

QUANTA, LOGIC AND SPACETIME

**VARIATIONS ON
FINKELSTEIN'S QUANTUM RELATIVITY**

S. A. SELESNICK

World Scientific

Quanta Logic And Spacetime

Dean Rickles



Quanta Logic And Spacetime:

Quanta, Logic And Spacetime: Variations On Finkelstein's Quantum Relativity Stephen A Selesnick,1998-03-12 In this highly interesting monograph a brief account of Finkelstein's approach to quantum theory and some of its ramifications is given Specifically his suggestion that some sort of quantum set like structure should underlie our macroscopic perception of spacetime is developed to the point where a fair slice of fundamental physics for a massless world may be formally derived in an elementary fashion from the ground up In detail a model of what Finkelstein has dubbed a quantum net in conjunction with a carefully and extensively articulated correspondence principle gives rise to the standard Lagrangians for massless Dirac fermions general relativity and Yang Mills fields for the gauge groups $U(1) \times SU(2)$ and $SU(3)$ These Lagrangians emerge replete with Feynman gauge fixing terms and ghost fields and a chiral breaking mechanism in the case of $SU(2)$ The results are interpreted in the light of the Standard Model

Quanta, Logic and Spacetime Stephen Allan Selesnick,2003 In this expanded edition of Quanta Logic and Spacetime the logical base is greatly broadened and quantum computational aspects of the approach are brought to the fore The first two parts of this edition may indeed be regarded as providing a self contained and logic based foundation for and an introduction to the enterprise known as quantum computing The rest of the work takes on the task as in the first edition of computing from first principles certain dynamical expressions which turn out to compare favorably with the Lagrangian densities of the massless Standard Model including gravity The logic of this process is now subject to greater formal rigor than was possible in the first edition and the central thesis that quantum physics at a fundamental level may itself be realized as a species of quantum computation is strongly underscored

Limbertwig
Emmerson, Parker,2023-06-13 This work is an attempt to describe various branches of mathematics and the analogies between them Namely 1 Symbolic Analogic 2 Lateral Algebraic Expressions 3 Calculus of Infinity Tensors Energy Number Synthesis 4 Perturbations in Waves of Calculus Structures Group Theory of Calculus 5 Algorithmic Formation of Symbols Encoding Algorithms The analogies between each of the branches and most certainly other branches of mathematics form logic vectors Forming vector statements of logical analogies and semantic connections between the differentiated branches of mathematics is useful It's useful because it gives us a linguistic notation from which we can derive other insights These combined insights from the logical vector space connections yield a combination of Numeric Energy and the logic space Thus I have derived and notated many of the most useful tangent ideas from which even more correlations and connections can be drawn Using AI these branches can be used to form even more connections through training of language engines on the derived models Through the vector logic space and the discovery of new sheaf Limbertwig vast combinations of novel mathematical statements are derived This paves the way for an AGI that is not rigid but flexible like a Limbertwig The Limbertwig sheaf is open meaning it can receive other mathematical logic vectors with different designated meanings of infinite or finite indicated elements Furthermore the articulation of these syntax forms evolves language away from imperative statements

