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On a nonlinear flux--limited equation arising in the transport of morphogens

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(Submitted on 28 Jul 2011)

Motivated by a mathematical model for the transport of morphogenes in biological systems, we study existence and uniqueness of entropy solutions for a mixed initial-boundary value problem associated with a nonlinear flux-limited diffusion system. From a mathematical point of view the problem behaves more as an hyperbolic system that a parabolic one.

Subjects: **Analysis of PDEs (math.AP)**

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