
Origins Space Telescope (OST)

Face-to-Face #5

Study Office

June 14-15, 2017

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Study Office Status/Plan

- Held the Kick-off meeting with Ball Consortium on April 20, 2017 at GSFC
- Completed instrument design sessions for three instruments
 - Far-IR Imaging Polarimeter (FIP) completed IDL (4/17-21): Johannes Staguhn/PI
 - High Resolutions Spectrometer (HRS) completed IDL (5/1-5): Harvey Moseley/PI
 - Medium Resolutions Survey Spectrometer (MRSS, JPL) completed Team-X run (5/8-11): Matt Bradford/PI
- Maximized space in the optical bench and Instrument Accommodation Module (IAM) to house all five instruments
 - IAM will also house secondary, tertiary and Field Steering Mirror (FSM)
- Added 20K thermal zone for the OST Observatory concept to facilitate thermal management for instruments
- Redesigned sun shields to minimize solar pressure issue
 - Sun shields are no longer flat, rather they are nested “sugar-scoop” shape

Study Office Status/Plan - continued

- Potential additional contribution from JPL is in discussion
 - JPL's active mirror concept can be the OST's Primary Mirror for the telescope
- Remaining Design Sessions for fiscal year 2017 are:
 - Instrument Accommodation Module (IAM) IDL scheduled for July 17 through 21
 - Telescope System IDL scheduled for August 14 through 23
 - End-to-End Concept 1 mission design MDL scheduled for September 18 through 27
- Plan to complete Concept 1 mission design by September 30, 2017
- Independent Technical Review (ITR) is scheduled for October 25-26 at NASA GSFC
 - OST science for Concept 1
 - Concept 1 mission design
- Interim Report due to HQ on December 15, 2017
 - OST Science and Mission Design Concept 1 are expected to be addressed in the interim report

Study Schedule

