

Hobart DiFX correlator and AuScope

DiFX correlator

- 6 PCs each with
 - 2 x quad core Xeon 5335 2.0 GHz
 - 4 GB RAM
 - 1 TB storage
 - GPU: GF8500GT
- Current use
 - Ceduna-Hobart Interferometer (CHI) for UTAS VLBI experiments, out-of session system tests
 - Pulsar data (Jim Palfreyman & Aidan Hotan)
- Future use
 - Interferometry 14m to 26m at 256 Mbps
 - AuScope fringe-checks
 - Interferometry with Hobart 26m and 12m
 - Single-dish spectroscopy?

AuScope VLBI Project Update

- see the [AuScope VLBI web page](#) and some photos on [Flickr](#)
- Antennas: Patriot 12m
 - Hobart antenna installation April to end of May 2009.
 - Foundations to go in in 2 weeks time.
 - New generator, power dist changes
 - Small addition to control building for masers
 - Katherine installation: Aug-Sep 2009
 - Geotechnical survey soon
 - Yarragadee installation: Oct-Nov 2009
 - Site chosen
- Aim to have a full system ready to test at Hobart shortly after installation.
- Masers
 - have arrived in Australia, shipping to Hobart this week, due Monday
 - Technicians from Vremya visiting for 3 weeks from Nov 7
- Receivers
 - S/X room temp system under construction by Peter McCulloch. Making good progress.
- Back end
 - One Italian [DBBC](#) system on order, due at end of this year
 - Three Mark5B+ units on order, due about the same time
 - PCFS
 - Weather station
 - CNS Clock for Maser-GPS comparison
- Operations
 - Operation room at UTAS to start construction soon

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