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List of topics characterized as
pseudoscience - Wikipedia

Dark matter is a form of matter thought to account for approximately 85% of the

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Solution matter in the universe and about a quarter of its total mass – energy density or about $2.241 \times 10^{-27} \text{ kg/m}^3$. Its presence is implied in a variety of astrophysical observations, including gravitational effects that cannot be explained by accepted theories of gravity unless more matter is present than can be seen.

Dark matter - Wikipedia

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Physics (PHYSICS) < University of California, Berkeley

Physics is the basic physical science. Until rather recent times physics and natural philosophy were used interchangeably for the science whose aim is the discovery and

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Solution of the fundamental laws of nature. As the modern sciences developed and became increasingly specialized, physics came to denote that part of physical science not included in astronomy, chemistry, geology, and ...

physics | Definition, Branches, & Importance | Britannica

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Physical Review B

Distinguishing decoherence from
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Christian Arenz - Google
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The current standard model of cosmology is based primarily on two incompatible theoretical models: (1) the standard model of particle physics, which describes the physics of the very small in terms of quantum mechanics, and (2) the general theory of relativity, which describes the physics of the very large in terms of classical physics. Both these theoretical models are considered to be incomplete in the sense that they do not provide any understanding of several empirical observations, such as the Big Bang, dark matter, dark energy, gravity, and matter-antimatter asymmetry in the universe. The main aim of this book is to discuss these

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serious problems that threaten to undermine the current standard model of cosmology.

Reality is a rather large place. It contains protons, economies, headaches, sentences, smiles, asteroids, crimes, numbers, and very many other things. Much of the content of our reality appears to depend on other of its content. Economies, for example, appear to depend upon people and the way they behave, amongst other things. Some of the content of our reality also appears to be, in some significant sense, more important than other of its content. Whilst none of us would wish to deny the very important role that economies play in our lives, most of us would agree that without matter arranged certain ways in space, for example, there could be no economies in the first place. Very many contemporary philosophers

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Solution are concerned with how exactly we are to fill in the details of this view. What they are inclined to agree on is that reality has an over-arching hierarchical structure ordered by relations of metaphysical dependence, where chains of entities ordered by those dependence relations terminate in something fundamental. It is also commonly taken for granted that what those dependence chains terminate in is merely contingently existent - those things could have failed to exist - and consistent - they have no contradictory properties. This volume brings together fifteen essays from leading and emerging scholars that address these core, yet often under-explored, commitments.

Are space and time fundamental features of our world or might they emerge from something else? The Foundation of Reality brings together metaphysicians and

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philosophers of physics working on space, time, and fundamentality to address this timely question. Recent developments in the interpretation of quantum mechanics and the understanding of certain approaches to quantum gravity have led philosophers of physics to propose that space and time might be emergent rather than fundamental. But such discussions are often conducted without engagement with those working on fundamentality and related issues in contemporary metaphysics. This book aims to correct this oversight. The diverse contributions to this volume address topics including the nature of fundamentality, the relation of space and time to quantum entanglement, and space and time in theories of quantum gravity. Only through consideration of a range of different approaches to the topic can we hope to get clear on the status of space and time in our contemporary

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understanding of physical reality.

Edited and introduced by Robert Arp, *Revisiting Aquinas' Proofs for the Existence of God* is a collection of new papers written by scholars focusing on the famous Five Proofs or Ways (Quinque Viae) for the existence of God put forward by St. Thomas Aquinas (1225-1274) near the beginning of his unfinished tome, *Summa Theologica*.

Following a long-term international collaboration between leaders in cosmology and the philosophy of science, this volume addresses foundational questions at the limit of science across these disciplines, questions raised by observational and theoretical progress in modern cosmology. Space missions have mapped the Universe up to its early instants, opening up questions on what

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Solution came before the Big Bang, the nature of space and time, and the quantum origin of the Universe. As the foundational volume of an emerging academic discipline, experts from relevant fields lay out the fundamental problems of contemporary cosmology and explore the routes toward finding possible solutions. Written for graduates and researchers in physics and philosophy, particular efforts are made to inform academics from other fields, as well as the educated public, who wish to understand our modern vision of the Universe, related philosophical questions, and the significant impacts on scientific methodology.

The unique features of the quantum world are explained in this book through the language of diagrams, setting out an

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Solution innovative visual method for presenting complex theories. Requiring only basic mathematical literacy, this book employs a unique formalism that builds an intuitive understanding of quantum features while eliminating the need for complex calculations. This entirely diagrammatic presentation of quantum theory represents the culmination of ten years of research, uniting classical techniques in linear algebra and Hilbert spaces with cutting-edge developments in quantum computation and foundations. Written in an entertaining and user-friendly style and including more than one hundred exercises, this book is an ideal first course in quantum theory, foundations, and computation for students from undergraduate to PhD level, as well as an opportunity for researchers from a broad range of fields, from physics to biology, linguistics, and cognitive science, to

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discover a new set of tools for studying processes and interaction.

