Amas@Nançay

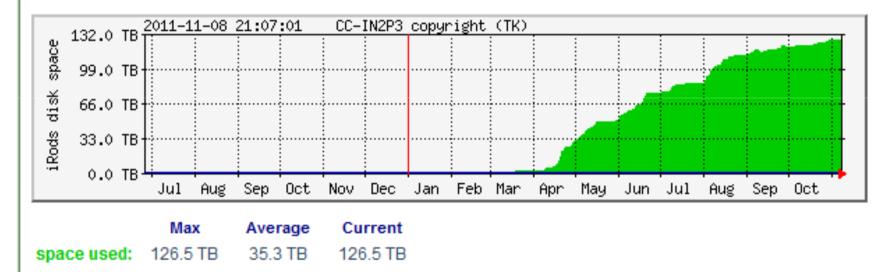
Ana Torrentó & JE Campagne LAL-Orsay 9/11/11

Data acquisition

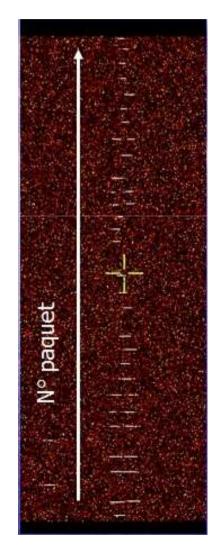
- 2 polarisations at the focal plane of the Radiotelescope at Nançay, equipped with the BAO-Radio electronics [1250-1500] MHz
- 1st tests in July 2010: UGC4358 & 3C227/3C286
- Observation time: >60h Q1&2 of 2011 on Abell1205, Abell2240, Abell85. System tests: Jan-Mar 2011. Fully operational since April 2011.
- Data Transfer on Irods @ CCIN2P3: 125To
- Semi-automatic analysis ongoing: band cleaning, spectra ON-OFF.
- Goal: suppression of RFI, sensitivity, HI signal of Abell85 and if possible the other clusters...

Irods

Yearly graph (1 day average)



