Minutes for AMiBA Telecon 20091029, 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:
  - One new operator and one new technician will be beamed aboard on Nov. 6 & 15.
  - The shelter is being patched.
- Operation on site:
  - Lab
    -
  - IF/LO & Rx status
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  - 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.
    - Some PD were replaced and Peter will check the functionality of which were taken down.
    - 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:
    - Taking more data for radio-alignment and the offset issue in images.
    - Kyle reported an 3.3' offset (toward south) of Jupiter image taken from 4hr 2-patch tracking.
    - Currently we can't co-mount any OT with dishes since the only proper bracket was sent to a machine shop for replication.
    - The plate of the unfocused OT has been switched but not verified yet.
    - Aim to restart obs in Nov. Manpower needs to be arranged.
    - We need a plan for the off-axis observation.
- Mount & Platform:
  - Preliminary photogrammetry analysis based on targets on dishes shows small increment of the magnitude of deformation. Phase analysis (between dishes or the platform) and FEA fitting are ongoing. The targets on dish surface will be removed.
  - Vertex todo: to install another logger to record HPC log file on next site trip.

- Data Analysis & Science:
  - For the optimal redshift, Victor shows the detected flux for each baseline will increase as target's mass and redshift increase, based on the K-S model.
  - Proty will provide info from his pipeline for Sandor's uvfits generation, which is required in later Miriad analysis.
  - Kyle and Proty will figure out the procedure and data analysis for radio-alignment.
  - Guo-chin found 10-element A2142 flux ~0 at long baselines. Could be due to A2142's large core radius. Going to check A2163 next.
  - 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)

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Traveling Schedule to Hilo: (proposed)

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