

**Cordoba, Diego; Fefferman, Charles**

**On the collapse of tubes carried by 3D incompressible flows.** (English) Zbl 0999.76020  
*Commun. Math. Phys.* 222, No. 2, 293-298 (2001).

Summary: We define the notion of a “regular tube”, and prove that a regular tube convected by a three-dimensional incompressible flow cannot collapse to zero thickness in finite time.

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

**MSC:**

[76B03](#) Existence, uniqueness, and regularity theory for incompressible inviscid fluids

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

Cited in **20** Documents

**Keywords:**

singularity formation; zero thickness collapse; Euler equations; regular tube; three-dimensional incompressible flow

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