Zero limit of dissipative-dispersive perturbed conservation laws

Abstract
We consider the initial value problem for dissipative-dispersive perturbations of scalar conservation laws, say generalized KdV-Burgers equations, and we study the convergence of the approximated solutions to the entropy weak solution of the limit (hyperbolic) conservation law. This is a step on the proof of a “vanishing viscosity-capillarity method”. We use the setting of DiPerna’s measure-valued solution uniqueness result.

All are cordially invited