

Area Seminar

Title Networks and Emergence.

Date and 08/03/2010 16:00:00
Time

Speaker Soumen Roy
Professor
University of Chicago

Area Theoretical Physics

Venue Room No. 469

Abstract Networks are used to model a wide range of complex systems. Especially, their paramount importance in the emergent field of Systems Biology is now universally accepted. We outline systematic methods to show how and why multiple network metrics should be studied in parallel. Specifically, we uncover connections between phenotypes of various biological organisms and their network architecture. We also present new models and mechanisms of network growth and demonstrate how they shed insight in analyzing and modeling various systems.