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Travelling waves in ferromagnetic nanotrips

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We study the existence, uniqueness, and symmetry of variational domain-wall traveling waves for the LLG equation. The model is based on an energy functional obtained in a suitable asymptotic regime of the micro-magnetics for infinitely long thin film ferromagnetic strips in which the magnetization is forced to lie in the film plane.

Primary author: MORINI, Massimiliano (Università di Parma)

Presenter: MORINI, Massimiliano (Università di Parma)