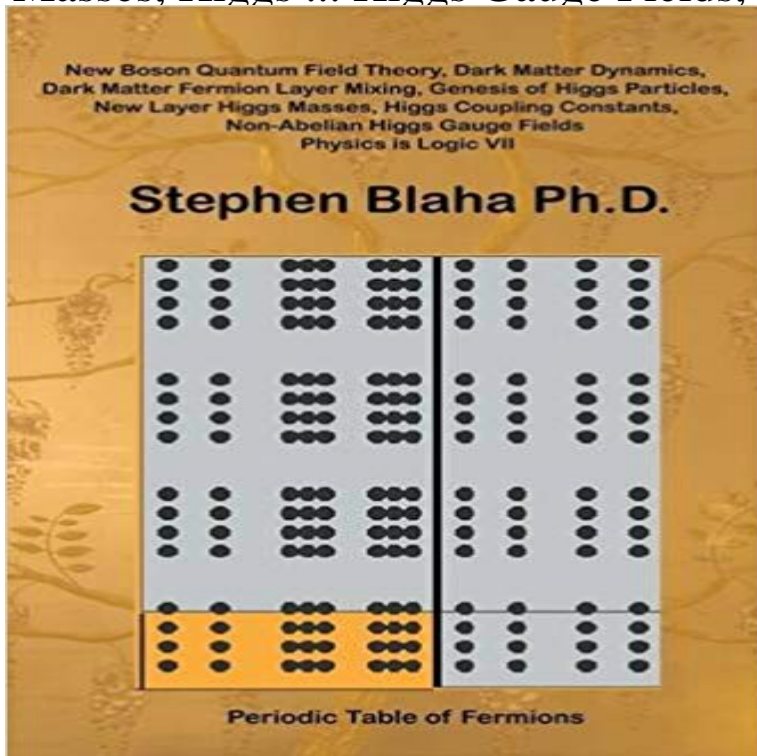


New Boson Quantum Field Theory, Dark Matter Dynamics, Dark Matter Fermion Layer Mixing, Genesis of Higgs Particles, New Layer Higgs Masses, Higgs ... Higgs Gauge Fields, Physics Is Logic VII



In this book we range over the features of the pseudoquantum Higgs Mechanism. We begin by describing the new pseudoquantum scalar boson theory and then describe important applications of the theory in our Theory of Everything. We discuss the pseudoquantum Higgs Mechanism (which is easily mapped to the conventional Higgs Mechanism) for Generation group contributions to fermion and gauge boson masses, and for the Layer group contributions as well in detail. We show that Higgs particles may originate in complex ElectroWeak gauge fields which are made real by the extraction of phases. Then gauge fields are real-valued as usually assumed. In the case of Strong Interaction gauge fields we find that we cannot extract Higgs particles because Strong Interaction gauge fields are inherently complex since they are functions of complex coordinates in our Extended Standard Model. Thus Strong gauge fields are necessarily massless. Our pseudoquantum approach is also shown to imply a local Arrow of Time, the special role of inertial reference frames, and inertial mass equals gravitational mass (formerly an assumed principle - now a result of complex General Relativity when decomposed to real General Relativity and Higgs fields). We describe the full set of fermion Higgs mass contributions: from the ElectroWeak sector, from complex General Relativity, from the Generation group (which also yields the four generations of fermions), and from the Layer group which yields four layers of fermions. Higgs contributions to gauge fields masses are also described in detail. The Periodic Table of Fermions is described, and its interactions and Higgs masses are found. As noted in our earlier books it gives the proportion of Dark Matter in the universe to be 83.33% - a result in close agreement with astrophysical estimates. Recent studies of

the proportion of Dark matter in the universe have yielded two estimates: 84.5% by Aghanim et al in Astronomy and Astrophysics 1303;5062 and 81.5% from a NASA fit to various models. Since there is continuing speculation about mass values changing in time (and perhaps in locale) we show our pseudoquantized Higgs Mechanism supports space-time dependent masses should they be found. We also describe our Higgs Mechanism formalism for the eight coupling constants. Again the mechanism can support constant coupling constants as well as space-time dependent coupling constants (a continuing speculation). We show that the coherent field formulation of the pseudoquantum vacuum states enables us to see that all known coupling constants (including gravity) emerge from constants that are all about one in value! Layer group mass mixing is described in detail as it introduces the somewhat unfamiliar concept of mass mixing between generations in the four layers. Similarly, the unusual pattern of Layer group interactions is described using a new triplet notation for fermion species s , layer l , and generation g : (s, l, g) that uniquely specifies each of the 192 fermions in our Theory of Everything. We define a non-Abelian pseudoquantum theory that supports non-zero gauge field vacuum expectation values - non-Abelian - Higgs particles and almost classical non-Abelian gauge fields. These almost classical gauge fields may be relevant in the study of the quark-gluon plasma that has been created at Brookhaven and CERN recently. The book ends with a description of a pseudoquantum spin 1 boson theory which can support the Higgs Mechanism.

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