

# Efficiency of Locking of a Long-Living Photon-Echo Response in the Presence of External Nonresonant Laser Pulses with Different Spatial Inhomogeneity

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## Abstract

We study correlations between the inhomogeneous line broadening and the efficiency of locking of a long-living photon-echo response. We show that the efficiency of locking of a long-living photon-echo signal depends weakly on the spatial inhomogeneity of nonresonant laser pulses.  
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## Keywords

external spatially inhomogeneous nonresonant laser pulses, information locking, photon echo, relaxation processes, response time, spatially inhomogeneous electromagnetic fields