



Article

Aesthetic Criteria in Fundamental Physics—The Viewpoint of Plato

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Abstract: I discuss the role of beauty in physics. Physicists are sometimes described as platonists for their conviction that the fundamental laws are elegant and aesthetic arguments represent an important epistemic tool. After a review of the ideas of Plato and some of the leading figures of modern physics, which suggest that this is indeed the case, I present a list of current aesthetic criteria. I focus on symmetry and unity and demonstrate their increasing relevance in an array of experimentally verified theories. I also deal with an open issue of naturalness as the third criterion. The laws of nature appear increasingly beautiful as we uncover them, and it is important to see if the trend continues in the future.

Keywords: beauty in fundamental laws; aesthetic criteria in physics; symmetry; unity; naturalness



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1. Introduction

Physics brings deep philosophical insights into the nature of the universe. One of them is the role of beauty in natural science. Throughout history, many leading physicists contemplated this role. Some claimed beauty was an inspiration for them to do science, another group argued beauty is a signpost to the truth and a few ventured to say they preferred beauty to truth in their work. Although they did not agree on all points, one thing seems clear: from Kepler to Einstein, Dirac, Weinberg, and Arkani-Hamed, aesthetic arguments have always been important. A recent study has found that 75% of respondents, mostly physicists and biologists, encounter beauty in their research [1]. According to the survey, beauty motivated most of the participants to pursue a scientific career, helps them persevere through difficult times, and most scientists believe beauty is key to communicating science. Given such a huge influence, the amount of literature written on the subject is relatively modest (for a review see [2,3]). The burden of rigorous treatments is on the shoulders of philosophers of science, e.g., [4–6], while physicists, if at all, prefer to express their views in popularization books [7–11] or talks [12–15].

Part of the reason is the perception of beauty as being in the eye of the beholder, a valid position, but the one which seems to make meaningful discussion difficult. What use is a vague concept in a rigorous discipline? On the other hand, when physicists who describe fundamental laws as profoundly beautiful are prompted to be specific, they give descriptions that frequently agree—a possible indicator of the existence of an objective element of beauty. Moreover, they do not just perceive aesthetic properties such as simplicity, symmetry, and unity in the laws of physics, but also actively use them as key ingredients to building new theories, elevating beauty well beyond a decorative role. Two discoveries in the last decade, both leading to the Nobel prize, stand as milestones confirming this practice. The Higgs boson, discovered by the ATLAS and CMS collaborations at the Large Hadron Collider (LHC) at CERN in 2012, was the triumph of the Standard Model of particle physics, and gravitational waves, detected by the Advanced LIGO detectors in 2015, paid tribute to Einstein's General relativity.

The treatment of beauty as an objective entity has its roots in the works of Plato. He associated beauty with knowledge, in particular the knowledge of mathematics and philosophy. Beauty was, along with goodness, central to Plato's philosophy since it provided a

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New Perspectives on Adam Smith's The Theory of Moral Sentiments Geoff Cockfield, Ann Firth, John Laurent, 2007-11-27 New Perspectives on Adam Smith's The Theory of Moral Sentiments is a comprehensive study of Smith's ideas. It brings together themes and methodologies from a variety of fields including politics, sociology, intellectual history, history of science, and evolutionary psychology.

A History of Physics: Phenomena, Ideas and Mechanisms Raffaele Pisano, 2024-09-19 The book gathers several contributions by historians of physics, philosophers of science, and scientists as new essays in the history of physics ranging across the entire field related in most instances to the works of Salvo D'Agostino. 1921-2020: one of the field's most prominent scholars since the second half of the past century. A phenomenon is an observable, measurable fact including data, modelling, assumptions, laws. A mechanical phenomenon is associated to equilibrium motion. Are all mechanisms mechanisms of a phenomenon? Scholars with different backgrounds discuss mechanism phenomena from an historical point of view. The book is also devoted to understanding of causations of disequilibrium, shock, gravitational attraction, repulsion, inertia, entropy, etc., including changes, interaction in the framework of irregular cases of modern physics as well. The book is an accessible avenue to understanding phenomena, ideas, and mechanisms by leading authorities who offer much needed historical insights into the field and on the relationship Physics/Mathematics. It provides an absorbing and revealing read for historians, philosophers, and scientists alike.

