## The mutual stability of phases in the (hard-core) boson-fermion model M. Sidowski and S. Robaszkiewicz Division of Electronic States of Solids, Institute of Physics Adam Mickiewicz University,

ul. Umultowska 85, 61-614 Poznań

We present the results of investigations of a system of coexisting local pairs and itinerant electrons described by the (hard-core) boson-fermion model. The conditions of coexisting of phases such as superconducting (SC) and nonordered (normal) states, the CDW phase and the so-called charge Kondo state (CKS) are discussed. The calculations have been made within an extended mean-field approximation, and the mutual stability of the considered phases for various densities of states and the finite temperature phase diagrams of the model are also discussed.

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**Corresponding author :** M. Sidowski

Address for correspondence :

Institute of Physics Adam Mickiewicz University, ul. Umultowska 85 61-614 Poznań

Email address : masi@amu.edu.pl

