

For favour of posting

DEPARTMENT OF STATISTICS AND ACTUARIAL SCIENCE
THE UNIVERSITY OF HONG KONG

Seminar

Professor Jamal NAJIM

CNRS and Gaspard Monge Lab of Computer Science
Eastern Paris University
France

will give a talk

entitled

**LIMITING SPECTRAL DISTRIBUTION
FOR NON-HERMITIAN RANDOM MATRICES
WITH A VARIANCE PROFILE**

Abstract

Consider a large $n \times n$ random matrix Y_n with entries given by

$$Y_{ij} = \frac{\sigma_{ij}}{\sqrt{n}} X_{ij}$$

where the X_{ij} 's are independent and identically distributed random variables with four moments, and the σ_{ij} 's are deterministic, non-negative quantities and account for a variance profile. Notice that some of the σ_{ij} 's may be equal to zero. In this talk, we will describe the limiting spectral distribution of matrix Y_n as $n \rightarrow \infty$, that is the limit of the empirical distribution of Y_n 's eigenvalues. We will carefully specify the assumptions on the variance profile (σ_{ij}) under which we can describe the limiting spectral distribution. This is a joint work with Nicholas Cook, Walid Hachem and David Renfrew.

on

Wednesday, April 13, 2016

(Refreshments will be served from 2:15 p.m. outside Room 301 Run Run Shaw Building)

2:30 p.m. – 3:30 p.m.

at

Room 301, Run Run Shaw Building

Visitors Please Note that the University has limited parking space. If you are driving please call the Department at 3917 2466 for parking arrangement.

All interested are welcome