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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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