Oberseminar Numerik

Prof. Eduard Feireisl
(Academy of Sciences, Prag, Tschechien)
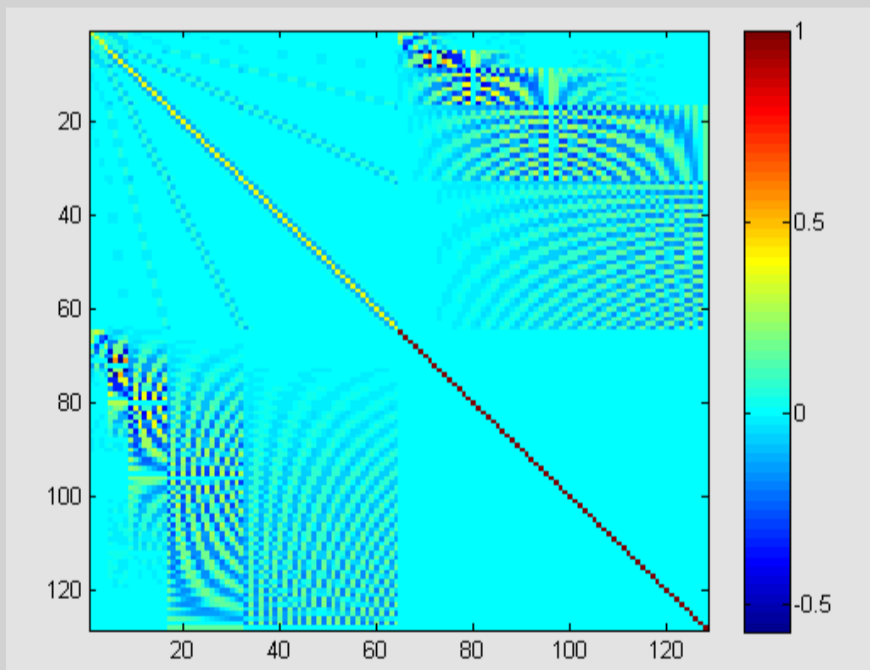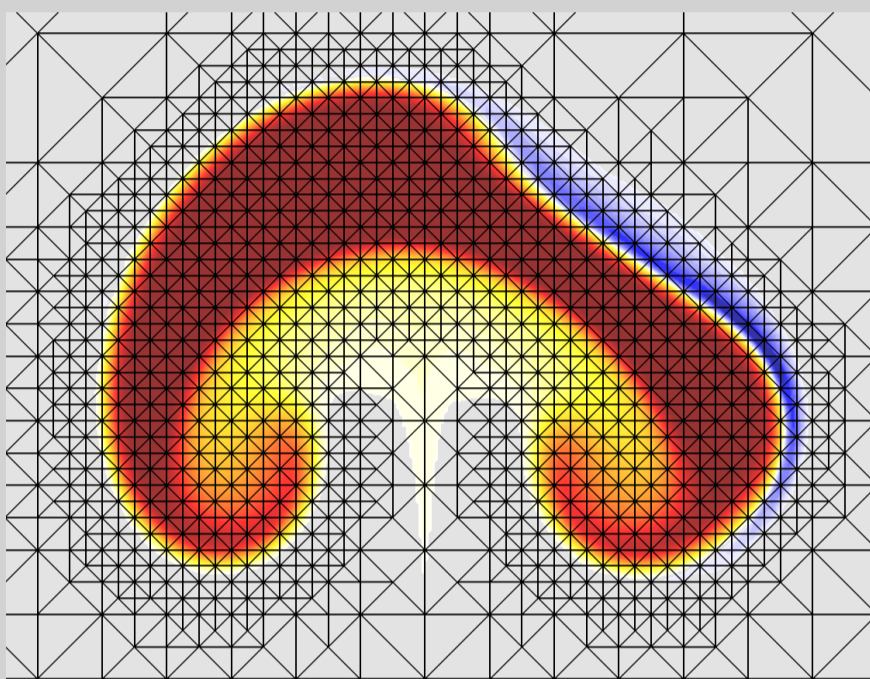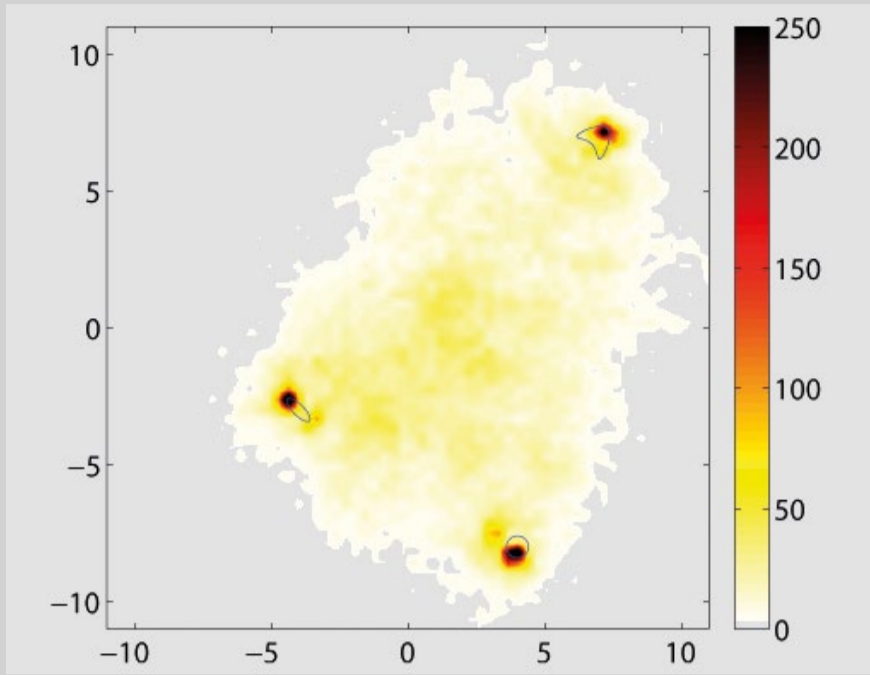
30.11.22
10:15 Uhr
Raum 05-426
Staudingerweg 9, 55128 Mainz

„On the Rayleigh-Benard convection problem"

Abstract:

We discuss the Rayleigh-Benard convection problem for the Navier-Stokes-Fourier system and its Oberbeck-Boussinesq approximation.
Our goal is to obtain the latter as a singular limit in the low Mach/low Froude number regime. In contrast with the problem with conservative boundary conditions, the limit system reveals rather unexpected non-local heat source acting on the boundary.

Hierzu sind alle herzlich eingeladen.

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