

FIRST-ORDER RATE OF CONVERGENCE FOR CONSERVATION LAWS WITH PIECEWISE SMOOTH SOLUTIONS

ZHEN-HUAN TENG [†]

We will show that when the entropy solution for scalar conservation laws is piecewise smooth, then for various first-order approximations the rate of both globe and local convergence is first-order.

[†] School of Mathematical Sciences, Peking University, Beijing 100871, People's Republic of China. E-mail: tengzh@sxx0.math.pku.edu.cn. The research of this author is supported by the China State Major Key Project for Basic Research.