Oberseminar Numerik

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18.01.24
14:15 Uhr
Hilbertraum (05-432)
Staudingerweg 9, 55128 Mainz

„Boundary conditions for first-order hyperbolic relaxation systems"

Abstract:

The first-order hyperbolic relaxation system is a class of time-dependent partial differential equations which model various non-equilibrium phenomena. For such systems, the main interest is to understand the zero relaxation limit. The initial-value problem for the relaxation system has been well-developed and a systematical framework has been built. However, the initial-boundary value problem of the relaxation system is still in the developing stage. In this talk, I will introduce the theory of boundary conditions for general relaxation systems. Particularly, the results on two types of characteristic boundaries and the applications in coupling problems will be presented.

Hierzu sind alle herzlich eingeladen.

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