Large deviations and uncertainty relations in periodically forced Markov process

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We will present large deviation principles for the empirical measure, flow and current of Markov process time-periodically forced. As an application we derive some trade-off relations between speed and precision for time-integrated currents.

The above results have been obtained in collaboration with A.C. Barato, L. Bertini, A. Faggionato and D. Gabrielli.

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