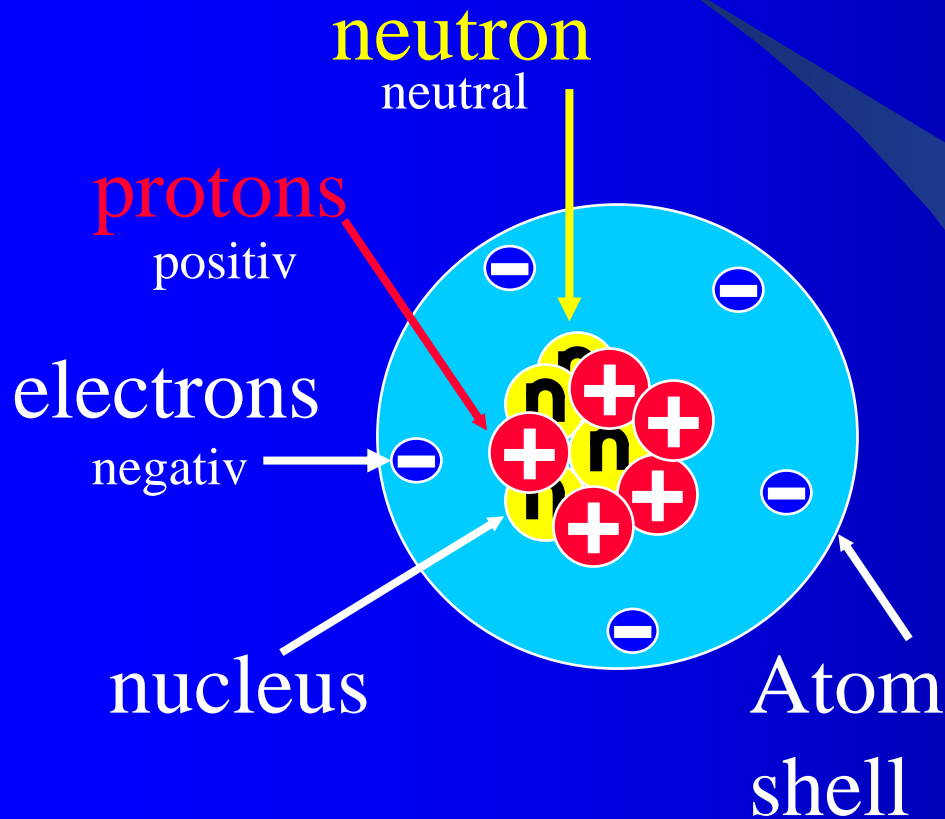


Structure of an atom

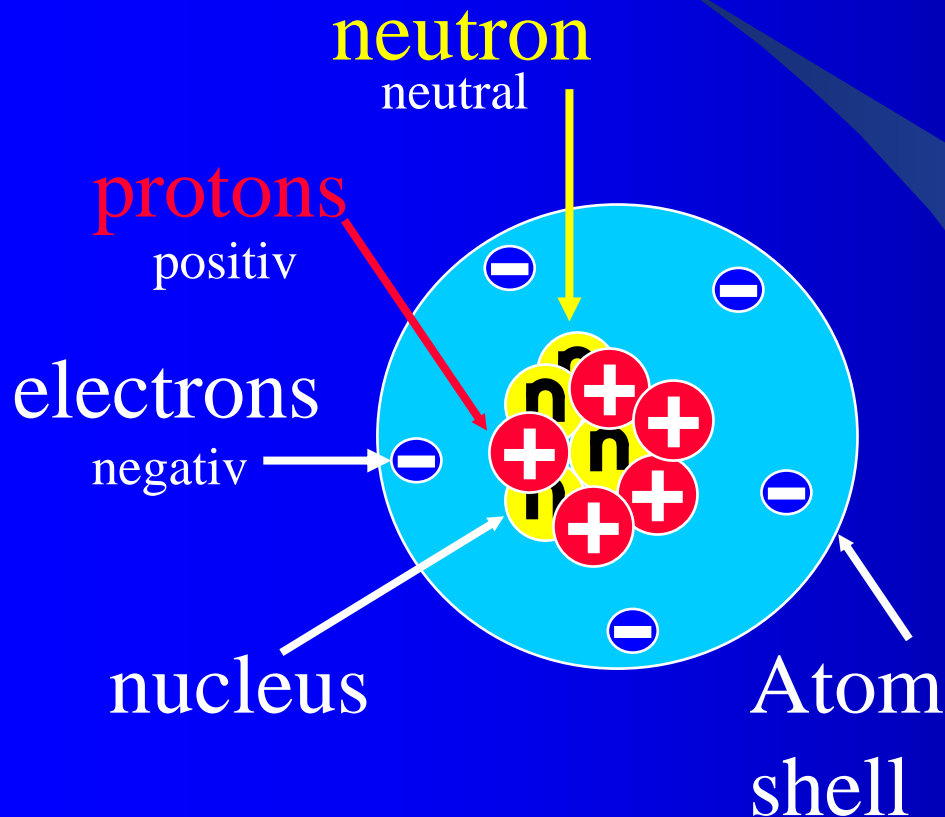
Rutherford's model



? How does this work?