The Broadview Guide to Writing Doug Babington, Don LePan, 2005-07-19 A concise yet uncommonly thorough text with a fresh approach to the craft of essay writing. The Broadview Guide to Writing 3rd Ed. has been updated and revised throughout. It discusses the style and structure of essay writing and also grammar and usage in a comprehensive reference guide with examples included throughout the book.

The Wave Function Alyssa Ney, David Albert, 2013-03-28 This is a new volume of original essays on the metaphysics of quantum mechanics. The essays address questions such as: What fundamental metaphysics is best motivated by quantum mechanics? What is the ontological status of the wave function? Does quantum mechanics support the existence of any other fundamental entities, e.g., particles? What is the nature of the fundamental space or space-time manifold of quantum mechanics? What is the relationship between the fundamental ontology of quantum mechanics and ordinary macroscopic objects like tables, chairs, and persons? This collection includes a comprehensive introduction with a history of quantum mechanics and the debate over its metaphysical interpretation, focusing especially on the main realist alternatives.

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Collapse of the Wave Function Shan Gao, 2018-04-26 This is the first single volume about the collapse theories of quantum mechanics, which is becoming a very active field of research in both physics and philosophy. In standard quantum mechanics, it is postulated that when the wave function of a quantum system is measured, it no longer follows the Schrödinger

equation but instantaneously and randomly collapses to one of the wave functions that correspond to definite measurement results. However, why and how a definite measurement result appears is unknown. A promising solution to this problem are collapse theories in which the collapse of the wave function is spontaneous and dynamical. Chapters written by distinguished physicists and philosophers of physics discuss the origin and implications of wave function collapse, the controversies around collapse models and their ontologies, and new arguments for the reality of wave function collapse. This is an invaluable resource for students and researchers interested in the philosophy of physics and foundations of quantum mechanics.

Barron's Science 360: A Complete Study Guide to Biology with Online Practice Barron's Educational Series, Gabrielle I. Edwards, Cynthia Pfirrmann, 2021-09-07. Barron's Science 360 Biology is your complete go-to guide for everything biology. This comprehensive guide is an essential resource for High school and college courses, Homeschooling, Virtual Learning, Learning pods. Inside you will find Comprehensive Content Review. Begin your study with the basic building block of biology and build as you go. Topics include the cell, bacteria, and viruses, fungi, plants, invertebrates, Homo sapiens, biotechnology, and much more. Effective Organization. Topic organization and simple lesson formats break down the subject matter into manageable learning modules that help guide a successful study plan customized to your needs. Clear Examples and Illustrations. Easy to follow explanations, hundreds of helpful illustrations, and numerous step-by-step examples make this book ideal for self-study and rapid learning. Practice Exercises. Each chapter ends with practice exercises designed to reinforce and extend key skills and concepts. These checkup exercises, along with the answers and solutions, will help you assess your understanding and monitor your progress. Access to Online Practice. Take your learning online for 50 practice questions designed to test your knowledge with automated scoring to show you how far you have come.

