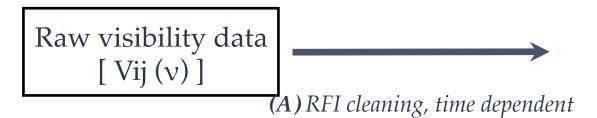
PAON news

J.E Campagne & R. Ansari 18/12/14

The 45m-dishes are now operational (currently 18/12/14 DAQ on CygA transit)



2 ortho-polar per dish, 36 visibilities done offline for the moment after FFT done online (1250-1500 MHz, 4096 bins) at 1kHz trigger. Soon server machines will compute the visibilities online.



Cleaned/compressed visibility data[Vij (v)]

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(B) Calibration on point sources

gain/noise monitoring ...

Calibration data (gain,phase)
Beam, Tsys
Cleaned / calibrated [Vij (v)]

Calibration data (gain,phase)
Beam, Tsys
Cleaned/calibrated [Vij (v)]
Array configuration

(C) Map making

3D sky maps $I(\alpha, \delta, \nu)$ Synthetized beams noise maps ...

(D) Component separation Foreground/signal maps and power spectrum ...

- * (A): Cleaning raw visibility data (RFI removal, time dependent gain / Tsys monitoring, data compression (rebinning in time)
- (B): Relative gain/phase calibration using single bright point sources - should be then extended to the use of multiple point sources. Will also provide single dish+feed beam response and Tsys
- (C): Map making 3D intensity map reconstruction
- The software modules being developed could be applied also to Tianlai data

Qizhi Huang will contribute to (A), (B)
Currently he is playing with PAON2 data

Jiao Zhang have been working on C