

## **V. Sverak:** On Serrin's Weak-Strong Uniqueness Theorem for the Navier-Stokes Equation

In 1930s Leray introduced the notion of weak solutions for the Navier-Stokes equations and showed that the classical Cauchy problem has at least one global solution in this class. However, the uniqueness of the solutions has not been established. Around 1960, extending earlier works of several authors on the subject, Serrin identified a class of solutions for which uniqueness can be proved. We will discuss recent developments concerning these topics, which suggest that Serrin's assumptions are close to being optimal.