

 Series on Knots and Everything — Vol. 27

BIT-STRING PHYSICS

A Finite and Discrete Approach
to Natural Philosophy

H. Pierre Noyes



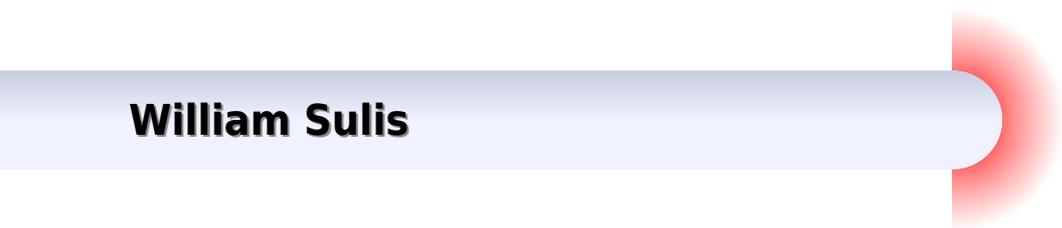
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Bitstring Physics A Finite And Discrete Approach To Natural Philosophy

William Sulis



Bitstring Physics A Finite And Discrete Approach To Natural Philosophy:

Bit-string Physics H. Pierre Noyes, J. C. van den Berg, 2001 We could be on the threshold of a scientific revolution Quantum mechanics is based on unique finite and discrete events General relativity assumes a continuous curved space time Reconciling the two remains the most fundamental unsolved scientific problem left over from the last century The papers of H Pierre Noyes collected in this volume reflect one attempt to achieve that unification by replacing the continuum with the bit string events of computer science Three principles are used physics can determine whether two quantities are the same or different measurement can tell something from nothing this structure modeled by binary addition and multiplication can leave a historical record consisting of a growing universe of bit strings This book is specifically addressed to those interested in the foundations of particle physics relativity quantum mechanics physical cosmology and the philosophy of science

Scientific Essays In Honor Of H Pierre Noyes On The Occasion Of His 90th Birthday Louis H Kauffman, John C Amson, 2013-11-26 This book is a Festschrift for the 90th birthday of the physicist Pierre Noyes The book is a representative selection of papers on the topics that have been central to the meetings over the last three decades of ANPA the Alternative Natural Philosophy Association ANPA was founded by Pierre Noyes and his colleagues the philosopher linguist physicist Frederick Parker Rhodes the physicist Ted Bastin and the mathematicians Clive Kilmister John Amson Many of the topics in the book center on the combinatorial hierarchy discovered by the originators of ANPA Other topics explore geometrical cosmological and biological aspects of those ideas and foundational aspects related to discrete physics and emergent quantum mechanics The book will be useful to readers interested in fundamental physics and particularly to readers looking for new and important viewpoints in Science that contain the seeds of futurity

One-cocycles And Knot Invariants Thomas Fiedler, 2023-01-04 One Cocycles and Knot Invariants is about classical knots i e smooth oriented knots in 3 space It introduces discrete combinatorial analysis in knot theory in order to solve a global tetrahedron equation This new technique is then used to construct combinatorial 1 cocycles in a certain moduli space of knot diagrams The construction of the moduli space makes use of the meridian and the longitude of the knot The combinatorial 1 cocycles are therefore lifts of the well known Conway polynomial of knots and they can be calculated in polynomial time The 1 cocycles can distinguish loops consisting of knot diagrams in the moduli space up to homology They give knot invariants when they are evaluated on canonical loops in the connected components of the moduli space They are a first candidate for numerical knot invariants which can perhaps distinguish the orientation of knots

On Complementarity: A Universal Organizing Principle Jack Shulman Avrin, 2021-08-06 It is not uncommon for the Principle of Complementarity to be invoked in either Science or Philosophy viz the ancient oriental philosophy of Yin and Yang whose symbolic representation is portrayed on the cover of the book Or Niels Bohr s use of it as the basis for the so called Copenhagen interpretation of Quantum Mechanics This book arose as an outgrowth of the author s previous book entitled *Knots Braids and Moebius Strips* published by World Scientific

in 2015 wherein the Principle itself was discovered to be expressible as a simple 2x2 matrix that summarizes the algebraic essence of both the well known Microbiology of DNA and the author's version of the elementary particles of physics. At that point the possibility of an even wider utilization of that expression of Complementarity arose. The current book features Complementarity in which the matrix algebra is extended to characterize not only DNA itself but the well known process of its replication, a most gratifying outcome. The book then goes on to explore Complementarity with and without its matrix expression as it occurs not only in much of physics but in its extension to cosmology as well.

Process And Time William Sulis, 2025-03-11. In this book an alternative to the timeless view of time is presented based on ideas of process, organism and a constructed reality in which temporal becoming provides the foundation of all experience and events. The classical arguments are analyzed from the worldview perspective and found to be lacking. Ideas of process proposed by Bergson, Whitehead, Arthur Trofimova and Sulis are presented suggesting a new processist worldview. This book will show that a time based on local becoming is entirely compatible with physics, especially quantum mechanics through a model based on process algebra. Some general features of the temporal ordering associated with local becoming are also presented. Recent popularizations of physics have fallen prey to sensationalism, emphasizing the conceptual challenges of understanding quantum phenomena while fostering a sense of inscrutability. Instead of challenging our fundamental conceptions of reality, the popular literature has been challenging the existence of reality itself. This book runs counter to this trend and attempts to put reality and time back into physics, avoiding quasi mysticism when thinking about the nature of quantum phenomena. It aims to show that arguments in philosophy and physics purporting to prove the non existence of time are flawed, describing the nature of models and theories of time but not time itself.

The Geometry Of The Universe Colin Rourke, 2021-06-03. Cosmology, the study of the universe, arouses a great deal of public interest with serious articles both in the scientific press and in major newspapers with many of the theories and concepts, e.g. the big bang and black holes, discussed often in great depth. Accordingly, the book is divided into three parts. Part 1 is readable and understandable by anyone with a nodding acquaintance with the basic language of cosmology: events, lights, paths, galaxies, black holes, and so on. It covers the whole story of the book in a way as untechnical as possible given the scope of the topics covered. Part 2 covers the same ground again but with enough technical details to satisfy a reader with basic knowledge of mathematics and/or physics. Part 3 consists of appendices which are referred to in the other parts and which also contain the highly technical material omitted from Section 2.

The Origin of Discrete Particles Ted Bastin, Clive William Kilmister, 2009. This book is a unique summary of the results of a long research project undertaken by the authors on discreteness in modern physics. In contrast with the usual expectation that discreteness is the result of mathematical tools for insertion into a continuous theory, this more basic treatment builds up the world from the discrimination of discrete entities. This gives an algebraic structure in which certain fixed numbers arise. As such, one agrees with the measured value of the fine structure constant to one part in 10 000 000 107.

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in Metropolitan Toronto Xenia Klinger,Canadian Waterfront Resource Centre,Royal Commission on the Future of the Toronto
Waterfront (Canada),1991 **Bit-string Physics: A Novel Theory of Everything** ,2001 We encode the quantum numbers
of the standard model of quarks and leptons using constructed bitstrings of length 256 These label a grouting universe of bit
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