

Structure of entropy solutions to Isentropic Euler in dimension 1

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In this talk, we present structure results for entropy solutions to the one-dimensional isentropic Euler equations in the case $\gamma = 3$. Assuming the solution stays uniformly away from vacuum, and under an additional boundedness assumption, we show that the jump set of an entropy solution is 1-rectifiable. Along the way, we also obtain rigidity results of independent interest. Joint with W. Golding and L. Rust.

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