

electron density

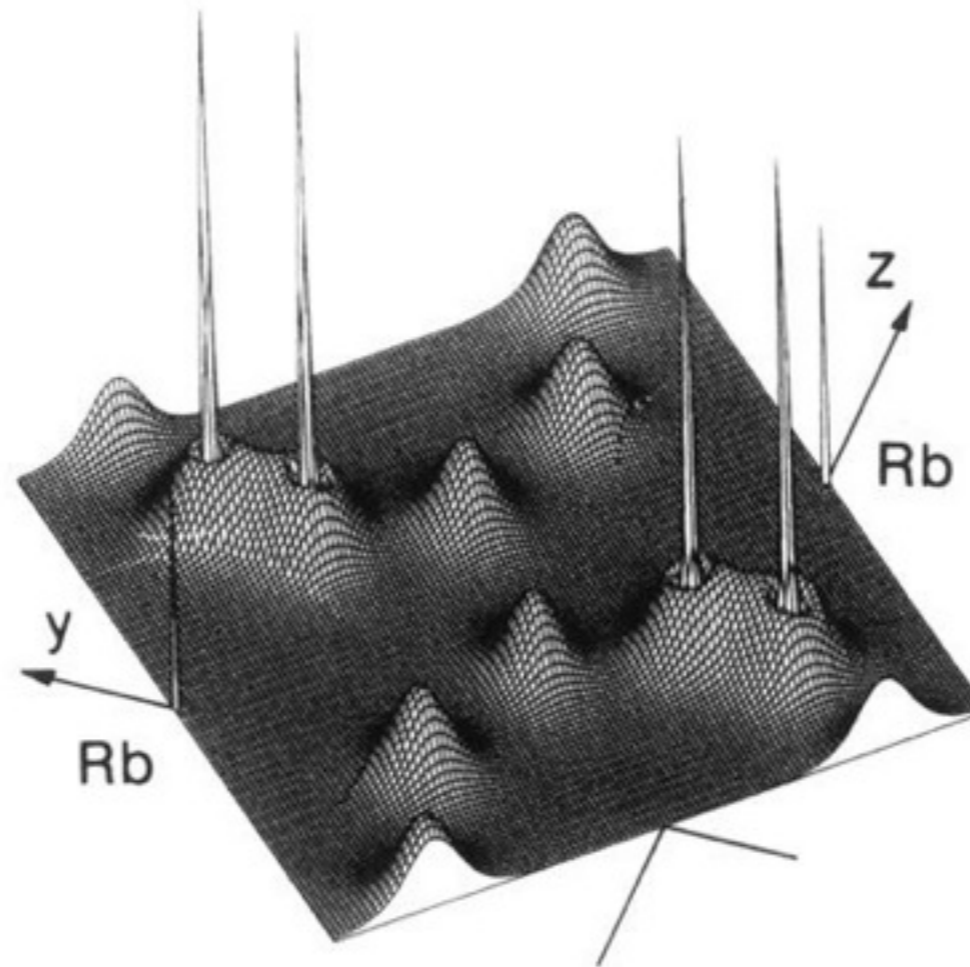
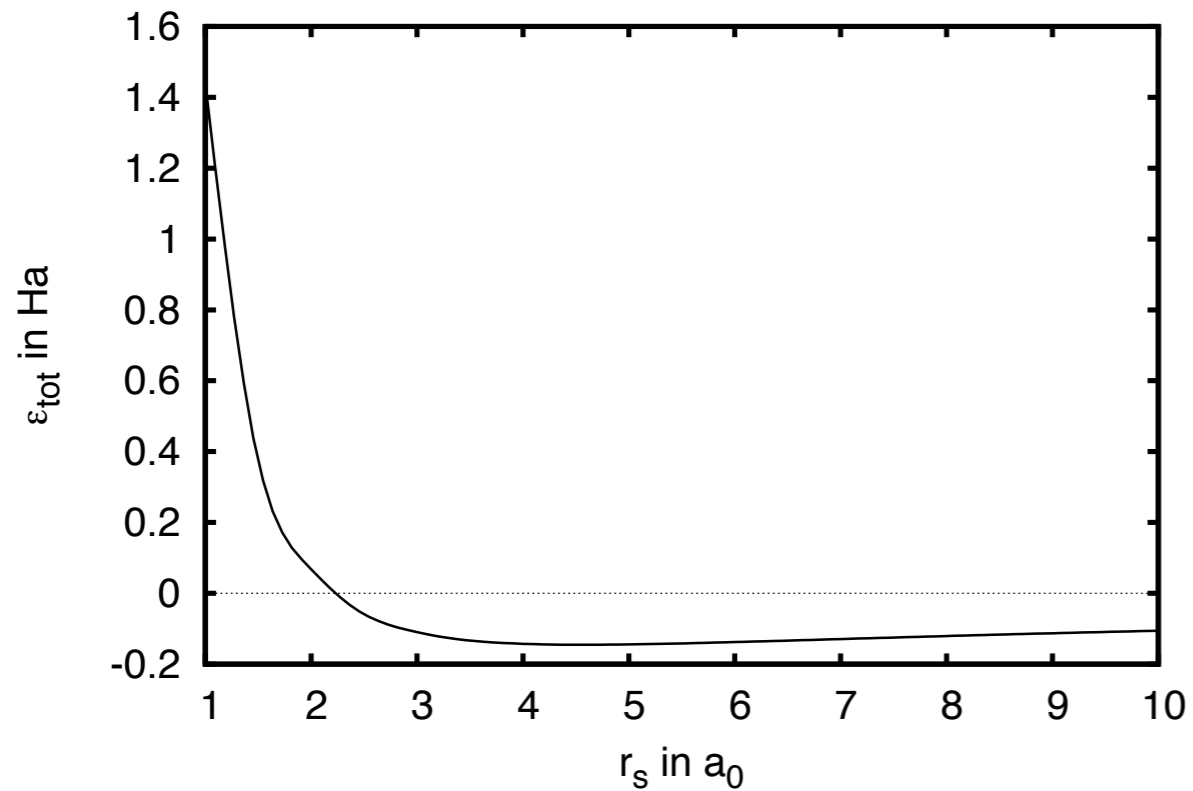


