Minutes for AMiBA Telecon 20100916, 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 site issue:
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- Operation on site:
  - Lab
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  - IF/LO & Rx status
    - Ant11 IF2 has weak fringes. The power from the 2nd section looks OK. Need more investigation (pin-switch?).
    - Debugging the distribution box for cold heads.
    - Test the new compressor next week plus wiring.
  - Readout & Correlator
    - Remove delay cables (~20mm) for Ant9, both IFs.
  - Observations:
    - Dishes of Ant2, 3, 9 were removed for sun scans. Will be installed back for obs tomorrow.
    - Take more calibrator data. Preliminary analysis shows 2-patch data for the past 3 months is not consistent. Some nights data are totally flagged out by KS tests.
    - The 3rd run of 500x5 pointing after generate a new IT.
    - Want to try 2-patch optical tracking to isolate the discrepancy in modes of pointing (tracking vs. scattered).
    - More radio radioalignment for delay tuning and for at different El.
    - We need a plan for the off-axis observation.
- Dish , Mount, Pointing:
  - The split pointing seems to cause a `discontinuity' at the beginning of one section (night). Could be corrected but remain an issue possibly to affect observation.
  - The 2nd run of 500x5 optical pointing data is undergoing analysis.
  - Tracking with different hexpols by schedule scripts? Since hexpol-const always be 0 deg, and ACU only accepts skypol.
  - We may do multiple-DEC optical tracking (5 deg step) to provide samples for IT. Jump near the zenith (or across az-0?) implies overcorrection at high el?
  - Vertex todo: to install another logger to record HPC log file on next site trip.
- Platform, Deformation:
  - Strain-gauge measurement has similar results as before. Need further comparison.
  - Multi-hexpol photogrammetry data is being analyzed. The saddle amplitude changes almost linearly within hexpol=+/- 20 deg, while the angle doesn't change much.
  - Victor's model of deformation shows az/2 and az angular dependence: the latter (accounting for the 3-fold symmetry) due to 3 pairs of jacks? gravity?
  - Ask Vertex for codes to calculate the reacting force.
  - Suggest photogrammetry directly on a track of target positions, rather than a large scale survey. This is to verify how well is the phase correction of current approach, and how dense should it be.
- Data Analysis & Science:
  - Proty will provide info from his pipeline for Sandor's uvfits generation, which is required in later Miriad analysis.
- Other:
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- 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)

- Johnson (Mid Oct)

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
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