

**Domrin, A. V.**

**On holomorphic solutions of equations of Korteweg-de Vries type.** (English. Russian original)

Zbl 1291.35278

Trans. Mosc. Math. Soc. 2012, 193-206 (2012); translation from Tr. Mosk. Mat. O.-va 73, No. 2, 241-257 (2012).

Summary: We show that, for any of the equations indicated in the title, every solution locally holomorphic in  $x$  and  $t$  admits global meromorphic continuation in  $x$  for each  $t$  with trivial monodromy at each pole. By way of application, we describe all possible envelopes of meromorphy of local holomorphic solutions of the Boussinesq equation.

**MSC:**

35Q53 KdV equations (Korteweg-de Vries equations)

30B40 Analytic continuation of functions of one complex variable

Cited in 1 Document

**Keywords:**

soliton equation; holomorphic solution; analytic continuation

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

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