
| | | | | | | | | | | | |
| Fixed Targets | # | Name | Target Coordinates | Targ. Coord. Corrections | Fluxes | Miscellaneous | | | | | |
| | (6) | G262-029 Alt Name1: GJ4170 | RA: 20 51 59.7400 (312.9989167d) Dec: +69 10 7.20 (69.16867d) Equinox: J2000 | Proper Motion RA: 0.04012s/yr Proper Motion Dec: 0.045"/yr Epoch of Position: 1995.584 | V=11.62+/-0.1 | Reference Frame: ICRS | | | | | |
| <i>Comments: Coordinates at epoch 1995.584 from the Guide Star Catalog version 2.3. Proper motion values from Lepine et al 2005, AJ, 129, 1483. RA proper motion determined by $0.214 \text{ "/yr} / 15 \cos(\text{dec}) = 0.214 / 15 \cos(69.168664) = 0.04012$</i> | | | | | | | | | | | |
| Exposures | # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time/[Actual Dur.] | Orbit | |
| | 1 | | (6) G262-029 | STIS/CCD, ACQ, F28X50LP | MIRROR | ACQTYPE=POINT | GS ACQ SCENARI O BASE1B3 | | 0.2 Secs [==>] | [1] | |
| | <i>Comments: HST STIS Acq ETC gives SNR of 270.75 for 0.2 sec integration (assumes MOV, renormalized to V=11.62) --> this is below saturation (achieved w/ an integration of 1.13 seconds). Note that we're using the F28x50LP long-pass filter.</i> | | | | | | | | | | |
| | 2 | | (6) G262-029 | STIS/CCD, ACCUM, WEDGEA1.0 | MIRROR | CR-SPLIT=2; GAIN=4 | | | | 50 Secs [==>(Split 1)] [==>(Split 2)] | [1] |
| 3 | | (6) G262-029 | STIS/CCD, ACCUM, WEDGEA1.0 | MIRROR | CR-SPLIT=4; GAIN=4 | | | | 2308 Secs [==>(Split 1)] [==>(Split 2)] [==>(Split 3)] [==>(Split 4)] | [1] | |



Proposal 10897 - Visit 61 - Coronagraphic imaging of the submillimeter debris disk of a 200Myr old M-dwarf

