Internal inconsistency of Kohn-Sham equations in density-functional-theory\footnote{Supported by NERSC Arkansas-Oklahoma.} BOYAN OBRESHKOV — The conflict of DFT Kohn-Sham equations with the Ritz variational principle will be demonstrated rigorously. It will be shown that the ground-state charge density of the material is not representable by auxiliary one-electron orbitals of variational character. This inconsistency is also expressed by a charge-sloshing effect in attempt to solve these equations self-consistently.


\textsuperscript{1}Supported by NERSC Arkansas-Oklahoma.