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Linear and nonlinear optical properties of CuInS2 quantum dots

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Semiconductor nanocrystals or quantum dots are a class of zero-dimensional materials with diameters between 1 nm and 10 nm. Recently, these materials have been extensively investigated because of their remarkable optical properties such as size dependent absorption and emission. Such properties are associated with the quantum confinement effect, which occurs as the quantum dot diameter is smaller than the exciton Bohr radius. Recent studies have shown that these materials, in the strong quantum confinement regime, present linear and nonlinear optical response very higher than those observed to the bulk material (3D material). In this context, the present work has as aim to investigate linear and nonlinear optical properties of semiconductor nanocrystals (NCs) of copper indium sulfide (CuInS2) both experimental and theoretical point of view.

Tipo de Apresentação

Poster

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