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Temperature features of the EPR spectrum of GdMnO₃: Single crystal and thin film GdMnO₃/LaAlO₃

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Abstract

Electron paramagnetic resonance (EPR) spectra of GdMnO₃ single crystal and GdMnO₃/LaAlO₃ thin film are measured at Q-band frequency in the temperature range of 4.2 to 300 K. The temperature dependence of parameters of the spin Hamiltonian corresponding to the monoclinic symmetry of such paramagnetic centers as Gd³⁺ ions in the GdMnO₃/LaAlO₃ film is determined. © 2013 Allerton Press, Inc.

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