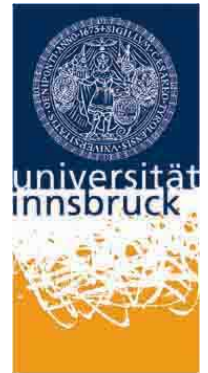




FAKULTÄT FÜR MATHEMATIK, INFORMATIK UND PHYSIK
LEOPOLD-FRANZENS UNIVERSITÄT INNSBRUCK
INSTITUT FÜR MATHEMATIK



Technikerstrasse 25/7
A-6020 Innsbruck
Telefon: +43 512 507 6071 oder 6097

E-Mail: mathematik@uibk.ac.at
<http://www2.uibk.ac.at/mathematik/>
Fax: +43 512 507 2920

Das Institut für Mathematik lädt zu folgendem Vortrag ein:

Prof. Cesáreo González

Department of Applied Mathematics, University of Valladolid, Spain

**Exponential type integrators
for abstract time-dependent parabolic equations
with variable domains**

In this talk, I propose an explicit exponential integrator for the time discretization of non-autonomous linear parabolic problems. The numerical scheme is based on the exponential Euler method. In an abstract formulation, the initial boundary value problem is written as an initial value problem on a Banach space involving a time-dependent sectorial operator with variable domain. Under reasonable regularity requirements on the problem, I analyze the stability and the convergence behaviour of the numerical method.

Zeit: **Donnerstag, den 11. Jänner 2007 um 14¹⁵ Uhr**

Ort: **Seminarraum 609 (Bauingenieursgebäude)**

Alexander Ostermann und Mechthild Thalhammer

Gäste sind herzlich willkommen!