



Oberseminar Mathematische Strömungsmechanik

Institut für Mathematik der Julius-Maximilians-Universität Würzburg

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Computing and visualizing oscillatory solutions to the Euler system

Abstract:

We propose a new method how to compute and visualize oscillations in sequences of numerical solutions approximating the Euler system of gas dynamics. The method is based on computing the Cesaro averages of families of numerical solutions rather than on random choice of the initial data. In such a way, we capture the associated Young measure by means of a convex combination of atomic measures and show convergence that is strong in the physical variables and in the Wasserstein distance in the measure space.

via Zoom video conference (request the Zoom link from klingen@mathematik.uni-wuerzburg.de)

Monday, May 18 at 9:30 am

Zu diesem Vortrag sind Sie herzlich eingeladen.

gez. Christian Klingenberg