

**27** Some of the electron energy levels for neon in a helium-neon laser are shown.

W \_\_\_\_\_ 20.66 eV

X \_\_\_\_\_ 18.70 eV

Y \_\_\_\_\_ 16.70 eV

Z \_\_\_\_\_ 0 (ground state)

Which energy change for electrons results in laser light of wavelength 633 nm?

**A** W → X

**B** W → Y

**C** W → Z

**D** X → Y

**28** A proton has a kinetic energy of 1.00 MeV.