



11215 - New Sightlines for the Study of Intergalactic Helium: Dozens of High-Confidence, UV-Bright Quasars from SDSS/GALEX

Cycle: 16, Proposal Category: GO

(Availability Mode: SUPPORTED)

INVESTIGATORS

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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) SDSSJ0856+1020 | ACS/SBC | 2 | 18-Jan-2008 04:03:42.0 | yes |
| 02 | (2) SDSSJ0922+5618 | ACS/SBC | 2 | 18-Jan-2008 04:03:50.0 | yes |
| 03 | (3) SDSSJ0957-0020 | ACS/SBC | 2 | 18-Jan-2008 04:03:57.0 | yes |
| 04 | (4) SDSSJ1006+3705 | ACS/SBC | 2 | 18-Jan-2008 04:04:05.0 | yes |
| 05 | (5) SDSSJ1216+4350 | ACS/SBC | 2 | 18-Jan-2008 04:04:12.0 | yes |
| 06 | (6) SDSSJ1224+0758 | ACS/SBC | 2 | 18-Jan-2008 04:04:18.0 | 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> |
|--------------|------------------------------|-------------------------------------|--------------------|-------------------------------|-------------------------------|
| 07 | (7) SDSSJ1311+5100 | ACS/SBC | 2 | 18-Jan-2008 04:04:24.0 | yes |
| 08 | (8) SDSSJ1319+5202 | ACS/SBC | 2 | 18-Jan-2008 04:04:30.0 | yes |
| 09 | (9) SDSSJ1413+0643 | ACS/SBC | 2 | 18-Jan-2008 04:04:35.0 | yes |
| 10 | (10) SDSS1511+4957 | ACS/SBC | 2 | 18-Jan-2008 04:04:44.0 | yes |
| 11 | (11) SDSSJ1536+5008 | ACS/SBC | 2 | 18-Jan-2008 04:04:49.0 | yes |
| 12 | (12) SDSSJ2200+0008 | ACS/SBC | 2 | 18-Jan-2008 04:04:55.0 | yes |

24 Total Orbits Used

ABSTRACT

The reionization of IGM helium is thought to have occurred at redshifts of $z=3$ to 4. Detailed study of HeII Lyman-alpha absorption toward a handful of QSOs at $2.7 < z < 3.3$ demonstrated the high potential of such IGM probes, but the critically small sample size limits confidence in cosmological inferences. The requisite unobscured sightlines to high- z are extremely rare, but SDSS provides 5800, $z > 3.1$ QSOs potentially suitable for HeII studies. We've cross-correlated SDSS quasars with GALEX UV sources to obtain dozens of new, high confidence, candidate sightlines ($z=3.1-4.9$) potentially useful for detailed HeII studies with HST. We propose brief, 2-orbit reconnaissance ACS SBC prism exposures toward each of the best dozen new quasars, to definitively verify UV flux down to HeII. Our combined SDSS/GALEX selection insures a high confirmation rate, as the quasars are already known to be UV bright in GALEX. Our program will provide a statistical sample of HeII sightlines extending to high redshift, enabling future long exposure follow-up spectra with the SBC prism, or superb quality COS or STIS spectra after SM4. Stacks of our prism spectra will also directly yield ensemble information. Ultimately, the new sightlines will enable confident measures of the spectrum and evolution of the ionizing background, the evolution of HeII opacity, the epoch of helium reionization, and the density of IGM baryons.

OBSERVING DESCRIPTION

We will observe 12 $z > 3.1$ quasars selected from SDSS and GALEX, using ACS/SBC PR130L to confirm UV flux (detected in GALEX) down to the HeII Lyman-alpha break. Two dither positions are used, with direct images at each dither position to correlate with the prism exposures. The last prism exposure in each orbit may be adjusted in length to fill the orbit.

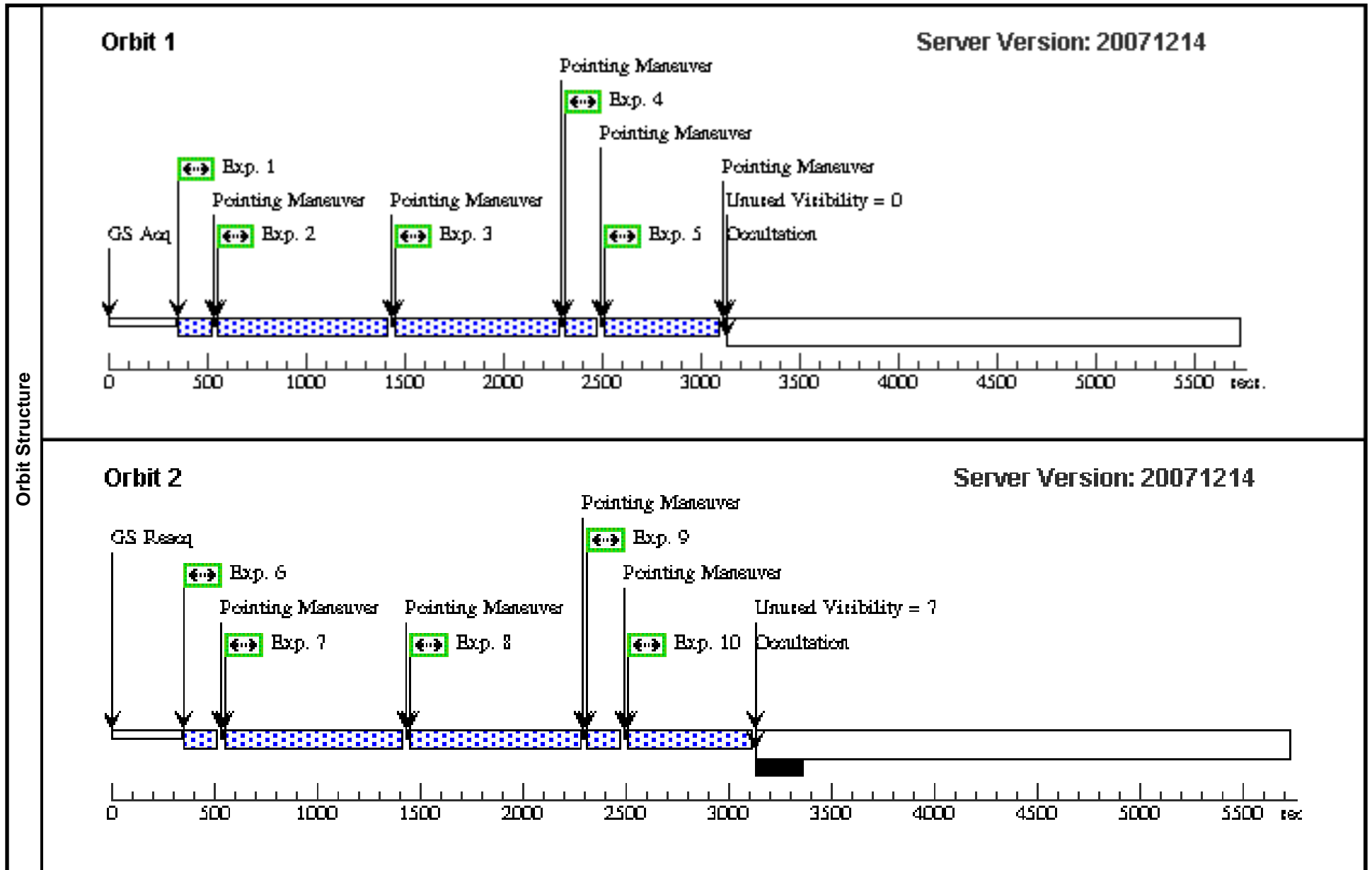
ADDITIONAL COMMENTS

Basic UV bright object safety data information is included in the comments for each target based on GALEX UV imaging photometry of each target/field. 5-band SDSS imaging photometry is also available in the optical for all targets/fields (Each quasar target has an SDSS optical spectrum available as well).

Proposal 11215 - Visit 01 - New Sightlines for the Study of Intergalactic Helium: Dozens of High-Confidence, UV-Brigh...

