

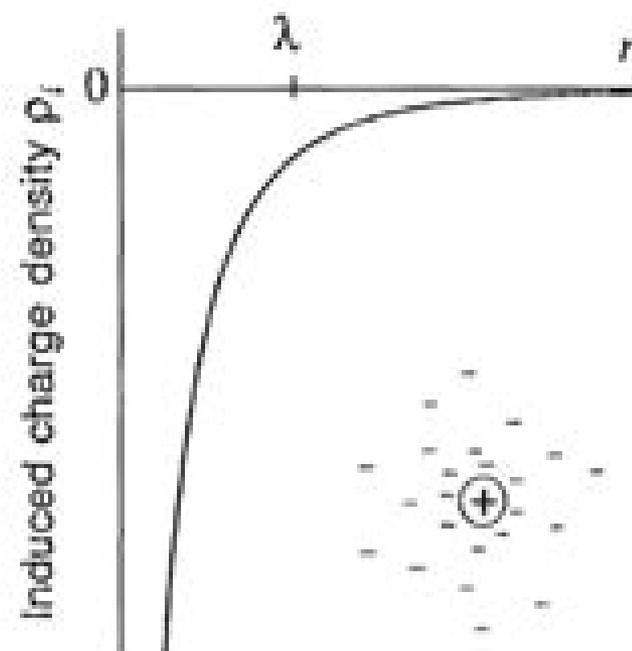
## 9.2 Screening (Chapter 17 of Ashcroft & Mermin)

- Electron-electron interactions: the electron screening

The phenomenon of *screening* is **one of the simplest** and most important manifestations of *electron-electron interactions*. We consider here only screening in a free electron gas. Screening is the **damping of electric fields caused by the presence of mobile charge carriers**. It is a very important behavior of charge-carrying fluids, such as ionized gases (classical plasmas), electrolytes, and charge carriers in electronic conductors (semiconductors, metals).

The long-range effects due to the  $1/r^2$  dependence of the Coulomb force are suppressed by the flow of particles in response to electric fields. This flow reduces the effective interaction between particles to a short-range "screened" Coulomb interaction.

Every charge of the fluid composed of moving electrons repels other electrons creating a small region around itself in which there are fewer electrons. This region can be treated as a positively charged "screening hole"



# Ashcroft Mermin Solutions Chapter 9

**Roman Wölfel**



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