

Contribution Title:                   NONLINEAR REGULARIZING EFFECTS FOR HYPERBOLIC CONSERVATION LAWS

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Invited speaker:                      Topical session

YRS seminar:                         NO

The Tartar-DiPerna compensated compactness method, which has been used to construct global entropy solutions with large data of hyperbolic systems of conservation laws (in one space dimension), can also be applied to estimate the regularity of these solutions. Some examples (scalar conservation laws and isentropic Euler systems) will be discussed in the talk.