Synergies between modern probability, geometric analysis and stochastic geometry

Organizers:
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The connection between probability and geometry is an emerging research area. It includes log–Brunn Minkowski inequality, large deviations and asymptotic geometric analysis, concentration phenomena and random spatial systems. It has numerous applications, ranging from material science and theoretical computer science to high dimensional statistics.

We will have the following activities:

School: Interaction between probability and geometry
(January 22–26, 2024)

Workshop: Asymptotics of (random) convex sets: fluctuations and large deviations
(February 19–23, 2024)

Workshop: High dimensional phenomena: geometric and probabilistic aspects
(March 11–15, 2024)

Three thematic weeks: Interaction between convexity and discrete structures, Asymptotic properties of random sets, and Large deviations in asymptotic functional analysis

Call for participation: The Hausdorff Research Institute offers visiting positions for the whole period of the trimester program (for senior scientists, postdocs and PhD students). The deadline for applications June 30, 2023. Please send applications (including CV and, for postdocs and PhD students, a letter of recommendation) using our online application form at https://www.him.uni-bonn.de/app-synergies/. In addition numerous fellowships for shorter periods are available.