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# Mathematics Colloquium

# The Ubiquity of Fluid Instability

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Thursday, March 6, 2008, 3:30 p.m.
Room 6635 South Hall

**Abstract:** We argue that in some appropriate sense almost all steady flows of an ideal fluid are unstable. However there are different kinds of instability, some of which could be called "slow" as opposed to "fast" instabilities associated with isolated unstable eigenvalues. We will discuss the behaviour of the Euler and Navier-Stokes equations in the context of fluid instability.

Information about future mathematics colloquia can be found at
http://www.math.ucsb.edu/~drm/colloquiumw08.htm