Fixing Physics

not all potentials are created equal



by

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Gravity's connection to quantum mechanics was found because of a recurring error produced by a long running real-time AI annealing program analyzing material properties using Maxwell's equations. This was not the connection Michael Faraday was searching for between electromagnetism and gravity. The data produced a view into the physical spaces where particles are generated.

In the 1920s quantum mechanics, a microscopic theory, and general relativity, a macroscopic theory, clashed and never came together. However, recent experiments finding human-scale window to view quantum structures in their own frames of reference revealed the geometry where quantum mechanics operates.

In addition, two flaws were found in special relativity where potentials can now be included in the relativistic conservation of energy relations.

This is a simple story of how a constant, self-energy, was mistakenly dropped in the 1920s when the Schrödinger and Dirac equations were produced. A non-relativistic development of quantum mechanics is not accurate, as relativity plays a strong role for both particles at rest and in a bound structure. By being non-relativistic the Schrödinger equation sank quantum mechanics. Compounding this error were additional mistakes in the Dirac equation that required the non-unique corrections of quantum electrodynamics, which eventually misled generations of physicists.

These experiments require a new set of differential equations to replace the Schrödinger and Dirac equations, launching the second century of quantum mechanics.

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