



Universität Konstanz

**Fachbereich
Mathematik und Statistik**
Schwerpunkt
Reelle Geometrie und Algebra

Einladung

Im Oberseminar *Reelle Geometrie und Algebra* hält

Jan Rolfes

(Universität zu Köln)

am **Freitag, 07.07.2017**, einen Vortrag zum Thema:

*A greedy approach to cover compact metric spaces
by balls*

Der Vortrag findet um **13:30 Uhr** in **F426** statt.

Alle Interessenten sind herzlich eingeladen.

Abstract: In this talk I give a general algorithmic framework to construct coverings of compact metric spaces X by balls. This framework is based on of Chvátal's approximation algorithm for the weighted set cover problem. We prove a logarithmic bound in terms of the size of the balls for every compact metric space.

When $X = S^d$ we give a constructive covering of S^d with a density comparable to the currently best one by Böröczky and Wintsche.

Sebastian Gruler
Koordinator Oberseminar