UNIVERSITÄT SALZBURG

SALZBURG MATHEMATICS COLLOQUIUM
Winter 2017/2018

Martin Henk (Berlin)
„The dual Minkowski problem"
November 23, 2017

Abstract:
The (classical) Minkowski problem asked for sufficient and necessary conditions such that a finite Borel measure on the sphere is the surface area measure of a convex body. Its solution, based on works by Minkowski, Aleksandrov and Fenchel & Jessen, is one of the centerpieces of the classical Brunn-Minkowski theory. There are two far-reaching extensions, the L_p-Brunn-Minkowski theory and the dual Brunn-Minkowski theory. In the talk we will discuss the analog of the (classical) Minkowski problem within the dual Brunn-Minkowski theory, i.e., the characterization problem of the dual curvature measures. These measures were recently introduced by Huang, Lutwak, Yang and Zhang and are the counterparts to the surface area measures within the dual theory.

Thursday, **15:00-15:45**
Hörsaal 414, 1. Stock