

High and low-Mach number regimes for capillary fluids

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Abstract

The talk will be devoted to the high and low Mach number limit for compressible capillary fluids with density dependent viscosity. We will present recent results concerning high-Mach number flows, weak-strong uniqueness property and dispersion of the acoustic waves in the low-Mach number regime. This is a joint work with Donatella Donatelli (DISIM, L'Aquila) and Lars Eric Hientzsch (KIT, Karlsruhe).

Keywords: Mach number regimes, capillary fluids, dispersion of acoustic waves.

References

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