

Minutes for AMiBA Engineering Telecom 20061116, UTC 1:00

Regular Meeting Time: UTC 1:00 Every Thursday

Patrick, CT, Ken, Ted, Chia-Hou, Joshua, Johnny, Pablo, Patrick, Hiroaki, Homin, Johnson.

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

Outside USA Dial-in = 1 630 693 3224

- There is COSPA meeting going on in Taipei. Some of the team members are attending that meeting.....
- The Current Issues:
 - Pablo has a quote for a new generator. 60 KVA. Quote only valid for 30 days. Need decision. Ted mentions we need another two competitive quotes for processing purchasing. Need discussion.
 - Johnny: Correlator cooling. Working on piping and plumbing. Would run a test soon.
 - Ken:
 - Will proceed with radio source alignment.
 - One of correlator power supply modules is dead. Need replacement.
 - Testing 1.2 M dish
 - (1109) Sun scan data taken. Transition stage measure for #7. Data taken, analysis pending. Top priority for GC and Ken.
 - (1109) Cooling test for correlator housing. Would start in few days. (Johnny)
 - 1.2 m dish on site. Handling is less hassle than expected. Lifting to the platform can be handled with three person and the cherry picker.
 - (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.
- CT:
 - Continue readout board development with Pierre. Aim at 1st test at the end of the year.
 - After off-line discussion, will proceed a design contract with ARL. Three steps toward a design: PDR, CDR, and final delivery of package. ARL shall provide design drawing, definition of components and associated vendors, etc. However, ARL must provide a more clear contract than the one just submitted.
- (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.
- Photogrammetry. No update.
 - (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.
- Plan with 1.2 M prototype.
 - Revised test plan from CT.
 - Will carry out as much tests as time allow. Best effort.
- 1.2 m dish: Ted, Patrick, & MTC.
 - 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?
 - (1106) Patrick stressed the importance of baffle losses in RF. Would review the previous measurement result.

- Some of us have a separated meeting on 11/21/2006 to discuss AMiBA preliminary science and progress. Spent quite some time discussing some details. Confirmed the following.
 - Initial science compact CMB array. (mostly likely require tracking mode)
 - Too many open question related to tracking mode, which we should sort out eventually.
 - Start with drift scan mode to observe weaker targets.
 - Patrick and Michael are working on an automatic drift scan script.
 - Set the week of 12/4/2006 as observation week.
 - Ken and GC need to work out the recent fringe data for delay line alignment.
 - Noshioka to carry out radio beam alignment.
 - Keiichi to plan out the observation plan.
 - CT to make sure of correlator operation.
 - Johnson to make sure receiver functioning.
 - Calibration: need to device a better calibration method. Saturn? Keiichi will look into this topic.
 - Johnson to work out system schematic.
- (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) Proty: 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.
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- Intermittent Issues:

Traveling Schedule to Hilo:

Ken: 10/17 – end of year

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

Proty: 12/20 – 1/20/07

Locutus: 12/20 – 1/20/07

CT: 1/5/07 – 1/31/07

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