Fri Jan 18 09:04:59 GMT 2008

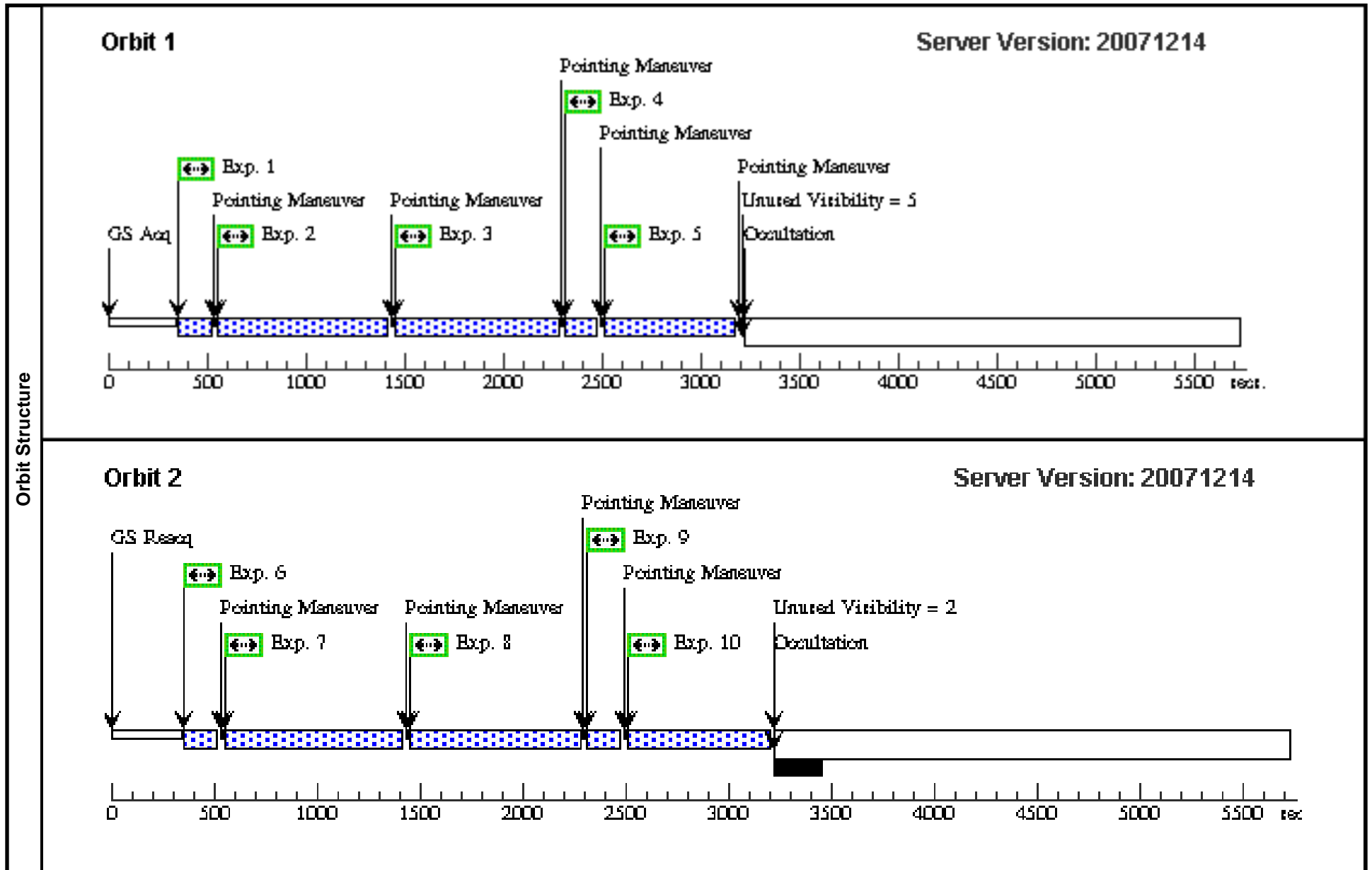
| Visit | | Proposal 11215, Visit 01 | | | | | | | |
|---------------|----------------|--|--------------------------|---|-----------------------|--------------------|--------|-------------------------|-------|
| Fixed Targets | | Diagnostic Status: No Diagnostics | | | | | | | |
| | | Scientific Instruments: ACS/SBC | | | | | | | |
| | | Special Requirements: (none) | | | | | | | |
| # | Name | Target Coordinates | Targ. Coord. Corrections | Fluxes | Miscellaneous | | | | |
| (1) | SDSSJ0856+1020 | RA: 08 56 24.9200 (134.1038333d) Dec: +10 20 17.00 (10.33806d) Equinox: J2000 | | V=19.6 u=22.2, g=20.2, r=19.0, i=18.9, z=18.8, GALEXfuv=20.5, nuv=19.6 | Reference Frame: ICRS | | | | |
| | | <i>Comments: Brightest GALEX GR2 sources within 0.6' radius are: FUV: quasar target (m=20.5) NUV: quasar target (m=19.6)</i> | | | | | | | |
| # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time/[Actual Dur.] | Orbit |
| 1 | (1) 0 | SDSSJ0856+102 | ACS/SBC, ACCUM, SBC | F150LP | | | | 100.0 Secs [==>] | [1] |
| 2 | (1) 0 | SDSSJ0856+102 | ACS/SBC, ACCUM, SBC | PR130L | | | | 800.0 Secs [==>] | [1] |
| 3 | (1) 0 | SDSSJ0856+102 | ACS/SBC, ACCUM, SBC | PR130L | | POS TARG 0.017,0.0 | | 800.0 Secs [==>] | [1] |
| 4 | (1) 0 | SDSSJ0856+102 | ACS/SBC, ACCUM, SBC | F150LP | | POS TARG 0.017,0.0 | | 100.0 Secs [==>] | [1] |
| 5 | (1) 0 | SDSSJ0856+102 | ACS/SBC, ACCUM, SBC | PR130L | | | | 520.0 Secs [==>] | [1] |
| | | <i>Comments: exposure 5 time can be adjusted</i> | | | | | | | |
| 6 | (1) 0 | SDSSJ0856+102 | ACS/SBC, ACCUM, SBC | F150LP | | | | 100.0 Secs [==>] | [2] |
| 7 | (1) 0 | SDSSJ0856+102 | ACS/SBC, ACCUM, SBC | PR130L | | | | 800.0 Secs [==>] | [2] |
| 8 | (1) 0 | SDSSJ0856+102 | ACS/SBC, ACCUM, SBC | PR130L | | POS TARG 0.017,0.0 | | 800.0 Secs [==>] | [2] |
| 9 | (1) 0 | SDSSJ0856+102 | ACS/SBC, ACCUM, SBC | F150LP | | POS TARG 0.017,0.0 | | 100.0 Secs [==>] | [2] |
| 10 | (1) 0 | SDSSJ0856+102 | ACS/SBC, ACCUM, SBC | PR130L | | | | 540.0 Secs [==>] | [2] |
| | | <i>Comments: exposure 10 time may be adjusted</i> | | | | | | | |



Proposal 11215 - Visit 02 - New Sightlines for the Study of Intergalactic Helium: Dozens of High-Confidence, UV-Brigh...

Fri Jan 18 09:05:00 GMT 2008

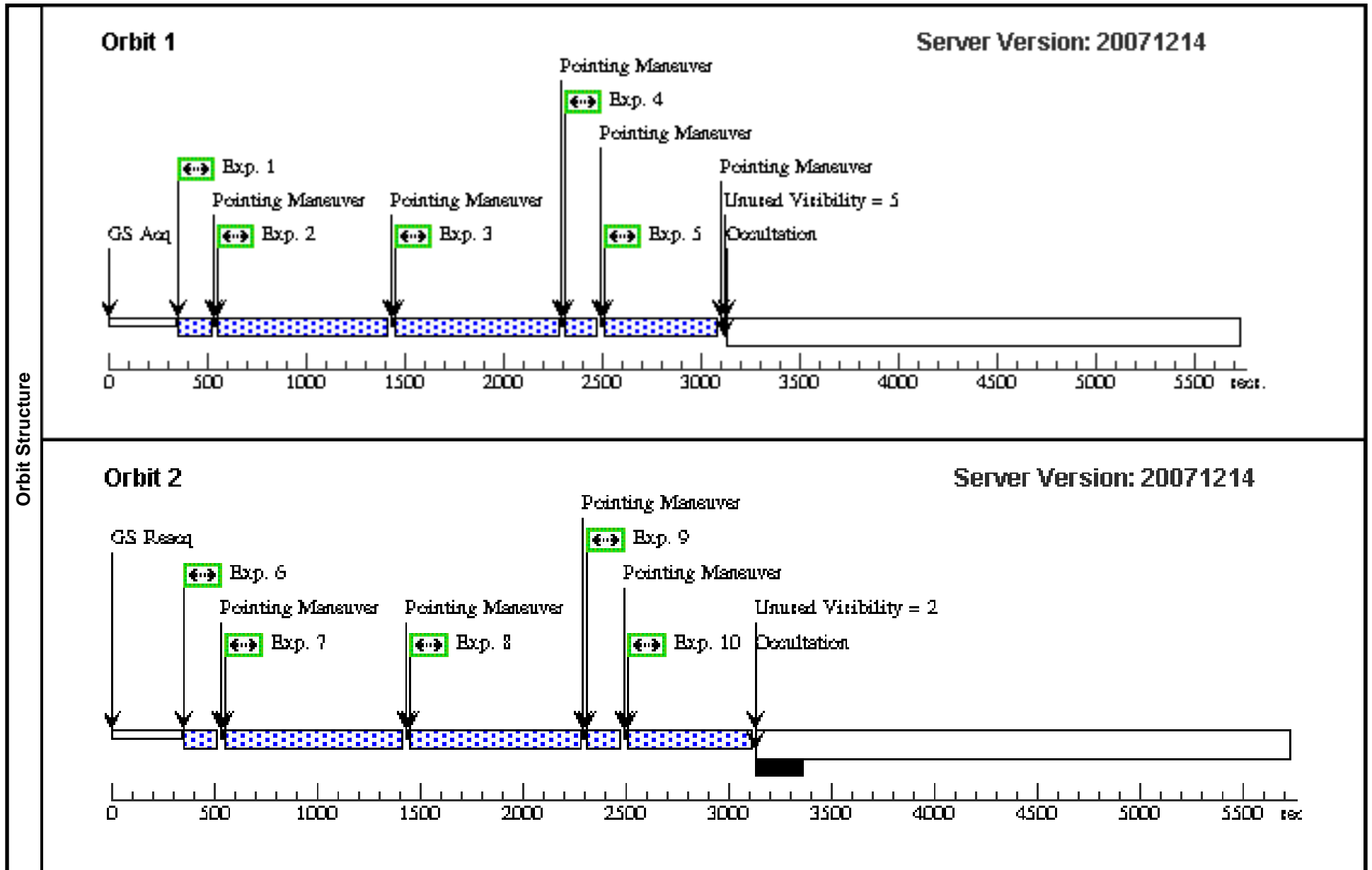
| Visit | Proposal 11215, Visit 02 | | | | | | | | | | |
|---|--|----------------|---|--------------------------|---|-----------------------|--------------------|---------------------|-------------------------|-------|--|
| | Diagnostic Status: No Diagnostics | | | | | | | | | | |
| Scientific Instruments: ACS/SBC | | | | | | | | | | | |
| Special Requirements: (none) | | | | | | | | | | | |
| Fixed Targets | # | Name | Target Coordinates | Targ. Coord. Corrections | Fluxes | Miscellaneous | | | | | |
| | (2) | SDSSJ0922+5618 | RA: 09 22 56.2000 (140.7341667d) Dec: +56 18 49.40 (56.31372d) Equinox: J2000 | | V=20.4 u=25.5, g=21.3, r=19.4, i=19.0, z=18.9, GALEXfuv=22.1, nuv=21.8 | Reference Frame: ICRS | | | | | |
| <i>Comments: Brightest GALEX (GR2) sources within 0.6' are: FUV: quasar target (m=22.1) NUV: quasar target (m=21.8)</i> | | | | | | | | | | | |
| Exposures | # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time/[Actual Dur.] | Orbit | |
| | 1 | (2) 8 | SDSSJ0922+5618 | ACS/SBC, ACCUM, SBC | F150LP | | | | 100.0 Secs [==>] | [1] | |
| | 2 | (2) 8 | SDSSJ0922+5618 | ACS/SBC, ACCUM, SBC | PR130L | | | | 800.0 Secs [==>] | [1] | |
| | 3 | (2) 8 | SDSSJ0922+5618 | ACS/SBC, ACCUM, SBC | PR130L | | POS TARG 0.017,0.0 | | 800.0 Secs [==>] | [1] | |
| | 4 | (2) 8 | SDSSJ0922+5618 | ACS/SBC, ACCUM, SBC | F150LP | | POS TARG 0.017,0.0 | | 100.0 Secs [==>] | [1] | |
| | 5 | (2) 8 | SDSSJ0922+5618 | ACS/SBC, ACCUM, SBC | PR130L | | | | 600.0 Secs [==>] | [1] | |
| | <i>Comments: exposure 5 time can be adjusted</i> | | | | | | | | | | |
| | 6 | (2) 8 | SDSSJ0922+5618 | ACS/SBC, ACCUM, SBC | F150LP | | | | 100.0 Secs [==>] | [2] | |
| | 7 | (2) 8 | SDSSJ0922+5618 | ACS/SBC, ACCUM, SBC | PR130L | | | | 800.0 Secs [==>] | [2] | |
| | 8 | (2) 8 | SDSSJ0922+5618 | ACS/SBC, ACCUM, SBC | PR130L | | POS TARG 0.017,0.0 | | 800.0 Secs [==>] | [2] | |
| | 9 | (2) 8 | SDSSJ0922+5618 | ACS/SBC, ACCUM, SBC | F150LP | | POS TARG 0.017,0.0 | | 100.0 Secs [==>] | [2] | |
| 10 | (2) 8 | SDSSJ0922+5618 | ACS/SBC, ACCUM, SBC | PR130L | | | | 630.0 Secs [==>] | [2] | | |
| <i>Comments: exposure 10 time may be adjusted</i> | | | | | | | | | | | |



Proposal 11215 - Visit 03 - New Sightlines for the Study of Intergalactic Helium: Dozens of High-Confidence, UV-Brigh...

