

HST INS Work Item Data Sheet

1. SI/Title: STIS/E-mode Sensitivities
2. INS Lead: L. Dressel
3. Description of Work:

This activity will deliver the final sensitivity calibrations for the echelle modes of STIS. This includes final reference file updates for wavelength-dependent aperture corrections, wavelength-dependent extraction size corrections, and wavelength-dependent time dependences, using all calibration data collected through the summer of 2004. The SYNPHOT component files for the echelle modes also need to be updated (the current versions are not consistent with the photometric sensitivity reference files in the pipeline; e.g., the former do not include the echelle blaze functions, only the 'envelope' of the sensitivity curves). This is a high-priority item (and has been for two years, but staff reassignments have delayed progress); current E-mode sensitivity reference files stem from 1997. This activity will also involve writing an ISR.
4. Schedule Constraints and Dependencies:
5. Risks and Open Issues:
6. Priority: High
7. Priority Justification:

Calibration is running late due to staff reassignments, and SYNPHOT component files are badly out of date.
8. Resources (including estimated calendar duration for each portion):
 - a. Requirements
STIS Instrument Scientist
 - b. Development
STIS Instrument Scientist
CDBS Administrator
 - c. Testing
STIS Instrument Scientist
CDBS Administrator
SYNPHOT Test Engineer
9. Documentation and Deliverables:

Calibration ISR
CDBS Reference File(s) Delivery
SYNPHOT Component File Updates
Test Report(s)