Consciousness and Physicalism Andreas Elpidorou, Guy Dove, 2018-04-19. *Consciousness and Physicalism: A Defense of a Research Program* explores the nature of consciousness and its place in the world, offering a revisionist account of what it means to say that consciousness is nothing over and above the physical. By synthesizing work in the philosophy of mind, metaphysics, and philosophy of science from the last twenty years and forging a dialogue with contemporary research in the empirical sciences of the mind, Andreas Elpidorou and Guy Dove advance and defend a novel formulation of physicalism. Although physicalism has been traditionally understood to be a metaphysical thesis, Elpidorou and Dove argue that there is an alternative and indeed preferable understanding of physicalism that both renders physicalism a scientifically informed explanatory project and allows us to make important progress in addressing the ontological problem of consciousness. Physicalism, Elpidorou and Dove hold, is best viewed not as a thesis, metaphysical or otherwise, but as an interdisciplinary research program that aims to compositionally explain all natural phenomena that are central to our understanding of our place in nature. *Consciousness and Physicalism* is replete with philosophical arguments and informed through and through by findings in many areas of scientific research. It advances the debate regarding the ontological status of consciousness. It will interest students and

scholars in philosophy of mind metaphysics philosophy of cognitive science and philosophy of science And it will challenge both foes and friends of physicalism

The Blackwell Companion to Natural Theology William Lane Craig,J. P. Moreland,2012-02-27 With the help of in depth essays from some of the world s leading philosophers The Blackwell Companion to Natural Theology explores the nature and existence of God through human reason and evidence from the natural world Provides in depth and cutting edge treatment of natural theology s main arguments Includes contributions from first rate philosophers well known for their work on the relevant topics Updates relevant arguments in light of the most current state of the art philosophical and scientific discussions Stands in useful contrast and opposition to the arguments of the new atheists

A Powerful Particulars View of Causation R.D. Ingthorsson,2021-01-26 This book critically examines the recent discussions of powers and powers based accounts of causation The author then develops an original view of powers based causation that aims to be compatible with the theories and findings of natural science Recently there has been a dramatic revival of realist approaches to properties and causation which focus on the relevance of Aristotelian metaphysics and the notion of powers for a scientifically informed view of causation In this book R D Ingthorsson argues that one central feature of powers based accounts of causation is arguably incompatible with what is today recognised as fact in the sciences notably that all interactions are thoroughly reciprocal Ingthorsson s powerful particulars view of causation accommodates for the reciprocity of interactions It also draws out the consequences of that view for issue of causal necessity and offers a way to understand the constitution and persistence of compound objects as causal phenomena Furthermore Ingthorsson argues that compound entities so understood are just as much processes as they are substances **A Powerful Particulars View of Causation** will be of great interest to scholars and advanced students working in metaphysics philosophy of science and neo Aristotelian philosophy while also being accessible for a general audience The Open Access version of this book available at <http://www.taylorfrancis.com/books/9781003094241> has been made available under a Creative Commons Attribution Non Commercial No Derivatives 4.0 license

Science for Humans Robert Hanna,2024-06-24 This book presents and defends an original and paradigm shifting conception of formal science natural science and the natural universe alike that s fully pro science but at the same time neither theological or God centered nor solipsistic or self centered nor communitarian or social institution centered nor scientistic or science valorizing nor materialist physicalist or reductive nor above all mechanistic It does this by presenting and defending what Robert Hanna calls the neo organicist turn including manifest realism and the three sub parts of metaphysical organicism liberal naturalism mind life continuity and explanatory inversion whereby mechanical systems are explained by grounding them in organic systems and not the other way around Or more briefly and simply put the purpose of this book is to present and defend science for humans As such it will be highly interesting and profoundly relevant to graduate students and specialist researchers in philosophy and the formal natural sciences

Science Ideated Bernardo Kastrup,2021-08-27 Leading edge empirical observations are increasingly difficult to

reconcile with scientific materialism Laboratory results in quantum mechanics for instance strongly indicate that there is no autonomous world of tables and chairs out there Coupled with the inability of materialist neuroscience to explain consciousness this is forcing both science and philosophy to contemplate alternative worldviews Analytic idealism the notion that reality while equally amenable to scientific inquiry is fundamentally mental is a leading contender to replace scientific materialism In this book the broad body of empirical evidence and reasoning in favor of analytic idealism is reviewed in an accessible manner The book brings together a number of highly influential essays previously published by major media outlets such as Scientific American and the Institute of Art and Ideas The essays have been revised and improved while two neverbeforepublished essays have been added The resulting argument anticipates a historically imminent transition to a scientific worldview that while elegantly accommodating all known empirical evidence and predictive models regards mind not matter as the ground of all reality

