Symmetries, Lie Algebras and Representations

A graduate course for physicists

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Symmetries Lie Algebras And Representations

Alexey P Isaev,Valery A Rubakov

Symmetries Lie Algebras And Representations:

    Symmetries, Lie Algebras and Representations Jürgen Fuchs,Christoph Schweigert,2003-10-07 This book gives an introduction to Lie algebras and their representations Lie algebras have many applications in mathematics and physics and any physicist or applied mathematician must nowadays be well acquainted with them **Theory Of Groups And Symmetries: Representations Of Groups And Lie Algebras, Applications** Alexey P Isaev,Valery A Rubakov,2020-07-16 This book is a sequel to the book by the same authors entitled Theory of Groups and Symmetries Finite Groups Lie Groups and Lie Algebras The presentation begins with the Dirac notation which is illustrated by boson and fermion oscillator algebras and also Grassmann algebra Then detailed account of finite dimensional representations of groups SL 2 C and SU 2 and their Lie algebras is presented The general theory of finite dimensional irreducible representations of simple Lie algebras based on the construction of highest weight representations is given The classification of all finite dimensional irreducible representations of the Lie algebras of the classical series s n C so n C and sp 2r C is exposed Finite dimensional irreducible representations of linear groups SL N C and their compact forms SU N are constructed on the basis of the Schur Weyl duality A special role here is played by the theory of representations of the symmetric group algebra C Sr Schur Frobenius theory Okounkov Vershik approach based on combinatorics of Young diagrams and Young tableaux Similar construction is given for pseudo orthogonal groups O p q and SO p q including Lorentz groups O 1 N 1 and SO 1 N 1 and their Lie algebras as well as symplectic groups Sp p q The representation theory of Brauer algebra centralizer algebra of SO p q and Sp p q groups in tensor representations is discussed Finally the covering groups Spin p q for pseudo orthogonal groups SO p q are studied For this purpose Clifford algebras in spaces Rp q are introduced and representations of these algebras are discussed *Groups and Symmetries* Yvette Kosmann-Schwarzbach,2009-10-16 Combines material from many areas of mathematics including algebra geometry and analysis so students see connections between these areas Applies material to physics so students appreciate the applications of abstract mathematics Assumes only linear algebra and calculus making an advanced subject accessible to undergraduates Includes 142 exercises many with hints or complete solutions so text may be used in the classroom or for self study **Theory Of Groups And Symmetries: Finite Groups, Lie Groups, And Lie Algebras** Alexey P Isaev,Valery A Rubakov,2018-03-22 The book presents the main approaches in study of algebraic structures of symmetries in models of theoretical and mathematical physics namely groups and Lie algebras and their deformations It covers the commonly encountered quantum groups including Yangians The second main goal of the book is to present a differential geometry of coset spaces that is actively used in investigations of models of quantum field theory gravity and statistical physics The third goal is to explain the main ideas about the theory of conformal symmetries which is the basis of the AdS CFT correspondence The theory of groups and symmetries is an important part of theoretical physics In elementary particle physics cosmology and related fields the key role is played by Lie groups and algebras corresponding to

