

### Area Seminar

Title Extreme Events on Complex Networks.

Date and Time 05/08/2010 16:00:00

Speaker Mr. Vimal Kishore  
Post Docterate  
Physical Research Laboratory, Ahmedabad

Area Theoretical Physics

Venue Room No. 469

Abstract Extreme events occur rarely in nature. They have great importance due to their large socio-economic impact on the society. In this talk, we will focus on extreme events taking place on complex networks. Traffic jams, internet slowdowns, floods in river network are few examples of such events on networks. We study simple random walk model on scale-free network and show that extreme events are more likely to occur on nodes with lower degree in comparison to higher degrees nodes. This result can be useful in designing the transport networks which can handle such extreme events.