

Determination of the Position of the Impurity Yb³⁺ ion in the CsCaF₃ crystals

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Abstract

CsCaF₃ crystals doped with Yb³⁺ ions have been studied using the electron paramagnetic resonance and optical spectroscopy methods. Several types of paramagnetic Yb³⁺ centers were found, among which a paramagnetic center in the unusual position was established. The parameters of the corresponding spin Hamiltonians and schemes of the energy levels of the observed centers were determined. © 2014 Springer-Verlag Wien.

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