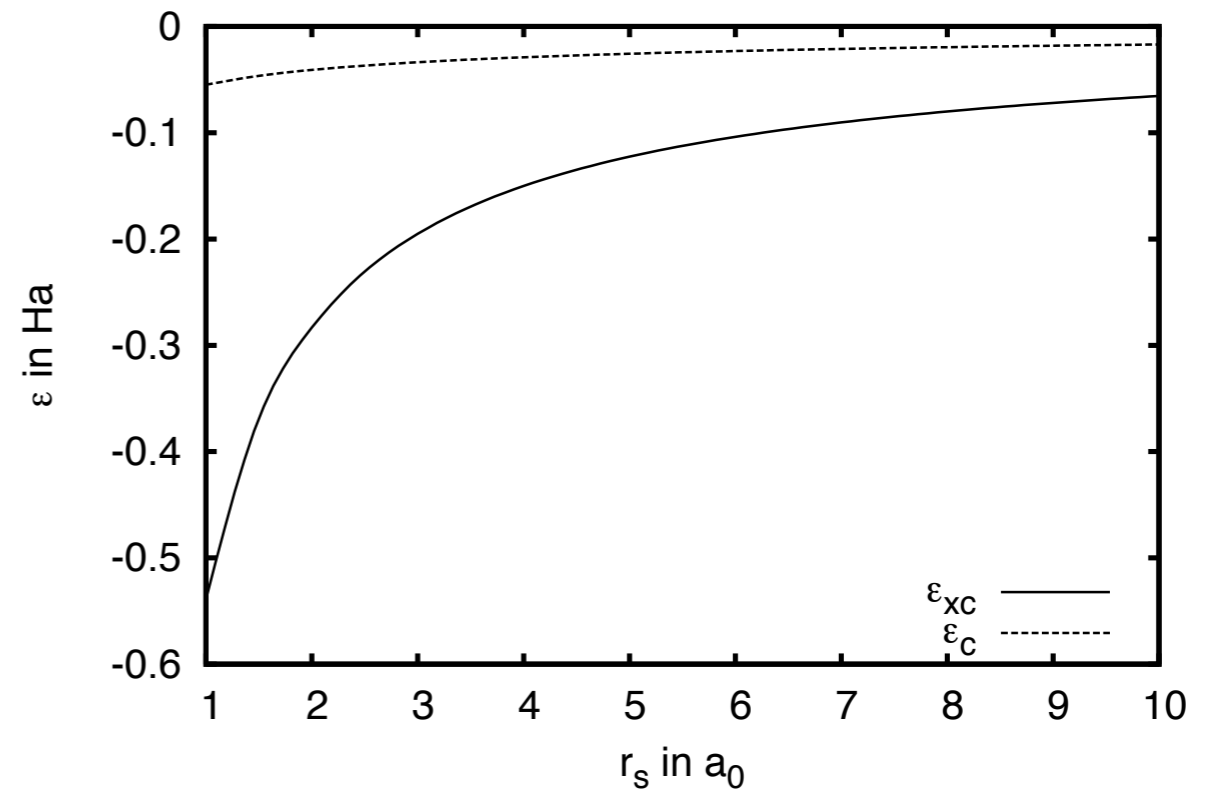
FIG. 12. Valence charge-density in the yz plane (see Fig. 2) for RbC_{60} in the fcc unidirectional structure. The plane passes through the Rb octahedral sites and, for each of two neighboring molecules, it contains a top hexagon edge and passes between two contact atoms plus the midpoint of another top hexagon edge. The Rb 5s electron is seen to be transferred to the C_{60} molecule.

homogeneous electron gas

total energy density



exchange and xc energy density



D.M. Ceperley, B.J. Alder, Phys. Rev. Lett. **45**, 566 (1980)