Electron Paramagnetic Resonance Investigations of Biological Systems by Using Spin Labels, Spin Probes, and Intrinsic Metal Ions Part A ,2015-10-05 Electron Paramagnetic Resonance Investigations of Biological Systems by Using Spin Labels Spin Probes and Intrinsic Metal Ions Part A B are the latest volumes in the Methods in Enzymology series continuing the legacy of this premier serial with quality chapters authored by leaders in the field This volume covers research methods centered on the use of Electron Paramagnetic Resonance EPR techniques to study biological structure and function Timely contribution that describes a rapidly changing field Leading researchers in the field Broad coverage Instrumentation basic theory data analysis and applications

Computing the Mind Shimon Edelman,2008-09-08 In a culmination of humanity s millennia long quest for self knowledge the sciences of the mind are now in a position to offer concrete empirically validated answers to the most fundamental questions about human nature What does it mean to be a mind How is the mind related to the brain How are minds shaped by their embodiment and environment What are the principles behind cognitive functions such as perception memory language thought and consciousness By analyzing the tasks facing any sentient being that is subject to stimulation and a pressure to act Shimon Edelman identifies computation as the common denominator in the emerging answers to all these questions Any system composed of elements that exchange signals with each other and occasionally with the rest of the world can be said to be engaged in computation A brain composed of neurons is one example of a system that computes and the computations that the neurons collectively carry out constitute the brain s mind Edelman presents a computational account of the entire spectrum of cognitive phenomena that constitutes the mind He begins with sentience and uses examples from visual perception to demonstrate that it must at its very core be a type of computation Throughout his account Edelman acknowledges the human mind s biological origins Along the way he also demystifies traits such as creativity language and individual and collective consciousness and hints at how naturally evolved minds can transcend some of their limitations by moving to computational substrates other than brains The account that Edelman gives in this book is accessible yet unified and rigorous and the big

picture he presents is supported by evidence ranging from neurobiology to computer science The book should be read by anyone seeking a comprehensive and current introduction to cognitive psychology *Philosophy for Everyone* Matthew Chrisman,Duncan Pritchard,Guy Fletcher,Jane Suilin Lavelle,Elinor Mason,Michela Massimi,Alasdair Richmond,Dave Ward,2013-08-29 Philosophy for Everyone begins by explaining what philosophy is before exploring the questions and issues at the foundation of this important subject Key topics and their areas of focus include Epistemology what our knowledge of the world and ourselves consists in and how we come to have it Philosophy of Science foundational conceptual issues in scientific research and practice Philosophy of Mind what it means for something to have a mind and how minds should be understood and explained Moral Philosophy the nature of **Re-Engineering Humanity** Brett Frischmann,Evan Selinger,2019-09-12 Every day new warnings emerge about artificial intelligence rebelling against us All the while a more immediate dilemma flies under the radar Have forces been unleashed that are thrusting humanity down an ill advised path one that s increasingly making us behave like simple machines In this wide reaching interdisciplinary book Brett Frischmann and Evan Selinger examine what s happening to our lives as society embraces big data predictive analytics and smart environments They explain how the goal of designing programmable worlds goes hand in hand with engineering predictable and programmable people Detailing new frameworks provocative case studies and mind blowing thought experiments Frischmann and Selinger reveal hidden connections between fitness trackers electronic contracts social media platforms robotic companions fake news autonomous cars and more This powerful analysis should be read by anyone interested in understanding exactly how technology threatens the future of our society and what we can do now to build something better