Fri Jan 18 09:05:01 GMT 2008

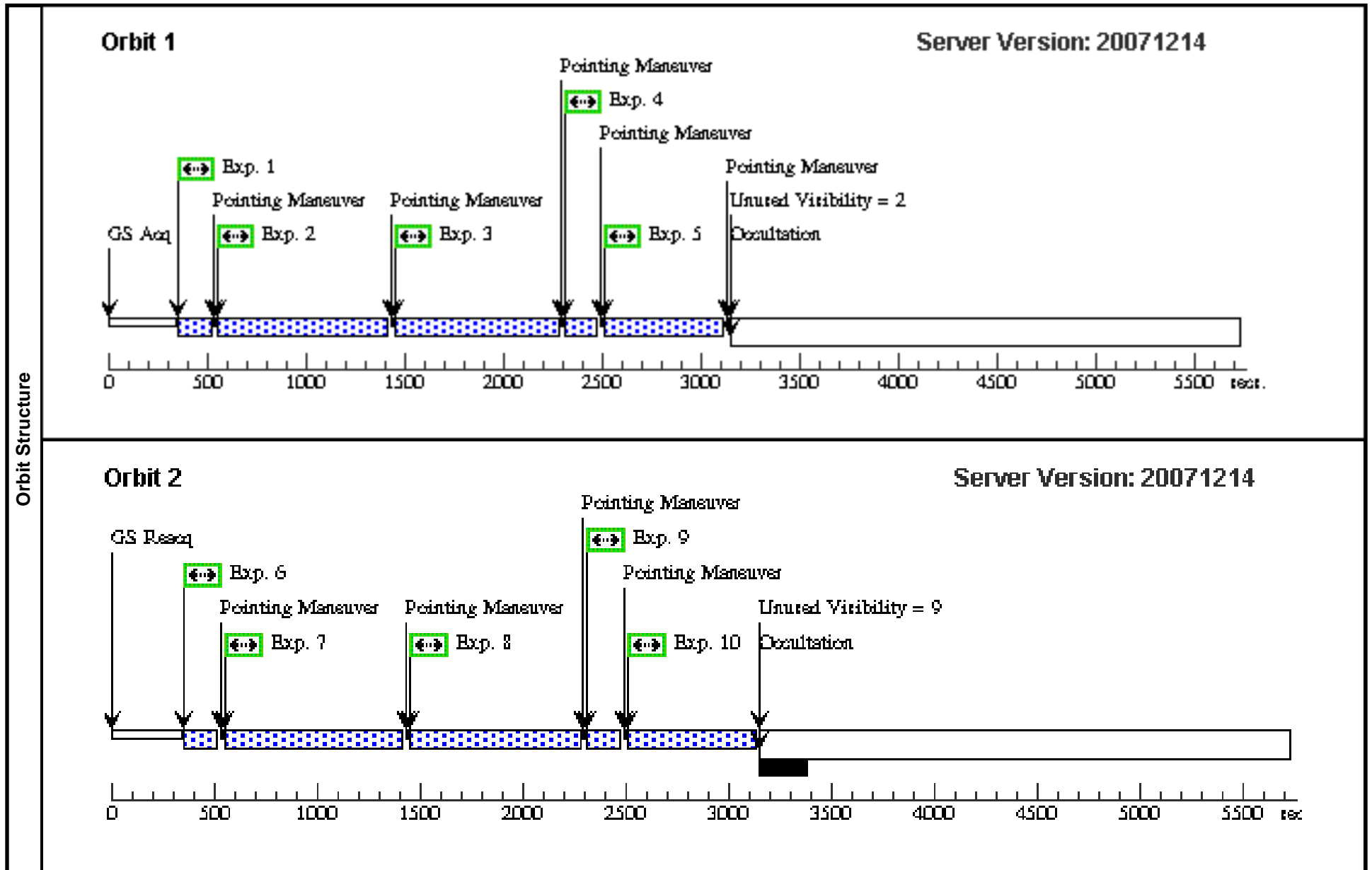
| Visit | Proposal 11215, Visit 03 | | | | | | | | | | |
|--|--|---------------------|--|--------------------------|--|-----------------------|--------------------|---------------------|-------------------------|-------|--|
| | Diagnostic Status: No Diagnostics | | | | | | | | | | |
| Scientific Instruments: ACS/SBC | | | | | | | | | | | |
| Special Requirements: (none) | | | | | | | | | | | |
| Fixed Targets | # | Name | Target Coordinates | Targ. Coord. Corrections | Fluxes | Miscellaneous | | | | | |
| | (3) | SDSSJ0957-0020 | RA: 09 57 55.6400 (149.4818333d) Dec: -00 20 27.50 (-.34097d) Equinox: J2000 | | V=20 u=21.8, g=20.7, r=19.4, i=19.4, z=19.2, GALEXnuv=22.0 | Reference Frame: ICRS | | | | | |
| <i>Comments: Brightest GALEX (GR2) sources within 0.6' radius are: FUV: no detection NUV: quasar target (m=22.0)</i> | | | | | | | | | | | |
| Exposures | # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time/[Actual Dur.] | Orbit | |
| | 1 | (3) SDSSJ0957-0020 | ACS/SBC, ACCUM, SBC | F150LP | | | | | 100.0 Secs [==>] | [1] | |
| | 2 | (3) SDSSJ0957-0020 | ACS/SBC, ACCUM, SBC | PR130L | | | | | 800.0 Secs [==>] | [1] | |
| | 3 | (3) SDSSJ0957-0020 | ACS/SBC, ACCUM, SBC | PR130L | | | POS TARG 0.017,0.0 | | 800.0 Secs [==>] | [1] | |
| | 4 | (3) SDSSJ0957-0020 | ACS/SBC, ACCUM, SBC | F150LP | | | POS TARG 0.017,0.0 | | 100.0 Secs [==>] | [1] | |
| | 5 | (3) SDSSJ0957-0020 | ACS/SBC, ACCUM, SBC | PR130L | | | | | 510.0 Secs [==>] | [1] | |
| | <i>Comments: exposure 5 time can be adjusted</i> | | | | | | | | | | |
| | 6 | (3) SDSSJ0957-0020 | ACS/SBC, ACCUM, SBC | F150LP | | | | | 100.0 Secs [==>] | [2] | |
| | 7 | (3) SDSSJ0957-0020 | ACS/SBC, ACCUM, SBC | PR130L | | | | | 800.0 Secs [==>] | [2] | |
| | 8 | (3) SDSSJ0957-0020 | ACS/SBC, ACCUM, SBC | PR130L | | | POS TARG 0.017,0.0 | | 800.0 Secs [==>] | [2] | |
| | 9 | (3) SDSSJ0957-0020 | ACS/SBC, ACCUM, SBC | F150LP | | | POS TARG 0.017,0.0 | | 100.0 Secs [==>] | [2] | |
| 10 | (3) SDSSJ0957-0020 | ACS/SBC, ACCUM, SBC | PR130L | | | | | 540.0 Secs [==>] | [2] | | |
| <i>Comments: exposure 10 time may be adjusted</i> | | | | | | | | | | | |



Proposal 11215 - Visit 04 - New Sightlines for the Study of Intergalactic Helium: Dozens of High-Confidence, UV-Brigh...

