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## Einladung

zum Vortrag im Rahmen des **SFB Colloquiums** (Standort Linz), mit dem Titel

### On approximation by multivariate Kantorovich-Kotelnikov sampling operators

VORTRAGENDER: **Yurii Kolomoitsev**, Universität Lübeck

DATUM: Freitag, 1. Juni 2018

ZEIT: 10:00 Uhr

ORT: Science Park 2, SP2 416-1, RICAM

**Abstract:** Approximation properties of multivariate Kantorovich-Kotelnikov sampling type operators generated by different band-limited functions are studied. In particular, a wide class of functions with discontinuous Fourier transform is considered. The  $L_p$ -rate of convergence for these operators is given in terms of the classical moduli of smoothness. Several examples of the Kantorovich-Kotelnikov operators generated by the sinc-function and its linear combinations are provided.

This is joint work with Maria Skopina (St. Petersburg State University).

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Das **SFB Colloquium** wird vom **FWF Special Research Program (SFB) Quasi-Monte Carlo Methods: Theory and Application** unterstützt