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Ricardo Rosa* (rrosa@ufrj.br). *Statistical solutions of the Navier-Stokes equations*. Preliminary report.

We recall the concept of statistical solution of the three-dimensional Navier-Stokes equations, which is a rigorous formalization of the notion of ensemble averages of turbulent flows, and address a number of analytical and dynamical properties of such object. (Received February 11, 2008)