Minutes for AMiBA Telecon 20091210, UTC 2:00

Regular Meeting Time: UTC 2:00 Every Thursday
USA Dial-in = 1-877-505-6247; passcode 8339148 #; mod_code 2917771 #
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- General site issue:
  - Plan to replace the shelter fabric.
- Operation on site:
  - Lab
    -
  - IF/LO & Rx status
    - Ant7 warmed up but now is working. Power supply board for ant6 e.box was replaced; ant6 online now. Troubleshooting on ant9 TP is ongoing (ribbon cables).
  - RO & Correlator
    - No further delay solution available so far since we ran out of cables. Some delays are larger than 10mm and it is better to tune after the 2nd section.
    - Pierre points out that weak correlations might be due to failing corr modules. But we will investigate them later.
    - CT will look into the config file issue related with a_boss rpfits test.
  - Observations:
    - One simultaneous pointing using both OTs (200 sars) was done, but follow-up pointings (including ones with 5 hexpols using one OT) faced problems of corrupted images/idle mount. It's likely to be CCD communication; we're going to switch OT-boxes for test.
    - OT1 was focused. Both OT boxes seem to work fine.
    - We need a plan for the off-axis observation.
- Dish, Mount & Platform:
  - Misalignement has been reduced into 10 arcmin (Moon TP results, after twice shimming). Next goal is 5 arcmin using planet data.
  - The 2nd run of shimming was done on Mon, the 3rd run will be tomorrow (Fri).
  - Two DEC scans of radioalignment give an opposite misaligned direction (±5' in 1.5° scan range). Inertia? Speed? Gravity? East-West scans is proposed.
  - The encoder calibration done by Pablo seems fine, but the pointing jump @AZ=0 still indicates some mechanism problem. Our current solution is to fix OTs and generate a new IT to overcome the offsets.
  - Vertex todo: to install another logger to record HPC log file on next site trip.

- Data Analysis & Science:
  - Locutus filled in a table of radio sources for Dec. available targets (angular distance in 20'). He will separate those in 10' and try to estimate the 90GHz fluxes.
  - We will split obs time for each target into several nights (not “all eggs in one basket”). The goal S/N=8. The separation of 2 patches remains 3 min.
  - AMiBA target web needs inputs to recover the lost targets. Our first candidates will be high-z, unresolved, bright ones.
  - Proty will provide info from his pipeline for Sandor's uvfits generation, which is required in later Miriad analysis.
  - CMB result? Comet?
- Other:
  - All-team-meeting actions:
    - To see the effect of deformation from radio data -> start with Moon-TP from alignment data.
    - How to improve data analysis turn around time? Solve bottleneck?

- 13 element:
  - 1.2m dish
    - PK will exchange ideas with ??? about testing of dish cross-talk.
  - 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

- SuWei and WeiTing are working on next iteration of calibration system. Kyle will come up with the measurement goal.

Traveling Schedule to Hilo: (current)

- Ven: 11/18 to 12/17

Traveling Schedule to Hilo: (proposed)

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