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MATHEMATIKKOLLOQUIUM

Der Frankreich-Schwerpunkt der Universität Innsbruck und
das Institut für Mathematik laden zu folgendem Vortrag ein:

Stéphane Descombes
Université de Nice, France

Theoretical analysis of splitting methods for reaction-diffusion systems, applications to the numerical simulation of stroke.

In this talk I will explain why splitting methods are a good answer to the question of the simulation of complex systems of reaction-diffusion, complexity coming from the big size of the systems and the multiscale aspect. After a brief introduction, I will present an analysis of the behavior of the errors due to the approximation by splitting methods. Numerical simulations will also be presented on an application in medicine: the simulation of a stroke in a human brain.

Zeit: Dienstag, den 15. April 2008 um 17:15 Uhr

Ort: Viktor-Franz-Hess-Haus, Technikerstraße 25, HS F

Mechthild Thalhammer

Gäste sind herzlich willkommen!