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Structure functions in shell models of turbulence

Thursday, 28 July 2022 12:00 (30 minutes)

Shell models are simplified models of turbulence, describing discrete Fourier modes of velocity coupled via purely local interactions in spectral space. Yet these simple models reproduce all characteristic features of Navier-Stokes turbulence, including intermittency. I will present a FRG analysis of these models, and show that the turbulent regime corresponds to a non-trivial fixed-point. I will explain its specific properties and present the results for the structure functions.

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