Oberseminar Numerik

Herr Prof. Dr. Eduard Feireisl
(Academy of Science, Prague)
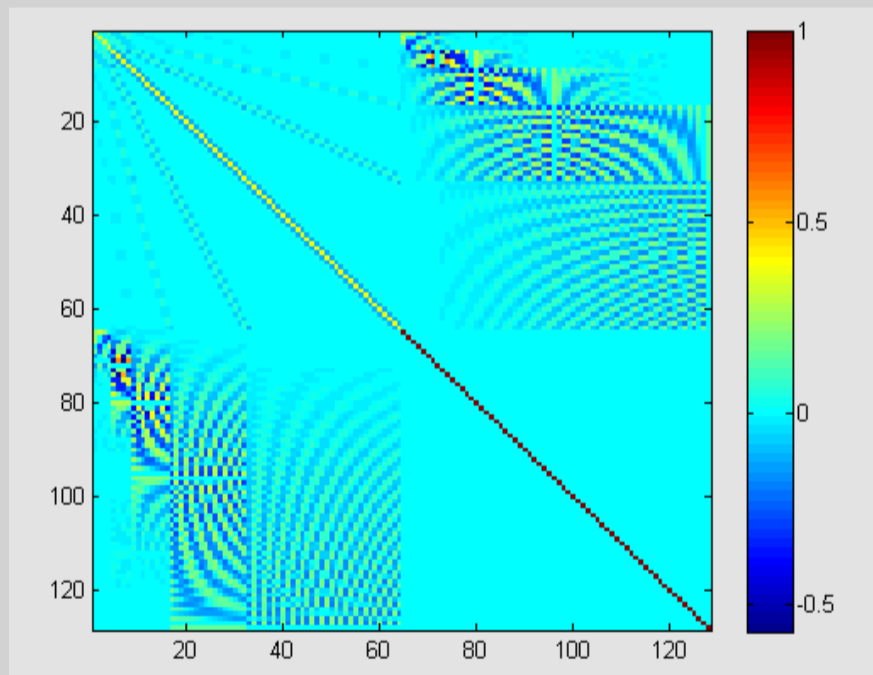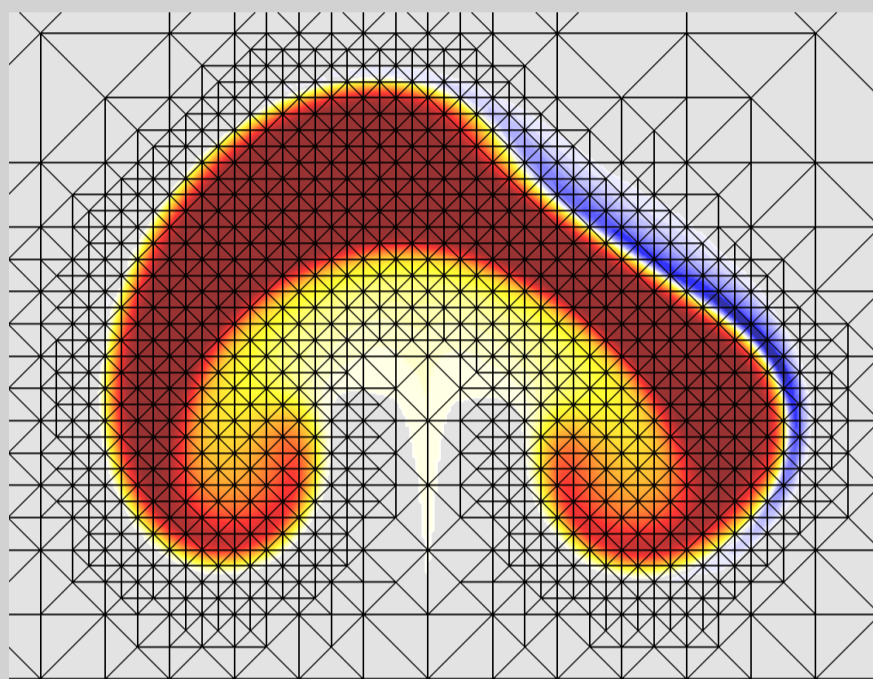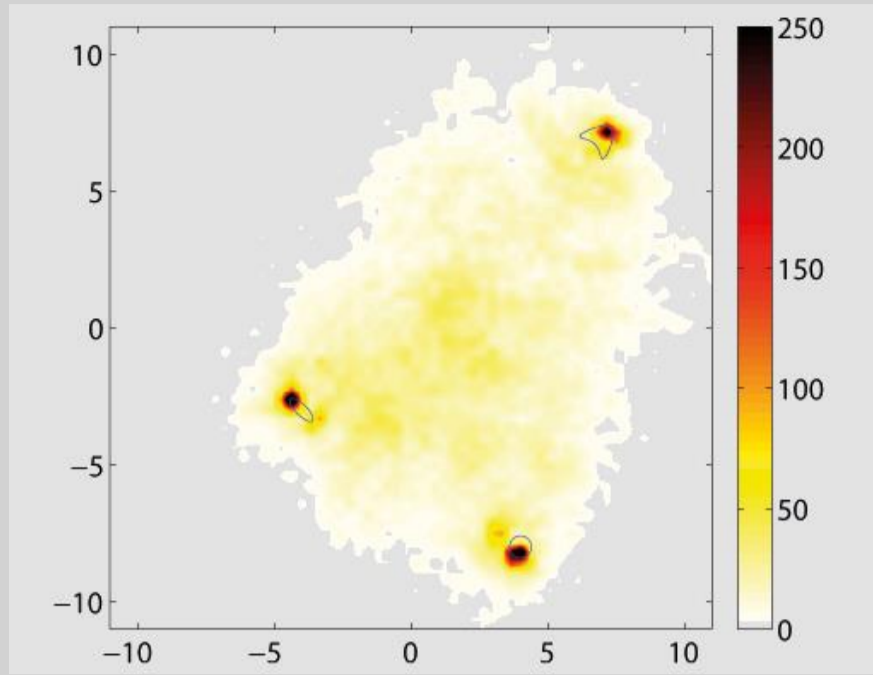
22.06.15
14:15 Uhr
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„*On convergence of a mixed numerical scheme for the full Navier-Stokes-Fourier system* "

Abstract:

We propose a mixed finite-element finite-volume method for the system describing the motion of a compressible, heat conducting viscous fluid. We show stability and convergence of the scheme to a suitable weak solution of the problem. The convergence is unconditional provided the numerical solutions remain bounded. In this case, some rate of convergence can be established

Hierzu sind alle herzlich eingeladen.

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