



ID de Contribution: 4

Type: Non spécifié

Mathematical analysis of low Mach number flows for some single and two phase models

jeudi 5 novembre 2015 09:45 (45 minutes)

There has been a lot of progress in the last 10 years for the mathematical analysis of low Mach number flows in the case of single phase flows. Similar questions can be raised in the two phase framework, where one or the two phases are slightly compressible: this talk presents some of the additional difficulties of low Mach number analysis for two phase compressible models, which are widely used in industrial applications. Only one pressure four equations models will be considered (no temperature equations).

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