

1106-VL-2026      **Ilija Jegdic\*** (i\_jegdic@yahoo.com). *Overlapping grids for hyperbolic conservation laws.*

We consider hyperbolic scalar conservation laws and the problem of numerically computing the solution using two overlapping grids. We develop a method, based on the finite element method, and prove that our numerical approximations converge not only to a weak solution, but to the entropy solution. We present numerical results for the Burgers' equation and the Lax shock-tube problem. (Received September 15, 2014)