Weird Scientists □ the Creators of Quantum Physics Jeffrey Strickland,2011-09-04 *Weird Scientists* is a sequel to *Men of Manhattan* As I wrote the latter about the nuclear physicists who brought in the era of nuclear power quantum mechanics or quantum physics was unavoidable Many of the contributors to the science of splitting the atom were also contributors to quantum mechanics Atomic physics particle physics quantum physics and even relativity are all interrelated This book is about the men and women who established the science that shook the foundations of classical physics removed determinism from measurement and created alternative worlds of reality The book introduces fundamental concepts of quantum mechanics roughly in the order they were discovered as a launching point for describing the scientist and the work that brought forth the concepts *Beast-People Onscreen and in Your Brain* Mark Pizzato,2016-02-22 A new take on our bio cultural evolution explores how the inner theatre of the brain and its animal human stages are reflected in and shaped by the mirror of cinema Vampire werewolf and ape planet films are perennial favorites perhaps because they speak to something primal in human nature This intriguing volume examines such films in light of the latest developments in neuroscience revealing ways in which animal human monster movies reflect and affect what we naturally imagine in our minds Examining specific films as well as early cave images the book discusses how certain creatures on rock walls and movie screens express

animal to human evolution and the structures of our brains The book presents a new model of the human brain with its theatrical cinematic and animal elements It also develops a theory of rasa catharsis as the clarifying of emotions within and between spectators of the stage or screen drawing on Eastern and Western aesthetics as well as current neuroscience It focuses on the inner movie theater of memories dreams and reality representations involving developmental stages as well as the hall of mirrors ape egos and body swapping identifications between human beings Finally the book shows how ironic twists onscreen especially of contradictory emotions might evoke a reappraisal of feelings helping spectators to be more attentive to their own impulses Through this interdisciplinary study scholars artists and general readers will find a fresh way to understand the potential for interactive mindfulness and yet cathartic backfire between human brains in cinema in theater and in daily life

Metaphysical Emergence Jessica M. Wilson, 2021-03-04 Both the special sciences and ordinary experience suggest that there are metaphysically emergent entities and features macroscopic goings on including mountains trees humans and sculptures and their characteristic properties which depend on yet are distinct from and distinctively efficacious with respect to lower level physical configurations and features These appearances give rise to two key questions First what is metaphysical emergence more precisely Second is there any metaphysical emergence in principle and moreover in fact Metaphysical Emergence provides clear and systematic answers to these questions Wilson argues that there are two and only two forms of metaphysical emergence of the sort seemingly at issue in the target cases Weak emergence whereby a dependent feature has a proper subset of the powers of the feature upon which it depends and Strong emergence whereby a dependent feature has a power not had by the feature upon which it depends Weak emergence unifies and illuminates seemingly diverse accounts of non reductive physicalism Strong emergence does the same as regards seemingly diverse anti physicalist views positing fundamental novelty at higher levels of compositional complexity After defending the in principle viability of each form of emergence Wilson considers whether complex systems ordinary objects consciousness and free will are actually metaphysically emergent She argues that Weak emergence is quite common and that there is Strong emergence in the important case of free will

[A Historicized Ontology for the Quantum World](#) Kefu Zhu, 2025-09-23 This book discusses the ontology in the quantum world and argues that it should be interpreted as a historicized ontology This perspective is advocated by the quantum histories interpretation Inspired by the nomological interpretation from Bohmian mechanics and the corresponding understanding of the law of nature and logic the ontology will be useful to solve the difficulties of confusing ontology and perplexing logical inference Furthermore this book proposes that the historicized ontology can be generalized to more complicated structures and fit naturally into temporal correlation Core philosophical issues such as the law of nature the ontology of events history and processes and the metaphysics of history are coherently discussed revealing the profound meaning behind the formalism of quantum histories By providing a new framework for a historicized picture of ontology it will effectively promote the debates in the philosophy of physics and the fundamental

research in quantum mechanics This book will appeal to scholars and students of the philosophy of science metaphysics and quantum theory

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