

A Beautiful Question Finding Nature S Deep Design By Frank Wilczek

"Pressestimmen" Mr. Wilczek takes the reader on an expertly curated tour across 2,500 years of philosophy and physics. One of the great pleasures of Mr. Wilczek's book is his wide-ranging interest in the way the beauty he finds in symmetry appears across human experience. He has accomplished a rare feat: Writing a book of profound humanity based on questions aimed directly at the eternal. "The Wall Street Journal" Inspiring and remarkably accessible. Wilczek's language is lyrical and almost mystical; whatever the answer Nature will ultimately give us, we have the pleasure of engaging with an enlightened and humble mind. "The Chronicle of Higher Education" The beauty of [nature's] equations merges with the beauty of literature in Wilczek's book. It's a work of art. "Science News" Relentlessly engaging; not only names but also wisely reframes a lot of basic concepts in modern physics. Wilczek's fearless reframing comes as a pleasant relief. "LA Review of Books" A deep, challenging, and marvelous book. "Library Journal" A skillfully written reflection...unique in the genre of popular works...contains something for every reader, from the physicist who wants to learn how a Nobel Prize winner thinks of the connection between ideas and reality to the layman who wants to know more about the structure of fundamental laws. A Beautiful Question reminds us of the many ways that science connects to the arts, and it invites us to marvel at the success our species has had in unraveling the mysteries of nature. "Physics Today" A Beautiful Question is both a brilliant exploration of largely uncharted territories and a refreshingly idiosyncratic guide to developments in particle physics. "Nature" A commendable investigation of the nature of reality. "Kirkus" In this delightful book, we are given a rare opportunity to enter the mind of one of the world's most creative and insightful scientists. Frank Wilczek's dazzling meditation on reality reveals the exquisite fusion of truth, beauty and the deep laws of the universe. "Brian Greene, author of the Elegant Universe" A Beautiful Question is a compelling introduction to the triumphs and challenges of modern physics, presented as a meditation on the role of aesthetics in the search for a deeper understanding of nature, and the deeper meanings of that search for humanity. Full of historical background and infused with the author's generous humanity, this is indeed a beautiful book, one I recommend to anyone interested in where science is going, written by someone who, by his many lasting contributions to science, has earned our attention. "Lee Smolin, author of Time Reborn and The Trouble with Physics" In this exquisite and remarkably accessible book, Frank Wilczek explores our cosmos as a work of art, revealing hidden beauty at all levels from the Galactic realm down to the subatomic microworld that his trailblazing research has elucidated. His ability to see what others overlook makes him an inspiring guide not only for scientists, but also for artists and all curious people. "Max Tegmark, author of Our Mathematical Universe" If you've ever wondered what physicists mean when they describe a theory as beautiful, A Beautiful Question is the ideal place to find out. Wilczek is both one of the greats of the subject, and not afraid to engage non-technically with the wonderful complexities and intangibilities of the mysterious beauty that lies at the core of our understanding of the physical world. "Peter Woit, author of Not Even Wrong" Anyone who has studied physics knows the startling beauty of those rare times when the clouds part and you see that math and reality are the same thing. With Wilczek's new book, readers can catch a glimpse of that beauty without having to know the math. "Noah Smith, Stony Brook University; author of Noahpinion" In contemporary art, Beauty has faded, a prosaic artifice, a distraction from deeper raw truths, maybe even ugly truths. To the exceptional physicist Frank Wilczek, Beauty has proven a luminous ally, a faithful advisor in his discoveries of remarkable truths about the world. Ever in pursuit of truth, Frank guides us in a calm and winsome meditation on this subtle question: Is the world beautiful? "Janna Levin, author of How the Universe Got Its Spots" A beautiful treatise on a beautiful universe, this delightful series of meditations on the nature of beauty and the physical universe roams from music, to color vision, to fundamental ideas at the very forefront of physics today. In lesser hands such a romp could easily degenerate into a kind of new age mystical mumbo jumbo. However, Frank Wilczek is one of the deepest, most creative, and most knowledgeable theoretical physicists alive today. Read him or listen to him and you will never think about the universe the same