José F. Cariñena
Alberto Ibort
Giuseppe Marmo
Giuseppe Morandi

Geometry from Dynamics, Classical and Quantum

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Geometry From Dynamics Classical And Quantum:

Geometry from Dynamics, Classical and Quantum José F. Cariñena,Alberto Ibort,Giuseppe Marmo,Giuseppe Morandi,2014-09-23 This book describes by using elementary techniques how some geometrical structures widely used today in many areas of physics like symplectic Poisson Lagrangian Hermitian etc emerge from dynamics It is assumed that what can be accessed in actual experiences when studying a given system is just its dynamical behavior that is described by using a family of variables observables of the system The book departs from the principle that dynamics is first and then tries to answer in what sense the sole dynamics determines the geometrical structures that have proved so useful to describe the dynamics in so many important instances In this vein it is shown that most of the geometrical structures that are used in the standard presentations of classical dynamics Jacobi Poisson symplectic Hamiltonian Lagrangian are determined though in general not uniquely by the dynamics alone The same program is accomplished for the geometrical structures relevant to describe quantum dynamics Finally it is shown that further properties that allow the explicit description of the dynamics of certain dynamical systems like integrability and super integrability are deeply related to the previous development and will be covered in the last part of the book The mathematical framework used to present the previous program is kept to an elementary level throughout the text indicating where more advanced notions will be needed to proceed further A family of relevant examples is discussed at length and the necessary ideas from geometry are elaborated along the text However no effort is made to present an all inclusive introduction to differential geometry as many other books already exist on the market doing exactly that However the development of the previous program considered as the posing and solution of a generalized inverse problem for geometry leads to new ways of thinking and relating some of the most conspicuous geometrical structures appearing in Mathematical and Theoretical Physics   Classical and Quantum Physics G. Marmo,David Martín de Diego,Miguel Muñoz Lecanda,2019-10-26 This proceedings is based on the interdisciplinary workshop held in Madrid 5 9 March 2018 dedicated to Alberto Ibort on his 60th birthday Alberto has great and significantly contributed to many fields of mathematics and physics always with highly original and innovative ideas Most of Albertos s scientific activity has been motivated by geometric ideas concepts and tools that are deeply related to the framework of classical dynamics and quantum mechanics Let us mention some of the fields of expertise of Alberto Ibort Geometric Mechanics Constrained Systems Variational Principles Multisymplectic structures for field theories Super manifolds Inverse problem for Bosonic and Fermionic systems Quantum Groups Integrable systems BRST Symmetries Implicit differential equations Yang Mills Theories BiHamiltonian Systems Topology Change and Quantum Boundary Conditions Classical and Quantum Control Orthogonal Polynomials Quantum Field Theory and Noncommutative Spaces Classical and Quantum Tomography Quantum Mechanics on phase space Wigner Weyl formalism Lie Jordan Algebras Classical and Quantum Quantum to Classical transition Contraction of Associative Algebras contact geometry among many others In each

