BIAS Team
Solar Orbiter / RPW

2017-01-17, Meudon

Calibration/Data Management Status

- File skeletons: L2S LFR-E & TDS-E skeletons defined. L2S sweeps not.
- BIAS Calibration Software: "BICAS"
  - Calibrates with multiplication (no transfer functions, no offsets)
  - Handles LFR WF datasets; will soon handle TDS WF; no sweeps yet
  - ICD compliant (if ignoring CDF contents). Supported output CDFs "decent".
  - (Processes L2R → L2S as originally conceived)
  - Next steps:
    - Complete preliminary TDS processing (calibration by mult.) + some polishing
      - (special options, assertions/error detection/warnings, test cases etc.)
    - Understand and use BIAS standalone calibration data

  - Outstanding questions concerning sweep data
    - Existing datasets likely insufficient for deriving sweep data (How identify sweeps in WF data? How obtain bias currents with higher time resolution than HK? Need TC?!)
    - How will sweep datasets fit with the LL dataset pipeline? Awaiting some ROC design decisions.

Calibration Campaign Feedback

- The LFR and TDS teams have looked at BIAS transfer functions as a side effect of their calibration: seems OK
- The BIAS team is satisfied with the campaign.