

## TIFR Centre for Interdisciplinary Sciences, Narsingi, Hyderabad 500075

## **Seminar**

Making best out of NMR polarization: Towards highthroughput structure determination of membrane proteins using solid-state NMR

## **Tata Gopinath**

University of Minnesota, USA

Solid-state NMR (ssNMR) is the method of choice for probing structure, dynamics, and ligand binding of microcrystalline and membrane-bound proteins at the atomic resolution. Sensitivity resolution of the and resonances spectra multidimensional NMR fundamental are requirements for protein structural analysis. We have introduced a new approach to solid state NMR for determining topology and structure of membrane proteins. methods utilize discarded coherences These spin polarization and dramatically enhance the sensitivity and resolution. Several methodological developments and their applications to membrane proteins will be presented.

Wednesday, Mar 19th 2014

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

Seminar Hall, TCIS