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Excited-state absorption spectra of Pr³+ ions doped into LiY0.3Lu0.7F4 mixed crystal

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Abstract

© 2016 Optical Society of America. The UV/visible polarized excited-state absorption (ESA) spectra from the 1D2 and 3Pj manifolds of 4f2-configuration of Pr3+ ions doped into LiY0.3Lu0.7F4 mixed crystal were studied at room temperature. The data about ESA crosssections are necessary to estimate an efficiency of stepwise excitation of 4f5d-states of Pr3+ ions in these crystals.

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