Eulerian and Lagrangian Schemes for Hyperbolic Interface Problems

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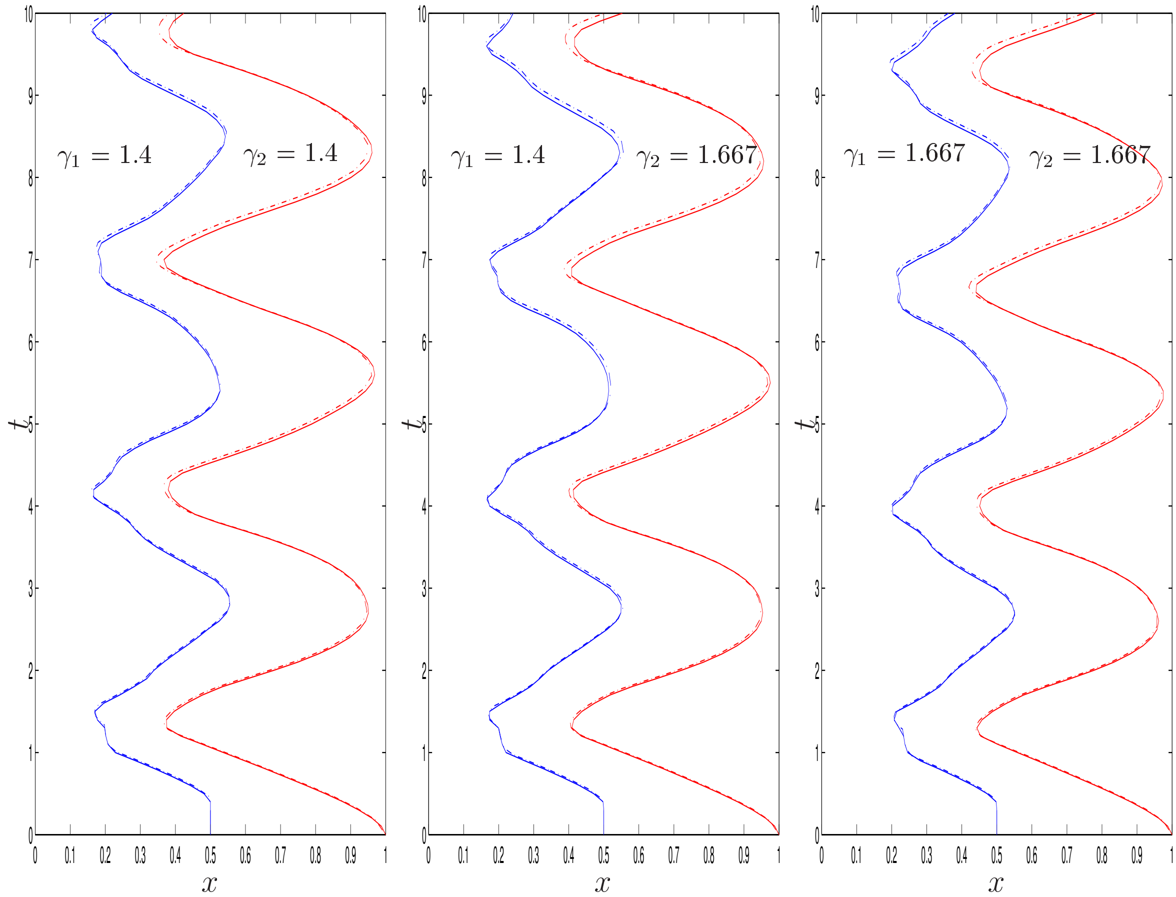

Left $\gamma_1 = \gamma_2 = 1.4$, middle $\gamma_1 = 1.4, \gamma_2 = 1.667$ and right $\gamma_1 = \gamma_2 = 1.667$.

Solid lines Eulerian scheme with 100 grid points.

Dashed lines Lagrangian central scheme with 100 grid points.

R. F. and R. J. LeVeque. Moving-mesh methods for one-dimensional hyperbolic problems using CLAWPACK. Accepted for publication by Computers & Mathematics with Applications, 2001.

R. F. and G. Russo, A Lagrangian Central Scheme for Multi-Fluid Flows. Proceedingds of the ‘lq Eighth International Conference on Hyperbolic Problems Theory, Numerics, Applications”, Magdeburg, February 28 – March 3, 2000.