Fri Jan 18 09:05:01 GMT 2008

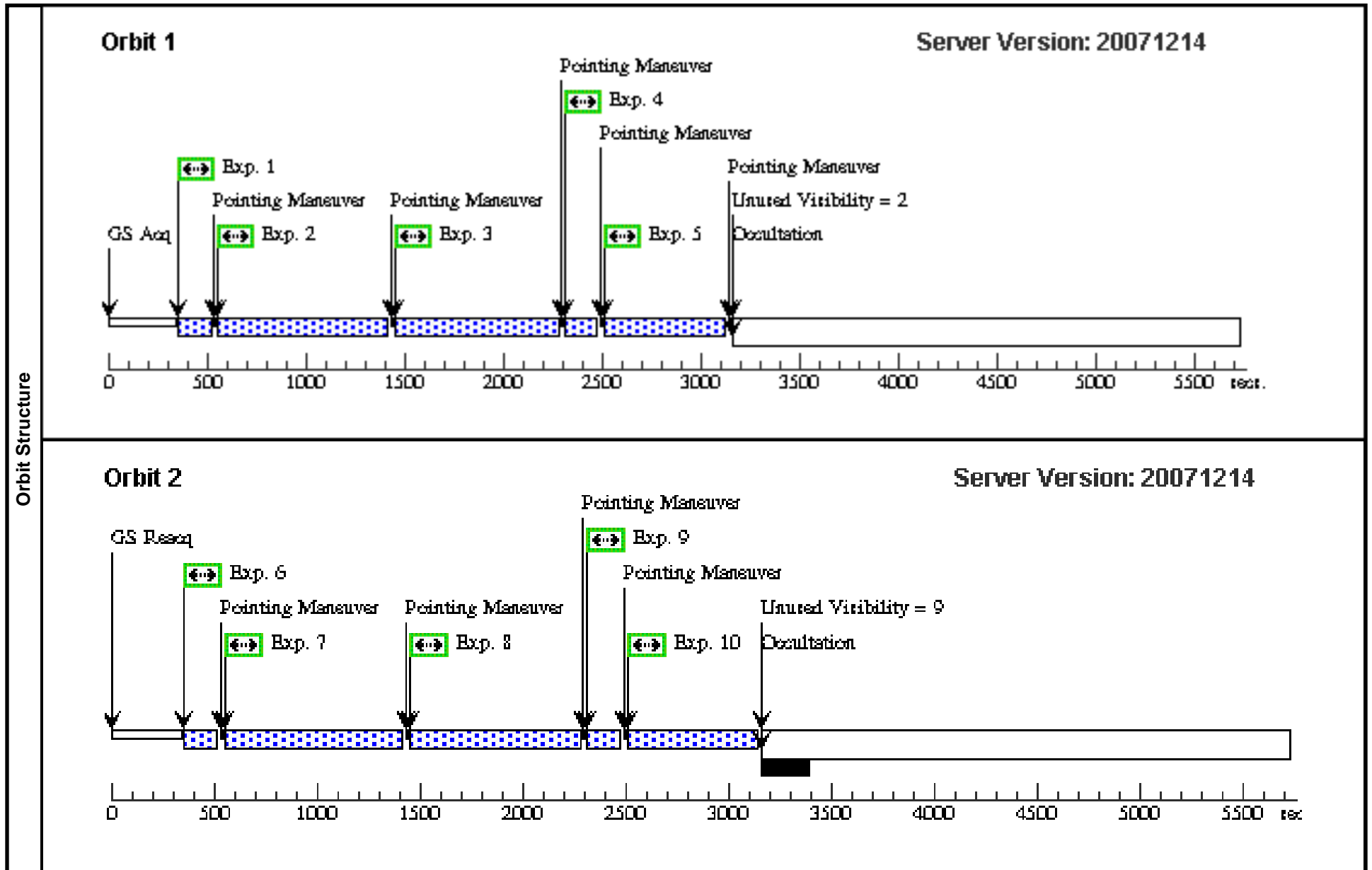
| Visit | | Proposal 11215, Visit 04 | | | | | | | |
|--|----------------|---|--------------------------|---|-----------------------|--------------------|--------|-------------------------|-------|
| Fixed Targets | | Diagnostic Status: No Diagnostics | | | | | | | |
| | | Scientific Instruments: ACS/SBC | | | | | | | |
| | | Special Requirements: (none) | | | | | | | |
| # | Name | Target Coordinates | Targ. Coord. Corrections | Fluxes | Miscellaneous | | | | |
| (4) | SDSSJ1006+3705 | RA: 10 06 10.5500 (151.5439583d) Dec: +37 05 13.80 (37.08717d) Equinox: J2000 | | V=17.8 u=19.7, g=17.9, r=17.8, i=17.7, z=17.7, GALEXfuv=22.2, nuv=20.3 | Reference Frame: ICRS | | | | |
| <i>Comments: Brightest GALEX (GR2) sources within 0.6' radius are: FUV: quasar target (m=22.2) NUV: quasar target (m=20.3)</i> | | | | | | | | | |
| # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time/[Actual Dur.] | Orbit |
| 1 | (4) 5 | SDSSJ1006+3705 | ACS/SBC, ACCUM, SBC | F150LP | | | | 100.0 Secs [==>] | [1] |
| 2 | (4) 5 | SDSSJ1006+3705 | ACS/SBC, ACCUM, SBC | PR130L | | | | 800.0 Secs [==>] | [1] |
| 3 | (4) 5 | SDSSJ1006+3705 | ACS/SBC, ACCUM, SBC | PR130L | | POS TARG 0.017,0.0 | | 800.0 Secs [==>] | [1] |
| 4 | (4) 5 | SDSSJ1006+3705 | ACS/SBC, ACCUM, SBC | F150LP | | POS TARG 0.017,0.0 | | 100.0 Secs [==>] | [1] |
| 5 | (4) 5 | SDSSJ1006+3705 | ACS/SBC, ACCUM, SBC | PR130L | | | | 540.0 Secs [==>] | [1] |
| <i>Comments: exposure 5 time can be adjusted</i> | | | | | | | | | |
| 6 | (4) 5 | SDSSJ1006+3705 | ACS/SBC, ACCUM, SBC | F150LP | | | | 100.0 Secs [==>] | [2] |
| 7 | (4) 5 | SDSSJ1006+3705 | ACS/SBC, ACCUM, SBC | PR130L | | | | 800.0 Secs [==>] | [2] |
| 8 | (4) 5 | SDSSJ1006+3705 | ACS/SBC, ACCUM, SBC | PR130L | | POS TARG 0.017,0.0 | | 800.0 Secs [==>] | [2] |
| 9 | (4) 5 | SDSSJ1006+3705 | ACS/SBC, ACCUM, SBC | F150LP | | POS TARG 0.017,0.0 | | 100.0 Secs [==>] | [2] |
| 10 | (4) 5 | SDSSJ1006+3705 | ACS/SBC, ACCUM, SBC | PR130L | | | | 560.0 Secs [==>] | [2] |
| <i>Comments: exposure 10 time may be adjusted</i> | | | | | | | | | |



Proposal 11215 - Visit 05 - New Sightlines for the Study of Intergalactic Helium: Dozens of High-Confidence, UV-Brigh...

Fri Jan 18 09:05:02 GMT 2008

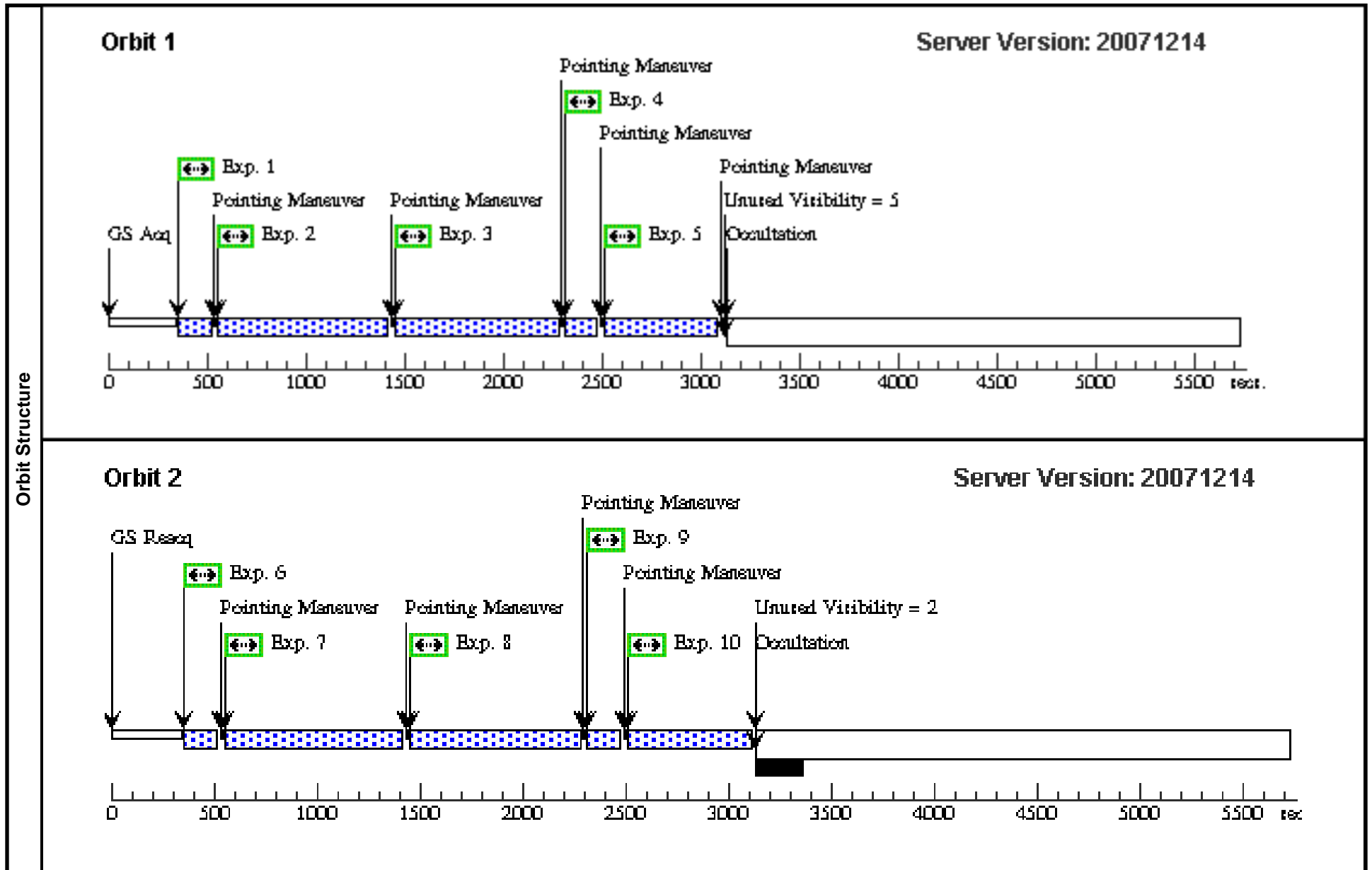
| Visit | | Proposal 11215, Visit 05 | | | | | | | | |
|--|----------------|---|--------------------------|--|-----------------------|--------------------|--------|-------------------------|-------|--|
| Fixed Targets | | Diagnostic Status: No Diagnostics | | | | | | | | |
| | | Scientific Instruments: ACS/SBC | | | | | | | | |
| | | Special Requirements: (none) | | | | | | | | |
| # | Name | Target Coordinates | Targ. Coord. Corrections | Fluxes | Miscellaneous | | | | | |
| (5) | SDSSJ1216+4350 | RA: 12 16 13.6500 (184.0568750d) Dec: +43 50 24.30 (43.84008d) Equinox: J2000 | | V=19.5 u=22.6, g=20.3, r=18.8, i=18.6, z=18.6, GALEXnuv=22.0 | Reference Frame: ICRS | | | | | |
| <i>Comments: Brightest GALEX (GR2) sources within 0.6' radius are: FUV: no detection NUV: quasar target (m=22.0)</i> | | | | | | | | | | |
| # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time/[Actual Dur.] | Orbit | |
| 1 | (5) 0 | SDSSJ1216+4350 | ACS/SBC, ACCUM, SBC | F150LP | | | | 100.0 Secs [==>] | [1] | |
| 2 | (5) 0 | SDSSJ1216+4350 | ACS/SBC, ACCUM, SBC | PR130L | | | | 800.0 Secs [==>] | [1] | |
| 3 | (5) 0 | SDSSJ1216+4350 | ACS/SBC, ACCUM, SBC | PR130L | | POS TARG 0.017,0.0 | | 800.0 Secs [==>] | [1] | |
| 4 | (5) 0 | SDSSJ1216+4350 | ACS/SBC, ACCUM, SBC | F150LP | | POS TARG 0.017,0.0 | | 100.0 Secs [==>] | [1] | |
| 5 | (5) 0 | SDSSJ1216+4350 | ACS/SBC, ACCUM, SBC | PR130L | | | | 550.0 Secs [==>] | [1] | |
| <i>Comments: exposure 5 time can be adjusted</i> | | | | | | | | | | |
| 6 | (5) 0 | SDSSJ1216+4350 | ACS/SBC, ACCUM, SBC | F150LP | | | | 100.0 Secs [==>] | [2] | |
| 7 | (5) 0 | SDSSJ1216+4350 | ACS/SBC, ACCUM, SBC | PR130L | | | | 800.0 Secs [==>] | [2] | |
| 8 | (5) 0 | SDSSJ1216+4350 | ACS/SBC, ACCUM, SBC | PR130L | | POS TARG 0.017,0.0 | | 800.0 Secs [==>] | [2] | |
| 9 | (5) 0 | SDSSJ1216+4350 | ACS/SBC, ACCUM, SBC | F150LP | | POS TARG 0.017,0.0 | | 100.0 Secs [==>] | [2] | |
| 10 | (5) 0 | SDSSJ1216+4350 | ACS/SBC, ACCUM, SBC | PR130L | | | | 570.0 Secs [==>] | [2] | |
| <i>Comments: exposure 10 time may be adjusted</i> | | | | | | | | | | |



Proposal 11215 - Visit 06 - New Sightlines for the Study of Intergalactic Helium: Dozens of High-Confidence, UV-Brigh...

