Fig. 13. The compilation of measured optical model potential depths (corrected for Coulomb effects and neutron excess, [28]) is compared with the Thomas-Fermi calculation.

Fig. 14. The proton (solid squares) and neutron (open squares) chemical potentials for the full range of Sn isotopes, from N = 32 to N = 120, for which Thomas-Fermi solutions exist.

Fig. 15. The neutron (solid line) and proton (dashed line) density distributions for ^{82}Sn, ^{120}Sn, and ^{170}Sn.

Fig. 16. Two independent predictions of the energy per particle of neutron matter. The density parameter is the cube root of the neutron density relative to its value, $\rho_o/2$, in standard nuclear matter. The squares are from [1]. The curve is the Thomas-Fermi calculation with the canonical parameter set.

Fig. 17. The upper part is the last unruptured nucleus (N = 372, Z = 248) and the lower part the first bubble nucleus (N = 378, Z = 252) in a sequence where A is increased while (N-Z)/A is held fixed at the value 0.2. The parameter set from [20] was used.