

Seminar

Friday, 4th June 2010

11 am - Room 701

[Dr Stuart Ryder](#)

[Australian Gemini Office, Anglo-Australian Observatory,](#)
Sydney, Australia

Where are all the Missing Supernovae?

Despite the dedicated efforts of amateur and robotic searches, the number of supernovae discovered each year is only a lower limit to the actual number of supernovae that occur. The supernova rate is potentially the most direct way of tracing the star formation history of the Universe.

In this talk I will describe our ongoing effort to find supernovae which would otherwise have gone unnoticed, in particular using laser guide star adaptive optics on the Gemini North telescope to find supernovae in Luminous Infrared Galaxies. I will also discuss the contribution that the Square Kilometre Array radio telescope, in which Australia and New Zealand are involved, can make to this effort.

Bio: Stuart Ryder graduated with 1st class Honours in Astronomy from the University of Canterbury in 1988. He undertook his PhD studies at the Mt Stromlo and Siding Spring Observatories of the Australian National University, graduating in 1993. After postdoctoral appointments at the University of Alabama, the University of New South Wales, and the Joint Astronomy Centre in Hawaii, he joined the staff of the Anglo-Australian Observatory in 1999. He is currently the head of the Australian Gemini Office, which coordinates Australia's usage of large offshore telescopes including the Gemini 8m telescopes in Hawaii and Chile, and the twin Magellan 6.5m telescopes in Chile.

All Welcome

Contact Details

For further information phone 364 2404, or visit our website: www.phys.canterbury.ac.nz