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W. Lafayette, IN 47907. *Rough conservation laws.*

Conservation laws are a class of PDEs which includes Burgers' equation (in its inviscid form), and whose solutions are known to develop discontinuities. Methods based on regularization by a semigroup are thus ruled out in this context, which makes the study of conservation equations very different from the usual parabolic setting. After reviewing some of the recent advances in the theory of stochastic conservation laws, we will introduce a setting which allows for a definition and resolution of a general class of rough conservation laws. The main tools are (i) A convenient notion of rough kinetic solution (ii) An estimate of Gronwall type, related to some structures called unbounded rough drivers. According to time, we will try to introduce some of these notions. This presentation is based on a joint work with A. Deya, M. Gubinelli and M. Hofmanova. (Received January 30, 2016)