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On magnetisation reversal for ferromagnetic wire

We prove the existence and the uniqueness of a strong solution to one space-dimensional stochastic Landau–Lifshitz Gilbert Equations and establish the Large Deviation Principle for the laws of the solutions on finite time intervals. We apply these results to the study of magnetisation reversal with nontrivial anisotropy energy.

This is based on joint research with B. Goldys and T. Jegaraj.