Symplectic Geometry and Mathematical Physics

P. Donato, C. Duval
J. Elhadad, G.M. Tuynman
Editors

Symplectic Geometry And Mathematical Physics

Daniel Sternheimer,John Rawnsley,Simone Gutt

Symplectic Geometry And Mathematical Physics:

    <u>Symplectic Geometry and Mathematical Physics</u> P. Donato,1991-12 This volume contains the proceedings of the conference Colloque de Goometrie Symplectique et Physique Mathematique which was held in Aix en Provence France June 11 15 1990 in honor of Jean Marie Souriau The conference was one in the series of international meetings of the Seminaire Sud Rhodanien de Goometrie an organization of geometers and mathematical physicists at the Universities of Avignon Lyon Mar seille and Montpellier The scientific interests of Souriau one of the founders of geometric quantization range from classical mechanics symplectic geometry and quantization problems to general relativity and astrophysics The themes of this conference cover only the first two of these four areas The subjects treated in this volume could be classified in the follow ing way symplectic and Poisson geometry Arms Wilbour Bloch Ratiu Brylinski Kostant Cushman Sjamaar Dufour Lichnerowicz Medina Ouzilou classical mechanics Benenti Holm Marsden Marle particles and fields in physics Garcia Perez Munoz Masque Gotay Montgomery Ne eman Sternberg Sniatycki and quantization Blattner Huebschmann Karasev Rawnsley Roger Rosso Weinstein However these subjects are so interrelated that a classification by headings such as pure differential geometry applications of Lie groups constrained systems in physics etc would have produced a completely different clustering The list of authors is not quite identical to the list of speakers at the conference M Karasev was invited but unable to attend C Itzykson and M Vergne spoke on work which is represented here only by the title of Itzykson s talk Surfaces triangulees et integration matricielle and a summary of Vergne s talk   <u>An Introduction to Symplectic Geometry</u> Rolf Berndt,2001 Symplectic geometry is a central topic of current research in mathematics Indeed symplectic methods are key ingredients in the study of dynamical systems differential equations algebraic geometry topology mathematical physics and representations of Lie groups This book is a true introduction to symplectic geometry assuming only a general background in analysis and familiarity with linear algebra It starts with the basics of the geometry of symplectic vector spaces Then symplectic manifolds are defined and explored In addition to the essential classic results such as Darboux s theorem more recent results and ideas are also included here such as symplectic capacity and pseudoholomorphic curves These ideas have revolutionized the subject The main examples of symplectic manifolds are given including the cotangent bundle Kahler manifolds and coadjoint orbits Further principal ideas are carefully examined such as Hamiltonian vector fields the Poisson bracket and connections with contact manifolds Berndt describes some of the close connections between symplectic geometry and mathematical physics in the last two chapters of the book In particular the moment map is defined and explored both mathematically and in its relation to physics He also introduces symplectic reduction which is an important tool for reducing the number of variables in a physical system and for constructing new symplectic manifolds from old The final chapter is on quantization which uses symplectic methods to take classical mechanics to quantum mechanics This section includes a discussion of the Heisenberg group and the Weil or metaplectic representation of the symplectic group Several appendices provide

background material on vector bundles on cohomology and on Lie groups and Lie algebras and their representations Berndt s presentation of symplectic geometry is a clear and concise introduction to the major methods and applications of the subject and requires only a minimum of prerequisites This book would be an excellent text for a graduate course or as a source for anyone who wishes to learn about symplectic geometry **Differential Geometry and Mathematical Physics** Gerd Rudolph,Matthias Schmidt,2012-11-09 Starting from an undergraduate level this book systematically develops the basics of Calculus on manifolds vector bundles vector fields and differential forms Lie groups and Lie group actions Linear symplectic algebra and symplectic geometry Hamiltonian systems symmetries and reduction integrable systems and Hamilton Jacobi theory The topics listed under the first item are relevant for virtually all areas of mathematical physics The second and third items constitute the link between abstract calculus and the theory of Hamiltonian systems The last item provides an introduction to various aspects of this theory including Morse families the Maslov class and caustics The book guides the reader from elementary differential geometry to advanced topics in the theory of Hamiltonian systems with the aim of making current research literature accessible The style is that of a mathematical textbook with full proofs given in the text or as exercises The material is illustrated by numerous detailed examples some of which are taken up several times for demonstrating how the methods evolve and interact Symplectic Geometry and Mathematical Physics ,1991

