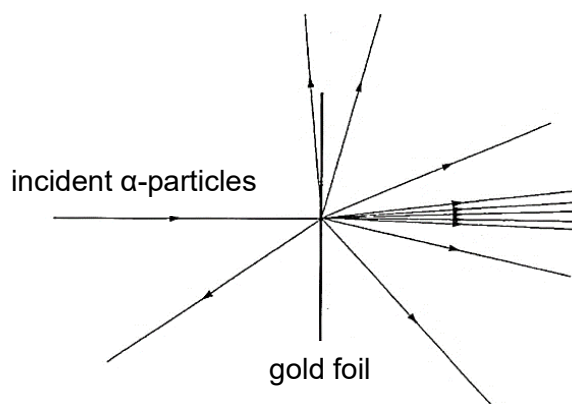


- 28 A thin gold foil is bombarded with  $\alpha$ -particles as shown.



Which explanation best explains the corresponding observation?

	Observation	Explanation
<b>A</b>	Most of the particles undergo little to no deflection.	The electrostatic repulsion acting on them is only along the direction of initial velocity.
<b>B</b>	Most of the particles undergo little to no deflection.	The mass of the nucleus is too little.
<b>C</b>	A tiny fraction of the particles is scattered at large angles.	The nucleus is mostly empty space.
<b>D</b>	A tiny fraction of the particles is scattered at large angles.	Bulk of the mass of the atom is concentrated in a very small positively charged region.