



# **Mathematical Foundation of Turbulent Viscous Flows: Lectures given at the C.I.M.E. Summer School held in Martina Franca, Italy, September 1-5, 2003 (Lecture Notes in Mathematics)**

*P. Constantin, Giovanni Gallavotti, Alexandre V. Kazhikhov, Yves Meyer, Seiji Ukai*

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*Constantin* presents the Euler equations of ideal incompressible fluids and the blow-up problem for the Navier-Stokes equations of viscous fluids, describing major mathematical questions of turbulence theory. These are connected to the Caffarelli-Kohn-Nirenberg theory of singularities for the incompressible Navier-Stokes equations, explained in *Gallavotti's* lectures. *Kazhikhov* introduces the theory of strong approximation of weak limits via the method of averaging, applied to Navier-Stokes equations. *Y. Meyer* focuses on nonlinear evolution equations and related unexpected cancellation properties, either imposed on the initial condition, or satisfied by the solution itself, localized in space or in time variable. *Ukai* discusses the asymptotic analysis theory of fluid equations, the Cauchy-Kovalevskaya technique for the Boltzmann-Grad limit of the Newtonian equation, the multi-scale analysis, giving compressible and incompressible limits of the Boltzmann equation, and the analysis of their initial layers.

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