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The deviation of  $\alpha$ -particles by thin metal foils through angles that range from  $0^\circ$  to  $180^\circ$ .

Which of the following could explain this observation?

**A**

scattering from bound electrons in the foil

**B**

reflection from the foil surface

**C**

diffraction from the crystal lattice in the foil

**D**

scattering from small and heavy positively charged regions in the foil