

Nils Berglund

Mathematics > Probability

(Submitted on 28 Jun 2011)

generalisations

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Kramers' law describes the mean transition time of an overdamped Brownian particle between local minima in a potential landscape. We review different approaches that have been followed to obtain a mathematically rigorous proof of this formula. We also discuss some generalisations, and a case in which Kramers' law is not valid. This review is written for both mathematicians and theoretical physicists, and endeavours to link concepts and terminology from both fields.

Kramers' law: Validity, derivations and

Comments:24 pages, 9 figuresSubjects:Probability (math.PR); Mathematical Physics (math-ph); History and Overview
(math.HO)MSC classes:58J65, 60F10, (primary), 60J45, 34E20 (secondary)Cite as:arXiv:1106.5799 [math.PR]
(or arXiv:1106.5799v1 [math.PR] for this version)

Submission history

From: Nils Berglund [view email] [v1] Tue, 28 Jun 2011 20:45:19 GMT (164kb)

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