

INDIAN STATISTICAL INSTITUTE CHENNAI CENTRE

As part of the celebration of the International Year of Statistics 2013

Prof. Persi Diaconis

will deliver a talk on

STATISTICAL ANALYSIS OF LARGE NETWORKS

Abstract:

Network data abounds in modern life; social networks, gene networks, the internet and so on. In joint work with Sourav Chatterjee, we have been looking at problems associated with the analysis of simple exponential models for such data. Sometimes, it's easy: there are natural examples (degrees as sufficient statistics) where we can consistently estimate n parameters based on a sample of size one (!). Sometimes, it's impossible: in edge-triangle models, the maximum likelihood estimates can be badly inconsistent for just two parameters. All of this leans on the emerging "graph limit theory" along with additive combinatorics.

Date & Time: Friday, 20 December 2013 at 10.30 am

Venue: Indian Statistical Institute (ISI), Chennai Centre
SETS (Society for Electronic Transactions and Security),
MGR Knowledge City, CIT Campus, Taramani.
(Landmark: Near IITM Research Park/ Ginger Hotel)

High Tea: 11.30 am

About the Speaker:

Prof. Persi Diaconis is Mary V. Sunseri Professor of Statistics and Mathematics at Stanford University since 1998. He is particularly known for tackling mathematical problems involving randomness and randomization, such as coin flipping and shuffling playing cards. He is one of the SuperScholar's list of the twenty most influential living scientists

<http://www.superscholar.org/features/20-most-influential-scientists-alive-today/>

For more information, please see <http://statweb.stanford.edu/~cgates/PERSI/>