

**SCHOOL OF PHYSICS**

**UNIVERSITY OF NEW SOUTH WALES**



# COLLOQUIUM

*4-5 p.m., Thursday, 26 November, 2009*

School of Physics Common Room

Room 64, Old Main Building

**Professor Piter Fulde**

**Asia Pacific Center for Theoretical Physics**

**Pohang, Korea**

## **"Excitations with Fractional Charges in Solids"**

Since the work of Su, Schrieffer and Heeger it is known that in doped trans-polyacetylene we may have excitations with fractional charges. In two dimensions the Fractional Quantum Hall Effect leads to fractionally charged excitations. In this talk we will concentrate on strongly correlated electrons on geometrically frustrated lattice. We want to show that excitations with fractional charges may also exist in three dimensional systems.

The audience is invited to meet the speaker beforehand at 3.45 p.m. over coffee and biscuits in the Common Room.

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