Wed Nov 25 02:02:12 GMT 2009

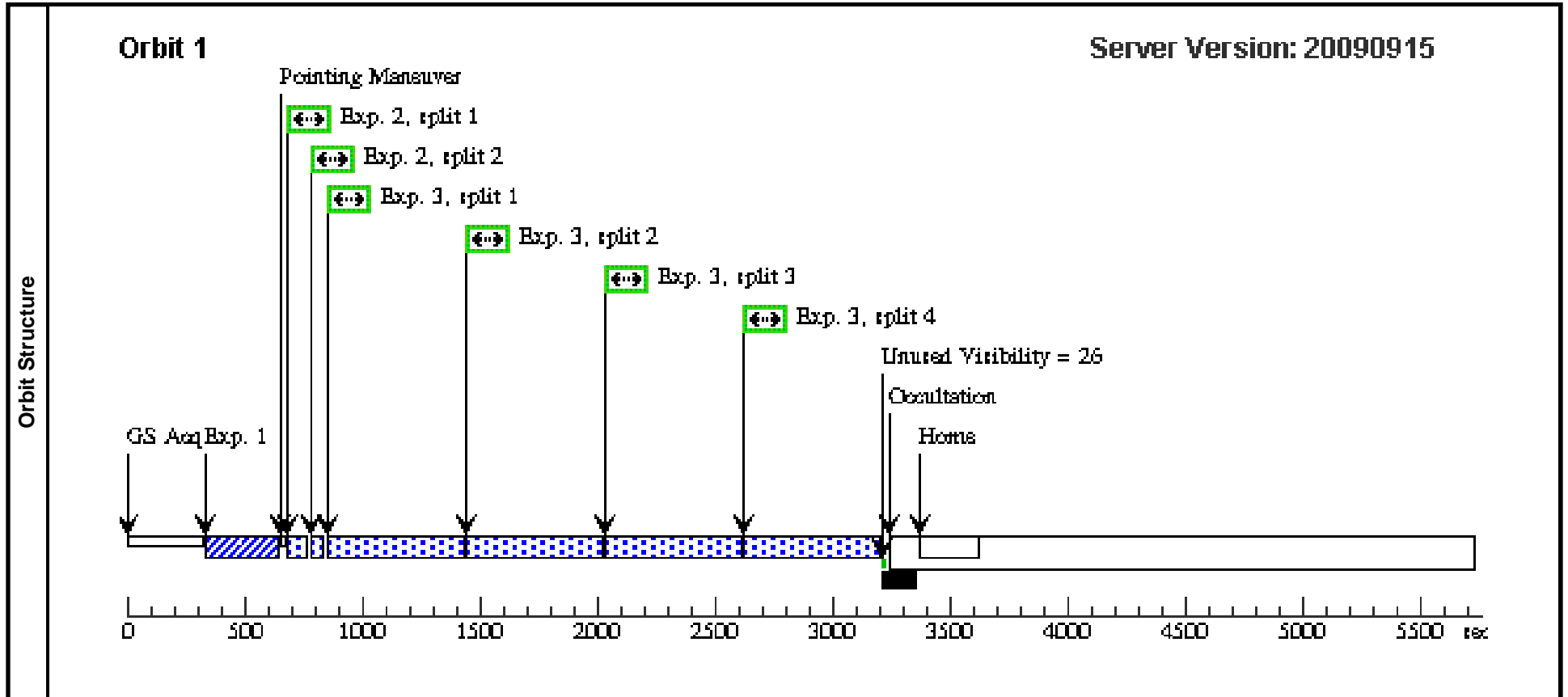
| | | | | | | | | | | | |
|--|--|---------------------------------------|---|--|-----------------------|-----------------------------|-----------------------|---|---|--------------|--|
| Visit | Proposal 10897, Visit 61 Diagnostic Status: Warning Scientific Instruments: STIS/CCD Special Requirements: GYRO MODE 3GOBAD | | | | | | | | | | |
| | (Visit 61) Warning (Form): Gyro Mode overrides default value of 2G. | | | | | | | | | | |
| Diagnostics | | | | | | | | | | | |
| | | | | | | | | | | | |
| Fixed Targets | # | Name | Target Coordinates | Targ. Coord. | Corrections | Fluxes | Miscellaneous | | | | |
| | (4) | GJ-842.2-COPY Alt Name1: HIP108467 | RA: 21 58 23.9700 (329.5998750d) Dec: +75 35 20.40 (75.58900d) Equinox: J2000 | Proper Motion RA: 0.0621s/yr Proper Motion Dec: 0.0226"/yr Parallax: 0.04795" Epoch of Position: 1991.25 Radial Velocity: -11 km/sec | | V=10.56+/-0.05 | Reference Frame: ICRS | | | | |
| <i>Comments: Coordinates (ICRS J2000; epoch 1991.25 from Hipparcos catalog). PM [RA = RA_PM/15cos Dec = ((0.23183 as/yr) / (15cos 75.58900273 deg)) = 0.0621; Dec = 22.60 mas/yr) taken from Hipparcos Main Catalog.</i> | | | | | | | | | | | |
| Exposures | # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time/[Actual Dur.] | Orbit | |
| | 1 | (4) GJ-842.2-COPY | STIS/CCD, ACQ, F28X50LP | MIRROR | ACQTYPE=POINT | GS ACQ SCENARI O BASE1B3 | | | 0.1 Secs [==>] | [1] | |
| | <i>Comments: HST STIS Acq ETC gives SNR of 309 for 0.01sec integration (assumes MOV, renormalized to V=10.56) --> this is below saturation (achieved w/ an integration of 0.43 seconds). Note that we're using the F28x50LP long-pass filter.</i> | | | | | | | | | | |
| | 2 | (4) GJ-842.2-COPY | STIS/CCD, ACCUM, WEDGEA1.0 | MIRROR | CR-SPLIT=2; GAIN=4 | | | | 50 Secs [==>(Split 1)] [==>(Split 2)] | [1] | |
| 3 | (4) GJ-842.2-COPY | STIS/CCD, ACCUM, WEDGEA1.0 | MIRROR | CR-SPLIT=4; GAIN=4 | | | | 2356 Secs [==>(Split 1)] [==>(Split 2)] [==>(Split 3)] [==>(Split 4)] | [1] | | |



