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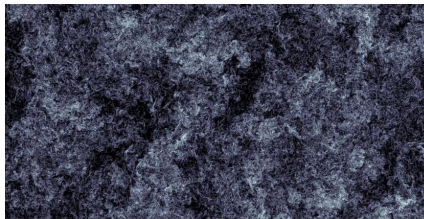
LAGRANGIAN TURBULENCE, GENERALIZED FLOWS, & IRREVERSIBILITY

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IRREVERSIBILITY



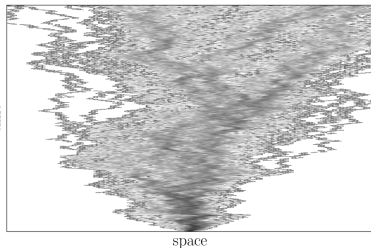
Local energy dissipation in a slice of a 3D turbulent flow at $Re_\lambda = 720$

Non-Lipschitz velocity fields

$$\delta v_{\parallel} \sim r^h, \quad h < 1$$



LAGRANGIAN
TURBULENCE



Intrinsic stochasticity of trajectories



GENERALIZED FLOWS ?

