News de Paon4

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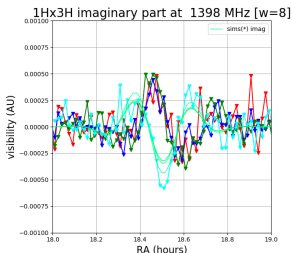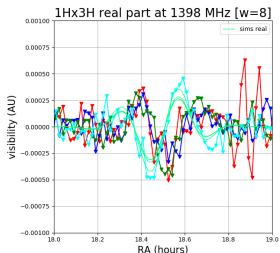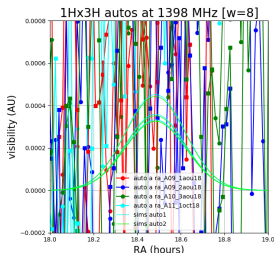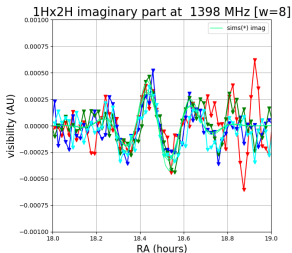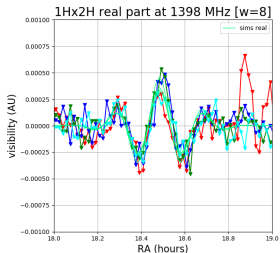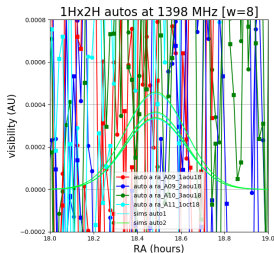
Réunion PAON4
17 avril 2019

New/remaining problems

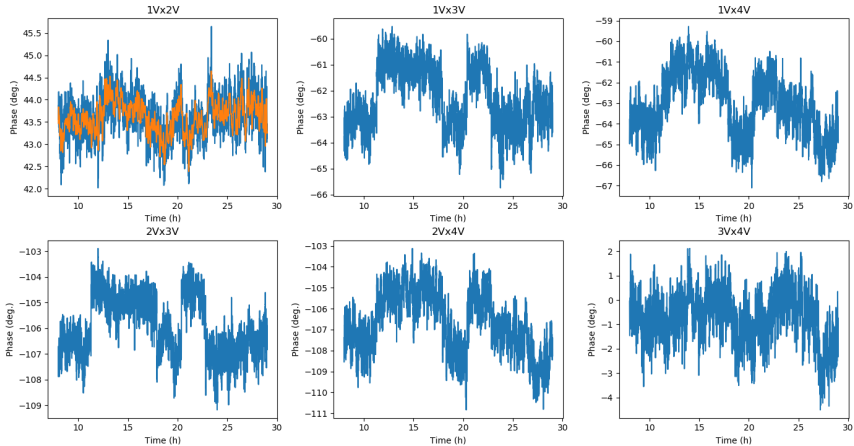- some evidence for relative mis-alignment between dishes (of order $\lesssim 1$ degree in azimuth)
- Relative (electronic) phases instabilities :
    - trigger signal "propagation" in/between boards not well understood
    - DAQ soft now "synchronizes" data samples
    - ensures internal phase stability but some "jumps" from one day to the other (daq started each day)
    - checked by injecting single frequency signal
    - attempt to monitor phases with satellites but ... not enough "good" data/day
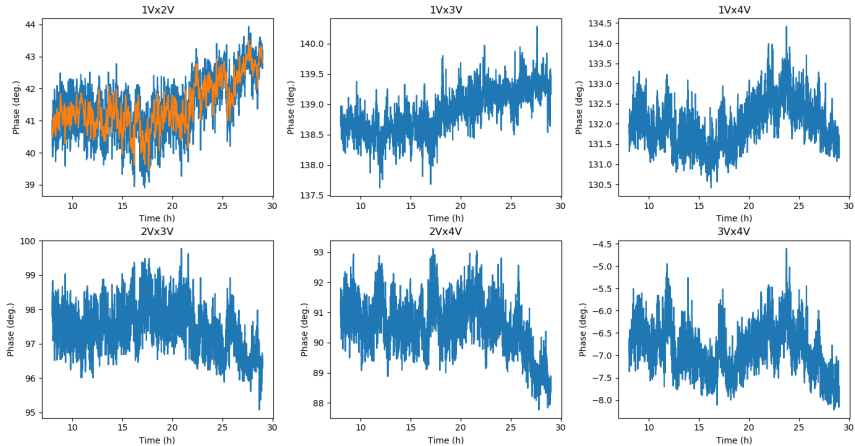
3C380 observations : phase shifts ?
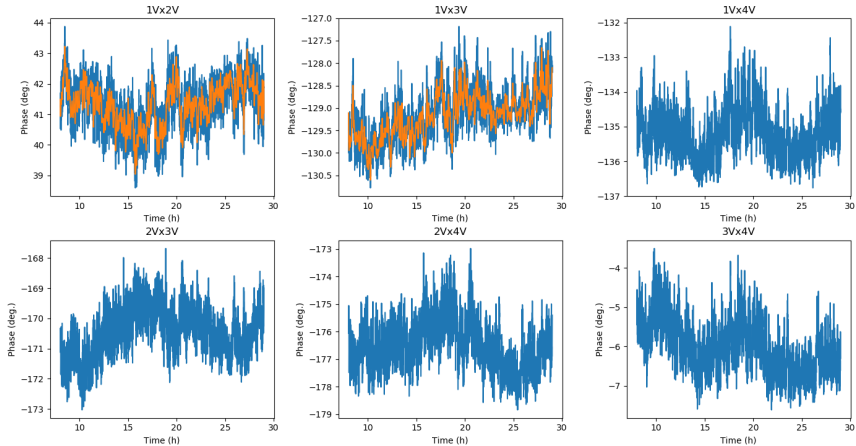
phase from external signal
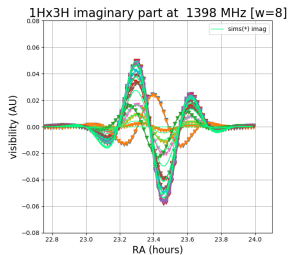

