

# EULERIAN MODELS FOR COMPRESSIBLE TWO-PHASE FLOWS

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This talk will present how to construct a full set of models of decreasing complexity for compressible two-phase flows by considering asymptotic limits toward the various equilibria that exist in these flows. In particular we will discuss how some non-equilibrium effects can be retained in these models under the form of second-order dissipative terms. Some representative applications in this hierarchy of models will be presented.