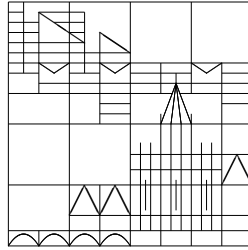**Universität Konstanz**

Fachbereich
Mathematik und Statistik

Konstanz, den 3. Januar 2017

Im Zuge der Präsentation wesentliche Ergebnisse seiner Dissertation

wird am

Dienstag, dem 10. Januar 2017,

folgender Vortrag gehalten:

Tareq Hamadneh (Universität Konstanz):

„Bounding Polynomials and Rational Functions in the Tensorial and Simplicial Rational Bernstein Forms"

Zeit: 17:00 Uhr

Raum: F 426

Interessenten sind herzlich willkommen!

Abstract:

In this talk we present bounds for the range of polynomials and rational functions over boxes and simplices of R^n which are provided by the Bernstein expansion. Specifically, we address the following topics:

- Sharpness, monotonicity and inclusion isotonicity of the bounds,
- convergence properties of the bounds,
- minimization and certificates of positivity,
- lower functions based on least squares for polynomials and rational functions.