

Electron spin resonance study of the demagnetization fields of the ferromagnetic and paramagnetic films

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Abstract

© Kazan Federal University (KFU). The results of the electron spin resonance study of the $\text{La}_{1-x}\text{Ca}_x\text{MnO}_3$ manganite and the diphenyl-picrylhydrazyl thin films for the magnetic field parallel and perpendicular to plane of the films are presented. The temperature dependence of the demagnetizing field is obtained. The parameters of the Curie-Weiss law are estimated for the paramagnetic thin film.

Keywords

Electron paramagnetic resonance, Ferromagnetic resonance, Free radicals, Manganites, Thin films