

Zhou, Yong

A new regularity criterion for the Navier-Stokes equations in terms of the direction of vorticity. (English) [Zbl 1072.35148](#)
[Monatsh. Math.](#) 144, No. 3, 251-257 (2005).

A new regularity criterion in terms of the direction of vorticity for a Leray-Hopf weak solution to the Navier-Stokes equations is given.

Reviewer: [Valeriu Al. Sava \(Iași\)](#)

MSC:

[35Q30](#) Navier-Stokes equations

[76D03](#) Existence, uniqueness, and regularity theory for incompressible viscous fluids

[35B65](#) Smoothness and regularity of solutions to PDEs

[76D05](#) Navier-Stokes equations for incompressible viscous fluids

Cited in **1** Review

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Keywords:

[Navier-Stokes equations](#); [regularity](#); [weak solution](#); [Leray-Hopf solution](#)

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