

Radio observatory report and current LOFAR issues

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LOFAR Status Meeting 20090930

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

System

- BG/P and new cluster ready for direct streaming
- 48 MHz bandwidth from Effelsberg

Observations

Imaging busy week

HBA monitoring Stefan Wijnholds

northstar problems specifying/copying targets/observations; We are aware of the problem and working on a solution. Further announcements will be made either on the Northstar system (<http://lofar.proposal.astron.nl>) or via the proposers' email list.

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Bug list (SOLVED)

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Bug list ((almost) EXPLAINED)

- Signal paths of even RCUs can jump between a high and low state (LBL/LBH switch broken (by ESD?)). New 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, Brentjens) Test observation in queue.
- Non-hermiticity in ACM blocks of intra-RSP board visibilities in waveform generator tests (Overeem, Kooistra, will be fixed in RSPDriver)
- No fringe at long baselines (James Anderson, Jean-Mathias Griessmeier, Nicolas Pradel)
- HBA AC oscillations (Wijnholds)

Bug list (OPEN)

- Occasional timestamp jumps of 1 in CS302/RSP0 data sent to CEP. Due to CRC errors? (Kooistra, Romein)
- Steps in delay w.r.t. Nancay
- TP variations/ionospheric absorption (Ger de Bruyn)
- AC oscillations Pandey (nobody working on this)
- AC dips (Michiel Brentjens, PSR group. Useful data taken in second psr busy week)

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- TBB observations
- Short 48 MHz Effelsberg observation