contribution one may find not only technical novelties but also completely new way of looking at the considered problems Even an experienced reader reading Alberto s contributions on his field of expertise will find new perspectives on the considered topic His enthusiasm is happily contagious for this reason he has had and still has very bright students wishing to elaborate their PhD thesis under his guidance What is more impressive is the broad list of rather different topics on which he has contributed **Geometric Science of Information** Frank Nielsen,Frédéric Barbaresco,2017-10-30 This book constitutes the refereed proceedings of the Third International Conference on Geometric Science of Information GSI 2017 held in Paris France in November 2017 The 101 full papers presented were carefully reviewed and selected from 113 submissions and are organized into the following subjects statistics on non linear data shape space optimal transport and applications image processing optimal transport and applications signal processing statistical manifold and hessian information geometry monotone embedding in information geometry information structure in neuroscience geometric robotics and tracking geometric mechanics and robotics stochastic geometric mechanics and Lie group thermodynamics probability on Riemannian manifolds divergence geometry non parametric information geometry optimization on manifold computational information geometry probability density estimation session geometry of tensor valued data geodesic methods with constraints applications of distance geometry **Geometrical Dynamics of Complex Systems** Vladimir G. Ivancevic,Tijana T. Ivancevic,2006-01-18 Geometrical Dynamics of Complex Systems is a graduate level monographic textbook Itrepresentsacomprehensiveintroductionintorigorousgeometrical dynamicsofcomplexsystemsofvariousnatures By complexsystems inthis book are meant high dimensional nonlinear systems which can be but not necessarily are adaptive This monograph proposes a uni ed geometrical proachtodynamicsofcomplexsystemsofvariouskinds engineering physical biophysical psychophysical sociophysical econophysical etc As their names suggest all these multi input multi output MIMO systems have something in common the underlying physics However instead of dealing with the pop 1 ular soft complexity philosophy we rather propose a rigorous geometrical and topological approach We believe that our rigorous approach has much greater predictive power than the soft one We argue that science and te nology is all about prediction and control Observation understanding and explanation are important in education at undergraduate level but after that it should be all prediction and control The main objective of this book is to show that high dimensional nonlinear systems and processes of real life can be modelled and analyzed using rigorous mathematics which enables their complete predictability and controllability as if they were linear systems It is well known that linear systems which are completely predictable and controllable by de nition live only in Euclidean spaces of various mensions They are as simple as possible mathematically elegant and fully elaborated from either scienti c or engineering side However in nature no ing is linear In reality everything has a certain degree of nonlinearity which means unpredictability with subsequent uncontrollability Selected Papers from the 16th International Conference on Squeezed States and Uncertainty Relations (ICSSUR 2019) Margarita A. Man'ko,Luis L.

Sánchez-Soto,2020-11-09 The first quantum revolution started in the early 20th century and gave us new rules that govern physical reality Accordingly many devices that changed dramatically our lifestyle such as transistors medical scanners and lasers appeared in the market This was the origin of quantum technology which allows us to organize and control the components of a complex system governed by the laws of quantum physics This is in sharp contrast to conventional technology which can only be understood within the framework of classical mechanics We are now in the middle of a second quantum revolution Although quantum mechanics is nowadays a mature discipline quantum engineering as a technology is now emerging in its own right We are about to manipulate and sense individual particles measuring and exploiting their quantum properties This is bringing major technical advances in many different areas including computing sensors simulations cryptography and telecommunications The present collection of selected papers is a clear demonstration of the tremendous vitality of the field The issue is composed of contributions from world leading researchers in quantum optics and quantum information and presents viewpoints both theoretical and experimental on a variety of modern problems **An Introduction to Groups, Groupoids and Their Representations** Alberto Ibort,Miguel A. Rodriguez,2019-10-28 This book offers an introduction to the theory of groupoids and their representations encompassing the standard theory of groups Using a categorical language developed from simple examples the theory of finite groupoids is shown to knit neatly with that of groups and their structure as well as that of their representations is described The book comprises numerous examples and applications including well known games and puzzles databases and physics applications Key concepts have been presented using only basic notions so that it can be used both by students and researchers interested in the subject Category theory is the natural language that is being used to develop the theory of groupoids However categorical presentations of mathematical subjects tend to become highly abstract very fast and out of reach of many potential users To avoid this foundations of the theory starting with simple examples have been developed and used to study the structure of finite groups and groupoids The appropriate language and notions from category theory have been developed for students of mathematics and theoretical physics The book presents the theory on the same level as the ordinary and elementary theories of finite groups and their representations and provides a unified picture of the same The structure of the algebra of finite groupoids is analysed along with the classical theory of characters of their representations Unnecessary complications in the formal presentation of the subject are avoided The book offers an introduction to the language of category theory in the concrete setting of finite sets It also shows how this perspective provides a common ground for various problems and applications ranging from combinatorics the topology of graphs structure of databases and quantum physics CONTROLO 2024 Antonio Pedro Aguiar,Paula Rocha Malonek,Vítor Hugo Pinto,Fernando A. C. C. Fontes,Roman Chertovskih,2025-04-22 This book offers a perfect insight of the latest research and developments in the fields of dynamic systems and control engineering Gathering the proceedings of the 16th APCA International Conference on Automatic Control and Soft Computing

