

5. A galaxy has a recessional velocity of  $0.30c$ .

Hubble's Law predicts that the distance between Earth and this galaxy is

- A  $1.3 \times 10^{17} \text{ m}$
- B  $3.9 \times 10^{25} \text{ m}$
- C  $1.3 \times 10^{26} \text{ m}$
- D  $1.4 \times 10^{41} \text{ m}$
- E  $4.5 \times 10^{42} \text{ m}.$