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Optical spectra of octahedral cubic and trigonal Yb³⁺ impurity centers in KMgF₃ and KZnF₃ crystals

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Abstract

Groups of lines corresponding to octahedral cubic and trigonal impurity centers have been isolated in complex many-center luminescence and excitation spectra of Yb³⁺-doped KMgF₃ and KZnF₃ crystals. The crystal-field potentials derived from the spectra are in good agreement with those of similar centers in CsCaF₃:Yb³⁺ crystal studied earlier. © 1998 American Institute of Physics.