Fri Jan 18 09:05:03 GMT 2008

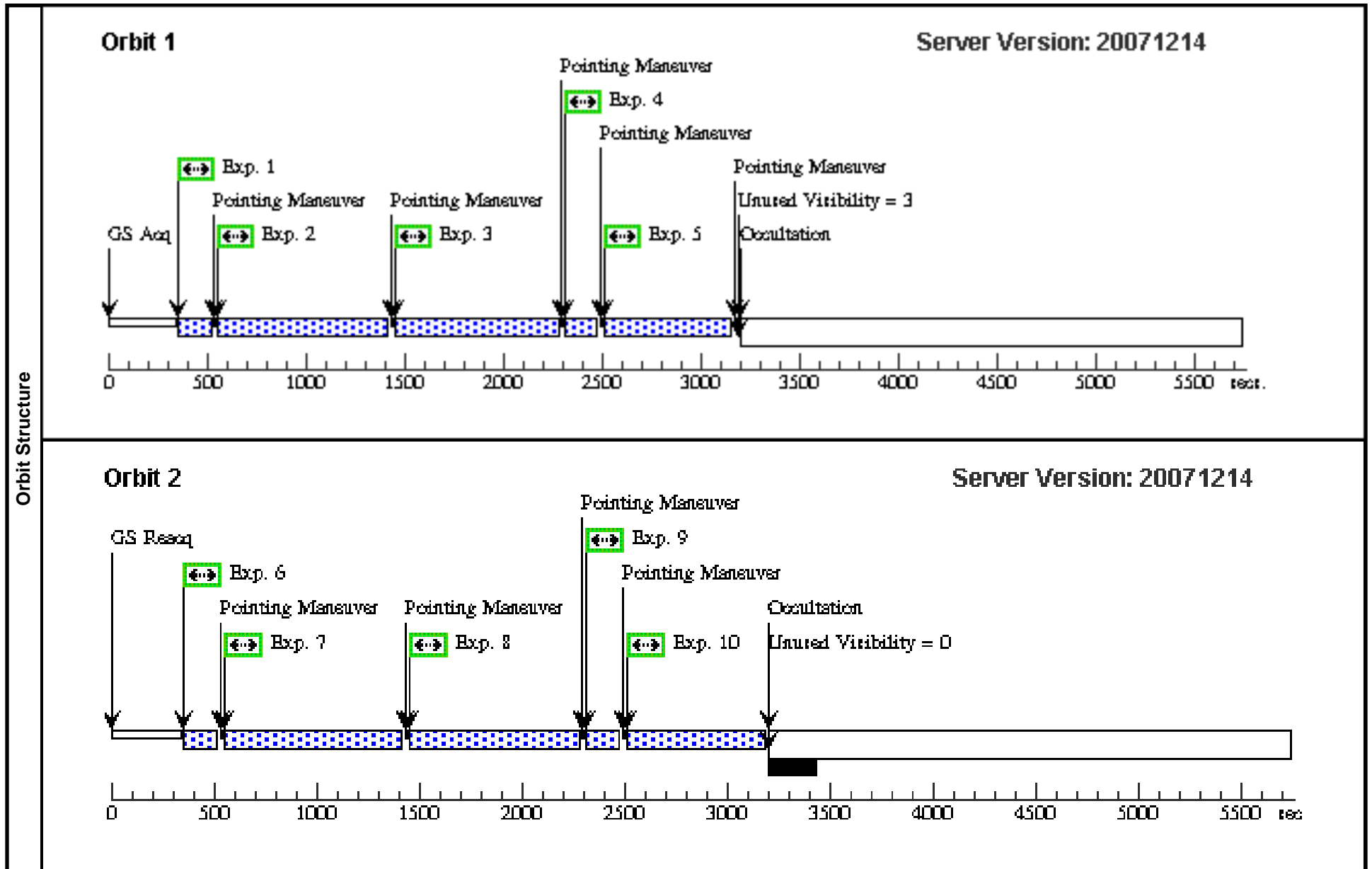
| Visit | | Proposal 11215, Visit 06 | | | | | | | | |
|--|--|-----------------------------------|--|--------------------------|--|-----------------------|--------------------|---------------------|-------------------------|-------|
| Visit | | Diagnostic Status: No Diagnostics | | | | | | | | |
| Visit | | Scientific Instruments: ACS/SBC | | | | | | | | |
| Visit | | Special Requirements: (none) | | | | | | | | |
| Fixed Targets | # | Name | Target Coordinates | Targ. Coord. Corrections | Fluxes | Miscellaneous | | | | |
| | (6) | SDSSJ1224+0758 | RA: 12 24 15.2700 (186.0636250d) Dec: +07 58 46.90 (7.97969d) Equinox: J2000 | | V=19.9 u=23.8, g=20.3, r=19.5, i=19.2, z=19.4, GALEXnuv=21.4 | Reference Frame: ICRS | | | | |
| <p>Comments: Brightest GALEX (GR2) sources within 0.6' radius are: FUV: no detection NUV: quasar target (m=21.4)</p> | | | | | | | | | | |
| Exposures | # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time/[Actual Dur.] | Orbit |
| | 1 | (6) SDSSJ1224+0758 | (6) SDSSJ1224+0758 | ACS/SBC, ACCUM, SBC | F150LP | | | | 100.0 Secs [==>] | [1] |
| | 2 | (6) SDSSJ1224+0758 | (6) SDSSJ1224+0758 | ACS/SBC, ACCUM, SBC | PR130L | | | | 800.0 Secs [==>] | [1] |
| | 3 | (6) SDSSJ1224+0758 | (6) SDSSJ1224+0758 | ACS/SBC, ACCUM, SBC | PR130L | | POS TARG 0.017,0.0 | | 800.0 Secs [==>] | [1] |
| | 4 | (6) SDSSJ1224+0758 | (6) SDSSJ1224+0758 | ACS/SBC, ACCUM, SBC | F150LP | | POS TARG 0.017,0.0 | | 100.0 Secs [==>] | [1] |
| | 5 | (6) SDSSJ1224+0758 | (6) SDSSJ1224+0758 | ACS/SBC, ACCUM, SBC | PR130L | | | | 510.0 Secs [==>] | [1] |
| | <p>Comments: exposure 5 time can be adjusted</p> | | | | | | | | | |
| | 6 | (6) SDSSJ1224+0758 | (6) SDSSJ1224+0758 | ACS/SBC, ACCUM, SBC | F150LP | | | | 100.0 Secs [==>] | [2] |
| | 7 | (6) SDSSJ1224+0758 | (6) SDSSJ1224+0758 | ACS/SBC, ACCUM, SBC | PR130L | | | | 800.0 Secs [==>] | [2] |
| | 8 | (6) SDSSJ1224+0758 | (6) SDSSJ1224+0758 | ACS/SBC, ACCUM, SBC | PR130L | | POS TARG 0.017,0.0 | | 800.0 Secs [==>] | [2] |
| 9 | (6) SDSSJ1224+0758 | (6) SDSSJ1224+0758 | ACS/SBC, ACCUM, SBC | F150LP | | POS TARG 0.017,0.0 | | 100.0 Secs [==>] | [2] | |
| 10 | (6) SDSSJ1224+0758 | (6) SDSSJ1224+0758 | ACS/SBC, ACCUM, SBC | PR130L | | | | 540.0 Secs [==>] | [2] | |
| <p>Comments: exposure 10 time may be adjusted</p> | | | | | | | | | | |



Proposal 11215 - Visit 07 - New Sightlines for the Study of Intergalactic Helium: Dozens of High-Confidence, UV-Brigh...

