

A Proof of Onsager's Conjecture for the Incompressible Euler Equations

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In an effort to explain how anomalous dissipation of energy occurs in hydrodynamic turbulence, Onsager conjectured in 1949 that weak solutions to the incompressible Euler equations may fail to exhibit conservation of energy if their spatial regularity is below $1/3$ -Hölder. I will discuss a proof of this conjecture that shows that there are nonzero, $(1/3-\epsilon)$ -Hölder Euler flows in 3D that have compact support in time.

Orateur: ISETT, Philip (Caltech)