

Garbaczewski, P.

The Ehrenfest theorem for Markov diffusions. (English) [Zbl 0865.60097](#)

Haba, Zbigniew (ed.) et al., Stochasticity and quantum chaos. Proceedings of the 3rd Max Born Symposium, Sobótka Castle, Poland, September 15-17, 1993. Dordrecht: Kluwer Academic Publishers. Math. Appl., Dordr. 317, 57-62 (1995).

Summary: The transformation connecting transition densities of the diffusion process with the respective Feynman-Kac kernels induces the local field of accelerations which equals the gradient of the Feynman-Kac potential and becomes the straightforward analog of the Ehrenfest theorem.

For the entire collection see [\[Zbl 0823.00026\]](#).

MSC:

[60K35](#) Interacting random processes; statistical mechanics type models; percolation theory

[82B05](#) Classical equilibrium statistical mechanics (general)

Keywords:

[Fokker-Planck equation](#); [Feynman-Kac kernels](#); [Feynman-Kac potential](#); [Ehrenfest theorem](#)