Minutes for AMiBA Telecon 20110113, 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 issue:
  - AMiBA progress meeting: schedule on February 14. Need agenda.
  - Johnson and Peter are generating a document about improving the hardware maintenance at the site. Will be posted on the blog.
- Operation on site:
  - Lab
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  - IF/LO & Rx status
    - Ant6 1st section was reported to have low power. Will keep monitoring.
    - XY module: we may try noise source tests (like translation stage) to compare cross-corr & XY output.
  - Readout & Correlator
    - TS delay tuning on Ant9, 3, 2: 9-3 RR to be tuned and 9-2 LL slightly off.
    - New PSU for corr boxes: hasn't got response from Acopian. The plan B is to purchase in Taiwan.
    - A script is needed to compare time diff between CCC, TCS and GPS.
  - Observations:
    - Plan: Crab single hexpol ratio pointing, followed by multiple hexpol on different targets.
    - Need a volunteer to be at Hilo to join the site team.
    - Want to try 2-patch optical tracking to isolate the discrepancy in modes of pointing (tracking vs. scattered).
- Dish , Mount, Pointing:
  - The last pointing (IT: DR & naïve sin fitting, sign corrected) has a error RMS 0.55' at el=[40, 80] but with a feature in Y-axis. Removing the feature reduces RMS to 0.4'. It was 0.72' before naïve sin-fitting (last November).
  - Last pointing using the new IT (DR & sin pattern of residual removed) shows ~double error amplitude in the same direction. The corrections could be reversed so we will change the sign and try again.
  - 2ndaries: no update. We should focus on how to stop further peeling (thermal?) and the condition of primaries.
  - “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:
  - The feasibility to use the laser-ranging technique? The technique can provide z-axis information.
  - 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:
  -
- 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)

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Traveling Schedule to Hilo: (proposed)

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