into a mathematically emotive space Indeed shown within we see how the supramanifold of logic is shared with the supramanifold of space time mathematically Developing clean mathematical spaces can help meditation thought process acknowledgment of ideas spoken into that cognitive spacetime and in turn methods by which paradoxes can be resolved linguistically This toolkit should be useful to all in the sciences as well as those bridging the humanities to mathematics Using our memories as a toolkit to aggregate these ideas breaks down boundaries between them in a new exciting way Merging philosophy and Quantum Mechanics together through the lens of symbolic analogies gives the tools to unravel this mystery of all mysteries Mathematics thus exists as a bridge albeit a complex one between the two disciplines giving life to a composite art of problem solving Furthermore mathematics yields to millions of other applications that are potentially limited only by our imagination From massive data sets used for predictive analytics to emerging fields in medicine mathematics is an energy and force at the center of possibilities The power of mathematics to help manage life exists in its ability to shape and model the world in which we live and interact with one another In conclusion mathematics is a powerful tool that creates bridges and connections between many disciplines and serves as a powerful form of analytical data consumption It provides language rich bridges from which to assemble vast fields of theoretical investigations and create groundbreaking innovations As we approach new horizons in the technology timeline mathematics will continue to be a powerful driver of creativity and progress Topology symbolic analogies symbolic analogic lateral algebraic expressions calculus of infinity tensors calculus congruent integral methods congruent solve congruent topological notation n wave congruency n waves mathematical analysis monte carlo methods montecarlo simulation The Omega sub Lambda the Highest Energy level logic space logic vector formal logic circ tor Riemann hypothesis geometry helical calculus group theory wave integral field theory number theory statistical analysis topological counting infinity theory infinity infinity calculus quasi quanta energy numbers numeric energy primal energy of numbers topological numerals Algorithm Algorithmic encoding sheaf obverse bracket notation obverse brackets quantum mechanics psi artificial intelligence double forward derivatives derivatives integration integrals omega point set theory omega code permutation subgroup real analysis Lorentz coefficient phenomenological velocity velocity within the Lorentz coefficient ether orgone ether lorentz transformation equilibrium notation energy of an integer account cosmological constant infinity meaning notation linguistic balancing expressions balancing of infinity meanings fibonnaci lattice5 primes Prime Topological Numbers infinity tensor fractal morphism fractal counting Riemann hypothesis units length position sheaf of a quasi quanta theorem thought program variables powers vector space a priori real numbers elements of the product boundary limits algebraic object artefact malformed artefact imaginary reverse integration quantum channel transmission numeric energy quanta entanglement Laplacian aftermathic revelation raising the dead resurrection predestination v curvature elliptical functors strange attractor chaos theory synchronicity homological algebra

Modern Differential Geometry in Gauge Theories Anastasios Mallios, 2009-10-22 Original well written work of interest

Presents for the first time physical field theories written in sheaf theoretic language Contains a wealth of minutely detailed rigorous computations usually absent from standard physical treatments Author's mastery of the subject and the rigorous treatment of this text make it invaluable

Symmetry, Structure, and Spacetime Dean Rickles, 2008 In this book Rickles considers several interpretative difficulties raised by gauge type symmetries those that correspond to no change in physical state The ubiquity of such symmetries in modern physics renders them an urgent topic in philosophy of physics Rickles focuses on spacetime physics and in particular classical and quantum general relativity Here the problems posed are at their most pathological involving the apparent disappearance of spacetime Rickles argues that both traditional ontological positions should be replaced by a structuralist account according to which relational structure is what the physics is about Unified treatment of gauge symmetries and their relationship to ontology in physics Brings philosophy of space and time into step with developments in modern physics Argues against the received view on the implications of symmetries in physics Provides elementary treatments of technical issues Illustrates a novel defense of structuralism

Foundations of Relational Realism Michael Epperson, Elias Zafiris, 2013-06-20 If there is a central conceptual framework that has reliably borne the weight of modern physics as it ascends into the twenty first century it is the framework of quantum mechanics Because of its enduring stability in experimental application physics has today reached heights that not only inspire wonder but arguably exceed the limits of intuitive vision if not intuitive comprehension For many physicists and philosophers however the currently fashionable tendency toward exotic interpretation of the theoretical formalism is recognized not as a mark of ascent for the tower of physics but rather an indicator of sway one that must be dampened rather than encouraged if practical progress is to continue In this unique two part volume designed to be comprehensible to both specialists and non specialists the authors chart out a pathway forward by identifying the central deficiency in most interpretations of quantum mechanics That in its conventional metrical depiction of extension inherited from the Enlightenment objects are characterized as fundamental to relations i.e. such that relations presuppose objects but objects do not presuppose relations The authors by contrast argue that quantum mechanics exemplifies the fact that physical extensiveness is fundamentally topological rather than metrical with its proper logico mathematical framework being category theoretic rather than set theoretic By this thesis extensiveness fundamentally entails not only relations of objects but also relations of relations Thus the fundamental quanta of quantum physics are properly defined as units of logico physical relation rather than merely units of physical relata as is the current convention Objects are always understood as relata and likewise relations are always understood objectively In this way objects and relations are coherently defined as mutually implicative The conventional notion of a history as a story about fundamental objects is thereby reversed such that the classical objects become the story by which we understand physical systems that are fundamentally histories of quantum events These are just a few of the novel critical claims explored in this volume claims whose exemplification in quantum mechanics will the authors argue serve

