

The Principle of Differentiation into Physical and Mathematical Theories

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Abstract

The article formulates the main principle of physics, which underlies this science. This principle has been called by the author of this article the Principle of differentiation into physical and mathematical theories. The article gives examples of the application of this principle in quantum mechanics and cosmology. A more detailed proof of the principle of equivalence of the electromagnetic field and the field of strong interaction to a free material particle is given. This principle, formulated in the article "Electrodynamics in Curvilinear Coordinates and the Equation of a Geodesic Line", revealed the nature of the mass of elementary particles and became the basis for the formulation of the Principle of differentiation into physical and mathematical theories.

Keywords

Origin of the Universe, Expansion of the Universe, Corpuscular Wave Dualism, The Principle of Differentiation into Physical and Mathematical Theories

1. Introduction

The Principle of differentiation into physical and mathematical theories is formulated as follows. Physics considers only objects that really exist in nature. They are called physical objects. These are objects that can be observed experimentally. Theories constructed using only physical objects are physical theories. Objects that do not exist in nature and underlie the theories that use the mathematical apparatus are mathematical objects. Theories constructed using mathematical objects are mathematical theories.

An example of an object that does not exist in nature is the ether. Michelson's experiment, the appearance in physics of the concept of the electromagnetic field as a real physical object and the creation of the theory of relativity by Einstein—all this showed that the ether does not exist in nature.

Mathematical Physical Principles Of En

Hans Sagan



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The Principles of Mathematical Physics Henri Poincaré, 2021-04-10 In *The Principles of Mathematical Physics* Henri Poincaré explores the intricate relationships between mathematics and the natural sciences offering a profound and rigorous examination of the foundational concepts that underpin physical theories Engaging with both the mathematical rigor and the philosophical implications of mathematical physics Poincaré employs a clear and analytical style reflecting the intellectual currents of late 19th century Europe This work serves as an essential precursor to modern physics as it elucidates the geometric and topological aspects of physical phenomena intertwining mathematical formalism with empirical science in a manner that paves the way for future advancements in the field Henri Poincaré a luminary in mathematics and the philosophy of science was deeply influenced by the burgeoning developments of his time including the advent of relativity and quantum mechanics His diverse academic background which encompassed contributions to topology celestial mechanics and mathematical philosophy informed his exploration of the principles behind physical laws Through this work Poincaré sought not only to clarify existing theories but also to challenge conventional notions of determinism ultimately shaping the discourse on the nature of scientific inquiry *The Principles of Mathematical Physics* is a must read for anyone seeking to deepen their understanding of the philosophical and mathematical foundations of physics Poincaré's work remains remarkably relevant today offering insights that resonate within both contemporary scientific debates and historical reflections on the evolution of thought in the sciences Whether you are a student professor or a curious reader this seminal text will enrich your perspective on the dynamic interplay between mathematics and physics In this enriched edition we have carefully created added value for your reading experience A succinct Introduction situates the work's timeless appeal and themes The Synopsis outlines the central plot highlighting key developments without spoiling critical twists A detailed Historical Context immerses you in the era's events and influences that shaped the writing An Author Biography reveals milestones in the author's life illuminating the personal insights behind the text A thorough Analysis dissects symbols motifs and character arcs to unearth underlying meanings Reflection questions prompt you to engage personally with the work's messages connecting them to modern life Hand picked Memorable Quotes shine a spotlight on moments of literary brilliance Interactive footnotes clarify unusual references historical allusions and archaic phrases for an effortless more informed read

Principles of Advanced Mathematical Physics Robert D. Richtmyer, 2012-12-06 A first consequence of this difference in texture concerns the attitude we must take toward some or perhaps most investigations in applied mathematics at least when the mathematics is applied to physics Namely those investigations have to be regarded as pure mathematics and evaluated as such For example some of my mathematical colleagues have worked in recent years on the Hartree Fock approximate method for determining the structures of many electron atoms and ions When the method was introduced nearly fifty years ago physicists did the best they could to justify it using variational principles intuition and other techniques

within the texture of physical reasoning By now the method has long since become part of the established structure of physics The mathematical theorems that can be proved now mostly for two and three electron systems hence of limited interest for physics have to be regarded as mathematics If they are good mathematics and I believe they are that is justification enough If they are not there is no basis for saying that the work is being done to help the physicists In that sense applied mathematics plays no role in today's physics In today's division of labor the task of the mathematician is to create mathematics in whatever area without being much concerned about how the mathematics is used that should be decided in the future and by physics

