

PDE's and Fluid Mechanics Seminar

Miércoles, 4 de mayo de 2016

15:00 h. **Sala Naranja** (ICMat, Campus de Cantoblanco)

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Global weak solutions to Cauchy problem for Navier-Stokes
equations with non-energy initial data

Abstract:

This talk addresses a question concerning the behaviour of a sequence of global solutions to the Navier-Stokes equations, with the corresponding sequence of smooth initial data being bounded in the Lebesgue space L^3 or in weak Lebesgue space $L^{3,\infty}$. It is closely related to the question of what would be a reasonable definition of global weak solutions with a non-energy class of initial data, including the aforementioned Lebesgue spaces.