

Starovoitov, V. N.

Uniqueness of a solution to the problem of evolution of a point vortex. (English. Russian original) [Zbl 0854.76021](#)

[Sib. Math. J. 35, No. 3, 625-630 \(1994\)](#); translation from [Sib. Mat. Zh. 35, No. 3, 696-701 \(1994\)](#).

Solvability of the problem of evolution of a point vortex in a nonpotential flow of an ideal fluid was proved earlier by the author. The aim of the present article consists in proving uniqueness for a solution to the problem under some auxiliary assumptions on the initial data.

MSC:

[76B47](#) Vortex flows for incompressible inviscid fluids

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

Cited in **2** Documents

Keywords:

[Cauchy problem](#); [generalized solution](#); [ideal fluid](#); [initial data](#)

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References:

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- [3] I. N. Vekua, *Generalized Analytic Functions* [in Russian], Nauka, Moscow (1988). · [Zbl 0698.47036](#)

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