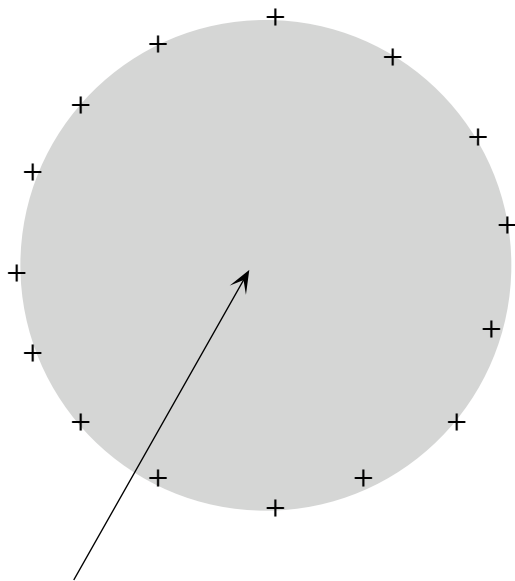
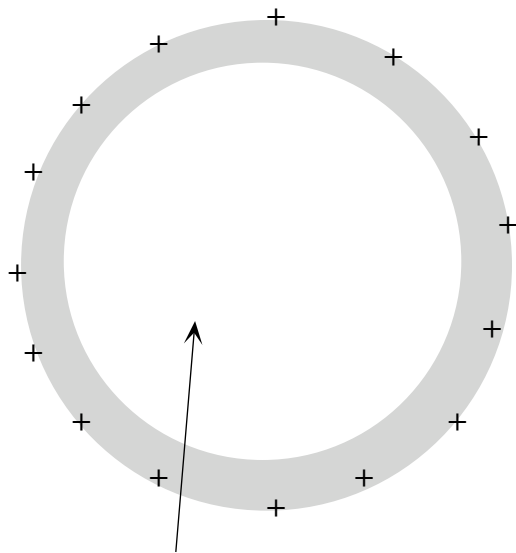


A solid conductor with extra charge on it. The extra charges move to the surface.



There is no electrical field inside. If there were an electric field inside, the free charges of the conductor would move until it went away.

The same conductor with the conducting material inside removed.



There is still no electric field inside because all extra charges are on the surface.