



Fakultät für Mathematik, Informatik
und Physik

Institut für Mathematik



Institut für Grundlagen der
Bauingenieurwissenschaften

**Arbeitsbereich Technische
Mathematik**

MATHEMATIKKOLLOQUIUM

Das Institut für Mathematik und der Arbeitsbereich für Technische Mathematik laden zu folgendem Vortrag ein:

Irina Kmit

Humboldt-Universität Berlin and Ukrainian Academy of Sciences

Fredholm solvability of periodic problems for general linear first-order hyperbolic systems

Abstract: The talk is devoted to the Fredholm Alternative for general linear first-order hyperbolic systems in a single spatial variable with periodicity conditions in time and reflection boundary conditions in space. We construct scales of Banach spaces (for the solutions and for the right hand sides of equations) so that the problems are modeled as a Fredholm operator from one space to another. Our approach is quite general and is based on constructing a right parametrix of the problems and using a general criterion for Fredholmness in Banach spaces.

Zeit: **Mittwoch, 15. 12. 2010, 17.15**

Ort: **Hörsaal B 520**

Gäste sind herzlich willkommen!

Michael Oberguggenberger