continuous symmetries For example relativistic physics is based on the Lorentz and Poincare groups and the modern theory of elementary particles the Standard Model is based on gauge local symmetry with the gauge group SU 3 x SU 2 x U 1 This book presents constructions and results of a general nature along with numerous concrete examples that have direct applications in modern theoretical and mathematical physics **Basics of Representation Theory** Udayan Bhattacharya,2025-02-20 Delve into the captivating world of Basics of Representation Theory a comprehensive guide designed for students researchers and enthusiasts eager to explore the intricate symmetries and structures that underpin modern mathematics Our book offers a detailed introduction to foundational concepts providing a solid understanding of group actions linear representations and character theory From there it explores the algebraic structures of irreducible representations breaking down the decomposition into irreducible components and examining the properties of characters Readers will journey through diverse topics including the representation theory of symmetric groups Lie groups and algebraic groups as well as advanced topics such as the representation theory of finite groups the Langlands program and applications in quantum mechanics and number theory With a wealth of examples illustrations and exercises Basics of Representation Theory ensures a hands on approach to learning encouraging practical exploration and problem solving The book also includes numerous references and further reading suggestions for those who wish to delve deeper into specific topics Written in a clear and accessible style this book caters to all levels from undergraduate students encountering representation theory for the first time to experienced researchers seeking fresh insights With its comprehensive coverage and diverse applications Basics of Representation Theory is an invaluable resource for anyone interested in the beauty and depth of this field **Symmetry, Representations, and Invariants** Roe Goodman,Nolan R. Wallach,2009-07-30 Symmetry is a key ingredient in many mathematical physical and biological theories Using representation theory and invariant theory to analyze the symmetries that arise from group actions and with strong emphasis on the geometry and basic theory of Lie groups and Lie algebras Symmetry Representations and Invariants is a significant reworking of an earlier highly acclaimed work by the authors The result is a comprehensive introduction to Lie theory representation theory invariant theory and algebraic groups in a new presentation that is more accessible to students and includes a broader range of applications The philosophy of the earlier book is retained i e presenting the principal theorems of representation theory for the classical matrix groups as motivation for the general theory of reductive groups The wealth of examples and discussion prepares the reader for the complete arguments now given in the general case Key Features of Symmetry Representations and Invariants 1 Early chapters suitable for honors undergraduate or beginning graduate courses requiring only linear algebra basic abstract algebra and advanced calculus 2 Applications to geometry curvature tensors topology Jones polynomial via symmetry and combinatorics symmetric group and Young tableaux 3 Self contained chapters appendices comprehensive bibliography 4 More than 350 exercises most with detailed hints for solutions further explore main concepts 5 Serves as an

excellent main text for a one year course in Lie group theory 6 Benefits physicists as well as mathematicians as a reference work **Boundary Conformal Field Theory and the Worldsheet Approach to D-Branes** Andreas Recknagel,Volker Schomerus,2013-11-28 A comprehensive introduction to the mathematical description of strings D branes and the geometry of strongly curved spacetime **Structures in the Universe by Exact Methods** Krzysztof Bolejko,2010 Reviews developments in applications of inhomogeneous models to cosmology for graduate students and academic researchers in astrophysics *Gravity and Strings* Tomás Ortín,2015-03-26 Self contained and comprehensive this definitive new edition provides a complete overview of the intersection of gravity supergravity and superstrings *Quantum Gravity and the Functional Renormalization Group* Martin Reuter,Frank Saueressig,2019-01-03 A self contained pedagogical introduction to asymptotic safety and the functional renormalization group in quantum gravity for graduate students and researchers

Inflation and String Theory Daniel Baumann,Liam McAllister,2015-04-23 The past two decades have seen transformative advances in cosmology and string theory Observations of the cosmic microwave background have revealed strong evidence for inflationary expansion in the very early universe while new insights about compactifications of string theory have led to a deeper understanding of inflation in a framework that unifies quantum mechanics and general relativity Written by two of the leading researchers in the field this complete and accessible volume provides a modern treatment of inflationary cosmology and its connections to string theory and elementary particle theory After an up to date experimental summary the authors present the foundations of effective field theory string theory and string compactifications setting the stage for a detailed examination of models of inflation in string theory Three appendices contain background material in geometry and cosmological perturbation theory making this a self contained resource for graduate students and researchers in string theory cosmology and related fields *Non-Inertial Frames and Dirac Observables in Relativity* Luca Lusanna,2019-07-04 Interpreting general relativity relies on a proper description of non inertial frames and Dirac observables This book describes global non inertial frames in special and general relativity The first part covers special relativity and Minkowski space time before covering general relativity globally hyperbolic Einstein space time and the application of the 3 1 splitting method to general relativity The author uses a Hamiltonian description and the Dirac Bergmann theory of constraints to show that the transition between one non inertial frame and another is a gauge transformation extra variables describing the frame are gauge variables and the measureable matter quantities are gauge invariant Dirac observables Point particles fluids and fields are also discussed including how to treat the problems of relative times in the description of relativistic bound states and the problem of relativistic centre of mass Providing a detailed description of mathematical methods the book is perfect for theoretical physicists researchers and students working in special and general relativity **Mass Dimension One Fermions** Dharam Ahluwalia,2019-07-04 Provides an overview of the eigenspinors of the charge conjugation operator and mass one dimension fermions *Particle Physics of Brane Worlds and Extra Dimensions* Sreerup Raychaudhuri,K.

