Minutes for AMiBA Telecon 20110623, 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 issue:
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- Operation on site:
  - Lab
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  - IF/LO & Rx status
    - Ant4 LL is weaker, Ant9 RR some electronic problem?
    - 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:
    - Turn on the strain-gauge sensors during the real observations (flexible, can be done when there is bad weather.) Compare the reading with hexpol changes to see if it's repeatable and to find the strain sources.
    - Parallelize taking cluster data and examining the pointing model.
    - Prepare for Sun TP scans.
    - Inconsistency in antenna response to shimming & time offset in DEC scans → 1. compare with Proty's solution
    - The current IT has not included the systematic misalignment to the East and the absolute pointing error.
- Dish , Mount, Pointing:
  - tests of radio pointing of hexpol=0 and <5°: the non-zero-hexpol error (dRA) is >1' with a clear hexpol dependence and some HA dependence, while hexpol=0 dRA <0.5'. The errors right at hexpol=0 for both sets don't agree. **Conclusion: adopt hexpol=0 only** (Sandor's study had shown fewer uv coverage can be compensated by longer exposure; note the IT for this test has the same corrections for all hexpols)
  - Out of 6 shimmed dishes, 7 & 13 have better alignment but only 7 has improved its fringe strength; 3 & 5 fringe are similar; 9 & 12 are worse both in alignment and fringe (using Jupiter data). Will re-shim 9 & 12 back to the previous solutions.
  - “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)

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Traveling Schedule to Hilo: (proposed)

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ASIAA Hawaii: http://pmo.asiaa.sinica.edu.tw/Hilo%20office/
AMiBA Website: http://amiba.asiaa.sinica.edu.tw/
Distribution List:
kylin@asiaa.sinica.edu.tw, ctli@asiaa.sinica.edu.tw, dkubo@sma.hawaii.edu, homin@asiaa.sinica.edu.tw, cchan@asiaa.sinica.edu.tw, shchang@asiaa.sinica.edu.tw, pmkoch@asiaa.sinica.edu.tw, pierre@asiaa.sinica.edu.tw, ydhuang@asiaa.sinica.edu.tw, chiuehth@phys.ntu.edu.tw, hyhuang@asiaa.sinica.edu.tw, nishioka@asiaa.sinica.edu.tw, jhpw@phys.ntu.edu.tw, keiichi@asiaa.sinica.edu.tw, blog.locutus@gmail.com, mkesteve@atnf.csiro.au, raffin@asiaa.sinica.edu.tw, hueiwang@ew.ee.ntu.edu.tw,

pshaw@asiaa.sinica.edu.tw, yjhwang@asiaa.sinica.edu.tw, f87026@ew.ee.ntu.edu.tw, ho@cfa.harvard.edu, jbp@cmu.edu, swchang@asiaa.sinica.edu.tw, thc@ew.ee.ntu.edu.tw, chchang@asiaa.sinica.edu.tw, ken@asiaa.sinica.edu.tw, fabi@asiaa.sinica.edu.tw, poshiro@asiaa.sinica.edu.tw, jlim@asiaa.sinica.edu.tw, wwilson@atnf.CSIRO.AU, pablo@asiaa.sinica.edu.tw, r91222045@ntu.edu.tw, skyjadel@gmail.com, sandor@asiaa.sinica.edu.tw, wyhwang@phys.ntu.edu.tw, ssteele@sma.hawaii.edu, syli@asiaa.sinica.edu.tw, koconnel@sma.hawaii.edu, pho@asiaa.sinica.edu.tw
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