Quasi invariant measures for the Muller's ratchet

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Abstract

I will give an overview of some techniques to prove the existence of quasi invariant measures for finite and infinite-dimensional diffusion systems. I will focus on an evolutionary model for the Muller's ratchet, discussing the asymptotic behavior for long times, large dimension, and small noise, and weighing up the information provided by quasi invariant measures and large deviations.

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