

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 $W \rightarrow X$

B $W \rightarrow Y$

C $W \rightarrow Z$

D $X \rightarrow Y$

28 A proton has a kinetic energy of 1.00 MeV