Proposal 10897 - Visit 62 - Coronagraphic imaging of the submillimeter debris disk of a 200Myr old M-dwarf

Wed Nov 25 02:02:13 GMT 2009

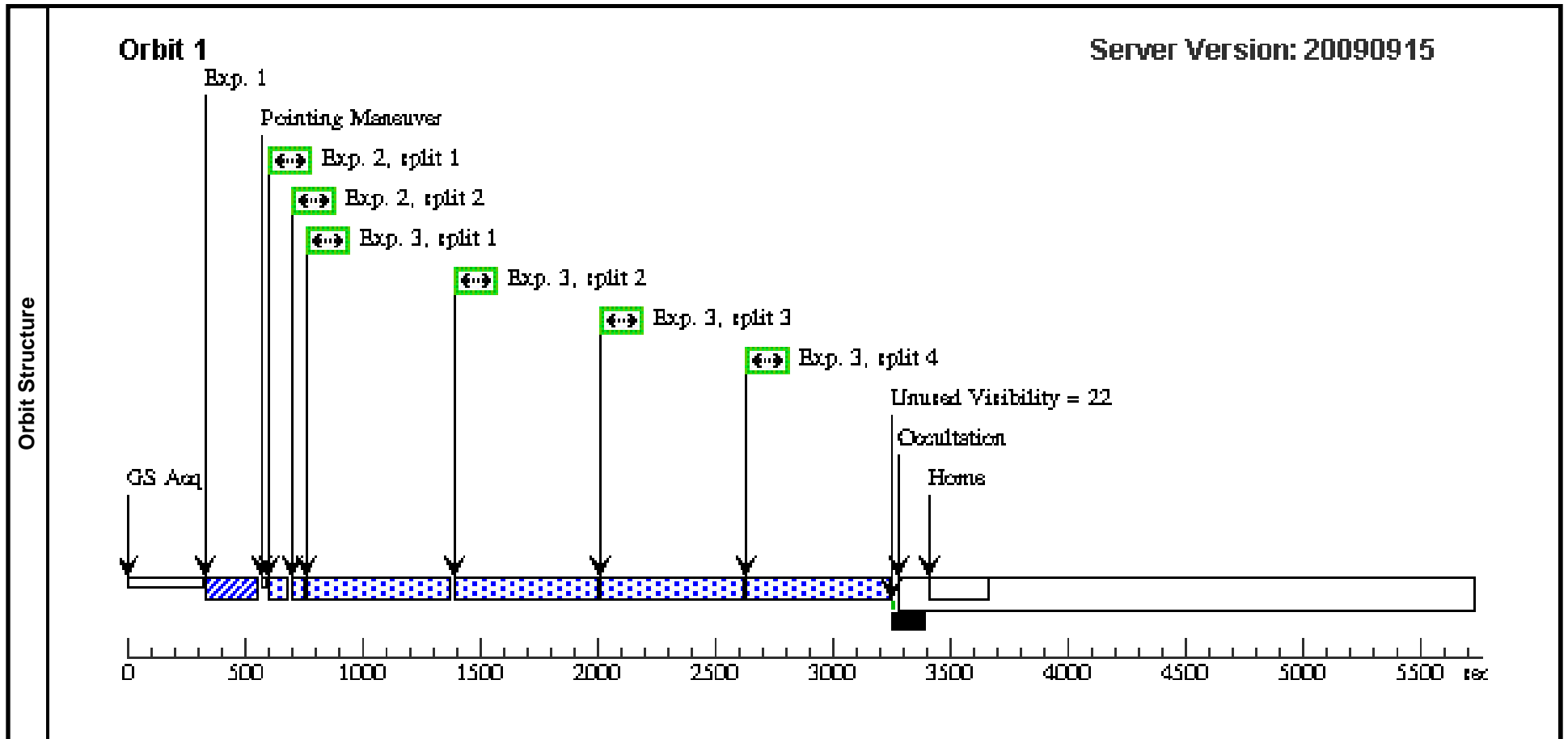
| | | | | | | | | | | | |
|--|--|------------------------------------|---|--|-----------------------|-----------------------------|----------------------|---------------|---|---|-----|
| Visit | Proposal 10897, Visit 62 Diagnostic Status: Warning Scientific Instruments: STIS/CCD Special Requirements: GYRO MODE 3GOBAD; AFTER 61 BY 0.1 Orbits TO 1.1 Orbits | | | | | | | | | | |
| | (Visit 62) Warning (Form): Gyro Mode overrides default value of 2G. | | | | | | | | | | |
| Diagnostics | | | | | | | | | | | |
| | | | | | | | | | | | |
| Fixed Targets | # | Name | Target Coordinates | Targ. Coord. Corrections | Fluxes | Miscellaneous | | | | | |
| | (5) | GJ-809-COPY Alt Name1: HD199305 | RA: 20 53 19.7900 (313.3324583d) Dec: +62 09 22.60 (62.15628d) Equinox: J2000 | Proper Motion RA: 1.5E-4s/yr Proper Motion Dec: -0.77424"/yr Parallax: 0.14195" Epoch of Position: 1991.25 Radial Velocity: -15.9 km/sec | V=8.55+/-0.01 | Reference Frame: ICRS | | | | | |
