

Minutes for AMiBA Engineering Telecom 20061214, UTC 1:00

Regular Meeting Time: UTC 1:00 Every Thursday

Patrick, CT, Chia-Hou, Joshua, Johnny, Hiroaki, Homin, Johnson, Locutus, Eugene

USA Dial-in = 1-877-505-6247; passcode 8339148 #; mod_code 2917771 #

Outside USA Dial-in = 1 630 693 3224

- Missing last week's minute...., again.
- The Current Issues:
 - MLO did not dial in. Busy on getting array back on line.
 - Site update: Pablo e-mail, 20071211.
 - Problem with the mounting bolts (dish) was due to wrong torque. Indeed we were applying 25 lbft (~37Nm), instead of 25 NM. Seemed like we had been using the wrong spec on all the bolts. Would recheck when accessing the issue in the future.
 - Ted checked his file again and came up with a number of 18 NM as the correct number.
 - Broken bolt had been removed. Thread needs to be fixed.
 - Vacuum leak: We had to remove the little plate that holds the SMA feed through because one of them was very loose. We re-tighten it as that was the end of the leakage.
 - Compressor failed over the weekend. Found a damaged o-ring in the helium supply line. Had purge the entire system and cooling.
 - Su Wei and Ken have identified the problem of ant4 on the LO/IF module. Power amp in the LO chain had failed. Replaced the entire IF/LO module with a brand new one.
 - MTC: Would go ahead with the generator purchase, along with new ATS installation.
 - Power outage exercise did not take place due to other reactive tasks.
 - (1130) Pierre & Pablo will lead a power outage drill by switching off main for few (10) seconds, to evaluate the realistic situation while hexapod moving. Please be extra careful in this exercise.
 - (1130) Ken reported difficulty in installation procedure. May require design of custom tools. MT looks for manpower to work on this.
 - (1130) M1 & M2 load-cell installed. Ran into problem with M3. Mechanical interference between load-cell and truss. Pending further discussion with Ted on solution. Will test M1 and M2, plus PLC control at the moment.
 - (1026) Pierre: (no update)
 - Installation of transit voltage sensor (TVS) for surge protection.
 - (1019) Patrick: 2nd OT mounted. Ready for testing. GC will run optical pointing test.
- 1.2 m dish:
 - Spec is convergent. Opt for original size without reduction in size. Height of baffle was been intensively looked into (Patrick, CT, MTC). MTC called for another meeting next week to finalize the specs.
 - (1130) Concern on reduction in diameter in dish. Continue discussion.....
 - (1116) Some new thoughts after off-line discussion. In current design, baffle is not high enough to provide nominal optimal cross-talk blocking. Yet, increase high of baffle would add in extra weight; something that we are trying to do the opposite. Will try a concept.
 - Long (probably 1 meter in length), thin (as thin as it can be), and light weight baffle.
 - The long baffle is separated from the antenna.
 - The long baffle would be mounted on the platform. (Need some thought on how to do so.)
 - PROBLEM for compact configuration. No space for the extra baffle. Reduce the primary diameter by 4 cm? Would anyone scream for the change?
 - (1116) Patrick stressed the importance of baffle losses in RF. Would review the previous measurement result.
- (1026) New compressor to be checked out.
- (1113) Photogrammetry. No update.
 - Modeling the deformation based on the new set of photogrammetry data. (Ted &/or Philippe)
 - (1106) Ted sent out a draft report is out to Philippe for review. Would circulate once clear with Philippe.

- (1106) Michael K. stressed the importance of understand the 4-fold symmetry in platform deformation, for the future implementation of the resolution.
- (1019) Scanner system on top of the platform for near field beam pattern measurement. System is in preliminary phase. Su-wei and Eugene are working on this.
- (1019) Protty: Data server arrived. John Cheng was helping setting it up.
- Major Issues:
 - (20060517) Large temperature variation in correlator. Major problem. Resolution to be investigated.
 - (20061109) Need further work to prevent dish from damage during Sun scan.
 - (20060507) DRO & receiver overnight stability. Got measurement. DRO over night seemed OK in both phase and amplitude. MT urged everyone to look into what were the realistic numbers we were after. Would come back to this issue again.
 -
- Intermittent Issues:

Traveling Schedule to Hilo:

Ken: 10/17 – end of year

Homin: 1/2 – 1/16

Pierre: 11/16 – 12/17

Su-wei: 11/23 – 02/02/07

Keiichi: 12/2 – 12/30

Protty: 1/05 – 1/30/07 (??)

Locutus: 12/20 – 1/20/07 (??)

CT: 1/5/07 – 1/31/07

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, cti@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, kyl@asiaa.sinica.edu.tw, nishioka@asiaa.sinica.edu.tw, jhpw@phys.ntu.edu.tw, keiichi@asiaa.sinica.edu.tw, r91222042@ntu.edu.tw, mkestev@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, altamituri@gmail.com

Please contact MTC for managing this mailing list