



universität
wien

Fakultät für Mathematik

Mathematisches Kolloquium

Mittwoch, 23. Jänner 2019

Sky Lounge

EINLADUNG

Gregor Kemper

(TU München)

„Algebra, Geometry and Drones“

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Abstract:

Is it always possible to reconstruct a point configuration in the plane from the unlabeled set of mutual distances between the points? This and other questions translate to invariant theory and ultimately into problems about polynomial ideals. As it turns out, the following question is related: Can a drone detect the walls of a room from hearing their echoes? Attacking this question again leads to ideal theory and requires massive computer algebra computations. The talk presents results by Mireille Boutin and the speaker, some of them old and some very recent.

15.45 Uhr: Kaffeejause

16.15 Uhr: Vortrag

vinum cum pane im Anschluss

Herwig Hauser
Christian Krattenthaler