Scientific realism is a central, long-standing, and hotly debated topic in philosophy of science. Debates about scientific realism concern the very nature and extent of scientific knowledge and progress. Scientific realists defend a positive epistemic attitude towards our best theories and models regarding how they represent the world that is unobservable to our naked senses. Various realist theses are under sceptical fire from scientific antirealists, e.g. empiricists and instrumentalists. The different dimensions of the ensuing debate centrally connect to numerous other topics in philosophy of science and beyond. The Routledge Handbook of Scientific Realism is an outstanding reference source – the first collection of its kind – to the key issues,

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Solutions and arguments in this important topic. Its thirty-four chapters, written by a team of international experts, are divided into five parts: Historical development of the realist stance Classic debate: core issues and positions Perspectives on contemporary debates The realism debate in disciplinary context Broader reflections In these sections, the core issues and debates presented, analysed, and set into broader historical and disciplinary contexts. The central issues covered include motivations and arguments for realism; challenges to realism from underdetermination and history of science; different variants of realism; the connection of realism to relativism and perspectivism; and the relationship between realism, metaphysics, and epistemology. The Routledge Handbook of Scientific Realism is essential reading for students and researchers in philosophy

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Solution. It will also be very useful for anyone interested in the nature and extent of scientific knowledge.

Aquaporins (AQPs), a class of integral membrane proteins, form channels facilitating movement of water and many other solutes. In solute transport systems of all living organisms including plants, animals and fungi, AQPs play a vital role. Plants contain a much higher number of AQP genes compared to animals, the likely consequence of genome duplication events and higher ploidy levels. As a result of duplication and subsequent diversification, plant AQPs have evolved several subfamilies with very diverse functions. Plant AQPs are highly selective for specific solutes because of their unique structural features. For instance, ar/R selectivity filters and NPA domains have been found to be key elements in

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Solution governing solute permeability through the AQP channels. Combination of conserved motifs and specific amino acids influencing pore morphology appears to regulate the permeability of specific solutes such as water, urea, CO₂, H₂O₂, boric acid, silicic acid and many more. The discovery of novel AQPs has been accelerated over the last few years with the increasing availability of genomic and transcriptomic data. The expanding number of well characterised AQPs provides opportunities to understand factors influencing water transport, nutritional uptake, and elemental balance. Homology-based search tools and phylogenetic analyses offer efficient strategies for AQP identification. Subsequent characterization can be based on different approaches involving proteomics, genomics, and transcriptomic tools. The combination of these technological advances make it

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possible to efficiently study the inter-dependency of AQPs, regulation through phosphorylation and reversible phosphorylation, networking with other transporters, structural features, pH gating systems, trafficking and degradation. Several studies have supported the role of AQPs in differential phenotypic responses to abiotic and biotic stress in plants. Crop improvement programs aiming for the development of cultivars with higher tolerance against stresses like drought, flooding, salinity and many biotic diseases, can explore and exploit the finely tuned AQP-regulated transport system. For instance, a promising approach in crop breeding programs is the utilization of genetic variation in AQPs for the development of stress tolerant cultivars. Similarly, transgenic and mutagenesis approaches provide an opportunity to better understand the AQP transport

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system with subsequent applications for the development of climate-smart drought-tolerant cultivars. The contributions to this Frontiers in Plant Science Research Topic have highlighted the evolution and phylogenetic distribution of AQPs in several plant species. Numerous aspects of regulation that seek to explain AQP-mediated transport system have been addressed. These contributions will help to improve our understanding of AQPs and their role in important physiological aspects and will bring AQP research closer to practical applications.

'For those interested, the book is a good and well-written overview of the work of Wesson and his collaborators. For those with a general interest in extensions of standard physics, accessibility is strongly dependent on the reader ' s technical background, though the good structure of

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the book and copious references (including many to work by more-mainstream physicists on related topics) make that possible for those willing to invest some time.' The Observatory Magazine This book is a summing up of the prospects for unification between relativity and particle physics based on the extension of Einstein's theory of General Relativity to five dimensions. This subject was first established by Paul Wesson in his previous best-seller, *Space-Time-Matter*, and discussed from a different perspective in *Five-Dimensional Physics*, both published by World Scientific in 1999 and 2006 respectively. This third book brings the field up to date and details many new developments and connections to particle theory and wave mechanics in particular. It was in largely finished form at the time of Paul Wesson's untimely death in 2015, and has been completed and expanded by

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Solution
his former student and longtime
collaborator, James Overduin.

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