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**Ronghua Pan\*** (panrh@math.gatech.edu), 686 Cherry Street, Atlanta, GA 30332. *Isentropic Approximation.*

In the study of compressible flows, the isentropic model was often used to replace the more complicated full system when the entropy is near a constant. We will discuss the mathematical justification of isentropic approximation in Euler flows and in Navier-Stokes-Fourier flows. This is based on the joint work with Y. Chen, J. Jia, and L. Tong. (Received August 29, 2019)