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Spectral-kinetic and lasing characteristics of new Nd³⁺-activated laser hosts of the KF-YF₃ system

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Abstract

The results of the investigation of two new laser hosts are reported. Stimulated emission from Nd³⁺ ions has been observed for the first time in the two ordered fluoride crystals of the KF-YF₃ system: KYF₄ (FYK) and K₂YF₅ (PYFK). The major luminescent and lasing characteristics of the crystals are presented. The stimulated emission spectrum features and application prospects of the new laser hosts are discussed. © 1990 Taylor & Francis Ltd.

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