

NUCLEAR POTENTIALS
FOR JOINT DESCRIPTION
OF FEW-NUCLEON SYSTEMS AND STRUCTURE
FUNCTIONS OF THREE-NUCLEON NUCLEI

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S u m m a r y

For a satisfactory concordance of low-energy parameters for two nucleons and the energies of three- and four-nucleon nuclei, a version of the nucleon-nucleon potential is proposed. The construction scheme for such potentials is described. The precise calculations of the energies and radii of three- and four-nucleon nuclei are carried out using both the variational method with optimized Gaussian bases for different interaction potentials and the representation without isospin. The structure functions of T and ^3He nuclei are analyzed.