Stanford University
Departments of Mathematics and Statistics

PROBABILITY SEMINAR

4:15pm, Monday, October 17, 2011
Sequoia Hall Room 200
Cookies served at 3:45pm, 1st Floor Lounge.

Speaker: Rafal Latala, University of Warsaw

Title: Tail estimates for sums of independent log-concave random vectors

Abstract:
We will present new tail estimates for order statistics of sums of independent log-concave random vectors and show how they may be applied to derive deviation inequalities for $l_r$ norms and norms of projections of such vectors. We will also discuss the restricted isometry property of random matrices with independent log-concave rows.

The talk will be based on recent joint papers with Radoslaw Adamczak, Alexander Litvak, Alain Pajor, and Nicole Tomczak-Jaegermann.