more broadly as foundational principles for the philosophy of nature as it evolves through the twenty first century and beyond

Advances in Quantum Chemistry: Lowdin Volume ,2017-02-12 Advances in Quantum Chemistry Lowdin Volume presents a series of articles exploring aspects of the application of quantum mechanics to atoms molecules and solids Celebrates Per Olov Lowdin who would have been 100 in 2016 Contains papers by many who use his ideas in theoretical chemistry and physics today

Space, Time and the Limits of Human Understanding Shyam Wuppuluri,Giancarlo Ghirardi,2016-12-01 In this compendium of essays some of the world s leading thinkers discuss their conceptions of space and time as viewed through the lens of their own discipline With an epilogue on the limits of human understanding this volume hosts contributions from six or more diverse fields It presumes only rudimentary background knowledge on the part of the reader Time and again through the prism of intellect humans have tried to diffract reality into various distinct yet seamless atomic yet holistic independent yet interrelated disciplines and have attempted to study it contextually Philosophers debate the paradoxes or engage in meditations dialogues and reflections on the content and nature of space and time Physicists too have been trying to mold space and time to fit their notions concerning micro and macro worlds Mathematicians focus on the abstract aspects of space time and measurement While cognitive scientists ponder over the perceptual and experiential facets of our consciousness of space and time computer scientists theoretically and practically try to optimize the space time complexities in storing and retrieving data information The list is never ending Linguists logicians artists evolutionary biologists geographers etc all are trying to weave a web of understanding around the same duo However our endeavour into a world of such endless imagination is restrained by intellectual dilemmas such as Can humans comprehend everything Are there any limits Can finite thought fathom infinity We have sought far and wide among the best minds to furnish articles that provide an overview of the above topics We hope that through this journey a symphony of patterns and tapestry of intuitions will emerge providing the reader with insights into the questions What is Space What is Time Chapter 15 of this book is available open access under a CC BY 4 0 license

Concept and Formalization of Constellatory Self-Unfolding Albrecht von Müller,Elias Zafiris,2018-05-29 This volume offers a fundamentally different way of conceptualizing time and reality Today we see time predominantly as the linear sequential order of events and reality accordingly as consisting of facts that can be ordered along sequential time But what if this conceptualization has us mistaking the exhausts for the real thing i e if we miss the best the actual taking place of reality as it occurs in a very differently structured primordial form of time the time space of the present In this new conceptual framework both the sequential aspect of time and the factual aspect of reality are emergent phenomena that come into being only after reality has actually taken place In the new view facts are just the traces that the actual taking place of reality leaves behind on the co emergent canvas of local spacetime Local spacetime itself emerges only as facts come into being and only facts can be adequately localized in it But how does reality then actually occur It is conceived as a constellatory self unfolding

