Minutes for AMiBA Telecon 20110811, 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
*** New numbers: ***
USA Toll-Free 888-204-5987 Taiwan Toll-Free 00801-10-4304
Access code: 2151097 Host password: 6697

- General issue:
  -
- Operation on site:
  - Lab
    -
  - IF/LO & Rx status
    - Replaced Ant12 cold head.
    - Ant4 LL is weaker. Need to replace TP cards for Ant4 (zeros) & Ant1 (ch2, noisy, no sig); Ant3's TP overflowed.
  - Readout & Correlator
    - A script is needed to compare time diff between CCC, TCS and GPS.
  - Observations:
    - MS2137 is still observable, can be continued till noise approaches 2 mJy.
    - Start obs of 2 new clusters: MACS J1931 and A209. RXJ1347 is setting so we move to RCS1447.
    - Plan to obs deep blank sky to seek the origin of spurious noises and more confidence of Kyle's pipeline.
    - The current IT has not included the systematic misalignment to the East and the absolute pointing error.
- Dish , Mount, Pointing:
  - r-pointing (Jul 30 – Aug 2): DEC=-3 (-8 deg), the first 2 nights have rms 0.14' (0.24') and the 3rd night (hexpol <5deg) has 0.42' (0.5'). The first 2 nights shows repeatability. Will repeat DEC ~30 – 40 deg.
  - radio pointing: the increasing-with-hexpol error pattern should be real. (now IT corrections for all hexpols are the same.) The IT corrections follow the r-pointing error trends, but with a different amplitude making the r-pointing rms increase.
  - “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 data needs to be combined with pointing logs to see if there is difference between hexpol=0 and <5deg strategies.
  - 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:
  - On-site data quality check (noise, planet S/N): John will upgrade MonPC to solve the software dependency of the analysis tools. Instructions/docs + telecom will be prepared for operators.
  - Update on the observed clusters: 4 finished (2 ~10σ, 2 >5σ with longest integration), 4 being integrated, in which the deepest one MS2137 reaches noise ~3 mJy but the signal is still week (maybe <10 mJy). The effective obs efficiency ~ 15% total obs time, with which the noise level does scale.
  - Ant9 RR is often flagged out. Some baselines' noise weights are poor and we need to exam on this. The current weighting scheme is pursuing high S/N so with loss of efficiency.
  - Enough time for A2261 and MACS J2129. To know the depth of integrations relies on the preliminary analysis and the time constraints of targets. We want to have as many targets as possible.
  - Collaboration? AMiBA's follow-up to CLASH may at least one year. RCS candicates?
  - A1689 maps: in visibility we found the longest 2 baselines have 10x lower weighting and spurious noise, which can't be easily detected in image (Kyle's current flagging scheme). Kyle will check how much influence there is in other targets, and may

modify his pipeline to adopt visibility flagging.
    - Proty will provide info from his pipeline for Sandor's uvfits generation, which is required in later Miriad analysis.

Cluster (till 11/08/16)	on-src time (min) in the past week	Total on-src time (min)	% of data analyzed
A1689		456	More than 80% data has been roughly looked by Kyle. Further detailed analysis tasks has not been distributed, of which the progress will be logged here.
MACS J2129.4		1326	
RXJ1347		393	
A2261		1344	
MS2137	216	1206	
RCS1447	135	459	
MACS J1931	216	567	
A209	108	432	

- Beyond 13 element:
    - Platform modification
    - Calibration system

Traveling Schedule to Hilo: (current)

-

Traveling Schedule to Hilo: (proposed)

-

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
Please contact MTC for managing this mailing list