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Charge symmetry breaking effect for ^{3}H and ^{3}He within s-wave approach[1] IGOR FILIKHIN, VLADIMIR SUSLOV, BRANISLAV VLAHOVIC, North Carolina Central University — Three-nucleon systems are considered under the assumption that neutrons and protons are to be distinguishable. The configuration space Faddeev equations are used to calculate ground state energies of ^{3}H and ^{3}He nuclei within s-wave approach applying the Malfliet-Tjon MT I-III potential. We modify the potential to define nn and pp singlet components. Numerical evaluation for the charge symmetry breaking energy is done. Results obtained are compared with previous predictions.

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