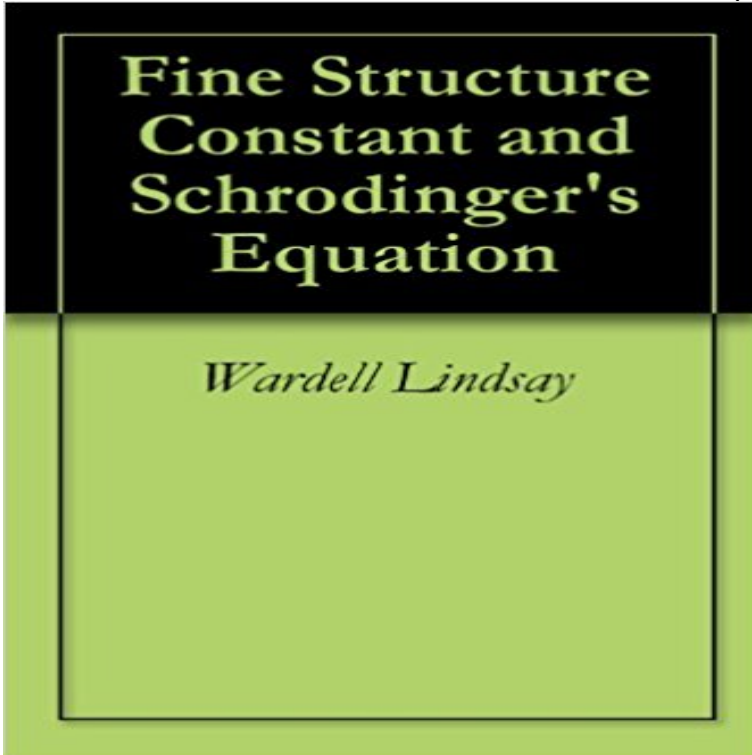


# Fine Structure Constant and Schrodingers Equation



Derivations of two signatures of Quantum Theory. The Fine Structure Constant is the Quantum equivalent of the redshift, widely used and widely misunderstood. Here the Constant is derived from Planks Constant and the free space(vacuum) impedance  $z$ . The free space impedance provides 375 Ohms resistance to electromagnetic waves. I show that  $z$  is a Quantum Constant related to Plancks Constant. Schrodingers Equation is shown to be Inflection Equation, a wave equation with value zero. This is a second Derivative or Curvature Equation. Schrodingers Equation is essentially a scalar equation . The proper equation derived fromm Quaternions physics shows that there should be two wave equations, a scalar and a vector. The vector wave equation is related with the particle vector wave. Both scalar and vector wave equations include scalar and vector elements. The DAlembertian carries the wave type. potential energy  $-ahc/r$  gives the scalar wave and  $cP$  the vector particle wave. Quaternions are teh natural basis for Quantum Physics, Quantums key in Non-commutativity, multidimensionality, not size.

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