

Abstract Submitted
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The Derivation of the Elastic-Constants of the Space Medium and the Speed of Light in the Universe MILO WOLFF, M.I.T. retired, MICHAEL HARNEY, Signal Display Corp — Space is modeled as an elastic medium for spherical, scalar, quantum-waves. The constants of elasticity and inertia of this medium are found from the scalar compression length of space and the rest-energy of the electron ‘particle’ using astronomical measurements of the Hubble Universe. This electron structure is the superposition of converging and diverging solutions of the scalar wave equation. These two constants of space are then used in the conventional way to derive the speed of the scalar quantum waves in this medium. The Speed is found to be $= 2.2 \times 10^8$ meters/second, close to the measured speed of light, c , within the errors of measuring the Hubble Universe. It is concluded: 1) that the origin of c , like the origin of all natural laws, is a property of the quantum Wave Structure of matter (WSM). And 2) that, the rest-energy, or frequency, of the wave-centered “particles” that we observe are dependent on the potential energy of compression in the fabric of the quantum space of the Universe.

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