

**Vishik, Misha**

**Hydrodynamics in Besov spaces.** (English) Zbl 0926.35123  
Arch. Ration. Mech. Anal. 145, No. 3, 197-214 (1998).

The Euler equation of an ideal incompressible fluid in borderline Besov spaces is studied. The novelty of this study is the logarithmic inequality which implies global existence in time for a solution with vorticity in a certain functional space.

Reviewer: [V.A.Sava \(Iași\)](#)

**MSC:**

[35Q35](#) PDEs in connection with fluid mechanics  
[35A05](#) General existence and uniqueness theorems (PDE) (MSC2000)

Cited in **2** Reviews  
Cited in **99** Documents

**Keywords:**

[Euler equation](#); [Besov space](#); [transport equation](#); [existence](#); [vorticity in a certain functional space](#)

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