Dynamical Systems IV V.I. Arnol'd,S.P. Novikov,2013-06-29 From the reviews of the first edition In general the articles are well written in a style that enables one to grasp the ideas The actual style is a readable mix of the important results outlines of proofs and complete proofs when it does not take too long together with readable explanations of what is going on Also very useful are the large lists of references which are important not only for their mathematical content but also because the references given also contain articles in the Soviet literature which may not be familiar or possibly accessible to readers New Zealand Math Soc Newsletter 1991 Here a wealth of material is displayed for us too much to even indicate in a review Your reviewer was very impressed by the contents of both volumes EMS 2 and 4 recommending them without any restriction As far as he could judge most presentations seem fairly complete Mededelingen van het Wiskundig genootshap 1992 *Symplectic Geometry and Mathematical Physics* P. Donato,C. Duval,J. Elhadad,G.M. Tynman,1991 This volume contains the proceedings of the conference Colloque de Goometrie Symplectique et Physique Mathematique which was held in Aix en Provence France June 11 15 1990 in honor of Jean Marie Souriau The conference was one in the series of international meetings of the Seminaire Sud Rhodanien de Goometrie an organization of geometers and mathematical physicists at the Universities of Avignon Lyon Mar seille and Montpellier The scientific interests of Souriau one of the founders of geometric quantization range from classical mechanics symplectic geometry and quantization problems to general relativity and astrophysics The themes of this conference cover only the first two of these four areas The subjects treated in this volume could be classified in the follow ing way symplectic and Poisson geometry Arms Wilbour Bloch Ratiu

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   Symplectic Methods in Harmonic Analysis and in Mathematical Physics Maurice A. de Gosson,2011-07-30 The aim of this book is to give a rigorous and complete treatment of various topics from harmonic analysis with a strong emphasis on symplectic invariance properties which are often ignored or underestimated in the time frequency literature The topics that are addressed include but are not limited to the theory of the Wigner transform the uncertainty principle from the point of view of symplectic topology Weyl calculus and its symplectic covariance Shubin s global theory of pseudo differential operators and Feichtinger s theory of modulation spaces Several applications to time frequency analysis and quantum mechanics are given many of them concurrent with ongoing research For instance a non standard pseudo differential calculus on phase space where the main role is played by Bopp operators also called Landau operators in the literature is introduced and studied This calculus is closely related to both the Landau problem and to the deformation quantization theory of Flato and Sternheimer of which it gives a simple pseudo differential formulation where Feichtinger s modulation spaces are key actors This book is primarily directed towards students or researchers in harmonic analysis in the broad sense and towards mathematical physicists working in quantum mechanics It can also be read with profit by researchers in time frequency analysis providing a valuable complement to the existing literature on the topic A certain familiarity with Fourier analysis in the broad sense and introductory functional analysis e g the elementary theory of distributions is assumed Otherwise the book is largely self contained and includes an extensive list ofreferences   *Symplectic Geometry and Mathematical Physics* ,1991   *Symplectic, Poisson, and Noncommutative Geometry* Tohru Eguchi,Yakov Eliashberg,Yoshiaki Maeda,2014-08-25 This volume contains seven chapters based on lectures given by invited speakers at two May 2010 workshops held at the Mathematical Sciences Research Institute   **Deformation Theory and Symplectic Geometry** Daniel Sternheimer,John Rawnsley,Simone Gutt,1997-07-31 Proceedings of the Ascona Meeting June 1996

   Geometry and Physics: Volume I Jørgen Ellegaard Andersen,Andrew Dancer,Oscar García-Prada,2018-10-18 Nigel Hitchin is one of the world s foremost figures in the fields of differential and algebraic geometry and their relations with mathematical physics and he has been Savilian Professor of Geometry at Oxford since 1997 Geometry and Physics A Festschrift in honour of Nigel Hitchin contain the proceedings of the conferences held in September 2016 in Aarhus Oxford

and Madrid to mark Nigel Hitchin s 70th birthday and to honour his far reaching contributions to geometry and mathematical physics These texts contain 29 articles by contributors to the conference and other distinguished mathematicians working in related areas including three Fields Medallists The articles cover a broad range of topics in differential algebraic and symplectic geometry and also in mathematical physics These volumes will be of interest to researchers and graduate students in geometry and mathematical physics **The Breadth of Symplectic and Poisson Geometry** Jerrold E. Marsden,Tudor S. Ratiu,2007-07-03 The invited papers in this volume are written in honor of Alan Weinstein one of the world s foremost geometers Contributions cover a broad range of topics in symplectic and differential geometry Lie theory mechanics and related fields Intended for graduate students and working mathematicians this text is a distillation of prominent research and an indication of future trends in geometry mechanics and mathematical physics

