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Theodore D. Drivas −Lecture 2

Tuesday, 29 April 2025 14:00 (2 hours)

We will discuss some foundational aspects of three-dimensional incompressible fluid turbulence, including guiding experimental observations, Kolmogorov's 1941 theory on the structure of a turbulent flow, Onsager's 1949 conjecture on anomalous dissipation and weak Euler solutions, and Landau's Kazan remark concerning intermittency. Mathematical constraints on, as well as constructions that exhibit features of turbulent behavior will be discussed.