Supplementary Data: Schrödinger's Continuous Electron Revisited: A Fourth Spatial Direction Recovers Exchange, Exclusion and the Born Rule Without Configuration Space

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The supplementary data (Data S1–S45 and Notes S1–S7) can be accessed on figshare at https://doi.org/10.6084/m9.figshare.35124955 upon getting link from the corresponding author. Each entry gives the computed values cited in the text:

- **Data S1.** Mirror folds and shared 3D shadow; lithium with connected and severed patterns; O_2-type pair.
- **Data S2.** Intrinsic and 3D-shadow volumes of C1A, C1A + C2B and C1A + C1B for the mirror and turned constructions (Table 1).
- **Data S3.** Term gaps of C, N and O with C2 mirrored and with C2 turned by 90°.
- **Data S4.** Geometrical checks of the body; bound and free-limit g.
- **Data S5.** Reversal of the 4D normal after one circuit; twist counting and $(N + 1)^2$ states.
- **Data S6.** Heavy vibrations of w: bounds from LEP and from electron and muon g − 2; s-level shift.
- **Data S7.** Static vacuum response to a finite nucleus: exterior 1/r and source strength.
- **Data S8.** Gauss's law for the generated field; fifteen lines of H, He^+ and Li^{2+} (Table 3).
- **Data S9.** Face angle across nodes; beat-shift and saturating nucleus couplings; helium vibrations without the turn rule.
- **Data S10.** Γ from five measured hydrogen intervals with two-face levels and one-loop Lamb shifts.

- **Data S11.** Local circulation of matter in hydrogen: winding and circular states.
- **Data S12.** Dynamic occupation of the two sides: Penning-type ratio.
- **Data S13.** Ring-shaped matter around the nucleus: Zeeman shift and number of states per component.
- **Data S14.** Lowest two-face mode: degenerate pair of winding ½ and the circular vibration selected by a field.
- **Data S15.** Helium singlet 2^1P in a magnetic field (normal Zeeman pattern); bound g of the two-face mode.
- **Data S16.** Anomalous magnetic moment of the two-face field; Pauli term in the hydrogen fine structure.
- **Data S17.** Vacuum polarisation: Uehling potential and hydrogen s-level shifts.
- **Data S18.** Lamb shift as the displacement of the matter by the vacuum's zero-point vibrations.
- **Data S19.** Frequency response of the 2s and 2p patterns, Bethe logarithms and the low-energy Lamb shift.
- **Data S20.** One-loop Lamb shift of hydrogen.
- **Data S21.** Shell order of Li, Be and B; lithium 2s–2p gap.
- **Data S22.** Helium's opposite-side arrangements: $\langle S^2 \rangle$ and susceptibility.
- **Data S23.** Helium and H^- with one and two volumes: $\langle r^2 \rangle$ per place.
- **Data S24.** Filling from H to Ne by the face rule.
- **Data S25.** Filling from H to Ne with the face rule stated in terms of 3D shadows.
- **Data S26.** Helium with its two portions kept apart in 3D (hemispheres, inner/outer, disjoint split) against the shared region.
- **Data S27.** Small and capacity-limited vibrations for H^-, He, Li^+ and Be^{2+} (Table 4).
- **Data S28.** Capacity-limited correlation energies of H^-, He, Li^+ and Be^{2+}.
- **Data S29.** Coupling κ fixed on helium; the stricter of the coupling and the capacity limit for H^-, Li^+ and Be^{2+}; the a + b/Z fit.
- **Data S30.** The same coupling applied to B^{3+} … Ne^{8+} with nothing refitted.

- **Data S31.** Coupling and capacity limit applied together (H^- 82.7%); reference a + b/Z fit.
- **Data S32.** Ground terms of 21 species from Li to Ne; term-gap ratios; lowest J.
- **Data S33.** Helium 1s2p singlet and triplet; term gaps of C, N and O; inversion when one side is full.
- **Data S34.** Fine structure of He, Li, B, C, O and F with the whole pattern vibrating, and with the empty face in step or opposite (Table 6).
- **Data S35.** g from the two-face law in a weak magnetic field: hydrogen 1s, $2p_1/_2$ and $2p_3/_2$.
- **Data S36.** Sign of the force between Gaussian clouds; self-repulsion and self-exchange; two faces for both source signs.
- **Data S37.** Sign of the force between exponential clouds.
- **Data S38.** Sharp and gradual sign switch at the crossing between the two sides (Table 7).
- **Data S39.** Two faces and two kinds of charge for hydrogen (Z = 1) beside Z = 20.
- **Data S40.** Fraction of matter on the second face for hydrogen-like levels up to Z = 79.
- **Data S41.** Capture at one place and capture odds; apparent size against probe energy; triggered capture.
- **Data S42.** Wavelength from the wave rule at 600 V and 50 kV; shared and independent capture.
- **Data S43.** Capture odds with 31, 61, 121 and 241 screen places.
- **Data S44.** Vacuum shaped by the slits, with and without selection by the electron's beat.
- **Data S45.** Spreading of a free electron between ionizations in air.

Scripts are available from the author upon reasonable request.