

A portrait of Vladimir Šverák, a man with glasses, wearing a suit and tie, looking slightly to the right. The background is dark and out of focus.

The Third Brooke Benjamin Lecture on Fluid Dynamics

Friday 12th June 2009 at 5pm

Lecture Theatre 2
Mathematical
Institute
University of Oxford

Vladimir Šverák
University of Minnesota

Mathematical aspects of the Navier-Stokes equations

The flow of fluids is usually modelled by the Navier-Stokes equations. The mathematical theory of these equations remains incomplete, and the problem of reliably calculating their solutions is often out of reach of present-day computers. This lecture will explain the source of the mathematical difficulties, review some classical results, and mention some recent advances. The focus will be on the incompressible case, for example describing the flow of water.

All are warmly invited to attend the lecture and reception that follows.

<http://www.maths.ox.ac.uk/events/brooke-benjamin-lecture>