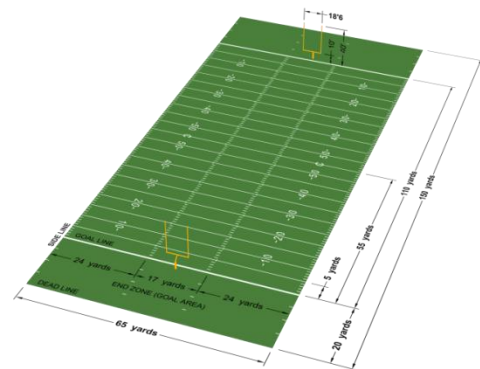
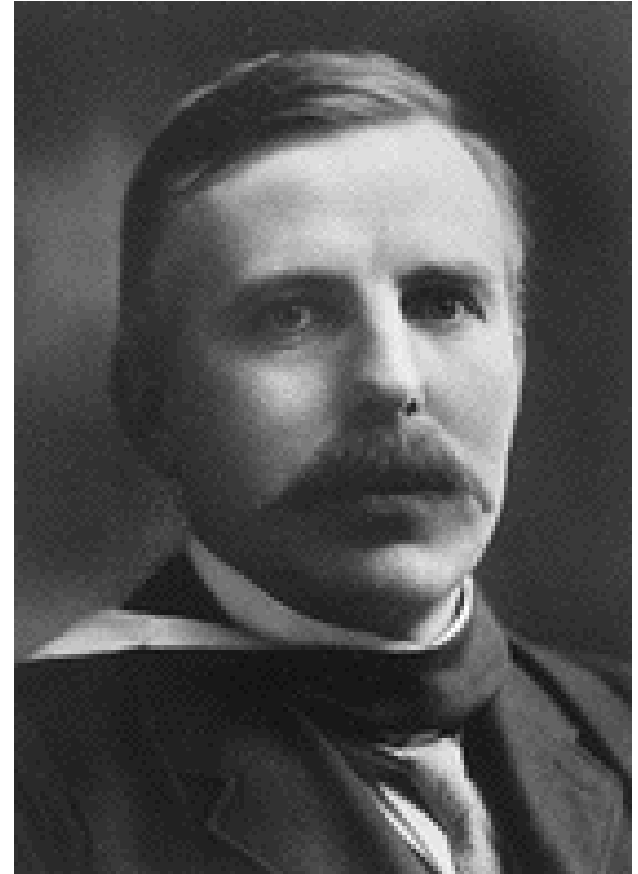
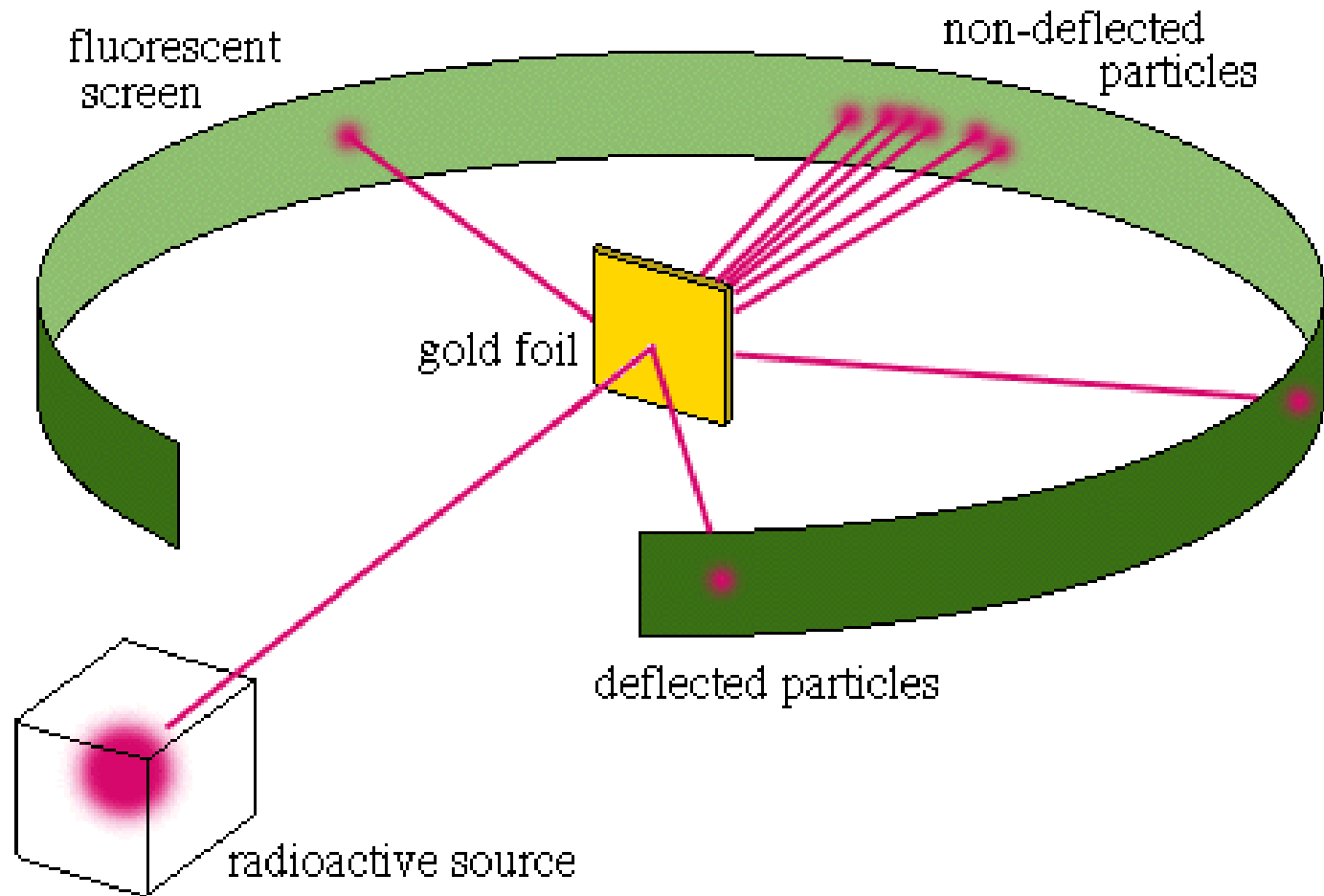


