

Abstract Submitted
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Voltage induced by domain wall motion in a ferromagnetic nanowire¹ YANG LIU, OLEG TRETIAKOV, ARTEM ABANOV, Department of Physics, Texas A&M University — We study current-induced domain-wall motion in a narrow ferromagnetic wire. This motion is described by effective equations of motion which depend only on four parameters. These parameters are set by the magnetic Hamiltonian and the shape of the wire. We propose a new way to measure these parameters by measuring time dependent voltage generated by the domain wall motion.

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