Variational Principles in Mathematical Physics, Geometry, and Economics Alexandru Kristály, Vicențiu D. Rădulescu, Csaba Varga, 2010-08-19 A comprehensive introduction to modern applied functional analysis Assumes only basic notions of calculus real analysis geometry and differential equations

Mathematical Methods in Physics Philippe Blanchard, Erwin Brüning, 2015-04-07 The second edition of this textbook presents the basic mathematical knowledge and skills that are needed for courses on modern theoretical physics such as those on quantum mechanics classical and quantum field theory and related areas The authors stress that learning mathematical physics is not a passive process and include numerous detailed proofs examples and over 200 exercises as well as hints linking mathematical concepts and results to the relevant physical concepts and theories All of the material from the first edition has been updated and five new chapters have been added on such topics as distributions Hilbert space operators and variational methods The text is divided into three parts Part I A brief introduction to Schwartz distribution theory Elements from the theories of ultra distributions and Fourier hyperfunctions are given in addition to some deeper results for Schwartz distributions thus providing a rather comprehensive introduction to the theory of generalized functions Basic properties and methods for distributions are developed with applications to constant coefficient ODEs and PDEs The relation between distributions and holomorphic functions is considered as well as basic properties of Sobolev spaces Part II Fundamental facts about Hilbert spaces The basic theory of linear bounded and unbounded operators in Hilbert spaces and special classes of linear operators compact Hilbert Schmidt trace class and Schrödinger operators as needed in quantum physics and quantum information theory are explored This section also contains a detailed spectral analysis of all major classes of linear operators including completeness of generalized eigenfunctions as well as of completely positive mappings in particular quantum operations Part III Direct methods of the calculus of variations and their applications to boundary and eigenvalue problems for linear and nonlinear partial differential operators The authors conclude with a discussion of the Hohenberg Kohn variational principle The appendices contain proofs of more general and deeper results including completions basic facts about metrizable Hausdorff locally convex topological vector spaces Baire's fundamental results and their main consequences and bilinear functionals *Mathematical Methods in Physics* is aimed at a broad community of graduate students in mathematics mathematical physics quantum information theory physics and engineering as well as researchers in these disciplines

Expanded content and relevant updates will make this new edition a valuable resource for those working in these disciplines

Mathematics And The Natural Sciences: The Physical Singularity Of Life Giuseppe Longo, Francis

Bailly, 2011-03-04 This book identifies the organizing concepts of physical and biological phenomena by an analysis of the foundations of mathematics and physics Our aim is to propose a dialog between different conceptual universes and thus to provide a unification of phenomena The role of order and symmetries in the foundations of mathematics is linked to the main invariants and principles among them the geodesic principle a consequence of symmetries which govern and confer unity to various physical theories Moreover an attempt is made to understand causal structures a central element of physical intelligibility in terms of both symmetries and symmetry breakings A distinction between the principles of conceptual construction and of proofs both in physics and in mathematics guides most of the work The importance of mathematical tools is also highlighted to clarify differences in the models for physics and biology that are proposed by continuous and discrete mathematics such as computational simulations Since biology is particularly complex and not as well understood at a theoretical level we propose a unification by concepts which in any case should precede mathematization This constitutes an outline for unification also based on highlighting conceptual differences complex points of passage and technical irreducibilities of one field to another Indeed we suppose here a very common monist point of view namely the view that living objects are big bags of molecules The main question though is to understand which theory can help better understand these bags of molecules They are indeed rather singular from the physical point of view Technically we express this singularity through the concept of extended criticality which provides a logical extension of the critical transitions that are known in physics The presentation is mostly kept at an informal and conceptual level a Physical Principles of Remote

Sensing W. G. Rees, Gareth Rees, 2001-09-13 Revised and expanded second edition introduction to remote sensing for students and researchers

Foundations of Mathematical Physics Chirag Verma, 2025-02-20 Foundations of Mathematical Physics is a compelling introduction for undergraduates venturing into the intricate relationship between mathematics and physics We navigate the core principles that sculpt the universe from the quantum to the cosmic scale making this book an essential companion for students unraveling the physical world's mysteries through mathematical lenses Structured to bridge theoretical concepts with practical applications we meticulously unfold the marvels of mathematical physics ensuring each topic is approachable without sacrificing depth This book offers a unique blend of theory worked examples and problem sets that challenge and engage students facilitating deep comprehension We stand out by demystifying complex ideas making this an invaluable resource for students with varied proficiency in mathematics or physics Whether you aim to grasp the fundamentals of quantum mechanics delve into special relativity's elegance or understand general relativity's geometric beauty this book paves the path for a profound understanding of the universe through mathematical frameworks Embark on this intellectual journey to discover how mathematical physics illuminates the

