



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

Seminar

**Blood, sweat and tears : simulations of
biological flows**

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The main part of this talk is an introduction to simulations of biological flows with particular attention to moving and elastic boundaries. I shall then discuss the specific problem of sorting of cells in a microfluidic device depending on their elastic moduli. It has been seen that cancer cells are harder to deform compared to normal cells. We propose a microfluidic device that can separate sick cancer cells from healthy ones.

Monday, Oct 21st 2013

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

Seminar Hall, TCIS