

SPECTRUM OF BOUND STATES OF NUCLEUS
 ^{10}B IN A THREE-CLUSTER MICROSCOPIC MODEL

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S u m m a r y

In the frame of a microscopic model, namely a three-cluster algebraic version of the resonating-group method, the spectrum of bound states of nucleus ^{10}B with $T = 0$ is considered. As a nucleon-nucleon potential, the semirealistic potential containing the central and spin-orbit components is used. The Coulomb interaction of protons is exactly taken into account. The proper order of levels in the spectrum under study and the reasonable agreement with experimental data on the arrangement of levels relative to the lowest breakup threshold of a nucleus are obtained. The role of the spin-orbit interaction in the formation of the spectrum of bound states of nucleus ^{10}B is studied in detail.