

[Depauw, Nicoals](#)

**Nonuniqueness of transport by an almost BV vector field.** (Non-unicité du transport par un champ de vecteurs presque BV.) (French) [Zbl 1063.35054](#)

[Sémin. Équ. Dériv. Partielles, Éc. Polytech., Cent. Math., Palaiseau 2002-2003, Exp. No. XIX, 9 p. \(2003\).](#)

This paper concerns a non-characteristic Cauchy problem for a transport equation with non-regular velocity field. An example of nonuniqueness is presented, and uniqueness is proved under Lipschitz and divergence free conditions of the velocity field.

Reviewer: [Lutz Recke \(Berlin\)](#)

**MSC:**

[35F20](#) Nonlinear first-order PDEs

[35L60](#) First-order nonlinear hyperbolic equations

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