

Stability of walls for narrowing ferromagnetic nano-wires.

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SUMMARY

Following previous studies on ferromagnetic nano-wires, we are interested in narrowing nano-wires. We prove the existence of walls where the narrowing of the wire is effective for the magnetization switching and induces stability for the wall profile.

Keywords: ferromagnetic materials, Landau-Lifschitz equations, multiscale effects

AMS Classification: .

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