Ernest Rutherford

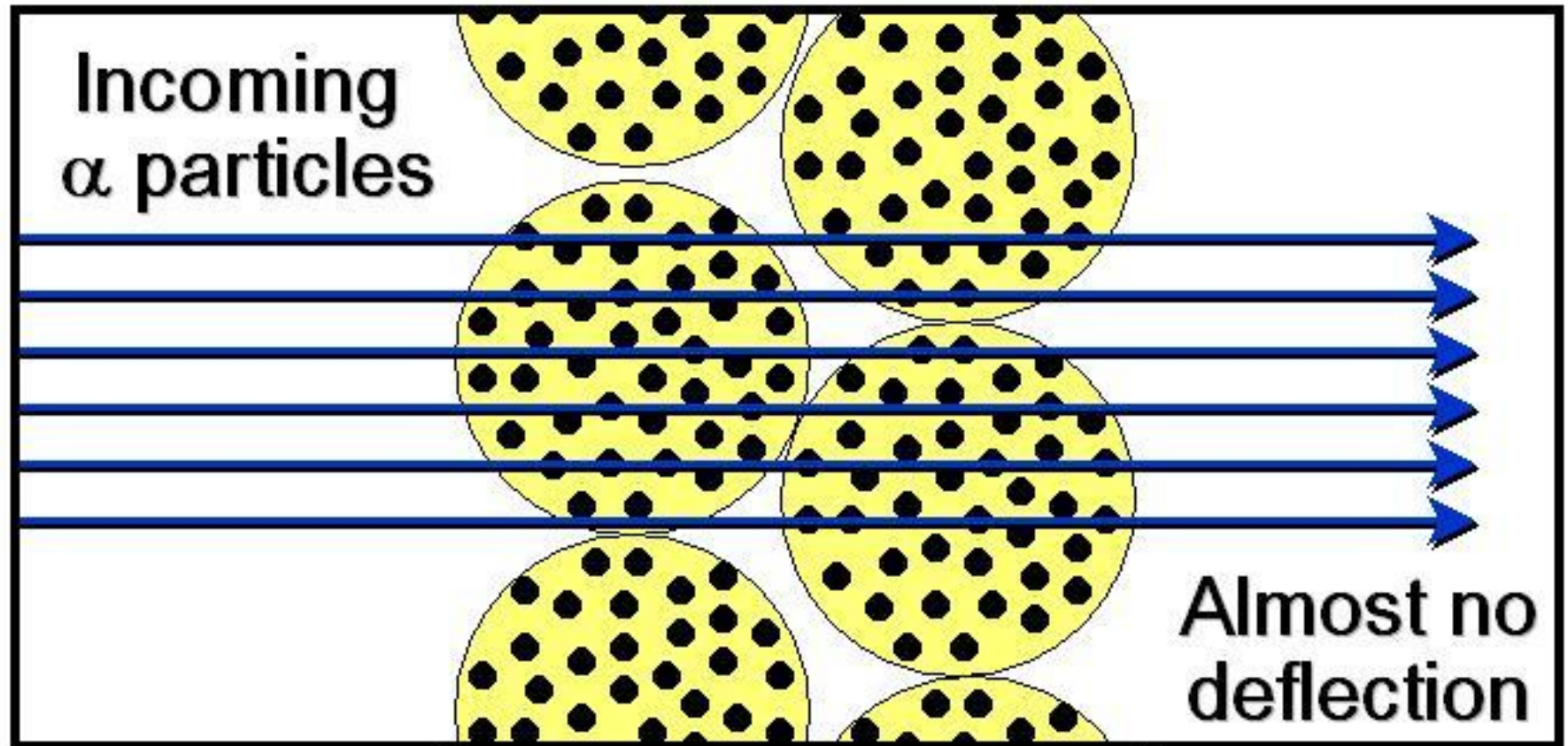
- When: 1911
- Where: England
- What: Discovered protons and the nucleus.
Decided that the atoms were **mostly empty space**, but had a **small dense central core**.



