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On compactness of solutions to the compressible isentropic Navier-Stokes equations when the density is not square integrable

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Abstract: We show compactness of bounded sets of weak solutions to the isentropic compressible Navier-Stokes equations in three space dimensions under the hypothesis that the adiabatic constant $\gamma > 3/2$.

Keywords: compressible flow, weak solutions, compactness

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