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The Obukhov–Corrsin spectrum of passive scalar turbulence through anomalous regularization

Tuesday, 13 January 2026 10:30 (1 hour)

The Obukhov–Corrsin spectrum predicts the distribution of Fourier mass for a passive scalar field advected by a "turbulent" velocity field with spatial regularity between 0 and 1 and subject to a time-stationary forcing. We discuss how a form of the Obukhov–Corrsin spectrum holds as a consequence of a sharp anomalous regularization result as well as the proof of this anomalous regularization for a broad class of Kraichnan-type models.

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