1046-35-709   **Chunguang Chen*** (`cgchen@math.wvu.edu`), Department of Mathematics, West Virginia University, Morgantown, WV 26505, and **Harumi Hattori**. *An Accurate Riemann Solver for Euler Equation with Phase Change.*

An accurate Riemann solver is presented for Euler equations with phase change. The phase boundary is assumed to be stationary whereas solutions with moving phase boundaries are treated as perturbations of a stationary one. Entropy condition and kinetic criterion are applied to identify the directions and speeds of the phase boundaries. (Received September 10, 2008)