## Correlated stimulated photon echo signals under threephoton femtosecond excitation of CdSe-CdS colloidal quantum dots

Samartsev V., Mitrofanova T.

Kazan Federal University, 420008, Kremlevskaya 18, Kazan, Russia

## Abstract

© 2016 Astro Ltd.The possibility and conditions of the correlated signals of stimulated photon echo (SPE) generation under three-photon femtosecond excitation of a sample, which is an ensemble of N semiconductor nanoparticles, are investigated. Each of these nonoparticles consists of a CdSe core covered by a CdS shell. The phase matching conditions for correlated SPE signal formation in such a sample are obtained.

http://dx.doi.org/10.1088/1054-660X/26/12/125203

## **Keywords**

correlated signals, quantum dots, stimulated photon echo