Multi-Beam LBA Pulsar Observations

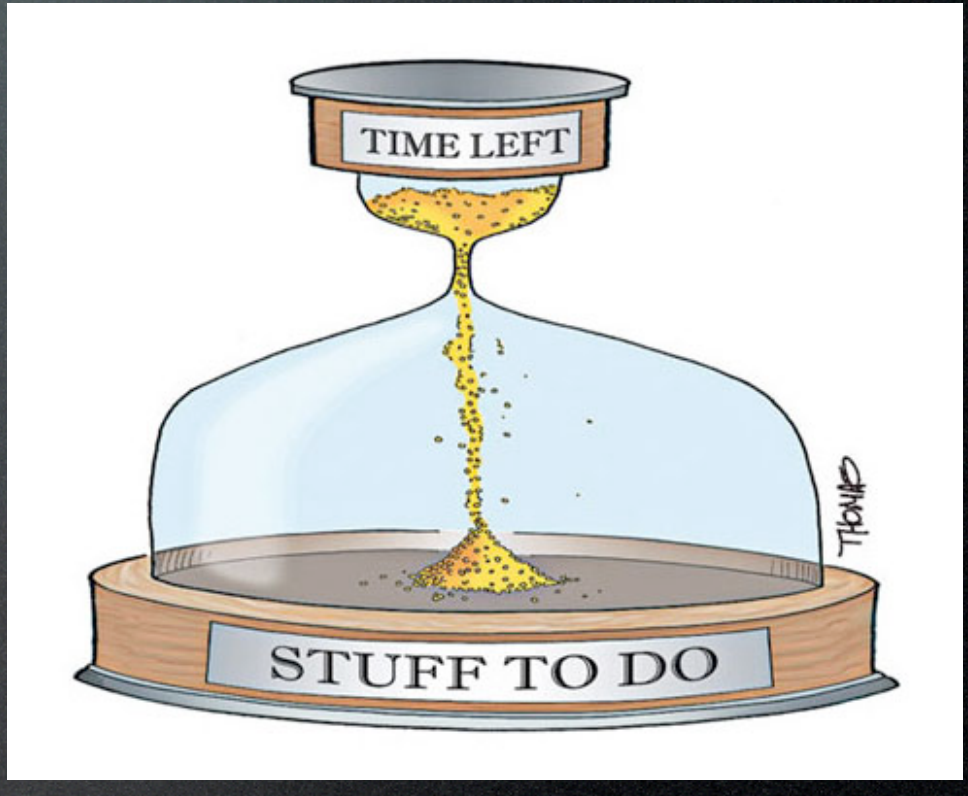
Jason Hessels
on behalf of
Ken Anderson, Aris Noutsos, Aris Karastergiou, Ben Stappers, Anastasia Alexov, Vlad Kondratiev, Tom Hassall, Thijs Coenen, Sander ter Veen, Joeri van Leeuwen, Ashish Asgekar, and Jan David Mol

Prettige kerstdagen en

een gelukkig nieuwjaar!

LOFAR New Year's Resolutions

- More taart (i.e. nice results).
- More short LSM presentations about observational and reduction results.
- Communicate more between groups.

