Fakultät für Mathematik
universität wien

Mathematisches Kolloquium

Mittwoch, 6. März 2019
Sky Lounge

EINLADUNG

Karoly Böröczky
(Central European University and Renyi Institute)

„Logarithmic Brunn-Minkowski conjecture - Monge-Ampere equations, Gaussian density and convex geometry"

„Logarithmic Brunn-Minkowski conjecture – Monge-Ampere equations, Guassian density and convex geometry"

Abstract:
The classical Minkowski problem asks for a the existence of a smooth closed convex hypersurface in R^n whose Gauss curvature is given as the function of the exterior unit normal, therefore it is a Monge-Ampere type equation on the sphere. The uniqueness of the solution up to translation follows from the Brunn-Minkowski inequality of convex bodies in R^n. The talk discusses a recent variant, the so-called logarithmic-Minkowski problem and the related logarithmic Brunn-Minkowski conjecture for origin symmetric convex bodies where the conjecture is also related to various conjectured properties of the Gaussian density.

15.45 Uhr: Kaffeejause

16.15 Uhr: Vortrag

vinum cum pane im Anschluss

Michael Eichmair
Christian Krattenthaler