

# 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

**Alexandru Kristály, Vicențiu D.  
Rădulescu, Csaba Varga**



## **Mathematical Physical Principles Of En:**

*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

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**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

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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

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Clifford Algebras and their Applications in Mathematical Physics Rafal Ablamowicz, Bertfried Fauser, 2012-12-06 The plausible relativistic physical variables describing a spinning charged and massive particle are besides the charge itself its Minkowski four position  $X$  its relativistic linear four momentum  $P$  and also its so called Lorentz four angular momentum  $E_0$  the latter forming four translation invariant part of its total angular four

momentum  $M$  Expressing these variables in terms of Poincare covariant real valued functions defined on an extended relativistic phase space  $2 \times 7$  means that the mutual Poisson bracket relations among the total angular momentum functions  $M_{ab}$  and the linear momentum functions  $p_a$  have to represent the commutation relations of the Poincare algebra On any such an extended relativistic phase space as shown by Zakrzewski [2, 7] the natural Poisson bracket relations (1.1) imply that for the splitting of the total angular momentum into its orbital and its spin part (1.2) one necessarily obtains (1.3) On the other hand it is always possible to shift/translate the commuting set (1.1) four position  $x_a$  by a four vector  $X_a$  (1.4) so that the total angular four momentum splits instead into a new orbital and a new Pauli-Lubanski spin part (1.5) in such a way that (1.6) However as proved by Zakrzewski [2, 7] the so defined new shifted four position functions  $X$  must fulfill the following Poisson bracket relations (1.7)

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