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## How the unequal spacing of the spectrum of a three-level system affects the formation of a stimulated photon echo

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### Abstract

This paper discusses the correlation of inhomogeneous broadening at various frequency transitions in three-level systems and how it affects the intensity of the stimulated-photon-echo response. It is shown that the correlation coefficient of inhomogeneous broadening at two different energy transitions and the response intensity of the stimulated photon echo depends on the random interaction parameter  $m$  of an optical electron with the local field, which in turn depends on the unequal-spacing parameter of the spectrum of the system. © 2013 Optical Society of America.

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