



Institut für
Angewandte Mathematik



Leibniz
Universität
Hannover

Institut für Angewandte Mathematik
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Oberseminar Analysis und Theoretische Physik

Dr. Matthias Köhne (Universität Düsseldorf)

Optical Estimates for Pointwise Multiplication and Analytic Nemytskij Operators in Anisotropic Function Spaces

The aim of this talk is to improve results on quasi-linear evolution equations as well as to significantly simplify their proofs. Therefore, we study multiplication as well as Nemytskij operators in anisotropic Bessel potential spaces, Besov spaces and Sobolev-Slobodeckij spaces.

Concerning multiplication we consider optimal estimates, which are direct generalizations of well-known estimates in the isotropic case.

Concerning Nemytskij operators we consider the acting of analytic functions on supercritical anisotropic function spaces of the above type

**Dienstag, 26. April 2016, 15:00 Uhr, Raum c311
Hauptgebäude der Universität**

Über Ihren Besuch würden sich freuen:

Prof. Dr. Wolfram Bauer
Prof. Dr. Joachim Escher
Prof. Dr. Olaf Lechtenfeld
Prof. Dr. Elmar Schrohe
Prof. Dr. Christoph Walker