YONSEI
Math-CSE Colloquium

Small-scale creation in incompressible fluid dynamics

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The incompressible Euler and Navier-Stokes equations describe the dynamics of volume preserving fluids, and it is well known that their solutions become "turbulent" when the viscosity is small. Recently there has been significant progress on rigorous proofs of "small scale creation" for these incompressible fluid models. We discuss several strategies towards this goal.

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