universe's workings in an accessible and inspiring way *A Concise Handbook of Mathematics, Physics, and Engineering Sciences* Andrei D. Polyenin, Alexei Chernoutsan, 2010-10-18 A Concise Handbook of Mathematics Physics and Engineering Sciences takes a practical approach to the basic notions formulas equations problems theorems methods and laws that most frequently occur in scientific and engineering applications and university education The authors pay special attention to issues that many engineers and students Mathematical Physics, Spectral Theory and Stochastic Analysis Michael Demuth, Werner Kirsch, 2014-07-08 This volume presents self contained survey articles on modern research areas written by experts in their fields The topics are located at the interface of spectral theory theory of partial differential operators stochastic analysis and mathematical physics The articles are accessible to graduate students and researchers from other fields of mathematics or physics while also being of value to experts as they report on the state of the art in the respective fields *Boundary and Eigenvalue Problems in Mathematical Physics* Hans Sagan, 2012-04-26 Well known text uses a few basic concepts to solve such problems as the vibrating string vibrating membrane and heat conduction Problems and solutions 31 illustrations *Mathematics and the Physical World* Morris Kline, 2012-03-15 Stimulating account of development of mathematics from arithmetic algebra geometry and trigonometry to calculus differential equations and non Euclidean geometries Also describes how math is used in optics astronomy and other phenomena **Clifford Algebras and their Applications in Mathematical Physics** John Ryan, Wolfgang Sprößig, 2012-12-06 **Physical Principles of Chirality in NMR** Piotr Garbacz, 2024-09-20 How can we study one of the most elusive molecular properties chirality using nuclear interactions with the magnetic field that are apparently insensitive to handedness This book answers this question from the physicochemical point of view by providing a clear coherent and comprehensive review of methods used in NMR studies of chirality Presented arguments based on fundamental physical and chemical laws and in depth descriptions of new methods utilizing purely physical interactions are mainly addressed to spectroscopists in both academia and industry The introductory chapters provide the reader with the basics of NMR spectroscopy as a tool for the study of chiral compounds and those more interested in the methods of chiral discrimination will benefit from the brief description of their common points and reasons why some of them may or may not work In the following chapters the book shows rapid progress in a newly emerging field of chirality sensitive NMR in particular a search for effects that give direct information about the absolute configuration of a molecule **Topics In Mathematical Physics General Relativity And Cosmology In Honor Of Jerzy Plebanski - Proceedings Of 2002 International Conference** Bogdan Mielnik, Hugo Garcia-compean, Merced Montesinos, Maciej Przanowski, 2006-08-10 One of modern science's most famous and controversial figures Jerzy Plebanski was an outstanding theoretical physicist and an author of many intriguing discoveries in general relativity and quantum theory Known for his exceptional analytic talents explosive character inexhaustible energy and bohemian nights with brandy coffee and enormous amounts of cigarettes he was dedicated to both science and art producing innumerable handwritten

articles resembling monk's calligraphy as well as a collection of oil paintings As a collaborator but also an antagonist of Leopold Infeld's a coauthor of Albert Einstein's Plebanski is recognized for designing the heavenly and hyper heavenly equations for introducing new variables to describe the gravitational field for the exact solutions in Einstein's gravity and in quantum theory for his classification of the tensor of matter for some outstanding results in nonlinear electrodynamics and for analyzing general relativity with continuous sources long before Chandrasekhar et al A tribute to Plebanski's contributions and the variety of his interests this is a unique and wide ranging collection of invited papers covering gravity quantization strings branes supersymmetry ideas on the deformation quantization and lesser known results on the continuous Baker Campbell Hausdorff problem

Advances in Differential Equations and Mathematical Physics Eric Carlen, Evans M. Harrell, Michael Loss, 1998 The text offers a combination of certain emerging topics and important research advances in the area of differential equations The topics range widely and include magnetic Schroedinger operators the Boltzmann equations nonlinear variational problems and noncommutative probability theory The text is suitable for graduate and advanced graduate courses and seminars on the topic as well as research mathematicians and physicists working in mathematical physics applied mathematics analysis and differential equations

