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## Effect of inhomogeneous electric field intensities on stark echo formation

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### Abstract

We show that it is possible to control the appearance time of the Stark echo response by varying the intensity of inhomogeneous electromagnetic fields. We found that when the system is exposed to nonresonant laser pulses with spatial inhomogeneity, we observe a shift of the Stark echo appearance time in the nanosecond range. © 2012 Springer Science+Business Media New York.

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### Keywords

information "locking", inhomogeneous electromagnetic field, photon echo, Stark echo