THE LOGARITHMIC RENORMALIZATION OF THE ONE-ELECTRON ENERGY IN HUBBARD MODEL

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9.7 cm

The self-energy of the one-electron Green function is investigated in the framework of diagrammatic technique for Hubbard operators. The electron-magnon interaction was taken into account in the diagrams of third order in electron hopping. The self-consistent equations for electron Green function were solved in logarithmic approximation. The logarithmic term in the imaginary part of one-electron self-energy was found. The problem of becoming heavier of electrons due to Hubbard repulsion is discussed.

13.4 cm

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