

Formation of stimulated photon echo by nonresonant laser pulses

Nefed'ev L., Khakimzyanova E., Garnaeva G.
Kazan Federal University, 420008, Kremlevskaya 18, Kazan, Russia

Abstract

We have studied formation of a stimulated photon echo on exposure to nonresonant standing-wave laser pulses. We show that a slight difference between the wavelengths of the nonresonant laser pulses leads to the effect of locking the stimulated photon echo responses. © 2013 Springer Science+Business Media New York.

<http://dx.doi.org/10.1007/s10812-013-9702-y>

Keywords

information "locking", inhomogeneous electromagnetic field, nonresonant laser radiation, optical memory device, photon echo, standing wave