

Title: Unlocking 5D Chemistry Through Planck Constant Correction: A New Frontier in Dimensional Reactivity

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### **\*\*2.3 Anomalous Electron Ground State in Nanoconfined Water\*\***

Experimental observations show that electrons and protons in water confined to nanoscale structures exhibit ground states and behaviors significantly different from bulk water. These shifts affect electron density, bonding, and even hydrogen structure stability. Classical models do not account for this.

Applying the  $h_{\text{true}}$  correction to typical OH-stretch vibrational frequencies ( $\sim 3200 \text{ cm}^{-1}$  or  $\sim 9.59 \times 10^{13} \text{ Hz}$ ):

$$\Delta E = (h_{\text{true}} - h) \times \text{frequency}$$

$$\Delta E \text{ approx. } 1.59 \times 10^{-28} \text{ J approx. } 0.99 \text{ nano-eV}$$

Though minute, this shift at the quantum level aligns with observed changes in the ground state energy of confined protons and electrons. It suggests that even weak 5D dimensional coupling, made accessible under confined geometric constraints, can measurably affect state stability. This represents a third direct proof supporting the validity of the  $h_{\text{true}}$  correction.

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