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Alexis F Vasseur* (vasseur@math.utexas.edu). *New development of the relative entropy method applied to shocks of conservation laws.*

We will present new developments of the relative entropy method applied to the study of stability of shocks for Conservation laws. This includes, in particular, L^2 contraction up to a shift, asymptotic analysis for viscous approximations and hydrodynamical limits from kinetic equations. (Received September 11, 2013)