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Gravitational wave research in Australia, future detectors, and OzGrav

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Gravitational wave research in Australia takes many forms, from the development of instrumentation for direct detection and radio pulsar observing, to computational pipelines for detection and parameter estimation, optical and radio follow-up of neutron star mergers, and theory. Australia is part of two pulsar timing arrays, the Parkes pulsar timing array and the new MeerKAT Pulsar Timing Array, and these instruments are used to explore relativistic binary pulsars. In this talk I will review some of the highlights of these programs and the 3G gravitational wave detectors of the future.

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