Stanford Department of Mathematics Colloquium

ON THE GLOBAL REGULARITY FOR THE THREE-DIMENSIONAL NAVIER-STOKES AND RELEVANT EQUATIONS

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Abstract

In this talk I will discuss the question of global regularity of the three-dimensional Navier-Stokes equations and other related equations in fluid dynamics. I will emphasize the mathematical as well as the physical difficulties in achieving such global regularity result. Moreover, I will discuss the effect of rotation on "regularizing" three-dimensional flows.

Thursday, January 24
4:15 p.m.
Room 380-F

http://math.stanford.edu/coll/0708/