

# The LOFAR phase II cluster update

Chris Broekema

On behalf of  
Harm Paas (RUG), Teun Grit, Arjen Koers (RUG) and André  
Gunst

# Current status

- 98% of the nodes have been installed
  - Few broken nodes need replacement parts
    - One blown PSU, three nodes -beeping-
  - Two nodes still underway
- IPMI network operational in all nodes
- GbE network operational
  - Including jumbo frames
- OS running on all nodes
  - 92 at last count

# Current status

- Layer 3 configuration defined
  - Partly implemented, issues still remain
- Path Blue Gene/P → cluster works
  - Currently requires config by hand on BG/P
  - Limited bandwidth (router nodes)
- We can control the nodes from our desks
- Almost ready to start commissioning

# Still to do

- Infiniband network
  - Configuration by hand works, needs to be rolled out
- Layer 3 network issues
- Homedirs, /opt/lofar tree, etc.
- Increase available bandwidth ZB → LL
  - Will probably be gradual
  - Will start out higher than phase I can handle
- Testing, commissioning, acceptance tests
- Make design document :-)





# Final words

- Cluster under control of our install system
- Remote power mgmt via IPMI
- (almost) all nodes available from our desks
- Core s/w stack rolled out
  - Moving on to homedirs and LOFAR specific stuff
- Low bandwidth tests by the end of the week
- Still on schedule for operations in April