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**Existence and smoothness results for a new class of  $n$ -dimensional Navier-Stokes equations.**

(English) [Zbl 1428.35296](#)

[Rocky Mt. J. Math.](#) 49, No. 5, 1595-1615 (2019).

Summary: We propose and develop a new approach to prove the global existence of solutions for a class of  $n$ -dimensional Navier-Stokes equations.

**MSC:**

[35Q30](#) Navier-Stokes equations

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

[46E35](#) Sobolev spaces and other spaces of “smooth” functions, embedding theorems, trace theorems

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

[35K55](#) Nonlinear parabolic equations

Cited in **1** Review  
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**Keywords:**

[Navier-Stokes equations](#); [global existence](#)

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**References:**

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