

The Fock term in the charge order phase of the extended Hubbard model

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One of the basic models in condensed matter theory, which enables an examination of many-body effects is Hubbard model. The present paper shows the results of calculations concerning an extended Hubbard model (with nearest neighbors interaction included) within mean-field approximation. The paper focuses on the charge-ordered phase. The quality of mean-field method is improved by including both Hartree and Fock terms into calculations.

9.7 cm

13.4 cm

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