Fri Jan 18 09:05:03 GMT 2008

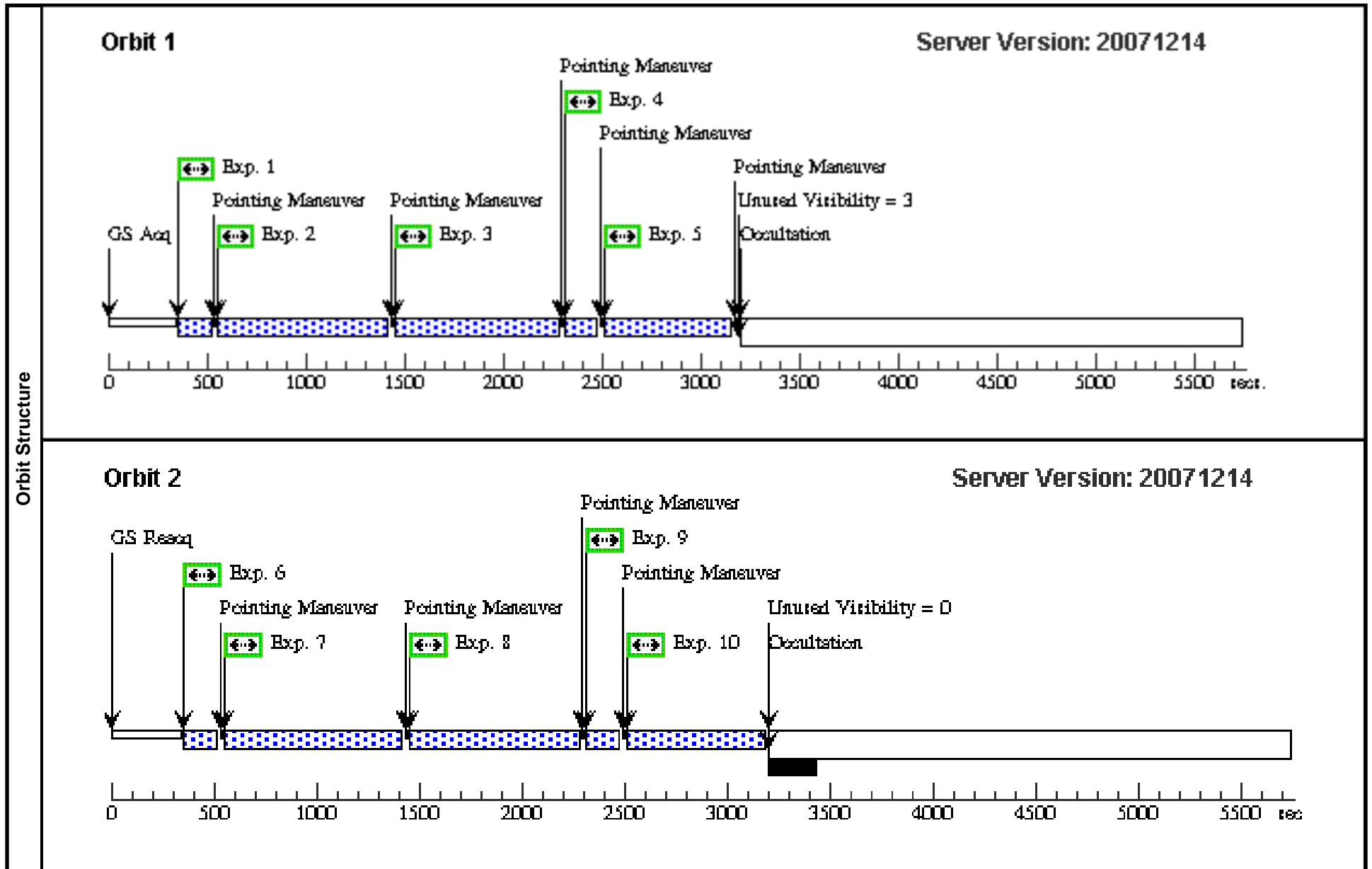
| Visit | Proposal 11215, Visit 07 | | | | | | | | | | |
|--|--|-------------------------|--|--------------------------|---|-----------------------|--------------------|---------------------|-------------------------|-------|--|
| | Diagnostic Status: No Diagnostics | | | | | | | | | | |
| Scientific Instruments: ACS/SBC | | | | | | | | | | | |
| Special Requirements: (none) | | | | | | | | | | | |
| Fixed Targets | # | Name | Target Coordinates | Targ. Coord. Corrections | Fluxes | Miscellaneous | | | | | |
| | (7) | SDSSJ1311+5100 | RA: 13 11 5.5100 (197.7729583d) Dec: +51 00 38.10 (51.01058d) Equinox: J2000 | | V=17.4 u=18.8, g=17.7, r=17.5, i=17.5, z=17.4, GALEXfuv=21.5, nuv=21.9 | Reference Frame: ICRS | | | | | |
| <i>Comments: Brightest GALEX (GR2) sources within 0.6' are: FUV: m=20.4 NUV:m=19.7 (offset from quasar by 0.45')</i> | | | | | | | | | | | |
| Exposures | # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time/[Actual Dur.] | Orbit | |
| | 1 | | (7) SDSSJ1311+5100 0 | ACS/SBC, ACCUM, SBC | F150LP | | | | 100.0 Secs [==>] | [1] | |
| | 2 | | (7) SDSSJ1311+5100 0 | ACS/SBC, ACCUM, SBC | PR130L | | | | 800.0 Secs [==>] | [1] | |
| | 3 | | (7) SDSSJ1311+5100 0 | ACS/SBC, ACCUM, SBC | PR130L | | POS TARG 0.017,0.0 | | 800.0 Secs [==>] | [1] | |
| | 4 | | (7) SDSSJ1311+5100 0 | ACS/SBC, ACCUM, SBC | F150LP | | POS TARG 0.017,0.0 | | 100.0 Secs [==>] | [1] | |
| | 5 | | (7) SDSSJ1311+5100 0 | ACS/SBC, ACCUM, SBC | PR130L | | | | 580.0 Secs [==>] | [1] | |
| | <i>Comments: exposure 5 time can be adjusted</i> | | | | | | | | | | |
| | 6 | | (7) SDSSJ1311+5100 0 | ACS/SBC, ACCUM, SBC | F150LP | | | | 100.0 Secs [==>] | [2] | |
| | 7 | | (7) SDSSJ1311+5100 0 | ACS/SBC, ACCUM, SBC | PR130L | | | | 800.0 Secs [==>] | [2] | |
| | 8 | | (7) SDSSJ1311+5100 0 | ACS/SBC, ACCUM, SBC | PR130L | | POS TARG 0.017,0.0 | | 800.0 Secs [==>] | [2] | |
| | 9 | | (7) SDSSJ1311+5100 0 | ACS/SBC, ACCUM, SBC | F150LP | | POS TARG 0.017,0.0 | | 100.0 Secs [==>] | [2] | |
| 10 | | (7) SDSSJ1311+5100 0 | ACS/SBC, ACCUM, SBC | PR130L | | | | 610.0 Secs [==>] | [2] | | |
| <i>Comments: exposure 10 time may be adjusted</i> | | | | | | | | | | | |



Proposal 11215 - Visit 08 - New Sightlines for the Study of Intergalactic Helium: Dozens of High-Confidence, UV-Brigh...

Fri Jan 18 09:05:04 GMT 2008

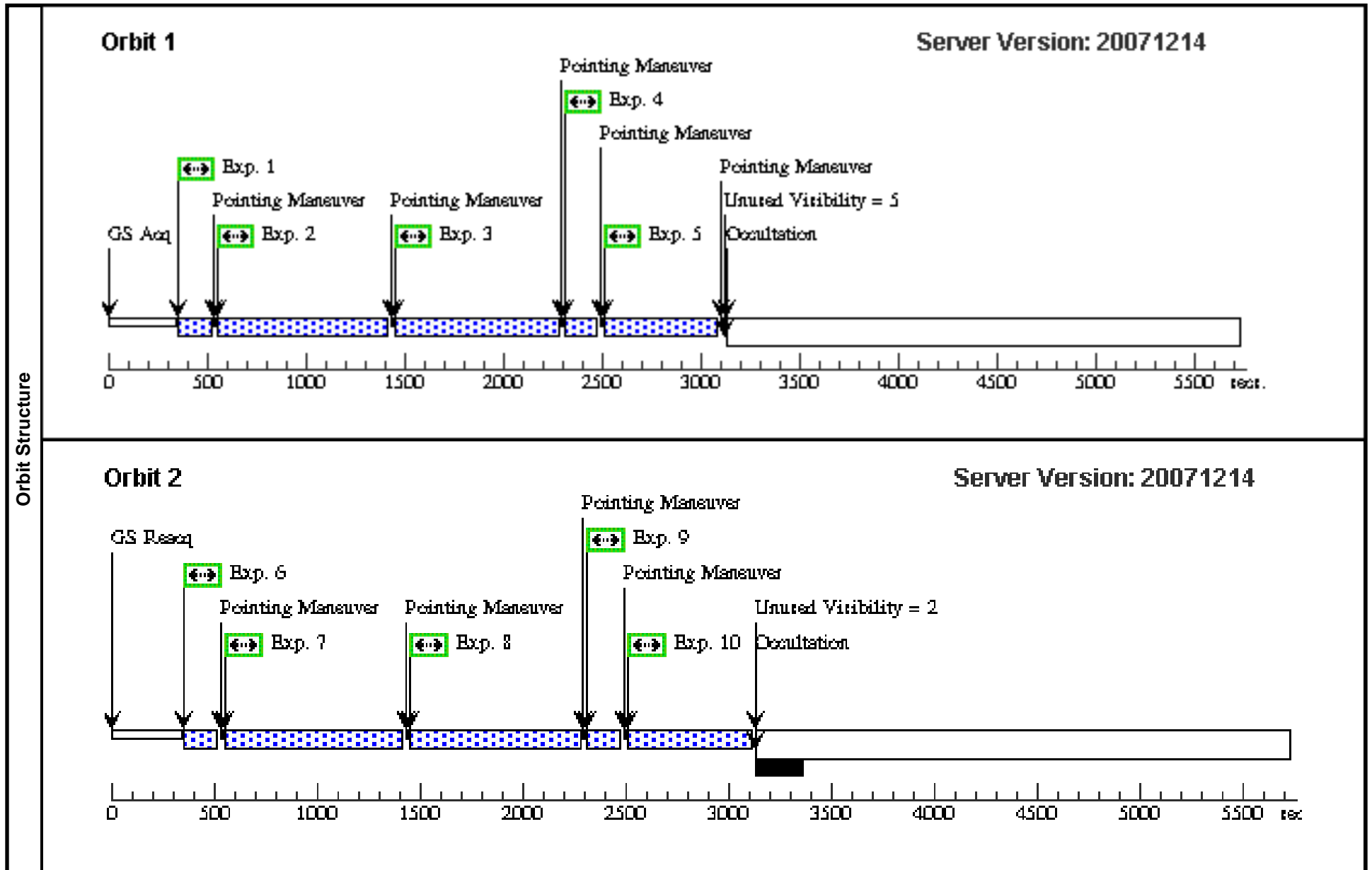
| Visit | | Proposal 11215, Visit 08 | | | | | | | |
|---------------|-------------------------|--|--------------------------|--|-----------------------|--------------------|--------|-------------------------|-------|
| Fixed Targets | | Diagnostic Status: No Diagnostics | | | | | | | |
| | | Scientific Instruments: ACS/SBC | | | | | | | |
| | | Special Requirements: (none) | | | | | | | |
| # | Name | Target Coordinates | Targ. Coord. Corrections | Fluxes | Miscellaneous | | | | |
| (8) | SDSSJ1319+5202 | RA: 13 19 14.2000 (199.8091667d) Dec: +52 02 0.00 (52.03333d) Equinox: J2000 | | V=18.4 u=20.8, g=19.0, r=17.8, i=17.8, z=17.8, GALEXfuv=21.6 | Reference Frame: ICRS | | | | |
| | | <i>Comments: Brightest GALEX sources within 0.6' radius are: FUV: quasar target (m=21.6) NUV: m=21.4</i> | | | | | | | |
| # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time/[Actual Dur.] | Orbit |
| 1 | (8) SDSSJ1319+5202 2 | ACS/SBC, ACCUM, SBC | F150LP | | | | | 100.0 Secs [==>] | [1] |
| 2 | (8) SDSSJ1319+5202 2 | ACS/SBC, ACCUM, SBC | PR130L | | | | | 800.0 Secs [==>] | [1] |
| 3 | (8) SDSSJ1319+5202 2 | ACS/SBC, ACCUM, SBC | PR130L | | | POS TARG 0.017,0.0 | | 800.0 Secs [==>] | [1] |
| 4 | (8) SDSSJ1319+5202 2 | ACS/SBC, ACCUM, SBC | F150LP | | | POS TARG 0.017,0.0 | | 100.0 Secs [==>] | [1] |
| 5 | (8) SDSSJ1319+5202 2 | ACS/SBC, ACCUM, SBC | PR130L | | | | | 580.0 Secs [==>] | [1] |
| | | <i>Comments: exposure 5 time can be adjusted</i> | | | | | | | |
| 6 | (8) SDSSJ1319+5202 2 | ACS/SBC, ACCUM, SBC | F150LP | | | | | 100.0 Secs [==>] | [2] |
| 7 | (8) SDSSJ1319+5202 2 | ACS/SBC, ACCUM, SBC | PR130L | | | | | 800.0 Secs [==>] | [2] |
| 8 | (8) SDSSJ1319+5202 2 | ACS/SBC, ACCUM, SBC | PR130L | | | POS TARG 0.017,0.0 | | 800.0 Secs [==>] | [2] |
| 9 | (8) SDSSJ1319+5202 2 | ACS/SBC, ACCUM, SBC | F150LP | | | POS TARG 0.017,0.0 | | 100.0 Secs [==>] | [2] |
| 10 | (8) SDSSJ1319+5202 2 | ACS/SBC, ACCUM, SBC | PR130L | | | | | 610.0 Secs [==>] | [2] |
| | | <i>Comments: exposure 10 time may be adjusted</i> | | | | | | | |



Proposal 11215 - Visit 09 - New Sightlines for the Study of Intergalactic Helium: Dozens of High-Confidence, UV-Brigh...

