

## **Domain wall dynamics in notched ferromagnetic nanowires**

Ferromagnetic nanowires have promising applications in data storage. In such devices, the information is encoded by Domain Walls (DW) which are thin zones of magnetization reversal. The magnetization behavior is described by the non linear Landau-Lifschitz model. In this talk, we investigate the stability of DW configurations. In particular we highlight DW pinning properties by notches patterned along the wire, and DW depinning effect of applied magnetic field.

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