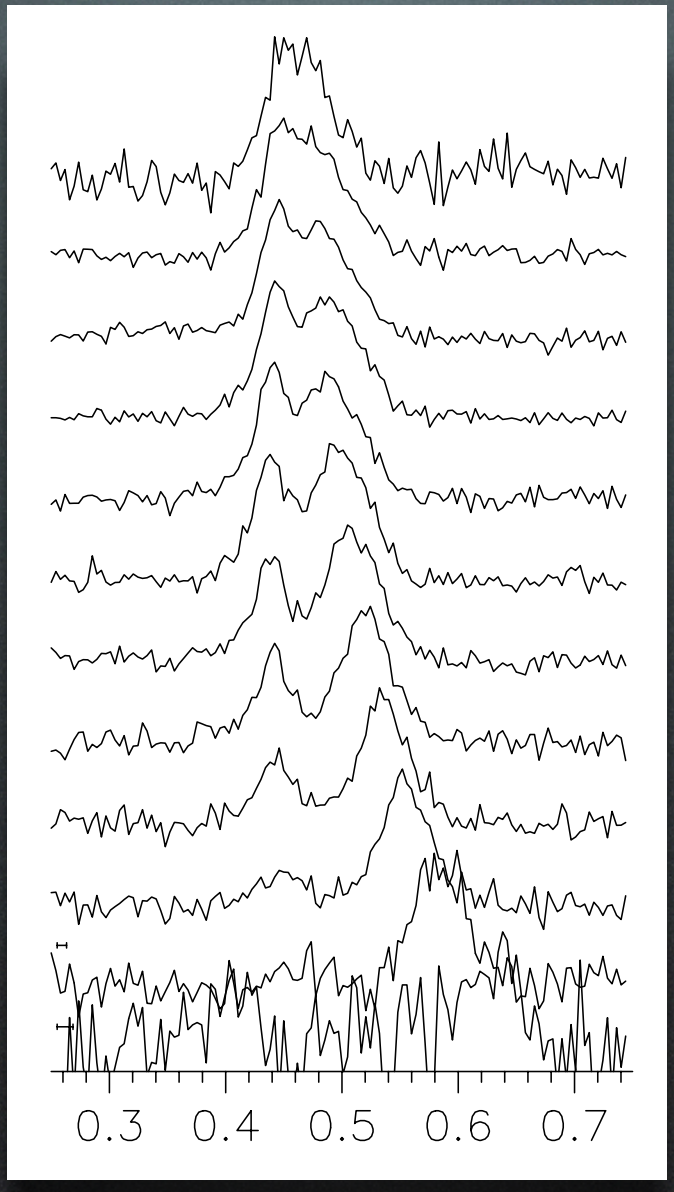


Plans for the near future

From 101124 LOFAR Status Meeting

- More < 30 MHz observations.
- Try to get a 10-16MHz detection.
- 4 LBA observations simultaneously.
- FR606 first light.
- HBA calibration tests.
- HBA1 tests.

First LOFAR Pulsar Detection <30MHz!!!



PSR B0809+74 detected all the way down to 16MHz!

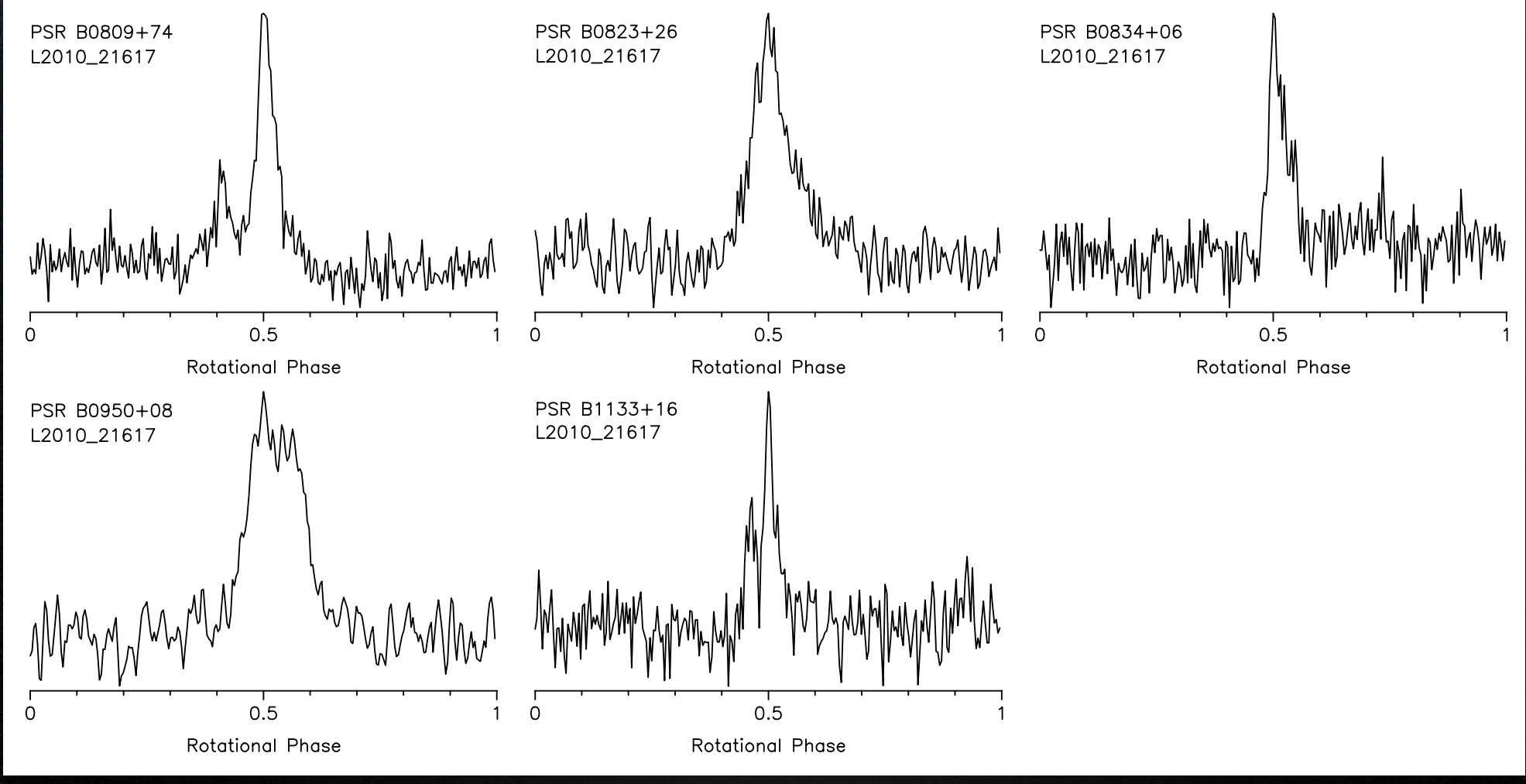
L2010_21617: 6-beam LBA Observation of 6 pulsars

