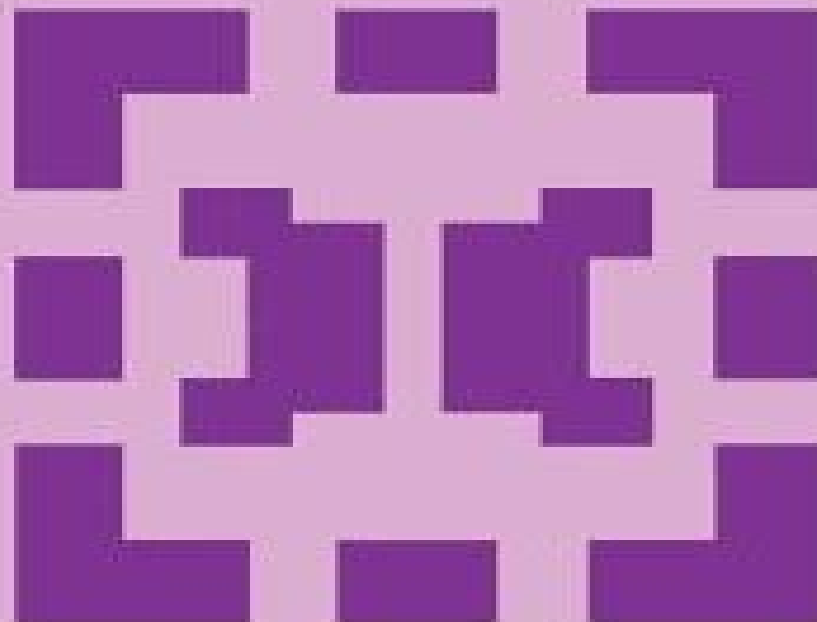# Anastasios Mallios

Geometry of Vector Sheaves

An Axiomatic Approach to Differential Geometry

Volume II:
Geometry. Examples and Applications

Geometry Of Vector Sheaves An Axiomatic Approach To Differential Geometry

Michael Epperson,Elias Zafiris

Geometry Of Vector Sheaves An Axiomatic Approach To Differential Geometry:

