

Alpha Particle Electron Count Match

<https://gemini.google.com/app/335f26d27eb094a8>

Response: **Number of electrons in an alpha particle (α):** An alpha particle is a helium nucleus, denoted as He^{2+} . Since a neutral helium atom has 2 electrons, stripping away both electrons leaves the alpha particle with **0 electrons**.

Electron counts for the given options:

- (1) H: 1 electron
- (2) He: 2 electrons
- (3) H^+ : $1 - 1 = 0$ electrons
- (4) H_2 : $2 \times 1 = 2$ electrons
- (5) Li^+ : $3 - 1 = 2$ electrons

Correct Option: (3) H^+
