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Information production in homogeneous isotropic turbulence

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One of the most striking features of turbulent fluid flows is their seemingly random and unpredictable nature. However, since such fluids are described by the Navier-Stokes equations, which are entirely deterministic in nature, their motion cannot be truly random. In reality, turbulent flows exhibit what is commonly referred to as deterministic chaos. The time evolution of such systems is characterized by an extreme sensitivity to initial conditions which has profound consequences for their predictability.

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