Lothar Collatz Seminar
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Dr. Roland Welter (Universität Hamburg)

Asymptotic approximation of compressible Navier-Stokes flows in $\mathbb{R}^3$

Abstract:

In their 1995 paper, Hoff and Zumbrun obtained global solutions for the compressible Navier-Stokes equations, and showed that these solutions are asymptotically well approximated by diffusion waves. Under certain assumptions about the spatial localization of the initial condition, these diffusion waves can be taken to be explicit Gaussian functions. In this talk we will discuss attempts to obtain higher order approximations for compressible Navier-Stokes flows.

For further information please contact

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www.c3s.uni-hamburg.de/news-events/seminar-c3s.html