characterized by strong self referentiality and taking place in the primordial form of time the not yet sequentially structured time space of the present Time is seen here as an ontophainetic platform i e as the stage on which reality can first occur This view of time and thus also space seems to be very much in accordance with what we encounter in quantum physics before the so called collapse of the wave function In parallel classical and relativistic physics largely operate within the factual portrait of reality and the sequential aspect of time respectively Only singularities constitute an important exemption here the canvas of local spacetime that emerged together with factization melts down again In the novel framework quantum reduction and singularities can be seen and addressed as inverse transitions In quantum physical state reduction reality gains the chrono ontological format of facticity and the sequential aspect of time becomes applicable In singularities by contrast the inverse happens Reality loses its local spacetime formation and reverts back into its primordial pre local shape making in this way the use of causality relations Boolean logic and the dichotomization of subject and object obsolete For our understanding of the relation between quantum and relativistic physics this new view opens up fundamentally new perspectives Both are legitimate views of time and reality they just address very different chrono ontological portraits and thus should not lead us to erroneously subjugating one view under the other The task of the book is to provide a formal framework in which this radically different view of time and reality can be addressed properly The mathematical approach is based on the logical and topological features of the Borromean Rings It draws upon concepts and methods of algebraic and geometric topology especially the theory of sheaves and links group theory logic and information theory in relation to the standard constructions employed in quantum mechanics and general relativity shedding new light on the pestilential problems of their compatibility The intended audience includes physicists mathematicians and philosophers with an interest in the conceptual and mathematical foundations of modern physics

Physics and Speculative Philosophy Timothy E. Eastman, Michael Epperson, David Ray Griffin, 2016-02-22 Through both an historical and philosophical analysis of the concept of possibility we show how including both potentiality and actuality as part of the real is both compatible with experience and contributes to solving key problems of fundamental process and emergence The book is organized into four main sections that incorporate our routes to potentiality 1 potentiality in modern science history and philosophy quantum physics and complexity 2 Relational Realism ontological interpretation of quantum physics philosophy and logic 3 Process Physics ontological interpretation of relativity theory physics and philosophy 4 on speculative philosophy and physics limitations and approximations process philosophy We conclude that certain fundamental problems in modern physics require complementary analyses of certain philosophical and metaphysical issues and that such scholarship reveals intrinsic features and limits of determinism potentiality and emergence that enable among others important progress on the quantum theory of measurement problem and new understandings of emergence

Mindworlds J. Andrew Ross, 2015-10-06 Understanding consciousness is one of the central scientific challenges of our time This book presents Andy Ross s recent

work and discusses a range of perspectives on the core issues The chapters are based on texts written for a variety of occasions and audiences Reading them in order one senses a growing clarity in the articulation of the new ideas some of which are deep and rather subtle and glimpses the outlines of a dynamic field Ross has taken pains to unify the collection and make the main thread clearly visible His new ideas are of fundamental importance and readers who grapple with them should gain insight that amply rewards the effort

Quantum-like Networks: An Approach To Neural Behavior Through Their Mathematics And Logic Stephen A Selesnick,2022-08-03 Do brains compute If they do what do they compute and how do they do it The first part of the book introduces the development of a model that simulates actual biological neurons more closely than do current standard models of neural networks as well as the deduction of its physics like and computational properties from first principles The second part presents a collection of applications of the model to memory formation and loss a general syntax for memory retrieval language itself and certain forms of aphasia A linear development of the discussion with proofs in situ is employed by the author making the book essentially self contained A pair of helpful appendices are provided to acquaint the reader with necessary fundamentals of topics in logic and mathematics Quantum like Networks An Approach to Neural Behavior through their Mathematics and Logic will show you an entirely new approach to an ancient subject

Differential Sheaves And Connections: A Natural Approach To Physical Geometry Anastasios Mallios,Elias Zafiris,2015-09-17 This unique book provides a self contained conceptual and technical introduction to the theory of differential sheaves This serves both the newcomer and the experienced researcher in undertaking a background independent natural and relational approach to physical geometry In this manner this book is situated at the crossroads between the foundations of mathematical analysis with a view toward differential geometry and the foundations of theoretical physics with a view toward quantum mechanics and quantum gravity The unifying thread is provided by the theory of adjoint functors in category theory and the elucidation of the concepts of sheaf theory and homological algebra in relation to the description and analysis of dynamically constituted physical geometric spectrums

