

# Post Amaldi 7 conference workshop on Stabilisation of Parametric Instabilities in Advanced Gravitational Wave Detectors

Perth, 16-18, July 2007

The ACIGA UWA group proposes to hold an Amaldi conference satellite workshop in the week after the Amaldi conference at the site of ACIGA's Gingin High Optical Power Facility, from 16 to 18 July 2007 on the above topic. The goal of the workshop is

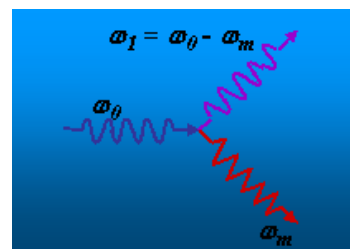
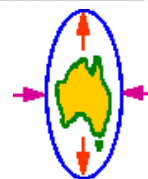
- to reach a consensus on the magnitude of the PI problem
- to determine the level of risk PI poses to advanced detectors
- to understand limitations in the theory and modelling of PI,
- to assess methods for controlling PI and
- to identify priorities for the next phase of research and
- propose possible implementation strategies.

The timing is designed to allow us to benefit from many participants being at the Amaldi conference and to provide additional research value for the trip to Australia.

Express of interest, suggestions.... please send email to  
juli@physics.uwa.edu.au



Australian  
Consortium for  
Interferometric  
Gravitational  
Astronomy



**Three modes interaction**  
**Stock process: The photon can**  
**emit the phonon, decreasing the**  
**photon energy (potential**  
**acoustic instability).**



*ACIGA's High Optical Power  
Facility*