

RYERSON UNIVERSITY
DEPARTMENT OF MATHEMATICS
GRAPHS AT RYERSON (G@R) SEMINAR

Dr. Xavier Pérez Giménez

Department of Combinatorics and Optimization, University of Waterloo

Date: Wednesday, November 21, 2012

Time: 1:15 pm

Location: ENG 210

**Asymptotic enumeration of sparse strongly
connected digraphs by vertices and edges**

Abstract: I shall survey several related asymptotic enumeration problems concerning certain types of connected sparse graphs with a given number of vertices and edges, and discuss some of the probabilistic techniques that are usually applied in these settings. In particular, I shall present our asymptotic formula for the number of strongly connected sparse digraphs with n vertices and m arcs. (Joint work with Nick Wormald.)

ALL FACULTY, STAFF, STUDENTS AND GUESTS ARE WELCOME TO ATTEND