

**Korpusov, M. O.**

**On the blow-up of solutions of the Benjamin-Bona-Mahony-Burgers and Rosenau-Burgers equations.** (English) [Zbl 1238.35101](#)

Nonlinear Anal., Theory Methods Appl., Ser. A, Theory Methods 75, No. 4, 1737-1743 (2012).

Summary: We study sufficient conditions of the blow-up of solutions of initial-boundary-value problems for the well-known Benjamin-Bona-Mahony-Burgers and Rosenau-Burgers equations on a segment. Note that this is the first result for these equations in the “blow-up” area.

**MSC:**

[35Q35](#) PDEs in connection with fluid mechanics

[35B44](#) Blow-up in context of PDEs

[76B15](#) Water waves, gravity waves; dispersion and scattering, nonlinear interaction

Cited in 7 Documents

**Keywords:**

blow-up; Benjamin-Bona-Mahony-Burgers and Rosenau-Burgers equations

**Full Text:** [DOI](#)

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