Sridhar,2016-04-25 The possibility that we live in a higher dimensional world with spatial dimensions greater than three started with the early work of Kaluza and Klein However in addressing experimental constraints early model builders were forced to compactify these extra dimensions to very tiny scales With the development of brane world scenarios it became possible to consider novel compactifications which allow the extra dimensions to be large or to provide observable effects of these dimensions at experimentally accessible energy scales This book provides a comprehensive account of these recent developments keeping the high energy physics implications in focus After an historical survey of the idea of extra dimensions the book deals in detail with models of large extra dimensions warped extra dimensions and other models such as universal extra dimensions The theoretical and phenomenological implications are discussed in a pedagogical manner for both researchers and graduate students **Supersymmetric Solitons** M. Shifman,A. Yung,2023-07-27 This book summarizes major advances in critical solitons in supersymmetric theories and their implications for understanding basic dynamical regularities of non supersymmetric theories First published in 2009 this title has been reissued as an Open Access publication on Cambridge Core *Nonequilibrium Quantum Field Theory* Esteban A. Calzetta,Bei-Lok B. Hu,2023-02-09 This 2008 book reissued as OA captures the essence of nonequilibrium quantum field theory graduate students and researchers **Hamiltonian Mechanics of Gauge Systems** Lev V. Prokhorov,Sergei V. Shabanov,2011-09-22 The principles of gauge symmetry and quantization are fundamental to modern understanding of the laws of electromagnetism weak and strong subatomic forces and the theory of general relativity Ideal for graduate students and researchers in theoretical and mathematical physics this unique book provides a systematic introduction to Hamiltonian mechanics of systems with gauge symmetry The book reveals how gauge symmetry may lead to a non trivial geometry of the physical phase space and studies its effect on quantum dynamics by path integral methods It also covers aspects of Hamiltonian path integral formalism in detail along with a number of related topics such as the theory of canonical transformations on phase space supermanifolds non commutativity of canonical quantization and elimination of non physical variables The discussion is accompanied by numerous detailed examples of dynamical models with gauge symmetries clearly illustrating the key concepts **Topological and Non-Topological Solitons in Scalar Field Theories** Yakov M. Shnir,2018-07-26 Solitons emerge in various non linear systems as stable localized configurations behaving in many ways like particles from non linear optics and condensed matter to nuclear physics cosmology and supersymmetric theories This book provides an introduction to integrable and non integrable scalar field models with topological and non topological soliton solutions Focusing on both topological and non topological solitons it brings together debates around solitary waves and construction of soliton solutions in various models and provides a discussion of solitons using simple model examples These include the Kortenweg de Vries system sine Gordon model kinks and oscillons and skyrmions and hopfions The classical field theory of scalar field in various spatial dimensions is used throughout the book in presentation of related concepts both at the technical and conceptual level

Providing a comprehensive introduction to the description and construction of solitons this book is ideal for researchers and graduate students in mathematics and theoretical physics **Hadrons at Finite Temperature** Samirnath Mallik,Sourav Sarkar,2016-10-27 High energy laboratories are performing experiments in heavy ion collisions to explore the structure of matter at high temperature and density This elementary book explains the basic ideas involved in the theoretical analysis of these experimental data It first develops two topics needed for this purpose namely hadron interactions and thermal field theory Chiral perturbation theory is developed to describe hadron interactions and thermal field theory is formulated in the real time method In particular spectral form of thermal propagators is derived for fields of arbitrary spin and used to calculate loop integrals These developments are then applied to find quark condensate and hadron parameters in medium including dilepton production Finally the non equilibrium method of statistical field theory to calculate transport coefficients is reviewed With technical details explained in the text and appendices this book should be accessible to researchers as well as graduate students interested in thermal field theory **Conformal Methods in General Relativity** Juan A. Valiente Kroon,2023-02-09 This 2016 volume now reissued as OA shows how conformal methods can be used to study Einstein s theory of gravity

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