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Pump-probe studies of absorption saturation and optical gain in Ce:LiCaAlF₆ ultraviolet active medium

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Abstract

Aim of this work was to investigate nonlinear absorption of pump radiation in UV spectral range of Ce³⁺:LiCaAlF₆ crystalline active medium. We were able to evaluate excited state absorption cross-section at pump wavelength (266 nm) and recombination probabilities by means of computer simulation. © Published under licence by IOP Publishing Ltd.

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