



**Astronomical Society of Australia
Annual Science Meeting 2007**

2007 HARLEY WOOD LECTURE

Millisecond Pulsars and Einstein's Universe

Professor Matthew Bailes

Director of the Centre for Astrophysics and Supercomputing
Swinburne University of Technology

Using 3D virtual reality technologies Professor Bailes will explain how astronomers are using giant radio telescopes to discover millisecond pulsars, objects only 20km in diameter, but with masses some 500,000 times that of Earth. These stars rotate up to 700 times a second, and emit powerful beams of radio emission. Australian astronomers are using millisecond pulsars to test Einstein's laws of gravitation and search for gravitational waves produced by inspiralling supermassive black holes. This talk is aimed at the general public and understandable by children and adults alike. The impact of exciting new telescopes currently being designed for construction in Western Australia will also be discussed.

FREE PUBLIC LECTURE

**Monday July 2nd, 7:00 p.m. - 8:30 p.m.
Mason Theatre, Building E7B
Macquarie University**

For more information visit: www.astronomy.mq.edu.au/asa2007/public.html