APPLICATION OF THE EXTENDED TOMAS – FERMI METHOD FOR INVESTIGATION OF PROPERTIES OF LIGHT ATOMIC NUCLEI WITH NEUTRON EXCESS

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The extended Tomas - Fermi method has been applied for computing of integral characteristics of the nuclei with Z = 4 - 8, placed near the β-stability line. It has been concluded supposed, that in such nuclei nucleons are moving in the smooth fields and methods, based on the smooth average fields conception, which cannot be used for the nuclei with N ≈ Z, are applicable for properties description of izotopes with high neutron excess.