# TIFR Centre for Interdisciplinary Sciences, Narsingi, Hyderabad 500075

# Seminar

## Varieties of Quantum Measurements

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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 eigen values and the post-measurement state is the corresponding eigen state. 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.

*Wednesday, Sep 25th 2013*

*4:00 PM (Tea/Coffee at 3:30 PM)*

*Conference Hall, TCIS*