CONTROLO 2024 held on July 17 19 2024 in Porto Portugal this volume covers a wide range of theoretical and practical issues relating to the development and use of different control approaches such as PID control adaptive control non linear control intelligent monitoring and control based on fuzzy and neural systems Further topics include robust control systems and real time control Sensors and actuators measurement systems renewable energy systems aeronautic and aerospace systems as well as industrial control and automation are also comprehensively covered All in all this book offers a timely and thoroughly survey of the latest research in the fields of dynamic systems and automatic control engineering and a source of inspiration for researchers and professionals worldwide **A Guide To Lie Systems With Compatible Geometric Structures** Javier De Lucas Araujo,Cristina Sardon Munoz,2020-01-22 The book presents a comprehensive guide to the study of Lie systems from the fundamentals of differential geometry to the development of contemporary research topics It embraces several basic topics on differential geometry and the study of geometric structures while developing known applications in the theory of Lie systems The book also includes a brief exploration of the applications of Lie systems to superequations discrete systems and partial differential equations Offering a complete overview from the topic s foundations to the present this book is an ideal resource for Physics and Mathematics students doctoral students and researchers **Real Spinorial Groups** Sebastià Xambó-Descamps,2018-11-22 This book explores the Lipschitz spinorial groups versor pinor spinor and rotor groups of a real non degenerate orthogonal geometry or orthogonal geometry for short and how they relate to the group of isometries of that geometry After a concise mathematical introduction it offers an axiomatic presentation of the geometric algebra of an orthogonal geometry Once it has established the language of geometric algebra linear grading of the algebra geometric exterior and interior products involutions it defines the spinorial groups demonstrates their relation to the isometry groups and illustrates their suppleness geometric covariance with a variety of examples Lastly the book provides pointers to major applications an extensive bibliography and an alphabetic index Combining the characteristics of a self contained research monograph and a state of the art survey this book is a valuable foundation reference resource on applications for both undergraduate and graduate students **Gravitation** Charles W. Misner,Kip S. Thorne,John Archibald Wheeler,2017-10-24 Spacetime physics Physics in flat spacetime The mathematics of curved spacetime Einstein s geometric theory of gravity Relativistic stars The universe Gravitational collapse and black holes Gravitational waves Experimental tests of general relativity Frontiers *Applications of Contact Geometry and Topology in Physics* Arkady Leonidovich Kholodenko,2013 Although contact geometry and topology is briefly discussed in V I Arnol d s book Mathematical Methods of Classical Mechanics Springer Verlag 1989 2nd edition it still remains a domain of research in pure mathematics e g see the recent monograph by H Geiges An Introduction to Contact Topology Cambridge U Press 2008 Some attempts to use contact geometry in physics were made in the monograph Contact Geometry and Nonlinear Differential Equations Cambridge U Press 2007 Unfortunately even the excellent style of this monograph is not sufficient to attract the attention of the physics

community to this type of problems This book is the first serious attempt to change the existing status quo In it we demonstrate that in fact all branches of theoretical physics can be rewritten in the language of contact geometry and topology from mechanics thermodynamics and electrodynamics to optics gauge fields and gravity from physics of liquid crystals to quantum mechanics and quantum computers etc The book is written in the style of famous Landau Lifshitz L L multivolume course in theoretical physics This means that its readers are expected to have solid background in theoretical physics at least at the level of the L L course No prior knowledge of specialized mathematics is required All needed new mathematics is given in the context of discussed physical problems As in the L L course some problems exercises are formulated along the way and again as in the L L course these are always supplemented by either solutions or by hints with exact references Unlike the L L course though some definitions theorems and remarks are also presented This is done with the purpose of stimulating the interest of our readers in deeper study of subject matters discussed in the text **High Energy Physics And Cosmology - Proceedings Of The 1990 Summer School** Jogesh C Pati,Seifallah Randjbar-daemi,Ergin Sezgin,Qaisar Shafi,1991-05-16 This School presented topics of current interest in high energy physics including Superstrings Unified Theories and Cosmology General Relativity, Cosmology and Astrophysics Jiří Bičák,Tomáš Ledvinka,2014-06-12 The articles included in this Volume represent a broad and highly qualified view on the present state of general relativity quantum gravity and their cosmological and astrophysical implications As such it may serve as a valuable source of knowledge and inspiration for experts in these fields as well as an advanced source of information for young researchers The occasion to gather together so many leading experts in the field was to celebrate the centenary of Einstein s stay in Prague in 1911 1912 It was in fact during his stay in Prague that Einstein started in earnest to develop his ideas about general relativity that fully developed in his paper in 1915 Approaching soon the centenary of his famous paper this volume offers a precious overview of the path done by the scientific community in this intriguing and vibrant field in the last century defining the challenges of the next 100 years The content is divided into four broad parts i Gravity and Prague ii Classical General Relativity iii Cosmology and Quantum Gravity and iv Numerical Relativity and Relativistic Astrophysics **Structure of Dynamical Systems** J.M. Souriau,1997-09-23 The aim of the book is to treat all three basic theories of physics namely classical mechanics statistical mechanics and quantum mechanics from the same perspective that of symplectic geometry thus showing the unifying power of the symplectic geometric approach Reading this book will give the reader a deep understanding of the interrelationships between the three basic theories of physics This book is addressed to graduate students and researchers in mathematics and physics who are interested in mathematical and theoretical physics symplectic geometry mechanics and geometric quantization Physical Origins of Time Asymmetry J. J. Halliwell,J. Pérez-Mercader,W. H. Zurek,1996-03-21 We say that the processes going on in the world about us are asymmetric in time or display an arrow of time Yet this manifest fact of our experience is particularly difficult to explain in terms of the fundamental

