

Abstract Submitted
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Einstein and the Electron MILO WOLFF, M.I.T. (retired), GEOFF HASELHURST, Space and Motion Group — Querying Einstein. In his later years, physicists queried Einstein about the plethora of particles found with high-energy accelerators. They wanted Einstein's thought on basic matter. Einstein, a careful thinker, seriously replied, "I would just like to know what an electron is." He implied that the prosaic electron, was more important to science than billions spent on accelerators. Little attention was paid to his remark. But Einstein saw the electron as the leading player of the Universe, because most activity is energy transfers between electrons. At the time, no one understood the energy mechanism of the electron; Although electron forces can be calculated with rules of Physics 101, the rules did not always match Nature. The electron did not appear to be a discrete particle. Something was wrong and Einstein knew it. We follow a suggestion by Clifford and Schroedinger to reject the discrete electron and replace it with a Wave Structure of Matter. This has all the electron's experimental properties, including the origins of the natural laws, fulfilling Einstein's intuition. (www.SpaceAndMotion.com)

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