## Spectroscopy and stimulated emission of Nd3+ in an acentric CsY2F7 host

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## Abstract

The results of preliminary spectroscopic studies of new fluoride single-crystal CsY2F7 that is activated by Nd3+ ions are given. Direct evidence for the possibility of application of this ordered material as a laser host is given for the first time to our knowledge. Stimulated emission of Nd3+ ions on the main intermultiplet transition is obtained under both nonselective flash-lamp pumping conditions and continuous Ar ion laser pumping conditions. © 1992 Optical Society of America.

http://dx.doi.org/10.1364/AO.31.004158