



15367 - COS FUV Profile for 1223 cenwave at LP4

Cycle: 24, Proposal Category: CAL/COS

(Availability Mode: RESTRICTED)

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) WD0308-565 | COS/FUV COS/NUV | 1 | 20-Jul-2017 20:09:40.0 | yes |

1 Total Orbits Used

ABSTRACT

Obtain observations of spectrophotometric white dwarf standard star for the new cenwave 1223 in G130M at all FP-POS to determine the 2-D cross-dispersion profiles required for improved extraction at LP4. These data will also be used to determine the flux calibration of 1223.

The main requirements for this program are $S/N \sim 50/\text{resel}$, which is driven by the need for high S/N in the 2-D spectral profiles which are calculated by scaling Program 12806 1222 profiles and requiring that profile contours can be located such that flux errors are less than 1-2%.

OBSERVING DESCRIPTION

This program is a copy of program 14910, but just for the new cenwave 1223.

Proposal 15367 - WD0308-G130M-1223 (01) - COS FUV Profile for 1223 cenwave at LP4

Fri Jul 21 00:09:41 GMT 2017

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|---|---|------------------------------|---|---|---------------------------------|---|-----------------------------|---------------|--|--------------|
| Visit | Proposal 15367, WD0308-G130M-1223 (01) Diagnostic Status: No Diagnostics Scientific Instruments: COS/FUV, COS/NUV Special Requirements: SCHED 50% Comments: <i>p-flats/profiles for G130M/ 1223 Target WD 0308-565</i> Goal is <i>S/N~50/resel over majority of bandpass</i> | | | | | | | | | |
| | Fixed Targets | # | Name | Target Coordinates | Targ. Coord. Corrections | Fluxes | Miscellaneous | | | |
| (1) | | WD0308-565 | RA: 03 09 47.9200 (47.4496667d) Dec: -56 23 49.41 (-56.39706d) Equinox: J2000 | Proper Motion RA: 0.018141 sec of time/yr Proper Motion Dec: 0.0643 arcsec/yr Epoch of Position: 2000 | V=14.07+/-0.02 | Reference Frame: ICRS | | | | |
| Comments: <i>Coordinates from Charle's proposal</i> Extended=NO | | | | | | | | | | |
| Exposures | # | Label (ETC Run) | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit |
| | 1 | ACQ/IM (COS.ta.904 484) | (1) WD0308-565 | COS/NUV, ACQ/IMAGE, BOA | MIRRORA | | GS ACQ SCENARI O BASE1B3 | | 45 Secs (45 Secs) [==>] | [1] |
| | 2 | G130M/122 3 (COS.sp.905 894) | (1) WD0308-565 | COS/FUV, TIME-TAG, PSA | G130M 1223 A | FP-POS=ALL; BUFFER-TIME=20 8; LIFETIME-POS=L P4 | | | 515 Secs (2060 Secs) [==>(Split 1)] [==>(Split 2)] [==>(Split 3)] [==>(Split 4)] | [1] |
| Comments: <i>Ideal exposure time: 515/exposure (2060s). ETC Buffer: 390. 85% of buffer=331. However, n-100/m -> 208s buffer (2 reads, to minimize buffer between exposures)</i> | | | | | | | | | | |