laws of physics This volume reconciles these profoundly conflicting facts **Natural Biodynamics** Vladimir G. Ivancevic,Tijana T. Ivancevic,2005 This comprehensive volume is a graduate level text in human biodynamics written in the unified categorical language of modern differential geometry and topology Combining mathematics physics and robotics with human physiology this is the first book that describes all levels of human biodynamics from musculo skeletal mechanics to the higher brain functions The book develops and uses a variety of research methods ranging from chaos theory and Haken s synergetics through quantum mechanics to nonlinear control and artificial intelligence to provide the means to understand predict and control the behavior of human like systems in their full neuro musculo skeletal complexity The applications of this unique scientific methodology range from prediction of human neuro musculo skeletal injuries to brain like control of humanoid robots Search Algorithms for Engineering Optimization Taufik Abrão,2013-02-13 Heuristic Search is an important sub discipline of optimization theory and finds applications in a vast variety of fields including life science and engineering Search methods have been useful in solving tough engineering oriented problems that either could not be solved any other way or solutions take a very long time to be computed This book explores a variety of applications for search methods and techniques in different fields of electrical engineering By organizing relevant results and applications this book will serve as a useful resource for students researchers and practitioners to further exploit the potential of search methods in solving hard optimization problems that arise in advanced engineering technologies such as image and video processing issues detection and resource allocation in telecommunication systems security and harmonic reduction in power generation systems as well as redundancy optimization problem and search fuzzy learning mechanisms in industrial applications

The Ashgate Companion to Contemporary Philosophy of Physics Dean Rickles,2016-11-25 Introducing the reader to the very latest developments in the philosophical foundations of physics this book covers advanced material at a level suitable for beginner and intermediate students A detailed overview is provided of the central debates in the philosophy of quantum mechanics statistical mechanics quantum computation and quantum gravity Each chapter consists of a state of the art review written by a specialist in the field and introduces the reader to the relevant formal aspects along with the philosophical implications These and the various interpretive options are developed in a self contained clear and concise manner Special care is given to situating the reader within the contemporary debates by providing numerous references and readings This book thus enables both philosophers and physicists to engage with the most pressing problems in contemporary philosophy of physics in a fruitful way Hamiltonian Systems Albert Fathi,Philip J. Morrison,Tere M-Seara,Sergei Tabachnikov,2024-05-09 Dynamical systems that are amenable to formulation in terms of a Hamiltonian function or operator encompass a vast swath of fundamental cases in applied mathematics and physics This carefully edited volume represents work carried out during the special program on Hamiltonian Systems at MSRI in the Fall of 2018 Topics covered include KAM theory polygonal billiards Arnold diffusion quantum hydrodynamics viscosity solutions of the Hamilton

Jacobi equation surfaces of locally minimal flux Denjoy subsystems and horseshoes and relations to symplectic topology
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