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Sur l'interaction des petits et grands tourbillons dans des écoulements turbulents. (On the interaction of small and large eddies in turbulent flows). (French) [Zbl 0624.76072](#)

C. R. Acad. Sci., Paris, Sér. I 305, 497-500 (1987).

We present some results concerning the interaction of small and large eddies in turbulent flows. We show that the amplitude of small structures decays exponentially to a small value and we infer from this a simplified interaction law of small and large eddies. Beside their intrinsic interest for the understanding of the physics of turbulence, these results lead to new numerical schemes which will be studied in a separate work.

MSC:

76F99 Turbulence

Cited in **2** Reviews
Cited in **21** Documents

Keywords:

interaction of small and large eddies; interaction law