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WORKSHOP ON CONVEXITY AND ASYMPTOTIC GEOMETRIC ANALYSIS
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Small-Ball probabilities for the volume of random convex sets

Peter Pivovarov^{*}

ppivovarov@math.tamu.edu

The focus of the talk will be distributional inequalities for the volume of random convex sets. Typical models include convex hulls and Minkowski sums of line segments generated by independent random points. I will outline an approach to small-deviation estimates that makes use of rearrangement inequalities and tools from classical convexity such as intrinsic volumes and natural generalizations.

This is joint work with Grigoris Paouris.

^{*}Department of Mathematics, Texas A&M University, College Station, TX 77843-3368, USA.