Motivations

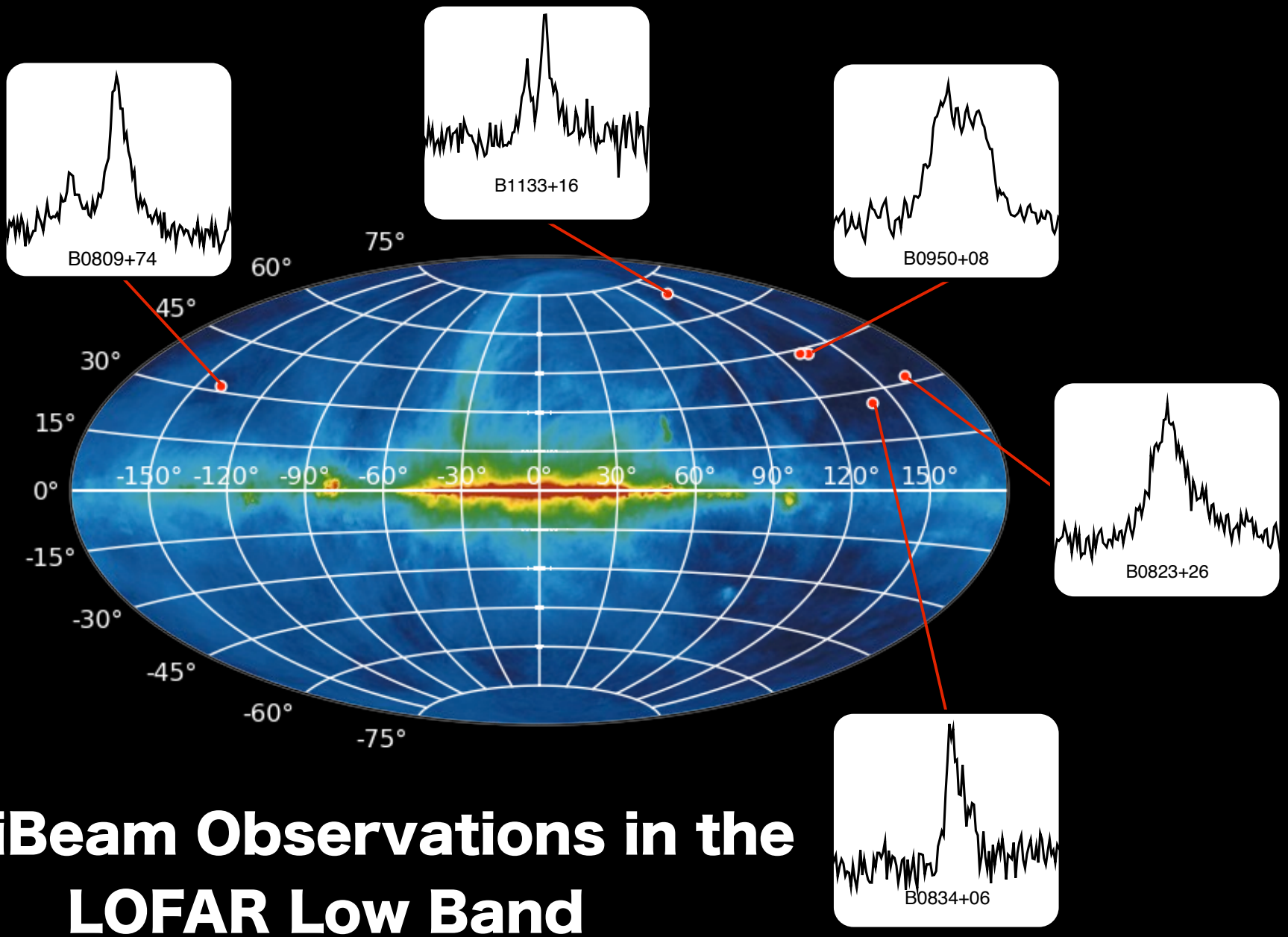
- More < 30 MHz observations.
- More efficient use of telescope/observe time.
- Demonstrate capability for AAVP meeting.

5 Pulsars Observed Simultaneously

(Low-Band Antennas: 24-32MHz)



NB: These sources are truly spread across the observable sky!



MultiBeam Observations in the LOFAR Low Band

Courtesy: Tom Hassall

Haslam 408 MHz map courtesy of LAMBDA