| <i>Comments: Coordinates (ICRS J2000; epoch1991.25) from Hipparcos catalog. PM (RA = RA PM/15cosDec = 1.08 mas/yr / 15cos(62.15627228) = 1.5E-4; Dec = -774.24 mas/yr) from Hipparcos catalog.</i> | | | | | | | | | | | |
| Exposures | # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time[Actual Dur.] | Orbit | |
| | 1 | (5) GJ-809-COPY | STIS/CCD, ACQ, F25ND3 | MIRROR | ACQTYPE=POINT | GS ACQ SCENARI O BASE1B3 | | | 4.0 Secs [==>] | [1] | |
| | <i>Comments: HST STIS Acq ETC gives SNR of 281 for 4.0 sec integration (assumes MOV, renormalized to V=8.55) --> this is below saturation (achieved w/ an integration of 20.78 seconds). Note that the F25ND3 neutral density filter is used for GJ809.</i> | | | | | | | | | | |
| | 2 | (5) GJ-809-COPY | STIS/CCD, ACCUM, WEDGEA1.0 | MIRROR | CR-SPLIT=2; GAIN=4 | | | | | 50 Secs [==>(Split 1)] [==>(Split 2)] | [1] |
| 3 | (5) GJ-809-COPY | STIS/CCD, ACCUM, WEDGEA1.0 | MIRROR | CR-SPLIT=4; GAIN=4 | | | | | 2184 Secs [==>(Split 1)] [==>(Split 2)] [==>(Split 3)] [==>(Split 4)] | [1] | |



Proposal 10897 - Visit 63 - Coronagraphic imaging of the submillimeter debris disk of a 200Myr old M-dwarf

