

TIFR Centre for Interdisciplinary Sciences

21, Brundavan Colony, Narsingi, Hyderabad 500 075

Seminar

From soft matter to 2D electron gases: Anomalous transport phenomena in heterogeneous media Jürgen Horbach

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Lorentz gas model is a paradigm for understanding of fluid (electron) transport through heterogeneous media. In its simplest two-dimensional (2D) version, a point tracer explores the space between randomly distributed hard-disk obstacles which may overlap and are uncorrelated. In my talk, molecular dynamics simulations of Lorentz-gas models presented that elucidate anomalous transport observed for colloidal and active phenomena, as particles in heterogeneous media as well as 2D electron gases in disordered arrays of antidots.

Tuesday, Feb 21st 2017 4:00 PM (Tea/Coffee at 3:45 PM) Seminar Hall, TCIS