

## HST INS Work Item Data Sheet

1. SI/Title: STIS/Rectification of Non-Dithered Spectra of Spatially Resolved Targets
2. INS Lead: C. Proffitt
3. Description of Work:

This activity is to improve the quality of 1 – 3 pixel high extractions of STIS spectra taken with gratings for which the traces are tilted significantly with respect to the CCD pixel array (especially G430M and G750M). The current pipeline extractions use bilinear interpolation which produces strong undulations in spectral extractions of 1 – 3 pixels high. This activity is expected to involve interactions with the Eta Car Treasury Program who have already implemented an interpolation routine which seems to work much better in that respect than that in our STIS pipeline. This activity will also involve writing an ISR.
4. Schedule Constraints and Dependencies:
5. Risks and Open Issues:
6. Priority: Medium/High
7. Priority Justification:
8. Resources (including estimated calendar duration for each portion):
  - a. Requirements  
STIS Instrument Scientist
  - b. Development  
CALSTIS Developer
  - c. Testing  
STIS Data Analyst  
CALSTIS Test Engineer
9. Documentation and Deliverables:

Calibration ISR  
CALSTIS Code Delivery