

## **Radio transients and the next generation of wide-field searches**

*Thursday, 25 April 2013 15:35 (30 minutes)*

The domain of impulsive radio transients is largely unexplored. Recent improvements in computational power and telescope field of view are opening up the parameter space potentially inhabited by many kinds of impulsive radio phenomena. In this talk I will describe some of the prospects for this field, as exemplified by the discovery of several bright high-dispersion measure extragalactic ("Lorimer") bursts. I will describe the physics germane to the detection of radio transients, and how facilities such as LOFAR, the MWA and the SKA will impact this field.

**Primary author:** Dr MACQUART, Jean-Pierre (Curtin University)

**Presenter:** Dr MACQUART, Jean-Pierre (Curtin University)

**Track Classification:** Wide-field Astronomy: Transients