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Nonlinear spin-wave processes in the presence of antisymmetric magnetic interactions

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Abstract

A generalization of the Hamiltonian approach of the investigation of nonlinear spin-wave processes to the case of the presence of antisymmetric quadratic magnetic self-interactions is presented. As an example, nonlinear processes in a ferromagnetic nanowire exhibiting interfacial Dzyaloshinskii-Moriya interaction are considered.

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