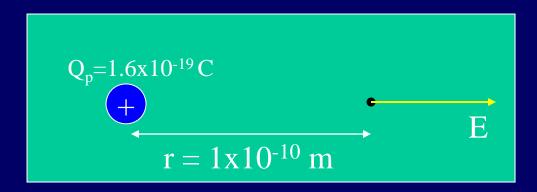
## Electric Field

- Charged particles create electric fields.
  - Direction is the same as for the force that a + charge would feel at that location.
  - Magnitude given by:

$$E \equiv F/q = kq/r^2$$





$$E = (9 \times 10^9)(1.6 \times 10^{-19})/(10^{-10})^2 N = 1.4 \times 10^{11} N/C$$
 (to the right)