



# BOSE COLLOQUIUM

Monday, 9 March 2015

2.30 p.m.

Silver Jubilee Hall

Speaker:

**Biman Bagchi**

*Professor, SSCU,*

*Indian Institute of Science*

*Bangalore*

Title:

**Protein folding and unfolding: Bottom-up approach**

Abstract:

Protein folding and unfolding occurs on a complex free energy landscape, shaped like a funnel, with high degree of ruggedness. Starting with Levinthal Paradox, we explore microscopic aspects of protein folding and unfolding dynamics that involve many-body collective diffusion in the configuration space of the protein. We explore the specificity of hydrophobic interaction by using suitable solvent medium. We also discuss some aspects of protein-DNA interaction as observed via single molecule spectroscopy.

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