Fri Jan 18 09:05:04 GMT 2008

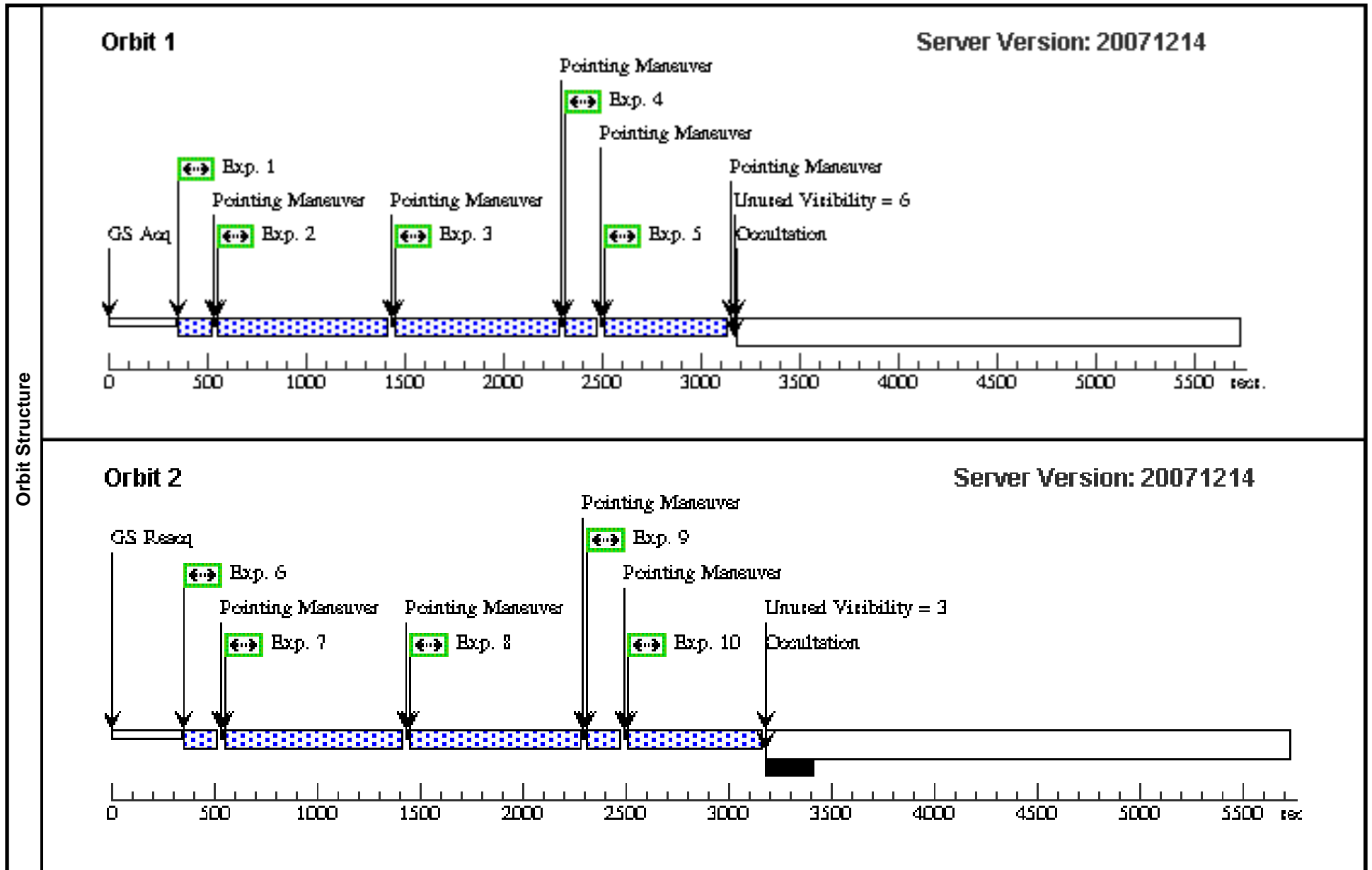
| Visit | | Proposal 11215, Visit 09 | | | | | | | |
|---------------|--------------------|--|--------------------------|--|-----------------------|--------------------|--------|-------------------------|-------|
| Fixed Targets | | Diagnostic Status: No Diagnostics | | | | | | | |
| | | Scientific Instruments: ACS/SBC | | | | | | | |
| | | Special Requirements: (none) | | | | | | | |
| # | Name | Target Coordinates | Targ. Coord. Corrections | Fluxes | Miscellaneous | | | | |
| (9) | SDSSJ1413+0643 | RA: 14 13 59.0000 (213.4958333d) Dec: +06 43 59.50 (6.73319d) Equinox: J2000 | | V=20.3 u=23.2, g=20.6, r=20.0, i=19.8, z=20.0, GALEXnuv=22.0 | Reference Frame: ICRS | | | | |
| | | <i>Comments: Brightest GALEX (GR2) sources within 0.6' radius are: FUV: no detection NUV: quasar target (m=22.0)</i> | | | | | | | |
| # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time/[Actual Dur.] | Orbit |
| 1 | (9) SDSSJ1413+0643 | ACS/SBC, ACCUM, SBC | F150LP | | | | | 100.0 Secs [==>] | [1] |
| 2 | (9) SDSSJ1413+0643 | ACS/SBC, ACCUM, SBC | PR130L | | | | | 800.0 Secs [==>] | [1] |
| 3 | (9) SDSSJ1413+0643 | ACS/SBC, ACCUM, SBC | PR130L | | | POS TARG 0.017,0.0 | | 800.0 Secs [==>] | [1] |
| 4 | (9) SDSSJ1413+0643 | ACS/SBC, ACCUM, SBC | F150LP | | | POS TARG 0.017,0.0 | | 100.0 Secs [==>] | [1] |
| 5 | (9) SDSSJ1413+0643 | ACS/SBC, ACCUM, SBC | PR130L | | | | | 510.0 Secs [==>] | [1] |
| | | <i>Comments: exposure 5 time can be adjusted</i> | | | | | | | |
| 6 | (9) SDSSJ1413+0643 | ACS/SBC, ACCUM, SBC | F150LP | | | | | 100.0 Secs [==>] | [2] |
| 7 | (9) SDSSJ1413+0643 | ACS/SBC, ACCUM, SBC | PR130L | | | | | 800.0 Secs [==>] | [2] |
| 8 | (9) SDSSJ1413+0643 | ACS/SBC, ACCUM, SBC | PR130L | | | POS TARG 0.017,0.0 | | 800.0 Secs [==>] | [2] |
| 9 | (9) SDSSJ1413+0643 | ACS/SBC, ACCUM, SBC | F150LP | | | POS TARG 0.017,0.0 | | 100.0 Secs [==>] | [2] |
| 10 | (9) SDSSJ1413+0643 | ACS/SBC, ACCUM, SBC | PR130L | | | | | 540.0 Secs [==>] | [2] |
| | | <i>Comments: exposure 10 time may be adjusted</i> | | | | | | | |



Proposal 11215 - Visit 10 - New Sightlines for the Study of Intergalactic Helium: Dozens of High-Confidence, UV-Brigh...

