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## EPR and optical spectroscopy of Yb<sup>3+</sup> ions in single crystal CsCaF<sub>3</sub>

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### Abstract

CsCaF<sub>3</sub> crystals doped with Yb<sup>3+</sup> were studied using EPR and optical spectroscopy methods. Several types of paramagnetic centers of Yb<sup>3+</sup> were found including a paramagnetic center in an uncommon 12-coordinated position. The schemes of the energy levels of the observed centers are determined and the potentials of the respective crystalline fields are calculated. © Springer-Verlag 1996.

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