

Superhyperfine structure of the EPR spectra of impurity ions in the LiYF₄ : Nd³⁺ system doped by ¹⁴³Nd isotopes

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Abstract

© 2015, Pleiades Publishing, Ltd. Results of measuring the EPR spectra in the LiYF₄: Nd³⁺ system doped by ¹⁴³Nd isotopes with the nuclear spin $I = 7/2$ have been presented. We have succeeded to observe superhyperfine splitting of the EPR spectra of the samples under investigation at the orientation of the magnetic field B along the symmetry axis c of the crystal and at $B \perp c$ on the lines corresponding to both even neodymium isotopes and ¹⁴³Nd.

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