APPLICATION OF GREEN FUNCTIONS TO THE CALCULATION OF DISORDERED CRYSTALS AND MOLECULES WITH REGARD FOR ELECTRON CORRELATIONS

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S u m m a r y

We obtain the Green function of a disordered crystal with regard for the electron-electron interaction. The electron states of the system are described in the multiband tight binding model. In the case of the crystal infinite elementary cell, we show that our approach could be applied to a description of molecular energy spectra. The energy spectrum and effective charges on atoms at the ends of a tricyanogenbutadienecarbazole molecule are calculated.