

## **The excited state absorption from the 5d-states of Ce<sup>3+</sup> ions in LiCaAlF<sub>6</sub> crystals**

Semashko V., Abdulsabirov R., Korableva S., Naumov A., Galjautdinov B., Cefalas A., Kolia Z., Sarantopoulou E.

*Kazan Federal University, 420008, Kremlevskaya 18, Kazan, Russia*

---

### **Abstract**

The excited state absorption (ESA) spectra in the UV active media LiCaAlF<sub>6</sub>-Ce<sup>3+</sup> single crystal was studied by the amplified spontaneous emission technique. The nature of the ESA spectra is discussed.

<http://dx.doi.org/10.1117/12.287685>

---

### **Keywords**

Excited state absorption, Interconfigurational 5d-4f transitions, Rare-earth ultraviolet solid-state lasers