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C DENG* (dengxznu@gmail.com), Penn State University, PA , and **X Yao**
(yaoxiaohua@ccnu.edu.cn), , Peoples Rep of China. *Ill-posedness for the Navier-Stokes equations
in Triebel-Lizorkin space in R^3 .*

In this paper, we study the ill-posedness of the Navier-Stokes equations in Triebel-Lizorkin spaces in the whole three dimensional space by constructing some special smooth initial data with finite energy, which naturally connects the Koch-Tataru's well-posedness work [Adv Math, 2001] and Bourgain-Pavlovic's ill-posedness work [JFA, 2008]. (Received February 18, 2013)