

Radio observatory report and current LOFAR issues

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LOFAR status meeting 20090401

- 1 Observatory status
- 2 Status of issues
- 3 Observation queue

System

- Observation tracker in use
- TBB software on stations/CEP modified
- BG/P down after power failure Friday 27 March
- BG/P back up this morning, but correlator software installation still needs to be verified.

Observations

TBB busy week in progress
Signal path stability tests

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- nothing that I am aware of...

Bug list ((almost) EXPLAINED)

- Signal paths of even RCUs can jump between a high and low state (LBL/LBH switch broken (by ESD?). ew RCU: ESD diode, and no trafo's. Needs more research. Switches are of same type as faulty HBA delay boards. Why only even RCUs: unexplained.
- Phase jumps in waveform generator test at 200 MHz clock (Eric Kooistra)
- Non-hermiticity in ACM blocks of intra-RSP board visibilities in waveform generator tests (Eric Kooistra, will be fixed in RSPDriver)

Bug list(OPEN)

- Very strange, possibly internal RFI (Pandey dataset)
- TP variations/ionospheric absorption (Ger de Bruyn)
- No fringe at long baselines (James Anderson, Jean-Mathias Griessmeier, Nicolas Pradel)
- CS010 unreliable/needs repeated commands before settings “stick” with RCUs
- Unstable signal paths
- AC oscillations Pandey (nobody working on this)
- AC dips (Michiel Brentjens, useful data taken in previous psr busy week)

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Observation queue