ADDENDUM

Addendum to: The Liouville Theorem for the Steady-State Navier–Stokes Problem for Axially Symmetric 3D Solutions in Absence of Swirl

Mikhail Korobkov, Konstantin Pileckas and Remigio Russo

Addendum to: J. Math. Fluid Mech. (2015) 17:287–293
DOI 10.1007/s00021-015-0202-0

The authors were kindly informed by Professor G. Seregin that the main theorem (Theorem 1.1) in their paper follows from a Liouville type theorem for bounded ancient axially symmetric solutions with no swirl to the non-stationary Navier–Stokes equations proved in [1] (Theorem 5.2). We would like to emphasize that, at the time when their paper was published, the authors were not aware that the result was already known. In any case, their proof employs an entirely independent and different method and gives also some conditional results for the stationary Euler system.

Reference

- [1] Koch, G., Nadirashvili, N., Seregin, G., Sverak, V.: Liouville theorems for the Navier–Stokes equations and applications. *Acta Math.* **203**, 83–105 (2009)

Mikhail Korobkov
Sobolev Institute of Mathematics
Novosibirsk State University
Koptiyuga pr. 4, Pirogova Str. 2
630090 Novosibirsk, Russia
e-mail: korob@math.nsc.ru

Remigio Russo
Seconda Università di Napoli
Via Vivaldi 43
81100 Caserta
Italy
e-mail: remigio.russo@unina2.it

Konstantin Pileckas
Faculty of Mathematics and Informatics
Vilnius University
Naugarduko Str., 24
Vilnius 03225, Lithuania
e-mail: pileckas@ktl.mii.lt

(published online: January 11, 2016)