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• The lowest four energy levels of the He⁺ ion are given.

Principal quantum number (n)	Energy (J)
1	-8.720×10^{-18}
2	-2.180×10^{-18}
3	-0.969×10^{-18}
4	-0.545×10^{-18}

An electronic transition is identified by specifying the value of n of the initial state and the value of n of the final state. Identify the electronic transition responsible for the emission of radiation from He⁺ with a wavelength of 30.4 nm?