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 *A Synthesis of Number, Space-time and Energy* Arvid Reuterdaahl,1923 *Causality, Meaningful Complexity and Embodied Cognition* A. Carsetti,2010-03-10 Arturo Carsetti

According to molecular Biology true invariance life can exist only within the framework of ongoing autonomous morphogenesis and vice versa With respect to this secret dialectics life and cognition appear as indissolubly interlinked In this sense for instance the inner articulation of conceptual spaces appears to be linked to an inner functional development based on a continuous activity of selection and anchorage realised on semantic grounds It is the work of invention and generation in invariance linked with the rooting of meaning which determines the evolution the leaps and punctuated equilibria the conditions related to the unfolding of new modalities of invariance an invariance which is never simple repetition and which springs on each occasion through deep level processes of renewal and recovery The selection perpetrated by meaning reveals its autonomy aboveall in its underpinning in an objective way the ongoing choice of these new modalities As such it is not then concerned only with the game of possibles offering itself as a simple channel for pure chance but with providing a channel for the articulation of the life in the humus of a semantic and embodied net in order to prepare the necessary conditionsfor a continuousrenewal and recoveryof original creativity In effect it is this autonomy in inventing new possible modules of incompressibility whichdeterminestheactualemergenceofnew andtrue creativity whichalsotakes place through the narration of the effected construction *Journal of the ACM.* ,2000 **Physics Of Reality, The: Space, Time, Matter, Cosmos - Proceedings Of The 8th Symposium Honoring Mathematical Physicist Jean-pierre Vigier** Richard L Amoroso,Louis H Kauffman,Peter Rowlands,2013-09-18 A truly Galilean class volume this book introduces a new method in theory formation completing the tools of epistemology It covers a broad spectrum of theoretical and mathematical physics by researchers from over 20 nations from four continents Like Vigier himself the Vigier symposia are noted for addressing avant garde cutting edge topics in contemporary physics Among the six proceedings honoring J P Vigier this is perhaps the most exciting one as several important breakthroughs are introduced for the first time The most interesting breakthrough in view of the recent NIST experimental violations of QED is a continuation of the pioneering work by Vigier on tight bound states in hydrogen The new experimental protocol described not only promises empirical proof of large scale extra dimensions in conjunction with avenues for testing string theory but also implies the birth of the field of unified field mechanics ushering in a new age of discovery Work on quantum computing redefines the qubit in a manner that the uncertainty principle may be routinely violated Other breakthroughs occur in the utility of quaternion algebra in extending our understanding of the nature of the fermionic singularity or point particle There are several other discoveries of equal magnitude making this volume a must have acquisition for the library of any serious forward looking researchers *Mathematical Reviews* ,2005

Unified Field Mechanics: Natural Science Beyond The Veil Of Spacetime - Proceedings Of The IX Symposium Honoring Noted French Mathematical Physicist Jean-pierre Vigier Richard L Amoroso, Louis H Kauffman, Peter Rowlands, 2015-09-08 Unified Field Mechanics the topic of the 9th international symposium honoring noted French mathematical physicist Jean Pierre Vigier cannot be considered highly speculative as a myopic critic might surmise The 8th Vigier Symposium proceedings The Physics of Reality should in fact be touted as a companion volume because of its dramatic theoretical Field Mechanics in additional dimensionality Many still consider the Planck scale zero point field stochastic quantum foam as the basement of reality This could only be considered true under the limitations of the Copenhagen interpretation of quantum theory As we enter the next regime of Unified Field Mechanics we now know that the energy dependent Einstein Minkowski manifold called spacetime has a finite radius beyond which a large scale multiverse beckons So far a battery of 14 experiments has been designed to falsify the model When the 1st is successfully performed a revolution in Natural Science will occur This volume strengthens and expands the theoretical and experimental basis for that immanent new age

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Quanta Logic And Spacetime Introduction

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