

Random polytopes: classical results and recent developments - Part I

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Time **Monday, May 27, 2019 at 14:30**

Place **Campus Belval, MNO 5A**

Abstract In this two-part seminar we will give an introduction to the subject of random polytopes. Starting from Sylvester's four-point problem, historically considered the first modern question on the topic, we will go across some of the fundamental findings and how they evolved up to the present day. Through the talks we will see two different kinds of high-dimensional asymptotics: growing number of vertices and growing space dimension. In particular, we will discuss intrinsic volumes for random polytopes in convex bodies, the class of Beta polytopes, and finally the stochastic approach to the isotropic constant conjecture.