

## Internal JIVE BlackHoleCam meeting

**Date:** 2 July 2015, 13:30 in Arpad's office

**Subject:** pipeline WP, simulations WP

**Present:** Arpad Szomoru, Des Small, Mark Kettenis, Ilse van Bemmell

Ilse reports on the successful workshop in Leiden. A report on the discussion and recommendations has been sent around to the participants and stakeholders. It was well received.

She also mentions the ongoing work on the MeqTrees simulations, for which Pim Schellart (IMAPP, Nijmegen) is currently the designated programmer. Pim is visiting and talking to other MeqTrees developers who are here for another meeting. At the end of the day, everyone is well up to speed.

For the pipeline it is discussed how to proceed wrt the contact with NRAO. The design document should be short and concise if we want NRAO to give it the attention it needs. Ilse is working on this, with input from Mark and Des.

Mark reports on the status of the CASA calibration of EVN data. The previous work done by Stephen Bourke can successfully translate AIPS calibration tables into CASA, though it required a fix to upgrade the tables to the current format. The delay from the AIPS CL table can be applied in CASA, but there are problems with the rate.

Mark has discussed the wishes for an improved CASA table format with Dirk Petry (ESO CASA developer). The basic tools required for setting this up could be in the next CASA release. That would enable the generation of a CASA calibration table that can store both delay and rate.

Des has read through the HOPS source code, and discovered that the fringe finding itself is not following the Alef-Porcas method. This was probably done in another layer of scripts around the HOPS fourfit module. Mark points out that fringe finding has several levels: the basic search for a fringe on each baseline, then a refining step to improve signal to noise (make a global fit, narrow the window), and finally the application of ad-hoc phases as discussed in the workshop (e.g. apply LCP phase corrections to RCP).

**Next meeting: August 27, 13:30, Arpad's office**