

28 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 $X \rightarrow Y$

C $W \rightarrow Y$

D $W \rightarrow Z$

29 The nucleus of a nuclide of an element with chemical symbol Y comprises four protons and five