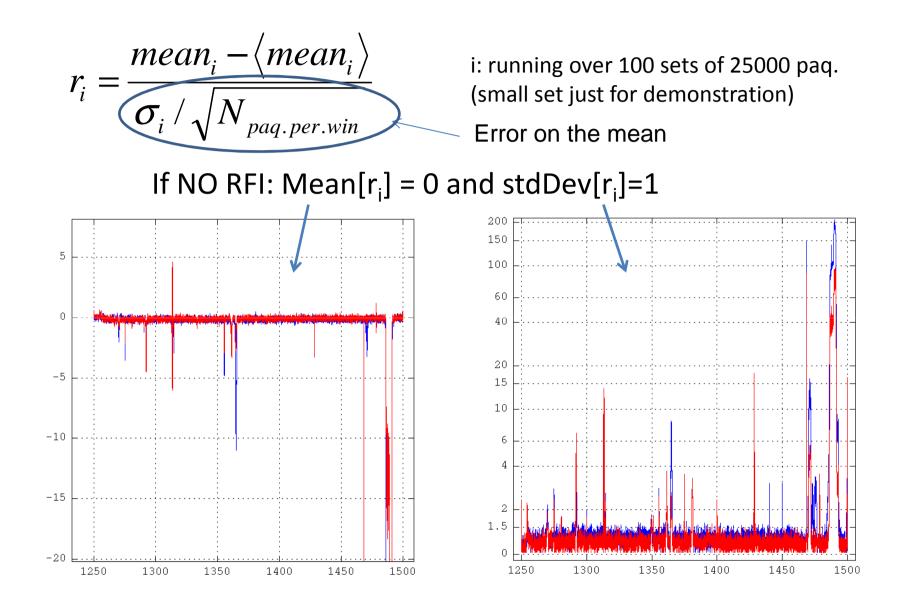
Time-frequency analysis



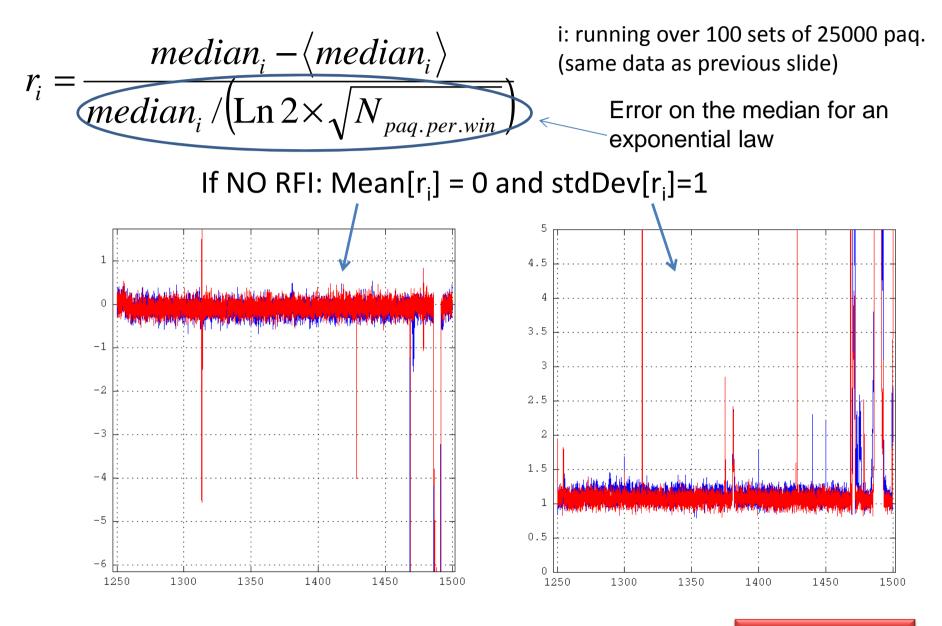
Acquisition rate 8~10kHz Bandwidth [1250-1500]MHz Binning ~30kHz (FFT on the fly)

Example of a RFI

PRELIMINARY RESULTS...



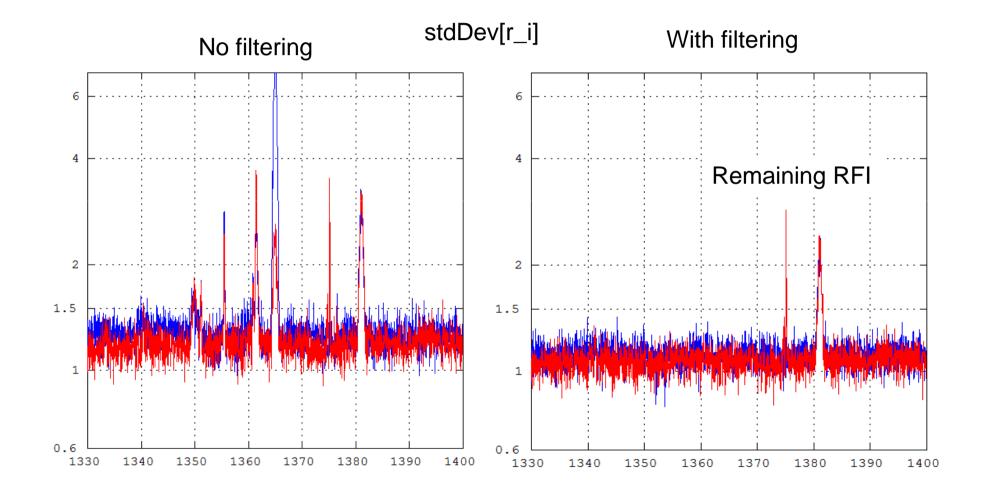
Ch 0 (1) : blue (Red)



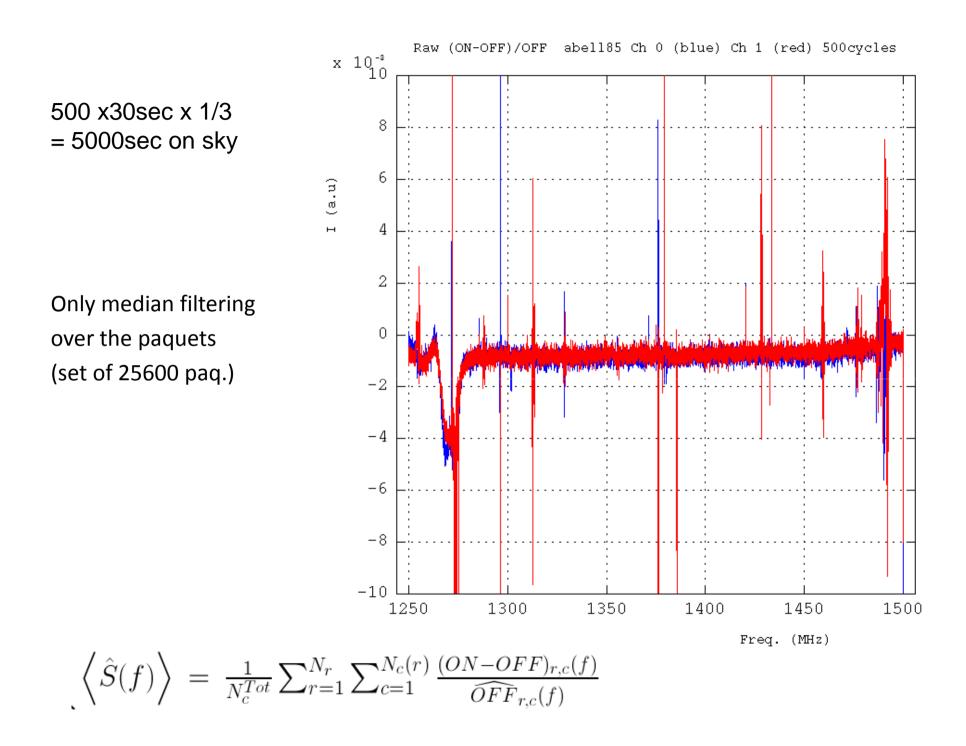
Ch 0 (1) : blue (Red)