Wed Nov 25 02:02:13 GMT 2009

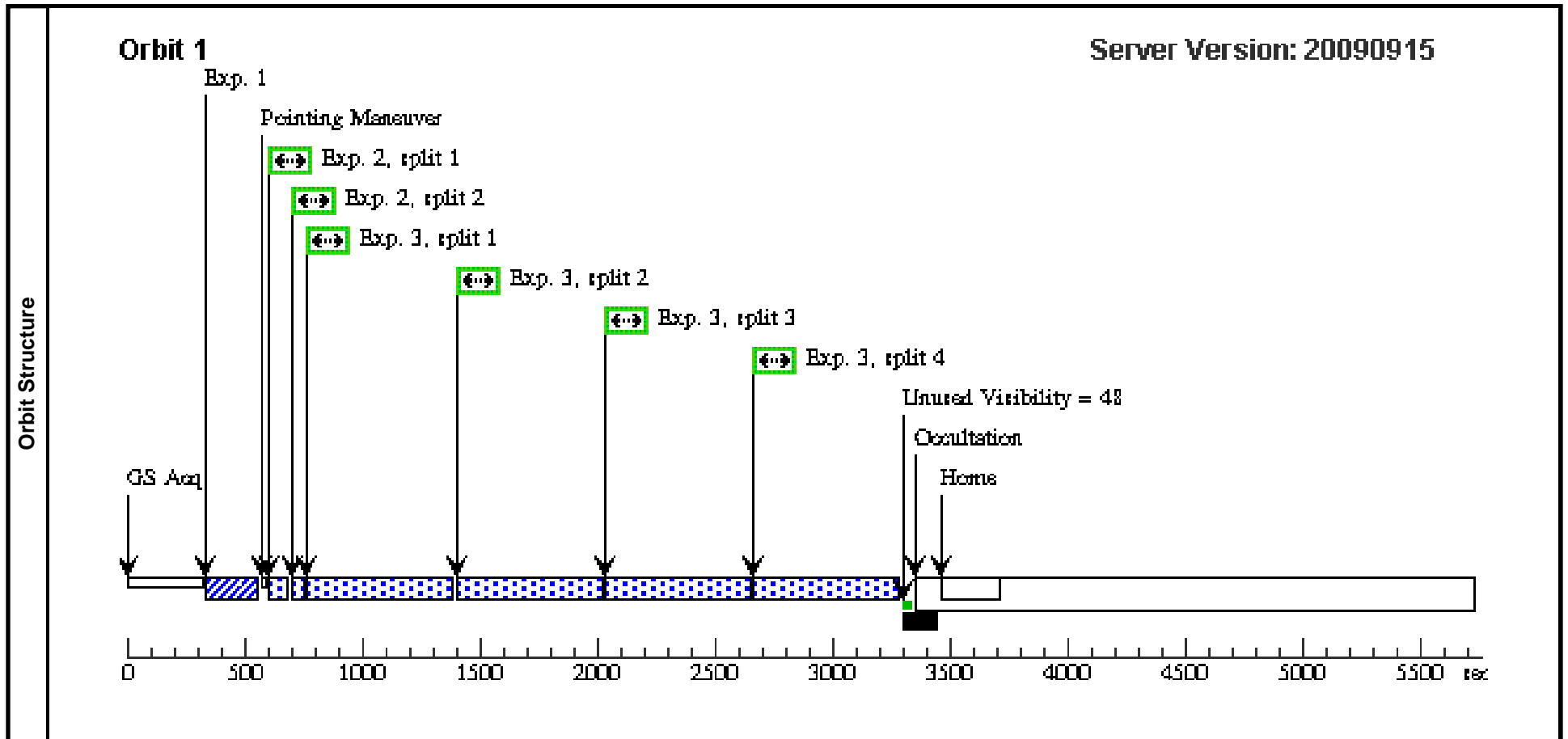
| | | | | | | | | | | | |
|---|---|-------------------------------|--|--|-----------------------|-----------------------|-----------------------------|---------------|---|---|-----|
| Visit | Proposal 10897, Visit 63 Diagnostic Status: Warning Scientific Instruments: STIS/CCD Special Requirements: GYRO MODE 3GOBAD; AFTER 62 BY 0.1 Orbits TO 1.1 Orbits | | | | | | | | | | |
| | (Visit 63) Warning (Form): Gyro Mode overrides default value of 2G. | | | | | | | | | | |
| Diagnostics | | | | | | | | | | | |
| | | | | | | | | | | | |
| Fixed Targets | # | Name | Target Coordinates | Targ. Coord. Corrections | Fluxes | Miscellaneous | | | | | |
| | (6) | G262-029 Alt Name1: GJ4170 | RA: 20 51 59.7400 (312.9989167d) Dec: +69 10 7.20 (69.16867d) Equinox: J2000 | Proper Motion RA: 0.04012s/yr Proper Motion Dec: 0.045"/yr Epoch of Position: 1995.584 | V=11.62+/-0.1 | Reference Frame: ICRS | | | | | |
| <i>Comments: Coordinates at epoch 1995.584 from the Guide Star Catalog version 2.3. Proper motion values from Lepine et al 2005, AJ, 129, 1483. RA proper motion determined by $0.214 \text{ "/yr} / 15 \cos(\text{dec}) = 0.214 / 15 \cos(69.168664) = 0.04012$</i> | | | | | | | | | | | |
| Exposures | # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time/[Actual Dur.] | Orbit | |
| | 1 | (6) G262-029 | (6) G262-029 | STIS/CCD, ACQ, F28X50LP | MIRROR | ACQTYPE=POINT | GS ACQ SCENARI O BASE1B3 | | 0.2 Secs [==>] | [1] | |
| | <i>Comments: HST STIS Acq ETC gives SNR of 270.75 for 0.2 sec integration (assumes MOV, renormalized to V=11.62) --> this is below saturation (achieved w/ an integration of 1.13 seconds). Note that we're using the F28x50LP long-pass filter.</i> | | | | | | | | | | |
| | 2 | (6) G262-029 | (6) G262-029 | STIS/CCD, ACCUM, WEDGEA1.0 | MIRROR | CR-SPLIT=2; GAIN=4 | | | | 50 Secs [==>(Split 1)] [==>(Split 2)] | [1] |
| 3 | (6) G262-029 | (6) G262-029 | STIS/CCD, ACCUM, WEDGEA1.0 | MIRROR | CR-SPLIT=4; GAIN=4 | | | | 2308 Secs [==>(Split 1)] [==>(Split 2)] [==>(Split 3)] [==>(Split 4)] | [1] | |