    Geometry of Vector Sheaves Anastasios Mallios,1998 This text is part of a two volume monograph which obtains fundamental notions and results of the standard differential geometry of smooth manifolds without using differential calculus Here the sheaf theoretic character is emphasized This has theoretical advantages such as greater perspective clarity and unification but also practical benefits ranging from elementary particle physics via gauge theories and theoretical cosmology differential spaces to non linear PDEs generalized functions Thus more general applications which are no longer smooth in the classical sense can be coped with The treatise might also be construed as a new systematic endeavour to confront the ever increasing notion that the world around us is far from being smooth enough   **Geometry of Vector Sheaves** Anastasios Mallios,2012-12-06 This two volume monograph obtains fundamental notions and results of the standard differential geometry of smooth CINFINITY manifolds without using differential calculus Here the sheaf theoretic character is emphasised This has theoretical advantages such as greater perspective clarity and unification but also practical benefits ranging from elementary particle physics via gauge theories and theoretical cosmology differential spaces to non linear PDEs generalised functions Thus more general applications which are no longer smooth in the classical sense can be coped with The treatise might also be construed as a new systematic endeavour to confront the ever increasing notion that the world around us is far from being smooth enough Audience This work is intended for postgraduate students and researchers whose work involves differential geometry global analysis analysis on manifolds algebraic topology sheaf theory cohomology functional analysis or abstract harmonic analysis   **Geometry of Vector Sheaves** Anastasios Mallios,1998 This is the second volume of a two volume monograph which obtains fundamental notions and results of the standard differential geometry of smooth manifolds without using differential calculus Here the sheaf theoretic character is emphasized This has theoretical advantages such as greater perspective clarity and unification but also practical benefits ranging from elementary particle physics via gauge theories and theoretical cosmology differential spaces to non linear PDEs generalized functions Thus more general applications which are no longer smooth in the classical sense can be coped with The treatise might also be construed as a new systematic endeavour to confront the ever increasing notion that the world around us is far from being smooth enough   *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   *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   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   **Natural Communication** Elias Zafiris,2021-03-08 In Natural Communication the author criticizes the current paradigm of specific goal orientation in the complexity sciences and proposes an alternative that envisions a fundamental architectonics of communication His model of natural communication encapsulates modern theoretical concepts from mathematics and physics in particular category theory and quantum theory From these fields it abstracts precise concepts such as to constitute a terminological basis for this theory which offers the opportunity to open up novel ways of thinking about complexity The author is convinced that it is only possible to establish a continuity and coherence with contemporary thinking especially with respect to complexity through looking into the past   *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   *Modern Differential Geometry in Gauge Theories* Anastasios Mallios,2006-07-27 This is 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 ususally absent from standard physical treatments Author s mastery of the subject and the rigorous treatment of this text make it invaluable   **Vector Bundles and Their Applications** Glenys Luke,Alexander S. Mishchenko,2013-03-09 The book is devoted to the basic notions of vector bundles and their applications The focus of attention is towards explaining the most important notions and geometric constructions connected with the theory of vector bundles Theorems are not always formulated in maximal generality but rather in such a way that the geometric nature of the objects comes to the fore Whenever possible examples are given to illustrate the role of vector bundles Audience With numerous illustrations and applications to various problems in mathematics and the sciences the book will be of interest to a range of graduate students from pure and applied mathematics   **Topological Algebras and Their Applications** Hugo Arizmendi,Lourdes Palacios,2004 The Fourth International Conference on Topological Algebras and Their Applications was held in Oaxaca Mexico This meeting brought together international specialists and Mexican specialists in topological algebras locally convex and Banach spaces spectral theory and operator theory and related topics This volume contains talks presented at the conference as well as articles received in response to a call for papers some are expository and provide new insights while others contain new research The book is suitable for graduate students and research mathematicians working in topological vector spaces topological algebras and their applications   Topological Fixed Point Theory of Multivalued Mappings Lech Górniewicz,2013-11-11 This book is an attempt to give a systematic presentation of results and meth ods which concern the fixed point theory of multivalued mappings and some of its applications In selecting the material we have restricted ourselves to study ing topological methods in the fixed point theory of multivalued mappings and applications mainly to differential inclusions Thus in Chapter III the approximation on the graph method in fixed point theory of multi valued mappings is presented Chapter IV is devoted to the homo logical methods and contains more general results e g the Lefschetz Fixed Point Theorem the fixed point index and the topological degree theory In Chapter V applications to some special problems in fixed point theory are formulated Then in the last chapter a direct application s to differential inclusions are presented Note that Chapter I and Chapter II have an auxiliary character and only results con nected with the Banach Contraction Principle see Chapter II are strictly related to topological methods in the

fixed point theory In the last section of our book see Section 75 we give a bibliographical guide and also signal some further results which are not contained in our monograph The author thanks several colleagues and my wife Maria who read and com mented on the manuscript These include J Andres A Buraczewski G Gabor A Gorka M Gorniewicz S Park and A Wieczorek The author wish to express his gratitude to P Konstanty for preparing the electronic version of this monograph

Continuous Selections of Multivalued Mappings D. Repovs,P.V. Semenov,2013-04-17 This book is dedicated to the theory of continuous selections of multi valued mappings a classical area of mathematics as far as the formulation of its fundamental problems and methods of solutions are concerned as well as J n area which has been intensively developing in recent decades and has found various applications in general topology theory of absolute retracts and infinite dimensional manifolds geometric topology fixed point theory functional and convex analysis game theory mathematical economics and other branches of modern mathematics The fundamental results in this the ory were laid down in the mid 1950 s by E Michael The book consists of relatively independent three parts Part A Theory Part B Results and Part C Applications We shall refer to these parts simply by their names The target audience for the first part are students of mathematics in their senior year or in their first year of graduate school who wish to get familiar with the foundations of this theory The goal of the second part is to give a comprehensive survey of the existing results on continuous selections of multivalued mappings It is intended for specialists in this area as well as for those who have mastered the material of the first part of the book In the third part we present important examples of applications of continuous selections We have chosen examples which are sufficiently interesting and have played in some sense key role in the corresponding areas of mathematics **Smooth Quasigroups and Loops** L. Sabinin,2012-12-06 During the last twenty five years quite remarkable relations between nonas sociative algebra and differential geometry have been discovered in our work Such exotic structures of algebra as quasigroups and loops were obtained from purely geometric structures such as affinely connected spaces The notion ofodule was introduced as a fundamental algebraic invariant of differential geometry For any space with an affine connection loopuscular odular and geoodular structures partial smooth algebras of a special kind were introduced and studied As it happened the natural geoodular structure of an affinely connected space al lows us to reconstruct this space in a unique way Moreover any smooth ab stractly given geoodular structure generates in a unique manner an affinely con nected space with the natural geoodular structure isomorphic to the initial one The above said means that any affinely connected in particular Riemannian space can be treated as a purely algebraic structure equipped with smoothness Numerous habitual geometric properties may be expressed in the language of geoodular structures by means of algebraic identities etc Our treatment has led us to the purely algebraic concept of affinely connected in particular Riemannian spaces for example one can consider a discrete or even finite space with affine connection in the form ofgeoodular structure which can be used in the old problem of discrete space time in relativity essential for the quantum space time theory **Differentiable and Complex Dynamics of**

