Einladung zum

Würzburger Mathematischen Kolloquium

Julius-Maximilians-Universität Würzburg • Fakultät für Mathematik und Informatik

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Czech Academy of Sciences, Pargue

Weak vs. strong solutions in the mathematical theory of compressible fluid flows

Mittwoch, 19. Oct. 2016 • 16:15 Uhr

Raum SE 40, Mathematik Ost, Emil-Fischer-Str. 40, Campus Hubland-Nord

Inhaltsangabe

We review some recent results and techniques that emerged in the context of models of compressible fluid flows, notably the Euler and Navier-Stokes systems. On one hand, we show that the classical solutions are stable with respect to a fairly large class of the so-called measure valued solutions. On the other hand, the (inviscid) Euler system may admit infinitely many weak solutions meeting all standard admissibility criteria. Besides these results, we discuss the problem of "universal" admissibility criterion that would identify the physically relevant and possibly unique solutions for given data.

Zu diesem Vortrag laden wir Sie herzlich ein.
Im Anschluss an den Vortrag stehen Kaffee und Tee im Foyer vor dem SE 40 bereit.

Die Dozentinnen und Dozenten der Mathematik