INSTITUTE SEMINAR

Wednesday, 20 November 2013   3.00 pm   Fermion

Speaker:
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Title:
Varieties of Quantum Measurements

Abstract:
The first explicit model for quantum measurements was given
by von Neumann, strongly influenced by Dirac, for the type of
measurements that have come to be known as Projective
Measurements. In these, the outcomes are always eigenvalues and the
post-measurement state is the corresponding eigenstate. A number of
very interesting measurement schemes have emerged since then, and I
shall present these varieties of quantum measurements and critically
assess them. That will include i) the Arthurs-Kelly Measurements of
canonically conjugate observables, ii) the Protective Measurements iii)
the Weak Measurements, and finally iv) the Weak Value Measurements.