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Po-Han Hsu*, Department of Mathematics, Louisiana State University, Baton Rouge, LA 70803,
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Rouge, LA 70803. *Exponential inequalities for exit times of stochastic Navier-Stokes equations.*

Exponential estimates for probability of exit from a ball of radius r by time T for solutions of the two-dimensional stochastic Navier-Stokes equations will first be derived, and then studied in the context of Wentzell-Freidlin type large deviations principle. The existence of similar such estimates will also be presented for a suitable class of stochastic evolutions with multiplicative noise. (Received September 12, 2019)