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**J Humpherys, G Lyng and K Zumbrun\*** (kzumbrun@indiana.edu), Kevin Zumbrun, Dept. Math., Indiana University, Bloomington, IN 47405. *Stability of strong ideal gas shock layers.*

By a combination of numerical Evans function study and asymptotic ODE methods, we show stability of viscous shock layer solutions of the Navier-Stokes equations with ideal gas equation of state, independent of shock strength. This generalizes a corresponding result obtained for the inviscid (Euler) equations by Erpenbeck (spectral stability analysis, 1962) and Majda (nonlinear analysis, 1985). (Received January 15, 2008)