

HST INS Work Item Data Sheet

1. SI/Title: STIS/MAMA First-Order Dispersion Solutions
2. INS Lead: L. Dressel
3. Description of Work:

This activity involves the analysis of deep first-order MAMA wavecalcs taken in the context of a calibration proposal. Internal wavecalcs have been obtained at all primary and secondary central wavelengths. Exposure times were chosen to yield enough strong emission lines to constrain adequate wavelength solutions. Data were taken at the zero MSM offset position which is in the middle of the range covered by monthly offsets, and hence provides the best average dispersion solution. Dispersion solutions will now be derived using the recently published Pt/Cr-Ne line list (Sansonetti et al. 2004, ApJS, 153, 555). (Note that the current dispersion solutions were derived using a Pt-Ne line list, even though the line lamps used on STIS were Pt-Cr-Ne hollow cathode lamps). A new dispersion (dsp) reference file will be created and delivered. An ISR describing dispersion changes as well as the accuracy of the previously used dispersion solutions will be written and published.
4. Schedule Constraints and Dependencies:
5. Risks and Open Issues:
6. Priority: High
7. Priority Justification:
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
9. Documentation and Deliverables:

Calibration ISR
CDBS Reference File Delivery