



universität
wien

Fakultät für Mathematik

EINLADUNG

Mathematisches Kolloquium
und
Junior Kolloquium

Mittwoch, 17. Mai 2017

Sky Lounge

Antonio Cordoba (Ciudad Universitaria de Cantoblanco)

14:15 Uhr – Junior Kolloquium

„The Kakeya needle problem“

15.45 Uhr – Kaffeepause

16:15 Uhr – Vortrag

„Fractional power of Laplacians in Fluid Mechanics“

Anschließend vinum cum pane

Junior Kolloquium:
„The Kakeya needle problem“

Abstract:

The existence of plane sets whose measure is as small as we wish, but where a straight line segment (a needle) can be moved continuously to interchange its extreme points position, has become a central character in modern harmonic analysis, introducing many interesting and open problems.

Vortrag:

„Fractional power of Laplacians in Fluid Mechanics“

Abstract:

Often in Mathematics one has to work very hard to prove theorems and, being lucky, one encounters complicated proofs which require also a lot of efforts from their readers. It is a rare success to find a cleaver and short proof of a remarkable mathematical statement. Let us call mathematical haikus those precious gifts from the Muses, of which most of us surely treasure several examples. In this colloquium I will present one of my favorites: it is concerned with the fractional powers of the Laplacian and play an important role in the evolution of fluid interphases and atmospheric fronts.

Herwig Hauser
Christian Krattenthaler