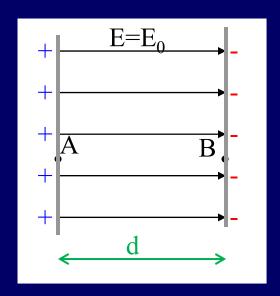
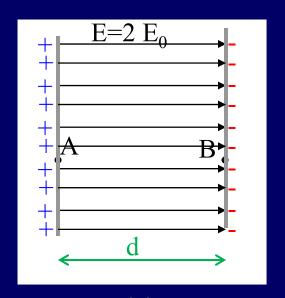


Parallel Plate Capacitor: Potential Difference

Charge Q on plates $V = V_A - V_B = +E_0 d$



Charge 2Q on plates $V = V_A - V_B = +2E_0 d$



Potential difference is proportional to charge: Double Q \rightarrow Double V $E_0=4\pi kQ/A$