Other Proof of Poincare's Hypothesis Аркадий Сирис, 2024-08-08 Not so long ago about 30 years ago not only the world community of mathematicians but other scientific communities and even non scientific communities with close attention some with partiality some without partiality but followed with interest and even delved into scientific details of the proof of the Russian mathematician Grigory Perelman of the hypothesis that was formulated in 1904 by the outstanding French mathematician Henri Poincaré I was also interested in the same evidence True the reason for my interest was not so much Perelman's proofs in their mathematical details but rather the formulation of the hypothesis itself which seemed to me an extremely interesting formulation of the problem of such manifolds the topological and metric properties of which in their unity with each other are the cause of the geometric shape of the space of the universe If someone asks why start the same scientific business if there is already a mathematical proof of the same hypothesis Firstly if anything determines the geometric shape of any space including the space of the universe then perhaps its physical content If so then from the standpoint of the spatial unity of the geometric form of the space of the universe and the physical content of the same geometric form Poincaré's mathematical hypothesis is certainly a theoretically incomplete hypothesis All the same justifies the need for the science of physical and geometric science in their unity with themselves and among themselves to prove those manifolds physical and geometric manifolds the natural properties of which in their unity with each other are responsible for the spatial unity of the universe with itself Secondly since truth is not an absolute truth it reveals itself each time as a relative truth which does not prohibit but permits another proof of the same mathematical hypothesis which in a given place is no longer mathematical but geometrically physical and physically geometric

Mathematical Methods for Accident Reconstruction Harold Franck, Darren Franck, 2009-09-15 Over

the past 25 years Harold and Darren Franck have investigated hundreds of accidents involving vehicles of almost every shape size and type imaginable In *Mathematical Methods for Accident Reconstruction A Forensic Engineering Perspective* these seasoned experts demonstrate the application of mathematics to modeling accident reconstructions **Masters of Theory** Andrew Warwick, 2011-04-15 Winner of the the Susan Elizabeth Abrams Prize in History of Science When Isaac Newton published the *Principia* three centuries ago only a few scholars were capable of understanding his conceptually demanding work Yet this esoteric knowledge quickly became accessible in the nineteenth and early twentieth centuries when Britain produced many leading mathematical physicists In this book Andrew Warwick shows how the education of these masters of theory led them to transform our understanding of everything from the flight of a boomerang to the structure of the universe Warwick focuses on Cambridge University where many of the best physicists trained He begins by tracing the dramatic changes in undergraduate education there since the eighteenth century especially the gradual emergence of the private tutor as the most important teacher of mathematics Next he explores the material culture of mathematics instruction showing how the humble pen and paper so crucial to this study transformed everything from classroom teaching to final examinations Balancing their intense intellectual work with strenuous physical exercise the students themselves known as the Wranglers helped foster the competitive spirit that drove them in the classroom and informed the Victorian ideal of a manly student Finally by investigating several historical cases such as the reception of Albert Einstein's special and general theories of relativity Warwick shows how the production transmission and reception of new knowledge was profoundly shaped by the skills taught to Cambridge undergraduates Drawing on a wealth of new archival evidence and illustrations *Masters of Theory* examines the origins of a cultural tradition within which the complex world of theoretical physics was made commonplace

Spectral Theory and Mathematical Physics Marius Mantoiu, Georgi Raikov, Rafael Tiedra de Aldecoa, 2016-06-30 The present volume contains the Proceedings of the International Conference on Spectral Theory and Mathematical Physics held in Santiago de Chile in November 2014 Main topics are Ergodic Quantum Hamiltonians Magnetic Schrödinger Operators Quantum Field Theory Quantum Integrable Systems Scattering Theory Semiclassical and Microlocal Analysis Spectral Shift Function and Quantum Resonances The book presents survey articles as well as original research papers on these topics It will be of interest to researchers and graduate students in Mathematics and Mathematical Physics **The Dialectic**

Relation Between Physics and Mathematics in the XIXth Century Evelyne Barbin, Raffaele Pisano, 2013-04-02 The aim of this book is to analyse historical problems related to the use of mathematics in physics as well as to the use of physics in mathematics and to investigate Mathematical Physics as precisely the new discipline which is concerned with this dialectical link itself So the main question is When and why did the tension between mathematics and physics explicitly practised at least since Galileo evolve into such a new scientific theory The authors explain the various ways in which this science allowed an advanced mathematical modelling in physics on the one hand and the invention of new mathematical ideas on the other

hand Of course this problem is related to the links between institutions universities schools for engineers and industries and so it has social implications as well The link by which physical ideas had influenced the world of mathematics was not new in the 19th century but it came to a kind of maturity at that time Recently much historical research has been done into mathematics and physics and their relation in this period The purpose of the Symposium and this book is to gather and re evaluate the current thinking on this subject It brings together contributions from leading experts in the field and gives much needed insight in the subject of mathematical physics from a historical point of view

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