

Department of Mathematics presents...

*1st Annual Lecture on  
New Frontiers in Probability*

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*Prof. Krzysztof Burdzy  
University of  
Washington, Seattle*

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**Title:**     *Shy couplings, lion and man, and  
rubber band domains*

**When:**     Monday, Feb. 6, 3:35 - 4:35

**Where:**    Ayres Hall 405

Refreshments available beginning at 3:15 pm.

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*Abstract:* The talk will be an exciting mixture of probability, metric geometry, differential games and algebraic geometry. Shy couplings are pairs of processes that do not come close to each other (ever!). Every well educated person should know whether the lion can catch the man. The most surprising claims will be: (i) Pursuit problems for Brownian particles (which have "infinite" velocity) are related to pursuit problems with bounded velocities; and (ii) It appears that nobody has thought about "rubber band domains" so far, although they are a very natural concept. Joint work with M. Bramson and W. Kendall.