Fri Jan 18 09:05:04 GMT 2008

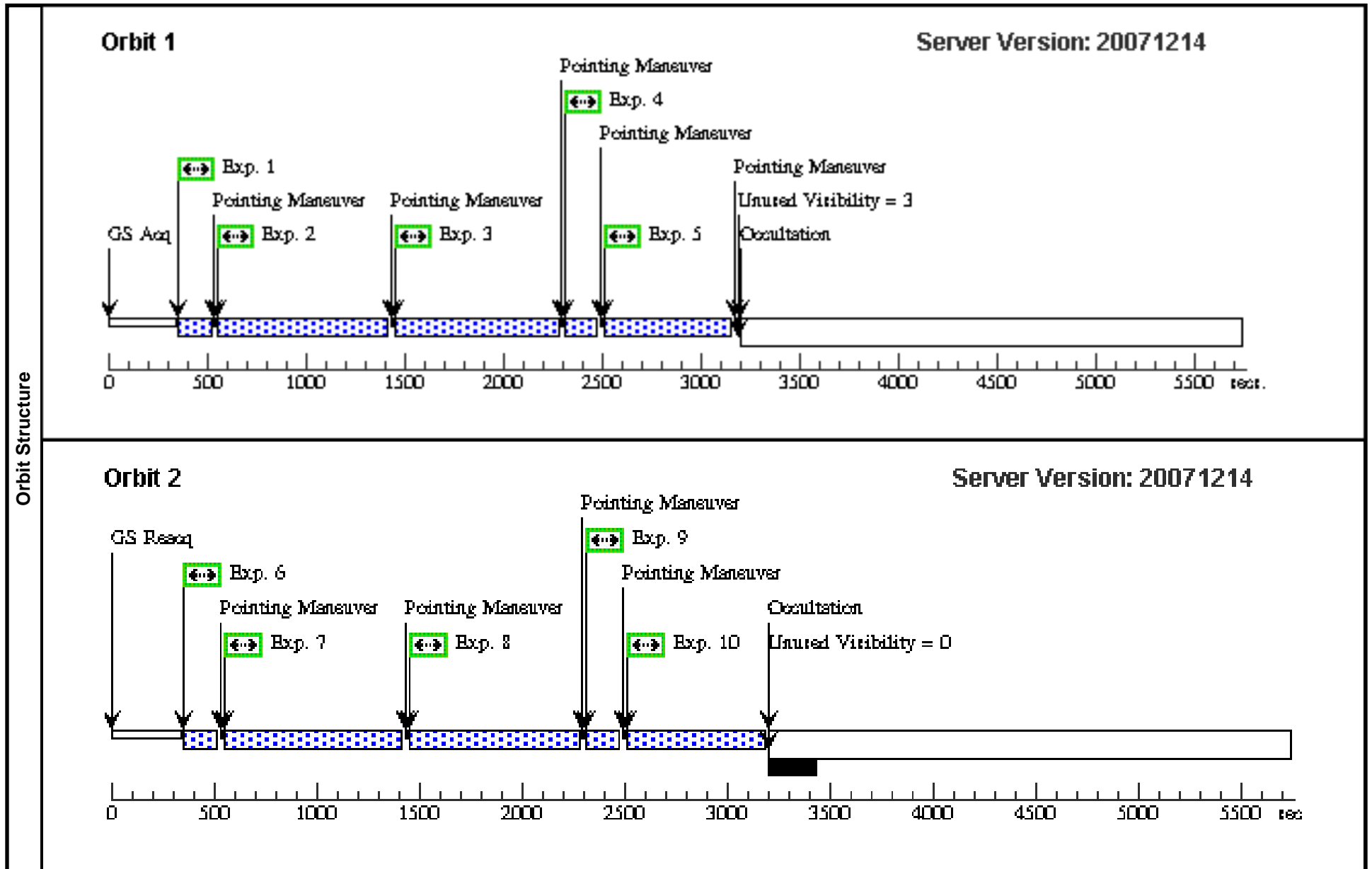
| Visit | Proposal 11215, Visit 10 | | | | | | | | | | |
|---------------|--|---|---|--------------------------|---|-----------------------|--------------------|---------------------|-------------------------|-------|--|
| | | Diagnostic Status: No Diagnostics Scientific Instruments: ACS/SBC Special Requirements: (none) | | | | | | | | | |
| Fixed Targets | # | Name | Target Coordinates | Targ. Coord. Corrections | Fluxes | Miscellaneous | | | | | |
| | (10) | SDSS1511+4957 | RA: 15 11 55.3500 (227.9806250d) Dec: +49 57 23.80 (49.95661d) Equinox: J2000 | | V=21.4 u=24.8, g=22.5, r=20.3, i=20.1, z=19.8, GALEXfuv=21.0, nuv=21.4 | Reference Frame: ICRS | | | | | |
| | <i>Comments: Brightest GALEX (GR2) sources within 0.6' are: FUV: m=19.9 NUV: m=19.0 (offset from quasar target by 0.56')</i> | | | | | | | | | | |
| Exposures | # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time/[Actual Dur.] | Orbit | |
| | 1 | | (10) SDSS1511+4957 | ACS/SBC, ACCUM, SBC | F150LP | | | | 100.0 Secs [==>] | [1] | |
| | 2 | | (10) SDSS1511+4957 | ACS/SBC, ACCUM, SBC | PR130L | | | | 800.0 Secs [==>] | [1] | |
| | 3 | | (10) SDSS1511+4957 | ACS/SBC, ACCUM, SBC | PR130L | | | POS TARG 0.017,0.0 | 800.0 Secs [==>] | [1] | |
| | 4 | | (10) SDSS1511+4957 | ACS/SBC, ACCUM, SBC | F150LP | | | POS TARG 0.017,0.0 | 100.0 Secs [==>] | [1] | |
| | 5 | | (10) SDSS1511+4957 | ACS/SBC, ACCUM, SBC | PR130L | | | | 560.0 Secs [==>] | [1] | |
| | | <i>Comments: exposure 5 time can be adjusted</i> | | | | | | | | | |
| | 6 | | (10) SDSS1511+4957 | ACS/SBC, ACCUM, SBC | F150LP | | | | 100.0 Secs [==>] | [2] | |
| | 7 | | (10) SDSS1511+4957 | ACS/SBC, ACCUM, SBC | PR130L | | | | 800.0 Secs [==>] | [2] | |
| | 8 | | (10) SDSS1511+4957 | ACS/SBC, ACCUM, SBC | PR130L | | | POS TARG 0.017,0.0 | 800.0 Secs [==>] | [2] | |
| 9 | | (10) SDSS1511+4957 | ACS/SBC, ACCUM, SBC | F150LP | | | POS TARG 0.017,0.0 | 100.0 Secs [==>] | [2] | | |
| 10 | | (10) SDSS1511+4957 | ACS/SBC, ACCUM, SBC | PR130L | | | | 590.0 Secs [==>] | [2] | | |
| | <i>Comments: exposure 10 time may be adjusted</i> | | | | | | | | | | |



Proposal 11215 - Visit 11 - New Sightlines for the Study of Intergalactic Helium: Dozens of High-Confidence, UV-Brigh...

Fri Jan 18 09:05:05 GMT 2008

| Visit | Proposal 11215, Visit 11 | | | | | | | | | | |
|--|--|---------------------|---|--------------------------|--|-----------------------|--------------------|---------------------|-------------------------|-------|--|
| | Diagnostic Status: No Diagnostics | | | | | | | | | | |
| Scientific Instruments: ACS/SBC | | | | | | | | | | | |
| Special Requirements: (none) | | | | | | | | | | | |
| Fixed Targets | # | Name | Target Coordinates | Targ. Coord. Corrections | Fluxes | Miscellaneous | | | | | |
| | (11) | SDSSJ1536+5008 | RA: 15 36 50.2500 (234.2093750d) Dec: +50 08 10.30 (50.13619d) Equinox: J2000 | | V=21.8 u=24.9, g=23.4, r=20.2, i=18.5, z=18.6, GALEXnuv=22.5 | Reference Frame: ICRS | | | | | |
| <i>Comments: Brightest GALEX (GR2) sources within 0.6' radius are: FUV: no detection NUV: quasar target (m=22.5)</i> | | | | | | | | | | | |
| Exposures | # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time/[Actual Dur.] | Orbit | |
| | 1 | | (11) SDSSJ1536+5008 | ACS/SBC, ACCUM, SBC | F150LP | | | | 100.0 Secs [==>] | [1] | |
| | 2 | | (11) SDSSJ1536+5008 | ACS/SBC, ACCUM, SBC | PR130L | | | | 800.0 Secs [==>] | [1] | |
| | 3 | | (11) SDSSJ1536+5008 | ACS/SBC, ACCUM, SBC | PR130L | | POS TARG 0.017,0.0 | | 800.0 Secs [==>] | [1] | |
| | 4 | | (11) SDSSJ1536+5008 | ACS/SBC, ACCUM, SBC | F150LP | | POS TARG 0.017,0.0 | | 100.0 Secs [==>] | [1] | |
| | 5 | | (11) SDSSJ1536+5008 | ACS/SBC, ACCUM, SBC | PR130L | | | | 580.0 Secs [==>] | [1] | |
| | <i>Comments: exposure 5 time can be adjusted</i> | | | | | | | | | | |
| | 6 | | (11) SDSSJ1536+5008 | ACS/SBC, ACCUM, SBC | F150LP | | | | 100.0 Secs [==>] | [2] | |
| | 7 | | (11) SDSSJ1536+5008 | ACS/SBC, ACCUM, SBC | PR130L | | | | 800.0 Secs [==>] | [2] | |
| | 8 | | (11) SDSSJ1536+5008 | ACS/SBC, ACCUM, SBC | PR130L | | POS TARG 0.017,0.0 | | 800.0 Secs [==>] | [2] | |
| | 9 | | (11) SDSSJ1536+5008 | ACS/SBC, ACCUM, SBC | F150LP | | POS TARG 0.017,0.0 | | 100.0 Secs [==>] | [2] | |
| 10 | | (11) SDSSJ1536+5008 | ACS/SBC, ACCUM, SBC | PR130L | | | | 610.0 Secs [==>] | [2] | | |
| <i>Comments: exposure 10 time may be adjusted</i> | | | | | | | | | | | |



Proposal 11215 - Visit 12 - New Sightlines for the Study of Intergalactic Helium: Dozens of High-Confidence, UV-Brigh...

Fri Jan 18 09:05:06 GMT 2008

| Visit | Proposal 11215, Visit 12 | | | | | | | | | | |
|---|--|---------------------|---|--------------------------|---|-----------------------|--------------------|---------------------|-------------------------|-------|--|
| | Diagnostic Status: No Diagnostics | | | | | | | | | | |
| Scientific Instruments: ACS/SBC | | | | | | | | | | | |
| Special Requirements: (none) | | | | | | | | | | | |
| Fixed Targets | # | Name | Target Coordinates | Targ. Coord. Corrections | Fluxes | Miscellaneous | | | | | |
| | (12) | SDSSJ2200+0008 | RA: 22 00 40.9100 (330.1704583d) Dec: +00 08 32.20 (.14228d) Equinox: J2000 | | V=19 u=20.8, g=19.2, r=18.9, i=18.8, z=18.8, GALEXfuv=21.4, nuv=21.3 | Reference Frame: ICRS | | | | | |
| <i>Comments: Brightest GALEX (GR2) sources within 0.6' are: FUV: quasar target (m=21.4) NUV: quasar target (m=21.3)</i> | | | | | | | | | | | |
| Exposures | # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time/[Actual Dur.] | Orbit | |
| | 1 | | (12) SDSSJ2200+0008 | ACS/SBC, ACCUM, SBC | F150LP | | | | 100.0 Secs [==>] | [1] | |
| | 2 | | (12) SDSSJ2200+0008 | ACS/SBC, ACCUM, SBC | PR130L | | | | 800.0 Secs [==>] | [1] | |
| | 3 | | (12) SDSSJ2200+0008 | ACS/SBC, ACCUM, SBC | PR130L | | POS TARG 0.017,0.0 | | 800.0 Secs [==>] | [1] | |
| | 4 | | (12) SDSSJ2200+0008 | ACS/SBC, ACCUM, SBC | F150LP | | POS TARG 0.017,0.0 | | 100.0 Secs [==>] | [1] | |
| | 5 | | (12) SDSSJ2200+0008 | ACS/SBC, ACCUM, SBC | PR130L | | | | 510.0 Secs [==>] | [1] | |
| | <i>Comments: exposure 5 time can be adjusted</i> | | | | | | | | | | |
| | 6 | | (12) SDSSJ2200+0008 | ACS/SBC, ACCUM, SBC | F150LP | | | | 100.0 Secs [==>] | [2] | |
| | 7 | | (12) SDSSJ2200+0008 | ACS/SBC, ACCUM, SBC | PR130L | | | | 800.0 Secs [==>] | [2] | |
| | 8 | | (12) SDSSJ2200+0008 | ACS/SBC, ACCUM, SBC | PR130L | | POS TARG 0.017,0.0 | | 800.0 Secs [==>] | [2] | |
| | 9 | | (12) SDSSJ2200+0008 | ACS/SBC, ACCUM, SBC | F150LP | | POS TARG 0.017,0.0 | | 100.0 Secs [==>] | [2] | |
| 10 | | (12) SDSSJ2200+0008 | ACS/SBC, ACCUM, SBC | PR130L | | | | 540.0 Secs [==>] | [2] | | |
| <i>Comments: exposure 10 time may be adjusted</i> | | | | | | | | | | | |