The Gold Foil Experiment

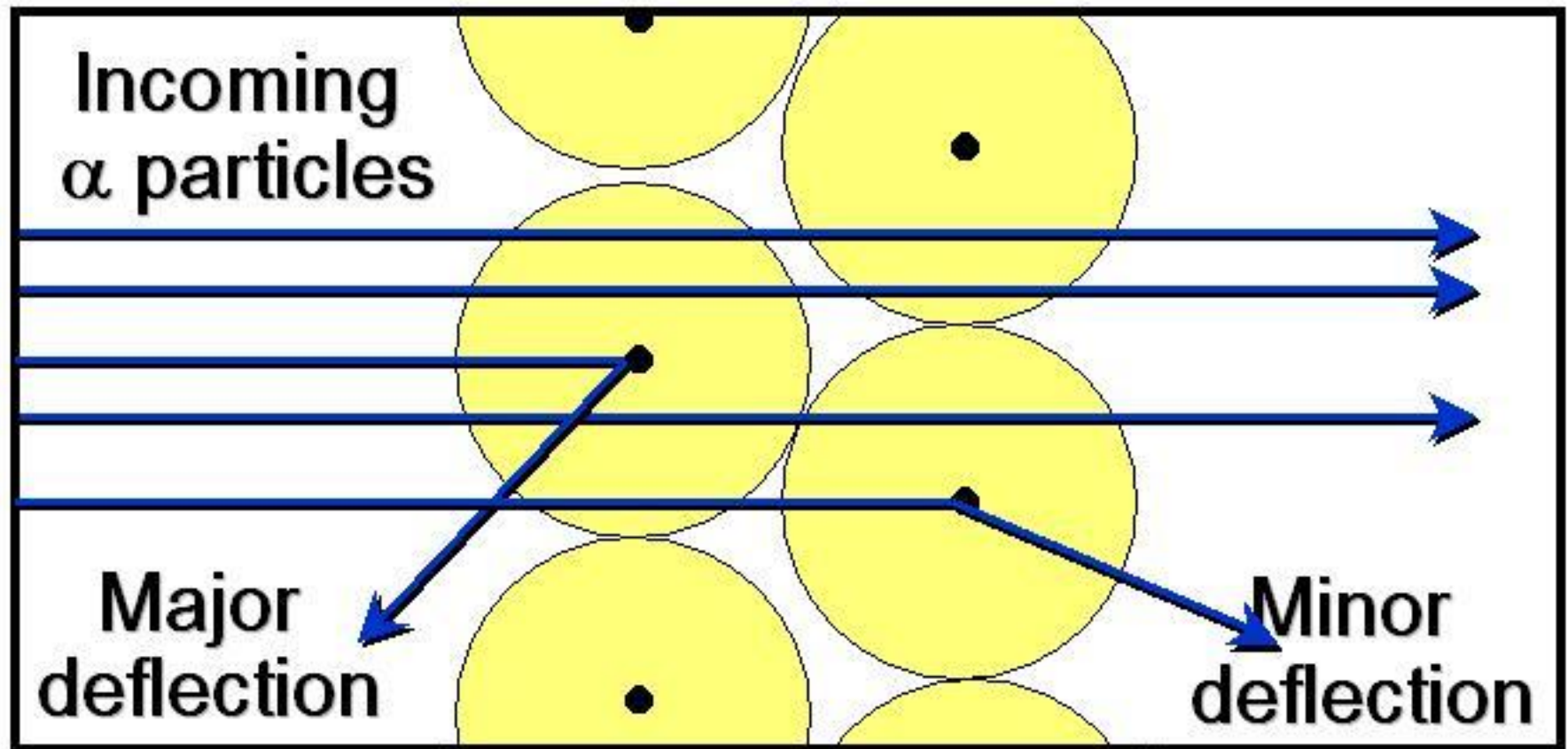


Hypothesis: expected result based on
“plum pudding” model



**Cross section of gold foil composed of plum
pudding atoms**

Actual result



Cross section of gold foil composed of atoms with a tiny, massive, positive nucleus