Cornell University Library

We gratefully acknowledge support from the Simons Foundation and member institutions

arXiv.org > math > arXiv:1107.5985

Search or Article-id

(Help | Advanced search)

All papers ▾ | Go!

Mathematics > Analysis of PDEs

Convergence of a sequence of solutions of the stochastic two-dimensional equations of second grade fluids

Paul Razafimandimby, Mamadou Sango

(Submitted on 29 Jul 2011)

We study the limit of the stochastic model for two dimensional second grade fluids subjected to the periodic boundary conditions as the stress modulus tends to zero. We show that under suitable conditions on the data the whole sequence of strong probabilistic solutions (u^{α}) of the stochastic second grade fluid converges to the unique strong probabilistic solution of the stochastic Navier-Stokes equations.

Subjects: **Analysis of PDEs (math.AP)**

Cite as: **arXiv:1107.5985 [math.AP]**

       (or **arXiv:1107.5985v1 [math.AP]** for this version)

Submission history

From: Paul Razafimandimby [view email]

[v1] Fri, 29 Jul 2011 14:53:10 GMT (18kb)

Which authors of this paper are endorsers?

Link back to: arXiv, form interface, contact.