



TWO OPPOSITELY CHARGED PARTICLES, AN ALPHA PARTICLE WITH TWO POSITIVE CHARGES AND A LESS-MASSIVE ELECTRON WITH A SINGLE NEGATIVE CHARGE ARE ATTRACTED TO EACH OTHER. COMPARED TO THE FORCE THAT THE ALPHA PARTICLE EXERTS ON THE ELECTRON, THE ELECTRON EXERTS A FORCE ON THE ALPHA PARTICLE THAT IS

- a) GREATER
- b) THE SAME
- c) LESS

THE PARTICLE WITH THE MOST ACCELERATION IS THE

- d) ALPHA PARTICLE
- e) ELECTRON
- f) SAME FOR EACH

AS THE PARTICLES GET CLOSER TO EACH OTHER, EACH EXPERIENCES AN INCREASE IN

- g) FORCE
- h) SPEED
- i) ACCELERATION
- j) ALL OF THESE
- k) NONE OF THESE