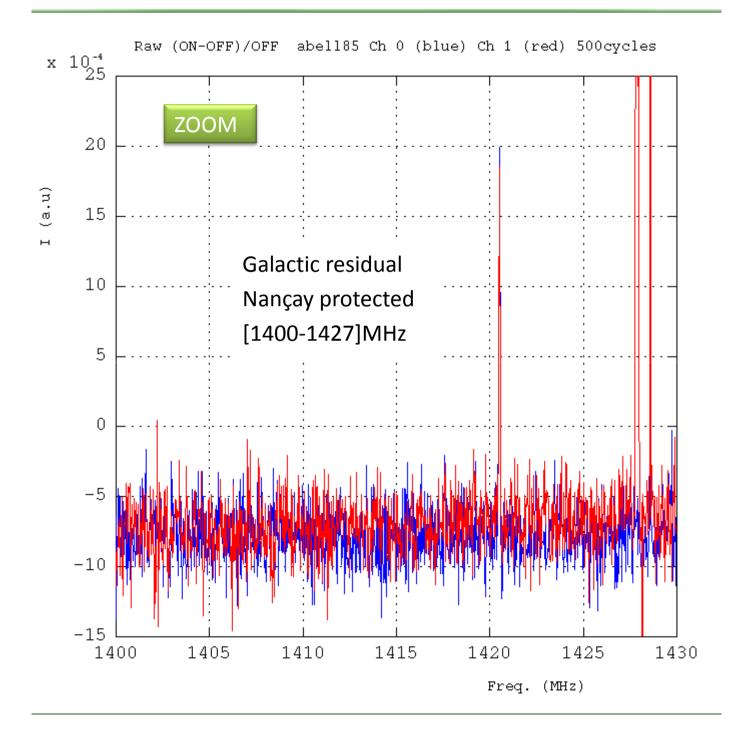
Mind the Scale

Comparison of the 2 methods

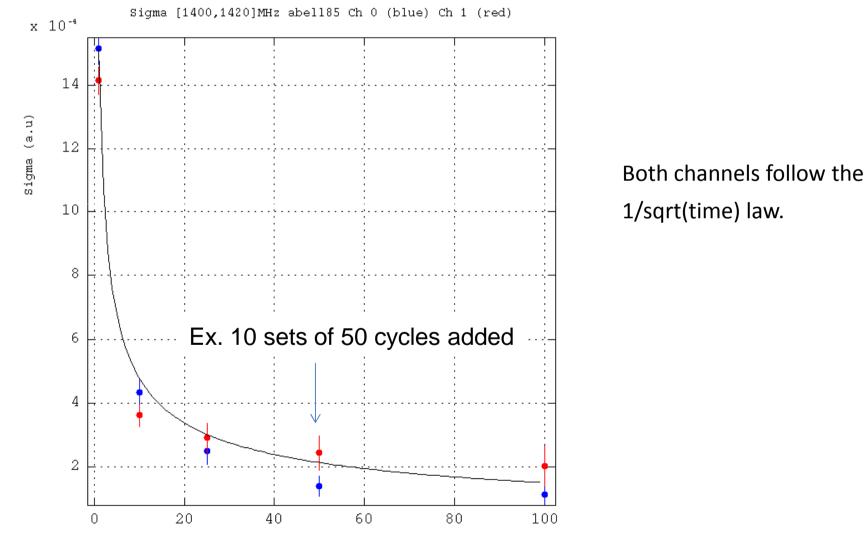


The cleaning seems to work...





Sigma evolution in the protected freq. Zone [1400-1420]MHz after 500 cycles



num of cycles

BACK-UP

