

JUC meeting, 23-04-2015, 13.30, Arpad's room

present: Jonathan, Harro, Des, Arpad

Des: checked UV coverage match between SFXC and UB results. They match! Then checked amplitudes. They do not. Harro will investigate

Arpad: how about phases. Need full check of all phases, with Sergei noise figure, all basebands, whole timerange, per source. Documented! Harro on it.

Arpad: how about Tr jump. Des will change order of telescopes, see if it moves with telescope. ***day after, jump not to be found in new set of data....

Des is working on 32MHz support, multiple UBs.

Some discussion on multiple system.h files. As long as they live only on unictl, should not be a problem. Need safeguards to ensure right personality is loaded. Anyway, not terribly hard to change this system later if needed. Stays as is.

Des is now using a command line flag to select config. Will need different config for different UBs? Different FNs per UB? Des going back to drawing board.

Jonathan: 32MHz: weight are now behaving better. Still not quite clear where freq bins are. Errors in pipeline (6 clocks off in simulation) (???) Scaling might be wrong. Clearly in the middle of picking off problems one by one, very hard to say how long it will take but progress.

Des: next version of control code will be operator-friendly, also need work by eBob. ETA before summer.

Arpad: need to compare smoothed vs non-smoothed results, vs SFXC. SFXC of course now uses new smoothing, Harro to talk to Mark about differences. Anyway, need to solve amplitude problem first of all.

Arpad: on the fly freq smoothing. J2ms2 can do that. Maybe should also run on AriBox. Harro will consider options.

Jonathan will make new lower resolution version at some point, but quite a bit of effort. Would simple smoothing inside UB maybe be a temporary solution? Danger that although it is simple it will sidetrack us for months until it really works, while the time could have been spent on a correct

solution instead. Jonathan will think of the time involved in such a temporary solution.