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Non-resonant Raman response for homogeneous and inhomogeneous structures in the t-t' Hubbard model

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We calculate the non-resonant Raman response, the single particle spectra and the charge-spin configuration for the t-t' Hubbard model with parameters compatible for electron-doped cuprates using unrestricted Hartree-Fock calculations. We discuss similarities and differences between the results given by inhomogeneous structures and the homogeneous ones. We compare the results with corresponding experimental data.

Keywords : Electron doped cuprates, t-t' Hubbard model, Raman response