Numerical methods for conservation laws on graphs Ulrik Skre Fjordholm @ (University of Oslo), Markus Musch, Nils Henrik Risebro R 3.07, R 3.28@ Thu Z1 09:00-09:50

We consider a set of scalar conservation laws on a graph. Based on a choice of stationary states of the problem – analogous to the constants in Kruzkhov's entropy condition – we establish the uniqueness and stability of entropy solutions. For rather general flux functions we establish the convergence of an easy-to-implement Engquist–Osher-type finite volume method.