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Shock-free Solutions of the Compressible Euler Equations

Geng Chen, Robin Young

(Submitted on 2 Apr 2012)

We study the structure of shock-free solutions of the compressible Euler equations with large data. We describe conditions under which the Rarefactive/Compressive character of solutions changes, and conditions under which the vacuum is formed asymptotically. We present several new examples of shock-free solutions, which demonstrate a large variety of behaviors.

Comments:35 pagesSubjects:Analysis of PDEs (math.AP)MSC classes:35L65, 76N15, 35L67Cite as:arXiv:1204.0460v1 [math.AP]

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