

On multiphase compressible viscous flows

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During this presentation, I will try to draw up a panel of existing results until now concerning the mathematical justification of multiphase systems for compressible viscous flows. This presentation is the result of collaborations in particular with Xiangdi Huang then Mathieu Hillairet and more recently with Cosmin Burtea, Frédéric Lagoutière and Pierre Gonin-Joubert.