Abstract Submitted
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History of the Wave Structure of Matter (WSM) MILO WOLFF, M.I.T. (retired), GEOFF HASELHURST, Space and Motion - Australia — The puzzling structure of the electron is due to the belief that it is a discrete particle. Einstein deduced this impossible since Nature's properties do not match the discrete particle. Clifford, 1876, rejected discrete matter and suggested a WSM. Schroedinger, 1937, proposed to eliminate discrete particles writing: *What we observe as material bodies and forces are nothing but shapes and variations in the structure of space. Particles are just schaumkommen*(appearances). Mach's principle of inertia, 1883, first recognized a role of the space medium. Theory was developed by Milo Wolff, 1990-04, and Geoff Haselhurst (SpaceAndMotion.com) using the Scalar Wave Equation to find solutions that form a quantum-wave structure with all the electron's properties plus the Schroedinger Equation. Carver Mead, 1999, applied the WSM to design Intel micro-chips correcting errors of Maxwell's magnetic Equations. New applications of the WSM are concerned with matter at molecular dimensions: nanotechnology, new alloys and catalysts, the mechanisms of biology and medicine, molecular computers and memories.

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