



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

Colloquium

Soft Interfaces: patterns and singularities

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The boundaries between fields are often a fertile source of problems and ideas. Interfaces in physics and biology are similar - and using these as motivation, I will discuss some simple quantitative approaches to characterize the mechanical response of unstructured and structured soft interfaces. These include the peeling and healing of thin adherent films, the creasing and cutting of soft interfaces, and the behavior of hairy and scaly interfaces. In addition to providing explanations for a number of experimental puzzles, the models lead to interesting mathematical problems and challenges, that I hope to highlight.

Monday, Jan 6th 2014

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

Seminar Hall, TCIS