E i n l a d u n g

zu der am Mittwoch, den 28. Juni 2023,
um 10:15 Uhr im Hörsaal M4 stattfindenden

A n t r i t t s v o r l e s u n g

von Frau Juniorprofessorin Dr. Anna Gusakova

über das Thema

„Random polytope"

Kurzfassung:
Random polytopes are among the most central objects studied in stochastic geometry. In classical settings, a random polytope is a randomly generated convex polytope, which leads to many different models, depending on the chosen source of randomness and the generating procedure. In this talk, we will consider two models: A convex hull of independent and identically distributed random points and the typical cell of a random tessellation. A random tessellation is another key object of stochastic geometry, which is a random countable collection of convex polytopes covering the space and having disjoint interiors. The typical cell of a random tessellation may intuitionally be understood as a uniformly chosen polytope of this collection.

During this talk I will give a brief overview of the above models and present a selection of recent results related to probabilistic properties of certain types of random polytopes, which covers a part of my research.

gez. Arthur Bartels, Dekan