Poisson Geometry in Mathematics and Physics Giuseppe Dito,2008 This volume is a collection of articles by speakers at the Poisson 2006 conference The program for Poisson 2006 was an overlap of topics that included deformation quantization generalized complex structures differentiable stacks normal forms and group valued moment maps and reduction **Structure of Dynamical Systems** J.M. Souriau,2012-12-06 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 **Geometry and Physics** Jørgen Ellegaard Andersen,Andrew Dancer,Oscar García-Prada,2018 Nigel Hitchin is one of the world s foremost figures in the fields of differential and algebraic geometry and their relations with mathematical physics and he has been Savilian Professor of Geometry at Oxford since 1997 Geometry and Physics A Festschrift in honour of Nigel Hitchin contain the proceedings of the conferences held in September 2016 in Aarhus Oxford and Madrid to mark Nigel Hitchin s 70th birthday and to honour his far reaching contributions to geometry and mathematical physics These texts contain 29 articles by contributors to the conference and other distinguished mathematicians working in related areas including three Fields Medallists The articles cover a broad range of topics in differential algebraic and symplectic geometry and also in mathematical physics These volumes will be of interest to researchers and graduate students in geometry and mathematical physics *Advances in Geometry* Jean-Luc Brylinski,Ranee Brylinski,Victor Nistor,2012-12-06 This book is an outgrowth of the activities of the Center for Geometry and Mathematical Physics CGMP at Penn State from 1996 to 1998 The Center was created in the Mathematics Department at Penn State in the fall of 1996 for the purpose of promoting and supporting the activities of researchers and students in and around geometry and physics at the university The CGMP brings many visitors to Penn State and has ties with other research

groups it organizes weekly seminars as well as annual workshops The book contains 17 contributed articles on current research topics in a variety of fields symplectic geometry quantization quantum groups algebraic geometry algebraic groups and invariant theory and character istic classes Most of the 20 authors have talked at Penn State about their research Their articles present new results or discuss interesting perspec tives on recent work All the articles have been refereed in the regular fashion of excellent scientific journals Symplectic geometry quantization and quantum groups is one main theme of the book Several authors study deformation quantization As tashkevich generalizes Karabegov s deformation quantization of Kahler manifolds to symplectic manifolds admitting two transverse polarizations and studies the moment map in the case of semisimple coadjoint orbits Bieliavsky constructs an explicit star product on holonomy reducible sym metric coadjoint orbits of a simple Lie group and he shows how to con struct a star representation which has interesting holomorphic properties

Symplectic Geometry and Quantization Yoshiaki Maeda,Hideki Omori,Alan Weinstein,1994 This volume contains a state of the art discussion of recent progress in a range of related topics in symplectic geometry and mathematical physics including symplectic groupoids geometric quantization noncommutative differential geometry equivariant cohomology deformation quantization topological quantum field theory and knot invariants *Symplectic Fibrations and Multiplicity Diagrams* Victor Guillemin,Eugene Lerman,Shlomo Sternberg,1996-09-28 Applications of the techniques of symplectic geometry to describe symmetry breaking in quantum physics Differential Geometry: Geometry in Mathematical Physics and Related Topics Robert Everist Greene,Shing-Tung Yau,1993 The second of three parts comprising Volume 54 the proceedings of the Summer Research Institute on Differential Geometry held at the University of California Los Angeles July 1990 ISBN for the set is 0 8218 1493 1 Among the subjects of Part 2 are gauge theory symplectic geometry complex ge

Symplectic Geometry and Quantum Mechanics Maurice A. de Gosson,2006-08-06 This book offers a complete discussion of techniques and topics intervening in the mathematical treatment of quantum and semi classical mechanics It starts with a very readable introduction to symplectic geometry Many topics are also of genuine interest for pure mathematicians working in geometry and topology

Whispering the Secrets of Language: An Mental Journey through **Symplectic Geometry And Mathematical Physics**

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