

# Limit theorems for random tessellations

*Christoph Thäle, Ruhr-Universität Bochum*

Mittwoch, 20. November 2013, 17:00 Uhr, M 4

*Abstract:*

Random tessellations are an active topic of current research in stochastic geometric, which is a field on the borderline between probability theory and geometry. In my talk I will first introduce the so-called STIT tessellations, which arise as outcome of a space-time random cell-division process. This model has been invented in 2005 and has become one of the standard models, besides the hyperplane and Voronoi tessellation. In the main part, I will focus on the asymptotic geometric properties of STIT tessellations, in particular, asymptotic second-order properties as well as central and non-central limit theorems for certain natural functionals will be discussed.