

August 18 - 21, 2010
Fields-MITACS Workshop on
Approximations, Asymptotics and Resource Management for Stochastic Networks

School of Mathematics and Statistics, Herzberg Building, HP 4351
Carleton University

Organizers: Minyi Huang and Yiqiang Q. Zhao

Wednesday August 18

1:00-1:30pm (Coffee/Registration)

1:30-3:00pm (Tutorial 1) **Michel Mandjes**, University of Amsterdam and CWI
Levy-driven Queues

3:00-3:15pm Coffee/Tea

3:15-4:45pm (Tutorial 2) **Masakiyo Miyazawa**, Tokyo University of Science
Light Tail Asymptotics for Stochastic Networks

Thursday August 19

8:30-9:00am (Coffee/Registration)

9:00-10:30am (Tutorial 1) **Michel Mandjes**, *Levy-driven Queues*

10:30-10:45am Coffee/Tea

10:45am-12:15pm (Tutorial 2) **Masakiyo Miyazawa**, *Light Tail Asymptotics for Stochastic Networks*

12:15-1:00pm (Lunch, provided)

1:00-2:00 **Doug Down**, McMaster University

State-Dependent Response Times via Fluid Limits in Shortest Remaining Processing Time Queues

2:00-2:30 **Peter Rabinovitch**, RIM

Critical Paths in Random Networks

2:30-3:00 Coffee/Tea

3:00-4:00 **Yuanyuan Liu**, Central South University

Subgeometric Ergodicity and Integral-type Functionals for Continuous-time Markov Chains

4:00-4:30 **Zhidong Zhang**, University of Saskatchewan

Call Centres with Balking and Abandonment: from Queueing to Queueing Network Models

Friday August 20

8:30-9:00am (Coffee/Registration)

9:00-10:30am (Tutorial 1) **Michel Mandjes**, *Levy-driven Queues*

10:30-10:45am Coffee/Tea

10:45am-12:15pm (Tutorial 2) **Masakiyo Miyazawa**, *Light Tail Asymptotics for Stochastic Networks*

12:15-1:00pm (Lunch, provided)

1:00-2:00 **Yuliy Baryshnikov**, Alcatel-Lucent Bell Labs

Search on the Edge of Chaos

2:00-2:30 **Guichang Zhang**, University of Saskatchewan

Infinite-server Queues with Time-varying Rates

2:30-3:00 Coffee/Tea

3:00-4:00 **Hui Li**, Mount Saint Vincent University

Light-Tailed Behaviour for Random Walks in the Quarter Plane

4:00-4:30 **Gheorghe Miscoi**, Free International University of Moldova

Multidimensional Analogs of the Kendall Equation and Its Application for Evaluating the Traffic Characteristics

Saturday August 21

8:30-9:00am (Coffee/Registration)

9:00-10:30am (Tutorial 1) **Michel Mandjes**, *Levy-driven Queues*

10:30-10:45am Coffee/Tea

10:45am-12:15pm (Tutorial 2) **Masakiyo Miyazawa**, *Light Tail Asymptotics for Stochastic Networks*

12:15-1:00pm (Lunch, provided)

1:00-2:00 **Peter Glynn**, Stanford University

Explicit Computation and Asymptotics for Finite Buffer Models

2:00-2:30 **Qishu Cai**, University of Waterloo

Shipment Consolidation by Private Carriage: A Matrix-Analytical Approach

2:30-3:00 Coffee/Tea

3:00-4:00 **Ravi R. Mazumdar**, University of Waterloo

Congestion in Large Balanced Fair Links

4:00-4:30 **TBA**