

“Workshop: Asymptotics of (random) convex sets:
fluctuations and large deviations”

February 19-23, 2024

organized by

Kavita Ramanan, Matthias Reitzner and Christoph Thäle

• Monday, February 19

08:30 - 09:30	<i>Arrival and Registration</i>
09:30 - 09:35	<i>Welcome by HIM Director Christoph Thiele</i>
09:35 - 10:30	Tomasz Tkocz <i>Resilience of cube slicing in l_p</i>
10:30 - 11:00	<i>Coffee break</i>
11:00 - 11:30	Rafal Latała <i>Two-sided estimates for operator $\ell_p \rightarrow \ell_q$ norms of random matrices with iid entries</i>
11:30 - 12:00	Vladislav Vysotskiy <i>The isoperimetric problem for convex hulls and the large deviations rate functions of random walks</i>
12:00 - 15:00	<i>Lunch break</i>
15:00 - 15:55	Alexander Litvak <i>On the Rademacher projection in the non-symmetric case</i>
16:00 - 16:30	<i>Coffee break</i>
16:30 - 17:00	Pierre Calka <i>Close-up on random convex hulls</i>
afterwards	<i>Get-Together</i>

• Tuesday, February 20

10:30 - 11:00	<i>Group Photo and Coffee break</i>
11:00 - 11:30	Holger Sambale <i>Moment Inequalities for Heavy-Tailed Distributions</i>

11:30 - 12:00	Matthias Schulte <i>Boolean models in hyperbolic space</i>
12:00 - 15:00	<i>Lunch break</i>
15:00 - 15:55	Beatrice Vritsiou <i>On the illumination conjecture for convex bodies with many symmetries</i>
16:00 - 16:30	<i>Coffee break</i>
16:30 - 17:00	Jacopo Ulivelli <i>Kubota-type formulas and supports of mixed measures</i>

• **Wednesday, February 21**

10:30 - 11:00	<i>Coffee break</i>
11:00 - 11:30	Gil Kur <i>Connections between Minimal Norm Interpolation and Local Theory of Banach Spaces</i>
11:30 - 12:00	Maud Szusterman <i>Extremizers in Fenchel and Bezout-type inequalities</i>
	free afternoon

• **Thursday, February 22**

09:30 - 10:25	Zakhar Kabluchko <i>Exponential f-vector profiles of high-dimensional random polytopes</i>
10:30 - 11:00	<i>Coffee break</i>
11:00 - 11:30	Liran Rotem <i>Brunn-Minkowski inequalities via concavity of entropy</i>
11:30 - 12:00	Carsten Schütt <i>Affine surface area and polytopal approximation</i>
12:00 - 15:00	<i>Lunch break</i>
15:00 - 15:55	Eliza O'Reilly <i>Random tessellation forests: overcoming the curse of dimensionality</i>
16:00 - 16:30	<i>Coffee break</i>
16:30 - 17:00	Sergii Myroshnychenko <i>A tale of Alice, Bob, and Contractions</i>

• **Friday, February 23**

09:30 - 10:25	Radek Adamczak <i>Limit theorems for the volumes of small codimensional random sections of l_n^p-balls</i>
10:30 - 11:00	<i>Coffee break</i>
11:00 - 11:55	Anna Gusakova <i>Concentration inequalities for Poisson U-statistics</i>
12:00 - 15:00	<i>Lunch break</i>