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Parisa Fatheddin* (fatheddin.1@osu.edu), 1465 Mt Vernon Ave, Marion, OH 43302, and
Zhaoyang Qiu and **Yanbin Tang**. *Large deviation principle for two-dimensional stochastic Navier-Stokes and stochastic Boussinesq equations.*

We consider the large deviation principle by the classical Azencott method for two-dimensional stochastic Navier-Stokes equation and as applications derive the law of the iterated logarithm and exit problem. Large deviations by weak convergence approach is also presented for two-dimensional stochastic Boussinesq equation. (Received August 11, 2020)