Several Variables Pei-Chu Hu,Chung-Chun Yang,2013-04-17 The development of dynamics theory began with the work of Isaac Newton In his theory the most basic law of classical mechanics is f ma which describes the motion n in IR of a point of mass m under the action of a force f by giving the acceleration a If n the position of the point is taken to be a point x E IR and if the force f is supposed to be a function of x only Newton s Law is a description in terms of a second order ordinary differential equation J2x m dt f x 2 It makes sense to reduce the equations to first order by defining the velo city as an extra n independent variable by v i E IR Then x v mv f x L Euler J L Lagrange and others studied mechanics by means of an analytical method called analytical dynamics Whenever the force f is represented by a gradient vector field f lU of the potential energy U and denotes the difference of the kinetic energy and the potential energy by 1 L x v 2 m v v U x the Newton equation of motion is reduced to the Euler Lagrange equation are used as the variables the Euler Lagrange equation can be If the momenta y written as 8L y 8x Further W R   **New Spaces in Mathematics** Mathieu Anel,Gabriel Catren,2021-04 In this graduate level book leading researchers explore various new notions of space in mathematics   Geometry of Principal Sheaves Efstathios Vassiliou,2006-03-30 The book provides a detailed introduction to the theory of connections on principal sheaves in the framework of Abstract Differential Geometry ADG This is a new approach to differential geometry based on sheaf theoretic methods without use of ordinary calculus This point of view complies with the demand of contemporary physics to cope with non smooth models of physical phenomena and spaces with singularities Starting with a brief survey of the required sheaf theory and cohomology the exposition then moves on to differential triads the abstraction of smooth manifolds and Lie sheaves of groups the abstraction of Lie groups Having laid the groundwork the main part of the book is devoted to the theory of connections on principal sheaves incorporating connections on vector and associated sheaves Topics such as the moduli sheaf of connections classification of principal sheaves curvature flat connections and flat sheaves Chern Weil theory are also treated The study brings to light fundamental notions and tools of the standard differential geometry which are susceptible of the present abstraction and whose role remains unexploited in the classical context because of the abundance of means therein However most of the latter are nonsensical in ADG   Topological Algebras with Involution M. Fragoulopoulou,2005-07-26 This book familiarizes both popular and fundamental notions and techniques from the theory of non normed topological algebras with involution demonstrating with examples and basic results the necessity of this perspective The main body of the book is focussed on the Hilbert space bounded representation theory of topological algebras and their topological tensor products since in our physical world apart from the majority of the existing unbounded operators we often meet operators that are forced to be bounded like in the case of symmetric algebras So one gets an account of how things behave when the mathematical structures are far from being algebras endowed with a complete or non complete algebra norm In problems related with mathematical physics such instances are indeed quite common Key features Lucid presentation Smooth in reading Informative Illustrated by examples Familiarizes the reader with the non

normed world Encourages the hesitant Welcomes new comers Well written and lucid presentation Informative and illustrated by examples Familiarizes the reader with the non normed world   Parametric Lie Group Actions on Global Generalised Solutions of Nonlinear PDEs Elemer E. Rosinger,2013-03-09 This book presents global actions of arbitrary Lie groups on large classes of generalised functions by using a novel parametric approach This new method extends and completes earlier results of the author and collaborators in which global Lie group actions on generalised functions were only defined in the case of projectable or fibre preserving Lie group actions The parametric method opens the possibility of dealing with vastly larger classes of Lie semigroup actions which still transform solutions into solutions These Lie semigroups can contain arbitrary noninvertible smooth mappings Thus they cannot be subsemigroups of Lie groups Audience This volume is addressed to graduate students and researchers involved in solving linear and nonlinear partial differential equations and in particular in dealing with the Lie group symmetries of their classical or generalised solutions   **Ricerche di matematica** ,2010

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