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Reorientation of Magnetization in Thin Films

Bengü KAPLAN

Department of Physics,

University of Erciyes,

38039 Kayseri - TURKEY

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 [Authors](#)

Abstract: The spin wave energy is determined by the competition between uniaxial and cubic anisotropy. We discuss the reorientation temperature T_R of magnetization in two-dimension and calculate its dependence on the exchange, J , and the uniaxial anisotropy, G , parameters within random phase approximation. We find that T_R varies as \sqrt{JG} in the planar regime.



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