

Stability of Shock Profiles for the Lax–Wendroff Scheme

We will discuss the shock profiles for the Lax–Wendroff scheme. This numerical scheme constructs solutions to systems of conservation laws, with shock waves providing the simplest example of discontinuous solutions. In the case of scalar conservation laws, we will recall a result on the existence of shock profiles for this scheme and study their stability. This is a joint result with Jean-François Coulombel.

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