

8	<p><b>B is the correct answer as there is no downwards jump of energy levels equivalent to <math>0.54\text{eV}</math> when falling from the <math>-0.54\text{eV}</math> level</b></p> <p>A is not the correct answer as this difference in energy levels is produced when an electron falls from the <math>-0.54\text{ eV}</math> level to the <math>-0.85\text{ eV}</math> level</p> <p>C is not the correct answer as this difference in energy levels is produced when an electron falls from the <math>-1.51\text{eV}</math> level to the <math>-13.60\text{ eV}</math> level</p> <p>D is not the correct answer as this difference in energy levels is produced when an electron falls from the <math>-0.54\text{ eV}</math> level to the <math>-13.60\text{ eV}</math> level</p>	(1)
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