Proposal 10897 - Visit 71 - Coronagraphic imaging of the submillimeter debris disk of a 200Myr old M-dwarf

Wed Nov 25 02:02:13 GMT 2009

| | | | | | | | | | | | |
|--|--|---------------------------------------|---|--|-----------------------|-----------------------------|-----------------------|---|---|--------------|--|
| Visit | Proposal 10897, Visit 71 Diagnostic Status: Warning Scientific Instruments: STIS/CCD Special Requirements: GYRO MODE 3GOBAD; ORIENT 25D TO 35D FROM 61 | | | | | | | | | | |
| | (Visit 71) Warning (Form): Gyro Mode overrides default value of 2G. | | | | | | | | | | |
| Diagnostics | | | | | | | | | | | |
| | | | | | | | | | | | |
| Fixed Targets | # | Name | Target Coordinates | Targ. Coord. | Corrections | Fluxes | Miscellaneous | | | | |
| | (4) | GJ-842.2-COPY Alt Name1: HIP108467 | RA: 21 58 23.9700 (329.5998750d) Dec: +75 35 20.40 (75.58900d) Equinox: J2000 | Proper Motion RA: 0.0621s/yr Proper Motion Dec: 0.0226"/yr Parallax: 0.04795" Epoch of Position: 1991.25 Radial Velocity: -11 km/sec | | V=10.56+/-0.05 | Reference Frame: ICRS | | | | |
| <i>Comments: Coordinates (ICRS J2000; epoch 1991.25 from Hipparcos catalog). PM [RA = RA_PM/15cos Dec = ((0.23183 as/yr) / (15cos 75.58900273 deg)) = 0.0621; Dec = 22.60 mas/yr) taken from Hipparcos Main Catalog.</i> | | | | | | | | | | | |
| Exposures | # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time/[Actual Dur.] | Orbit | |
| | 1 | (4) GJ-842.2-COPY | STIS/CCD, ACQ, F28X50LP | MIRROR | ACQTYPE=POINT | GS ACQ SCENARI O BASE1B3 | | | 0.1 Secs [==>] | [1] | |
| | <i>Comments: HST STIS Acq ETC gives SNR of 309 for 0.01sec integration (assumes MOV, renormalized to V=10.56) --> this is below saturation (achieved w/ an integration of 0.43 seconds). Note that we're using the F28x50LP long-pass filter.</i> | | | | | | | | | | |
| | 2 | (4) GJ-842.2-COPY | STIS/CCD, ACCUM, WEDGEA1.0 | MIRROR | CR-SPLIT=2; GAIN=4 | | | | 50 Secs [==>(Split 1)] [==>(Split 2)] | [1] | |
| 3 | (4) GJ-842.2-COPY | STIS/CCD, ACCUM, WEDGEA1.0 | MIRROR | CR-SPLIT=4; GAIN=4 | | | | 2356 Secs [==>(Split 1)] [==>(Split 2)] [==>(Split 3)] [==>(Split 4)] | [1] | | |



