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On the zero viscosity limits of turbulence models

Properties of the zero viscosity limits of various turbulence models will be discussed. Ranging from Spectral Reduction [1] to low degree-of-freedom models that describe the transition to turbulence. Ideas about constructing dissipation-free models appropriate for inertial range dynamics will be described.

[1] J. C. Bowman, B. A. Shadwick, and P. J. Morrison, "Spectral Reduction: A Statistical Description of Turbulence," *Physical Review Letters* vol. 83, 5491–5494 (1999).