Minutes for AMiBA Telecon 20110602, UTC 2:00

Regular Meeting Time: UTC 2:00 Every Thursday
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- General issue:
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- Operation on site:
  - Lab
    -
  - IF/LO & Rx status
    - Ant1 cold head is due for replacement.
    - Ant5 previous no fringe was due to swapping of the LO cables.
    - Ant12 warmed and was going to replace the cold head. Status?
    - Ant9 RR weak, LL better. Ant9 baselines and some of Ant7, 13 are usually flagged.
    - Add another mini-LO on Ant11 (Apr. 28), need data to check for performance.
    - Ant9 has a poor Y-factor and large phase fluctuations (repeatable, not related to S/N) even after deformation correction; source of problem still unclear, could build a spare mixer?
  - Readout & Correlator
    - A script is needed to compare time diff between CCC, TCS and GPS.
  - Observations:
    - Inconsistency in antenna response to shimming & time offset in DEC scans → 1. compare with Proty's solution 2. radio-alignment of Jupiter in the daytime 3. consider TP scans
    - cluster (ex. A1689) obs @ hexpol < ±5deg which is used for pointing as well.
    - Radio pointing of hexpol=0 now reaches close to the optical residual, no more iteration for now.
    - The current IT has not included the systematic misalignment to the East and the absolute pointing error.
- Dish , Mount, Pointing:
  - Dish shimming seems to have negligible effect on radio pointing, which is good. So far Ant5, 9, 12, 13, 3, 7 were shimmed, in which the first three had no signal; 7 & 13 move to right direction but 3 doesn't; only 7 improves the fringe strength but not 13. Ant9 got even weaker fringes than that before shimming. These are based on Saturn.
  - Proty proposed to shim only some of antenna, to see how well the both pipelines would reflect.
  - “stretch” the hexapod before obs might help on pointing deviation near the zenith.
  - Vertex todo: to install another logger to record HPC log file on next site trip.
- Platform, Deformation:
  - Strain-gauge test: April run took different positions so could not be directly compared to the previous run (Sep. 2010). Ted will help look at the data.
  - The feasibility to use the laser-ranging technique? The technique can provide z-axis information.
  - 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.

- Beyond 13 element:
  - Platform modification
  - Calibration system

Traveling Schedule to Hilo: (current)
- Victor (5/23 – 6/23)

Traveling Schedule to Hilo: (proposed)
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