

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.

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Mathematical Methods in Physics Philippe Blanchard, Erwin Bruening, 2012-12-06 Physics has long been regarded as a wellspring of mathematical problems. *Mathematical Methods in Physics* is a self-contained presentation driven by historic motivations, excellent examples, detailed proofs, and a focus on those parts of mathematics that are needed in more ambitious courses on quantum mechanics and classical and quantum field theory. Aimed primarily at a broad community of graduate students in mathematics, mathematical physics, physics, and engineering, as well as researchers in these disciplines.

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 Physics](#) Francis Bitter, 2004-01-01 Reader-friendly guide offers illustrative examples of the rules of physical science and how they were formulated. Topics include the role of mathematics as the language of physics, nature of mechanical vibrations, harmonic motion, and shapes. Geometry of the laws of motion, more 60 figures, 1963 edition. [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. [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. **Mathematical Physics** Donald H. Menzel, 2012-05-23 Useful treatment of classical mechanics, electromagnetic theory, and relativity includes explanations of function theory, vectors, matrices, dyadics, tensors, partial differential equations, and other advanced mathematical techniques. Nearly 200 problems with answers. *Spectral Theory and Mathematical Physics* Marius Măntoiu, 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

Quantum Mathematical Physics Walter Thirring, 2013-04-18 This edition combines the earlier two volumes on Quantum Mechanics of Atoms and Molecules and on Quantum Mechanics of Large Systems thus including in a single volume the material for a two semester course on quantum physics Since this volume is already quite heavy I could not include many new results which show how lively the subject is I just want to mention that inequality IV 4 1 1 has been sharpened by T Weidl by a factor 2 and the difficult problem 1 of III 4 6 has been solved by A Martin I have to thank N Ilieva for the devotion in preparing this new edition Vienna November 2001 Walter Thirring Preface to the Second Edition Quantum Mechanics of Atoms and Molecules Ever since the first edition of this volume appeared in 1980 quantum statistical mechanics has flourished Innumerable results in many areas have been obtained and it would require a series of volumes to do justice to all of them On the other hand the first edition was already rather crowded with many details so it would not be overburdened any more Thus I added only one chapter on quantum ergodic theory where one can get the main notions across without too much pain Nevertheless many subjects treated in the book had splendidly developed ever since and the only way out I could see is to add some recent references which the interested reader can consult

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

Principles Of Quantum General Relativity Eduard Prugovecki, 1995-01-20 This monograph explains and analyzes the principles of a quantum geometric framework for the unification of general relativity and quantum theory By taking advantage of recent advances in areas like fibre and superfibre bundle theory Krein spaces gauge fields and groups coherent states etc these principles can be consistently incorporated into a framework that can justifiably be said to provide the foundations for a quantum extrapolation of general relativity This volume aims to present this approach in a way which places as much emphasis on fundamental physical ideas as on their precise mathematical implementation References are also made to the ideas of Einstein Bohr Born Dirac Heisenberg and others in order to set the work presented here in an appropriate historical context

Mathematical Physics II Enrico De Micheli, 2020-12-15 The charm of Mathematical Physics resides in the conceptual difficulty of understanding why the language of Mathematics is so appropriate to formulate the laws of Physics and to make precise predictions Citing Eugene Wigner this unreasonable appropriateness of Mathematics in the Natural Sciences emerged soon at the beginning of the scientific thought and was splendidly depicted by the words of Galileo The grand book the Universe is written in the language of Mathematics In this marriage what Bertrand Russell called the

supreme beauty cold and austere of Mathematics complements the supreme beauty warm and engaging of Physics This book which consists of nine articles gives a flavor of these beauties and covers an ample range of mathematical subjects that play a relevant role in the study of physics and engineering This range includes the study of free probability measures associated with p adic number fields non commutative measures of quantum discord non linear Schr dinger equation analysis spectral operators related to holomorphic extensions of series expansions Gibbs phenomenon deformed wave equation analysis and optimization methods in the numerical study of material properties

The Principles of Mathematical Physics Henri Poincaré, 2022-07-21 In *The Principles of Mathematical Physics* Henri Poincaré offers a seminal exploration of the interplay between mathematics and the physical sciences articulating principles that would later underpin modern scientific thought With a unique blend of rigorous mathematical formulation and philosophical inquiry Poincaré addresses complex topics such as chaos theory determinism and the foundational aspects of mechanics The literary style is both accessible and profound reflecting the author's aim to bridge the gap between abstract mathematical concepts and their practical implications in the real world placing the work in the context of early 20th century scientific revolutions Henri Poincaré 1854-1912 was a pioneering French mathematician theoretical physicist and philosopher renowned for his contributions to topology and celestial mechanics His deep engagement with the emerging fields of relativity and thermodynamics informed his perspective on the nature of physical laws and their mathematical descriptions Poincaré's diverse academic interests and his ability to synthesize ideas across disciplines positioned him as a preeminent thinker during an era characterized by profound scientific transformation This book is essential reading for anyone invested in the foundations of modern physics and mathematics Poincaré's insights not only illuminate the intrinsic relationship between these fields but also provoke critical reflections on the nature of scientific inquiry itself Readers will find that Poincaré's profound understanding enriches their appreciation for the elegance and complexity of the universe

