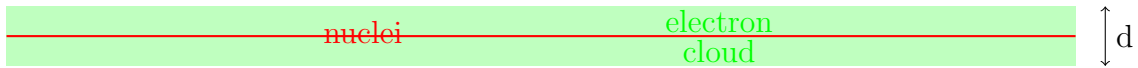# Homework 6 - Fundamental interactions

Q6.1. Model the surface of an object by a infinitely thin sheet, of surface charge density σ, representing the atomic nuclei, surrounded by a uniform electron cloud, of width d and charge density $-\sigma/d$, as shown in the figure.

Describe the interaction between two such surfaces.