

Minutes for AMiBA Engineering Telecom 20061102, UTC 1:00

Regular Meeting Time: UTC 1:00 Every Thursday

Patrick, CT, Ken, Ted, Johnson, Pierre, Chia-Hou, Joshua, Nishioka, Keiichi, GC, Paul Shaw, Johnny, Pablo, Proty, Paul Ho

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Outside USA Dial-in = 1 630 693 3224

- The Current Issues:
 - Pablo:
 - Bad weather lingering in the past week.
 - All receivers cooled to operational temperature ready for tests.
 - Sun scan for delay lines verification.
 - Transition stage measure for #7 baseline verification.
 - Cooling test for correlator housing.
 - Site cleanness and ordering
 - Pls keep site in order.
 - Consult with Pablo or Ted on daily tasks to be carried out.
 - Pls send future work plans to Pablo or Ted for task coordination.
 - No network and electrical issue in the past week.
 - (1026) Pierre:
 - Installation of transit voltage sensor (TVS) for surge protection.
 - Revise site electrical schematic with the TVS sensors.
 - Emergency power generator. Pierre & Pablo to visit vendor for addition of the compressors in the emergency power. Wait till Piere's arrival to Hilo.
 - (1026) Patrick: Rx-7 needs translation stage test for baseline calibration. GC and Ken will carry out the test before mounting the dish.
 - (1019) Patrick: 2nd OT mounted. Ready for testing. GC will run optical pointing test.
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- CT:
 - Analysis on count → Kevin based on hot/cold load. But the numbers from this run may need revision due to gain change in IF path. Report see log 10-28-2006
 - Work on discreet readout board with Pierre. Will generate PCB schematic in a month. Aim at 1st test at the end of the year.
- GC (1026)
 - Will verify system noise with S/N measurement in the near future.
 - Optical pointing test with 2nd OT.
 - Rx-7 translation stage test.
 - Radio alignment.
- (1026) Pablo to take inventory on vacuum parts. Purchase if needed. Please check with the recent purchase by Johnson. Shipment should be in shortly.
- (1026) Coldhead service postponed after the current receiver test. Future logistics to be plotted out by Pablo, Ted, and Johnson. (1026)
- (1026) New compressor to be checked out. Ted to forward inspection procedures. (1026)
- (1026) Ted: Analyzing photogrammetry. Preliminary data show consistent result with the previous run (one year ago). Good sign. Preliminary result should come out by next week. Philippe and Ted will generate a report with some more time.
- Plan with 1.2 M prototype.
 - Dish was measured: 91 lb.
 - Due to its weight limit, this prototype is not likely to be the antenna for AMiBA 1.2M. Not clear urgency for testing, compared with other priority. However, if time and manpower permits, would like to measure its dish temperature and supporting mechanism before mounting the 7-60cm dishes
 - CT to send out a testing plan. (please consult Patrick, MTC note.)
- 1.2m dish: Patrick's report concluded the baffle is a must. We should not reduce the height of the baffle. Another run of serendipitous brainstorming during the meeting called for a "structural baffle" (in Ted's

term", which only require modify the attachment of the quadrupod on the baffle, and leaves the primary alone. Ted to ask feasibility from Cotech.

- (1026) MTC: Pablo will be in charge of site activity and coordination. Please pass your plan and request thru him.
- Priority:
 - Get the AMiBA going on CMB observation by the end of this year.
 - 1.2 M dish.
- (1012) Paul Ho: ask AMiBA to come up with nominal sensitivity. CT is after that.
- (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.
- 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.
 - (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.
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- Intermittent Issues:
 - (20060504) ACU occasional crashes. Cause unknown. Reboot the machine would resolve the situation.

Traveling Schedule to Hilo:

Ken: 10/17 – end of year
Guo-Chin: 10/12 – 11/11
Hiroaki: 11/11 – 12/9
Homin: Sometime in Nov
Pierre: 11/16 – 12/15
Su-wei: 11/23 – 02/02/07
Keiichi: 12/2 – 12/30
Protty: 12/20 – 1/20/07
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/>

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Please contact MTC for managing this mailing list