Universität Konstanz

Fachbereich Mathematik und Statistik

Prof. Dr. R. Denk, Prof. Dr. R. Racke, Prof. Dr. O. Schnürer

Im

Oberseminar Partielle Differentialgleichungen

gibt es am

Donnerstag, dem 04. Mai 2017,

einen Vortrag von Herrn

Prof. Vyacheslav Zakharyuta

(Sabancı University, Istanbul / Konstanz)

"Transfinite diameter, Chebyshev constants and capacities in $\mathbb{C}^n$"

Beginn: **15.15 Uhr**
Raum: **F426**
Interessenten sind herzlich willkommen!

R. Denk, R. Racke, O. Schnürer

Abstract: The famous result of the geometric complex analysis (Fekete 1923, Szegö 1924) states that three characteristics of a compact set $K \subset \mathbb{C}$ - *transfinite diameter* $d(K)$, *Chebyshev constant* $\tau(K)$, and *capacity* $c(K)$, which are defined from quite different reasons, do coincide. The aim of this talk is to discuss the achievements concerned with multivariate analogs of these classical results, starting with the definition of the *transfinite diameter* $d(K)$ for compacta in $\mathbb{C}^n$ (Leja 1957) and the multivariate analog of the equality $d(K) = \tau(K)$ (Zakharyuta 1975).

(invited by Prof. Dr. Robert Denk)