Structure of an atom

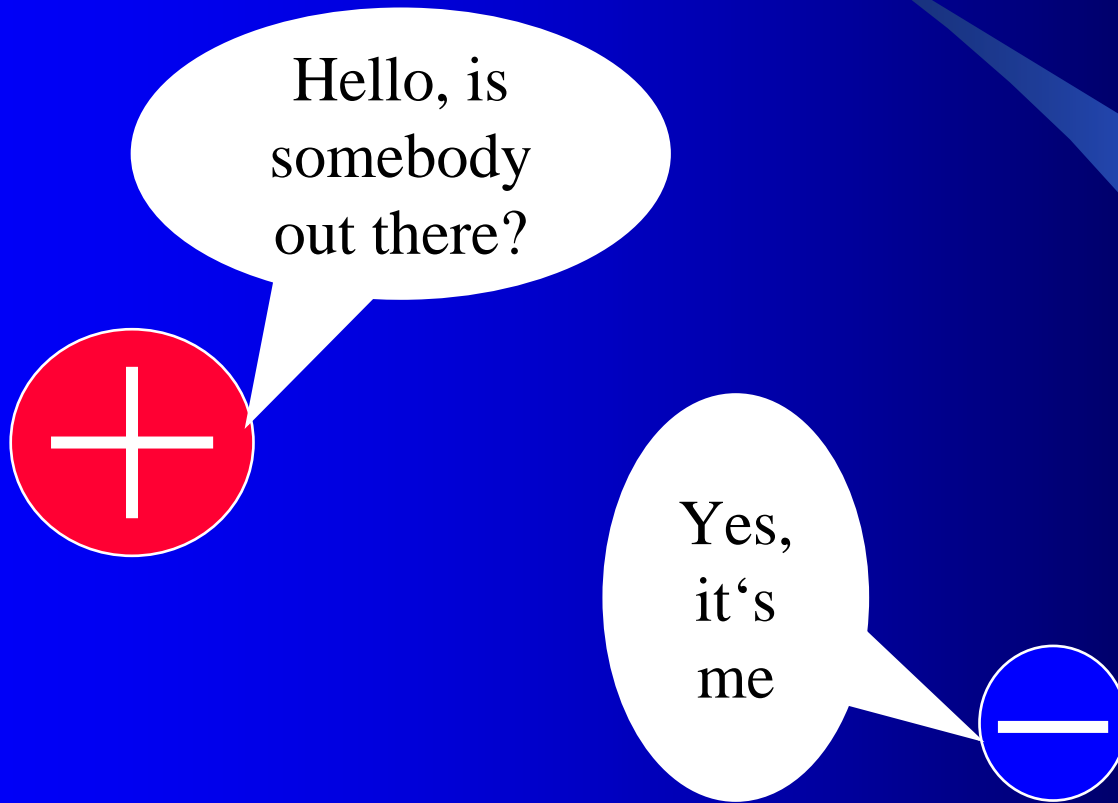
Rutherford's model



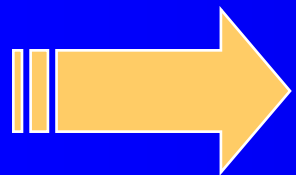
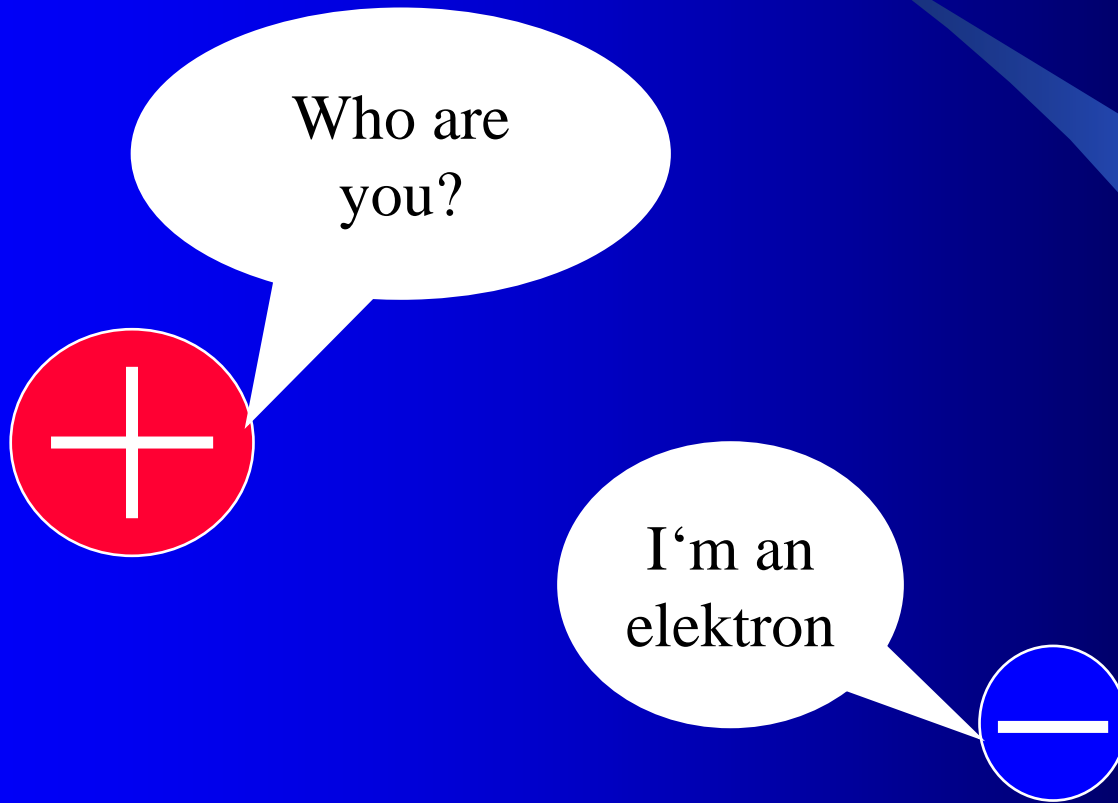
? How does this work?

? How do particles know the presence of charged particles?

? How do particles know the presence of charged particles?



? How do particles know the presence of charged particles?



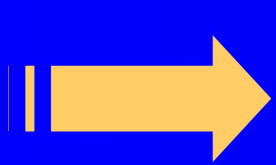
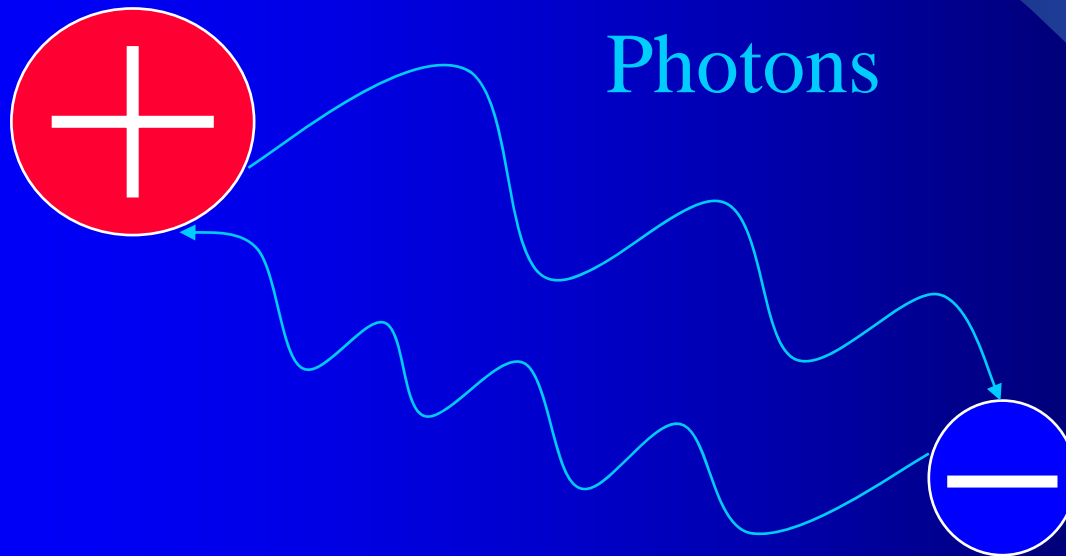
They have to communicate!

Communication between particles



Interaction

Communication between particles



What is a photon?

Photon – a superparticle

It's a messenger particle („like a letter“):

- It can travel at great speeds (speed of light) to great distances if it is not blocked
- It keeps its identity (information)
- It travels in a straight line

*This properties make it ideal
for giving information
of far away objects (particles)*