Masters of Theory Andrew Warwick, 2011-04-15 Winner of 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 THEORY AND KNOWLEDGE PRODUCTION Prof.Dr. Hisham Ghasib,2025-02-26 This book discusses physics the philosophy of science and the sociology of knowledge It was written in English by the physicist and philosopher of science Professor Dr Hisham Ghasib The book contains many physical equations ideas dilemmas and different philosophical opinions Many university professors in the Department of Philosophy at the University of Jordan have compared Dr Hisham Ghasib to the philosopher Bertrand Russell and I believe that he is the greatest philosopher of science in the Arab world Dr Wareef Awadin Greek Rational Medicine James Longrigg,2013-03-07 The ancient Greek medical thinkers were profoundly influenced by Ionian natural philosophy This philosophy caused them to adopt a radically new attitude towards disease and healing James Longrigg shows how their rational attitudes ultimately resulted in levels of sophistication largely unsurpassed until the Renaissance He examines the important relationship between philosophy and medicine in ancient Greece and beyond and reveals its significance for contemporary western practice and theory Contemporary Natural Philosophy and Philosophies - Part 1 Gordana Dodig-Crnkovic,Marcin J. Schroeder,2019-06-11 Modern information communication technology eradicates barriers of geographic distances making the world globally interdependent but this spatial globalization has not eliminated cultural fragmentation The Two Cultures of C P Snow that of science technology and that of humanities are drifting apart even faster than before and they themselves crumble into increasingly specialized domains Disintegrated knowledge has become subservient to the competition in technological and economic race leading in the direction chosen not by the reason intellect and shared value based judgement but rather by the whims of autocratic leaders or fashion controlled by marketers for the purposes of political or economic dominance If we want to restore the authority of our best available knowledge and democratic values in guiding humanity first we have to reintegrate scattered domains of human knowledge and values and offer an evolving and diverse vision of common reality unified by sound methodology This collection of articles responds to the call from the journal Philosophies to build a new networked world of knowledge with domain specialists from different disciplines interacting and connecting with other knowledge and values producing and knowledge and values consuming communities in an inclusive extended contemporary natural philosophic manner In this process of synthesis scientific and philosophical investigations enrich each other with sciences informing philosophies about the best current knowledge of the world both natural and human made while philosophies scrutinize the ontological epistemological and methodological foundations of sciences providing scientists with questions and conceptual analyses This is all directed at extending and

deepening our existing comprehension of the world including ourselves both as humans and as societies and humankind

Techniques of Tomographic Isodyne Stress Analysis A. Pindera, 2000-08-31 It is true that Nothing is more practical than theory as Boltzmann said Provided however that the assumptions on which The theory is founded are well understood But indeed engineering costly experience shows that Nothing can be more disastrous than a theory when applied To a real task outside of practical limits of the assumptions made Because of an homonymous identity with the considered problem J T P The growing interest in Isodyne Stress Analysis and the related experience of the author show that the major monograph and reference book on the subject Isodyne Stress Analysis by Jerzy T Pindera and Marek Jerzy Pindera 27 does not of contain sufficiently detailed data on the theories and techniques experimentation The purpose of this work is to close this gap Thus this work is an extension of Isodyne Stress Analysis and complementary to it Consequently only a short outline of the theory of ofisodynes is given in Chapter 2 Only the basic concepts and relations are presented to provide the link between the underlying analytical and optical theories and the experimental techniques One of the major purposes of a preface is to formulate and explain the chosen frame of reference in a condensed form even when some components of it are discussed in the text A main issue of the underlying frame of reference pertains to the roles of the abstract thinking and of the observation in cognition of reality

Deep Beauty Hans Halvorson, 2011-04-18 No scientific theory has caused more puzzlement and confusion than quantum theory Physics is supposed to help us to understand the world but quantum theory makes it seem a very strange place This book is about how mathematical innovation can help us gain deeper insight into the structure of the physical world Chapters by top researchers in the mathematical foundations of physics explore new ideas especially novel mathematical concepts at the cutting edge of future physics These creative developments in mathematics may catalyze the advances that enable us to understand our current physical theories especially quantum theory The authors bring diverse perspectives unified only by the attempt to introduce fresh concepts that will open up new vistas in our understanding of future physics

The Oxford Handbook of the History of Quantum Interpretations Guido Bacciagaluppi, Olivier Darrigol, Thiago Hartz, Christian Joas, Alexei Kojevnikov, 2022 This Oxford Handbook provides a rigorous interdisciplinary review of the history of interpretations of quantum physics presenting the key controversies within the field as well as outlining its successes and its extraordinary potential across various scientific fields *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

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