Proposal 10897 - Visit 73 - Coronagraphic imaging of the submillimeter debris disk of a 200Myr old M-dwarf

Wed Nov 25 02:02:14 GMT 2009

| | | | | | | | | | | | |
|---|---|-------------------------------|--|--|-----------------------|-----------------------|-----------------------------|---------------|---|---|-----|
| Visit | Proposal 10897, Visit 73 Diagnostic Status: Warning Scientific Instruments: STIS/CCD Special Requirements: GYRO MODE 3GOBAD; AFTER 71 BY 0.1 Orbits TO 1.1 Orbits | | | | | | | | | | |
| | (Visit 73) Warning (Form): Gyro Mode overrides default value of 2G. | | | | | | | | | | |
| Diagnostics | | | | | | | | | | | |
| | | | | | | | | | | | |
| Fixed Targets | # | Name | Target Coordinates | Targ. Coord. Corrections | Fluxes | Miscellaneous | | | | | |
| | (6) | G262-029 Alt Name1: GJ4170 | RA: 20 51 59.7400 (312.9989167d) Dec: +69 10 7.20 (69.16867d) Equinox: J2000 | Proper Motion RA: 0.04012s/yr Proper Motion Dec: 0.045"/yr Epoch of Position: 1995.584 | V=11.62+/-0.1 | Reference Frame: ICRS | | | | | |
| <i>Comments: Coordinates at epoch 1995.584 from the Guide Star Catalog version 2.3. Proper motion values from Lepine et al 2005, AJ, 129, 1483. RA proper motion determined by $0.214 \text{ "/yr} / 15 \cos(\text{dec}) = 0.214 / 15 \cos(69.168664) = 0.04012$</i> | | | | | | | | | | | |
| Exposures | # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time/[Actual Dur.] | Orbit | |
| | 1 | (6) G262-029 | (6) G262-029 | STIS/CCD, ACQ, F28X50LP | MIRROR | ACQTYPE=POINT | GS ACQ SCENARI O BASE1B3 | | 0.2 Secs [==>] | [1] | |
| | <i>Comments: HST STIS Acq ETC gives SNR of 270.75 for 0.2 sec integration (assumes MOV, renormalized to V=11.62) --> this is below saturation (achieved w/ an integration of 1.13 seconds). Note that we're using the F28x50LP long-pass filter.</i> | | | | | | | | | | |
| | 2 | (6) G262-029 | (6) G262-029 | STIS/CCD, ACCUM, WEDGEA1.0 | MIRROR | CR-SPLIT=2; GAIN=4 | | | | 50 Secs [==>(Split 1)] [==>(Split 2)] | [1] |
| 3 | (6) G262-029 | (6) G262-029 | STIS/CCD, ACCUM, WEDGEA1.0 | MIRROR | CR-SPLIT=4; GAIN=4 | | | | 2308 Secs [==>(Split 1)] [==>(Split 2)] [==>(Split 3)] [==>(Split 4)] | [1] | |

