

## PAF Meeting Notes

1-28-14

**Attending:** B. Shillue, R. Fisher, M. Morgan, M. Mcleod, M. Shannon, S.K. Pan, S. White (GB), Bob Simon (GB)

First meeting of 2014

Anish is on travel but working from 21 Jan—31 Jan

### Status items:

Anish is working the data from the Dec GBT PAF observing, and the receiver is in the OTF and cold.

Bill reported that he forwarded a budget rework to PMD and fiscal and there was \$195K M&S requested to support the work on the major POP areas: LNAs, digital DC, backend, modeling, software, L-band receiver, and modular FE R&D. Further commenting that the immediate priorities are LNAs and digital DC

Rick commented that he would like to spend a couple of months “digging into the data.” This generate a lot of discussion about what his means, and what can be gained. Something about looking at the individual cross products to see if we can understand what is really going on and check against our model. Further benefit can be to make the analysis less black box and more transparent, with the goal being to write this up in a way that everyone can understand.

Anish Roshi was not present at the meeting but sent an email as follows:

*Update on data analysis*

*-- fixed and tested the phase correction program.*

*-- Developed a beamforming program in python. Testing not yet complete*

### Further Discussion

The idea of having a one-day discussion with GBers coming to Cville was agreed upon, to discuss the instrumentation initiatives:

**LNAs:** what will be done, by who, on what schedule...design, build, test...

**Digital DC:** status, look ahead schedule, construction and testing, interfaces with receiver

**Data Analysis:** more discussion of Rick’s idea to pull apart the data

**R&D:** discussion of cryogenics, windows, cooling the dipoles, possible R&D for simplification, efficiency, reduced, cost, modularity, splitting the element phase centers...

**Action:** Schedule GB-CV f2f meeting in Cville week of 2/3—2/7