Minutes for AMiBA Telecon 20101028, UTC 2:00

Regular Meeting Time: UTC 2:00 Every Thursday
USA Dial-in = 1-877-505-6247; passcode 8339148 #; mod_code 2917771 #
Outside USA Dial-in = 1 630 693 3224

- General site issue:
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- Operation on site:
  - Lab
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  - IF/LO & Rx status
    - Strange (freq. varying) noise is heard from Ant3 coldhead. Ant3 has been warmed up for exam.
    - Ant9 fringes become much weaker in recent obs, after tuned the delay. But drift-scans show some signal, so might be dish misalignment? Will check the taken radio alignment data.
  - Readout & Correlator
    - Will include the time sync check in operator's routines. A script is needed to compare time diff between CCC, TCS and GPS.
  - Observations:
    - Apply the new IT with the deformation part removed, followed by radio obs for verification.
    - Want to try 2-patch optical tracking to isolate the discrepancy in modes of pointing (tracking vs. scattered).
- Dish , Mount, Pointing:
  - Measurement of cross-talk shows the dish baffle does help by at least 50dBm. Wait for Patrick's report.
  - ccdservers were not working: files been accidentally zipped; fixed now. CCD1 didn't reply and its images are missing: Locutus will mail operators a check list.
  - The difference between two OTs with deformation removed is ~12'' rms, compared to June 500x1 (single night) data ~6''. This implies that the split pointing seems indeed to introduce some systematics. We could (a) modify aboss (standby) (b) “stretch” the hexapod before obs; the later might also help on pointing deviation near the zenith.
  - PLC errors happened in 3 nights last week. May check connections and replace the CF cards. PTC time-out occurred 2-4 times per night. Check cables and replace the hub switch.
  - Vertex todo: to install another logger to record HPC log file on next site trip.
- Platform, Deformation:
  - To be consistent with SVD solutions, Vmodel is revised to lower the correction of outer ring by half (3->1.5 times larger than the inner ring), with which photo. g. data also agrees.
  - Strain-gauge measurement has similar results as before. Need further comparison.
  - Ask Vertex for codes to calculate the reacting force.
- Data Analysis & Science:
  - Proty will provide info from his pipeline for Sandor's uvfits generation, which is required in later Miriad analysis.
- Other:
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- Beyond 13 element:
  - Platform modification
    - Current plan to monitor platform deformation is to predict with FEA model and verify with photogrammetry (few tens of orientations), plus strain gauge monitoring.
  - Calibration system
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Traveling Schedule to Hilo: (current)

- Johnson, Patrick (Mid Oct)

Traveling Schedule to Hilo: (proposed)

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