

MATHEMATICAL REFORMULATION OF THE KOLMOGOROV-RICHARDSON ENERGY CASCADE IN TERMS OF VORTEX STRETCHING

TSUYOSHI YONEDA, SUSUMU GOTO, AND TOMONORI TSURUHASHI

ABSTRACT. In this paper, with the aid of direct numerical simulations (DNS) of forced turbulence in a periodic domain, we mathematically reformulate the Kolmogorov-Richardson energy cascade in terms of vortex stretching. By using the description, we prove that if the Navier-Stokes flow satisfies a new blowup criterion in terms of the enstrophy production rate, then the flow does not blow up. Our DNS results seem to support this blowup criterion. Next, we mathematically construct the hierarchy of tubular vortices, which is statistically self-similar in the inertial range. Under the assumptions of the scale-locality of the vortex stretching/compressing (i.e. energy cascade) process and the statistical independence between vortices that are not directly stretched or compressed, we can derive the $-5/3$ power law of the energy spectrum of statistically stationary turbulence without directly using the Kolmogorov hypotheses.

1. INTRODUCTION

Since the seminal study by Orszag and Patterson (1972) [21], the numerical integration (i.e. the direct numerical simulations, DNS) of the Navier-Stokes equation without any turbulence model has been playing important roles in turbulence researches; see Ref. [12] for a review of DNS of turbulence. One of the most important features unveiled by DNS of turbulence is that turbulence is not random but composed of coherent motions. In particular, recent DNS [7, 9, 18, 19] of turbulence at sufficiently high Reynolds numbers have revealed that there exists a hierarchy of coherent vortices in developed turbulence.

In the present study, we investigate the energy cascade picture [23, 5] in turbulence of an incompressible fluid with uniform density and kinematic viscosity ν under periodic boundary conditions in three orthogonal directions; and, on the basis of the picture, we develop arguments on the global-in-time smooth solution of the Navier-Stokes equation. Since we need external force to drive flow in a periodic cube, we impose body force f which injects the kinetic energy at a large scale \mathcal{L} . Here, we define the Reynolds number by

$$(1.1) \quad Re = U\mathcal{L}/\nu$$

with U being the characteristic velocity directly driven by f . When Re is sufficiently high (more concretely, higher than $O(10^4)$ [4]), turbulence is composed of vortices with various length scales. We reemphasize that these vortices are coherent

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