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phase from external signal

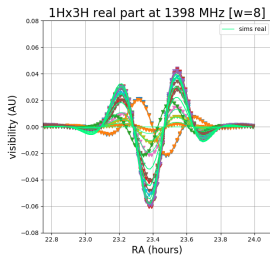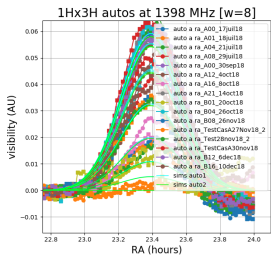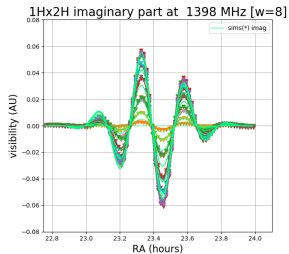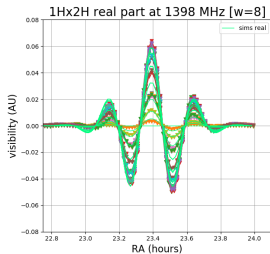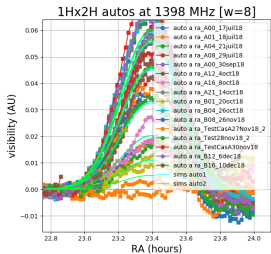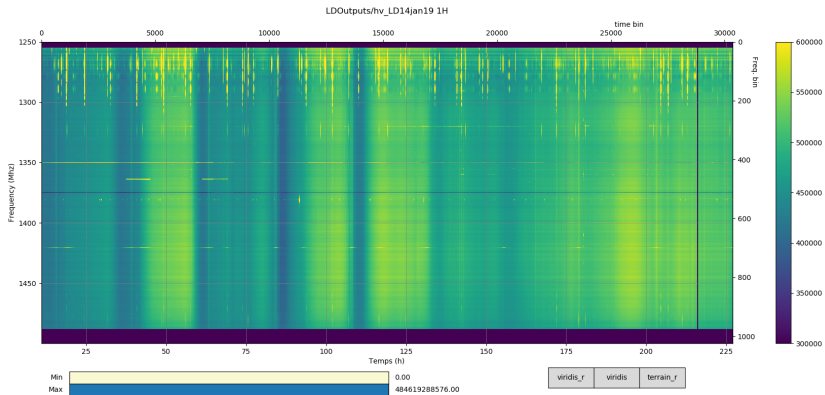# phase from external signal

CasA observations

New (long) data

- ~ 10 day data taking w/o daq stop (14-24 january)
- several elevations (CasA, CygA, Crab and VirA)
- objectives :
  - set up a "pointing model" for each dish
  - measure phases from the combination of (as many as possible) satellite crossings
- work in progress : gain drift correction, satellite identification, handling solar system objects (e.g. the Moon !) ...

tf maps (auto)

tf maps (cross-correlation)