

Title: **Methods from uniform distribution theory in integral geometry**

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Abstract: In this talk I discuss how methods from uniform distribution theory can be used to approximate integral geometric integrals such as Crofton formulas. These integrals are defined over Grassmannian manifolds and, thus, motivate the study of uniform distribution theory in abstract spaces beyond the d -dimensional unit cube.

As an illustration I will show how to approximate the surface area of poly-convex sets.