

Large European Array for Pulsars

Coherently adding radio pulsar signals from large European radio telescopes (*Effelsberg, WSRT, Nançay, Sardinia, Lovell*). This tied-array telescope is used to increase the sensitivity of pulsar timing for the detection of gravitational waves.

Jodrell Bank digital pulsar backends

Involved in the development/operation of two new digital pulsar backends capable of baseband recording and coherent dedispersion of pulsar signals.

ROACH @ Lovell: 512 MHz bandwidth at 1532 MHz using a 34 node computer cluster. Daily coherent dedispersion of 400 MHz BW for pulsar timing, baseband recording of 128 MHz BW for *LEAP* (monthly 24 h sessions).

COBRA2 @ 42ft: 10 MHz bandwidth at 610 MHz. Daily coherent dedispersion of a dozen bright pulsars. Includes 10 hours on the Crab pulsar (both folded and a giant pulse search).