way again. And if your experience is like mine over the years, you will definitely be the better for it. "Lawrence Krauss, author of A Universe from Nothing and The Physics of Star-Trek" Frank Wilczek starts this fascinating book with the intriguing question: Does the world embody beautiful ideas? What follows is a masterful, intellectual journey, surveying a breathtaking tapestry of physics, art, and philosophy. One could ask Wilczek's question differently: Does this book embody beautiful ideas? The answer would be a resounding Yes! "Mario Livio, astrophysicist, author of Brilliant Blunders" Before there was Science, there was Natural Philosophy. In this authoritative, ever-surprising, and lavishly illustrated account, Frank Wilczek brings the grand quest that so captivated Pythagoras, Copernicus, Galileo, Newton, Maxwell, Einstein, Noether, and a host of others both up to date and back to life. "George Dyson, author of Turing's Cathedral" A truly beautiful book, in design, in content, in the insights that Frank Wilczek shares. This book helps me see how one of the world's leading thinkers thinks, using beauty as a tool, as a guide in finding not only the right problems but the right solutions. In Wilczek's mind, there is no clear separation between physics, art, poetry, and music. Why do physicists call their theories beautiful? Immerse yourself in this book, wallow in it, sit back and relax as you wander through it, and you'll soon understand. "Richard Muller, author of Physics for Future Presidents" For a century, science has invalidated soft questions about truth, beauty, and transcendence. It took considerable courage therefore for Frank Wilczek to declare that such questions are within the framework of hard science. Anyone who wants to see how science and transcendence can be compatible must read this book. Wilczek has caught the winds of change, and his thinking breaks through some sacred boundaries with curiosity, insight, and intellectual power. "Deepak Chopra, M.D. From the Hardcover edition. Über den Autor und weitere Mitwirkende **Frank Wilczek** won the Nobel Prize in Physics in 2004 for work he did as a graduate student. His 1989 book, Longing for the Harmonies, was a New York Times notable book of the year. Wilczek is a regular contributor to Nature and Physics Today, and his work has been anthologized in The Best American Science Writing and the Norton Anthology of Light Verse. He lives in Cambridge, Massachusetts, where he is the Herman Feshbach Professor of Physics at the Massachusetts Institute of Technology. Leseprobe. Abdruck erfolgt mit freundlicher Genehmigung der Rechteinhaber. Alle Rechte vorbehalten. This work was prepared especially for A Beautiful Question by He Shuifa, a modern master of traditional Chinese art and calligraphy. He is renowned for the vigor and subtlety of his brushwork and for the spiritual depth of his depictions of flowers, birds, and nature. A simple translation of the inscription is this: Taiji double fish is the essence of Chinese culture. This image was painted by He Shuifa on a lake in early winter. The playful doublefish aspect of Taiji comes to life in He Shuifa's image. The yin and yang resemble two carp playing together, and there are hints of their eyes and fins. In Henan, on the Yellow River, there is a waterfall called Dragon's Gate. Yulong carp attempt to jump the cataract, although it is very difficult

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forthem. Those that succeed transform into lucky dragons. With a sense of humor, we may associate this event with the transformation of virtual intoreal particles, an essential quantum process that is now thought to underliethe origin of structure in the Universe (see plates XX and AAA). Alternativelywe may identify ourselves with the carp, and their strivings with ourquest for understanding. **USERâ€™S MANUAL** The **â€œTimelinesâ€** are mainly focused on events mentioned or alluded to in the book. They do what timelines do. They are not intended to be complete histories of anything, and they arenâ€™t. The **â€œTerms of Artâ€** section contains explanatory definitions and discussions of key terms and concepts that occur in the main text. As you can infer from its length, it is rather more than a standard glossary. It contains alternative perspectives on many ideas in the text, and develops a few in new directions. The **â€œNotesâ€** section contains material that might, in an academic setting, have gone into footnotes. It both qualifies the text and provides some more technical references on particular points. You also find a pair of poems in there. The brief **â€œRecommended Readingâ€** section is not a routine list of popularizations, nor of textbooks, but a carefully considered set of recommendations for further exploration in the spirit of the text, emphasizing primary sources. I hope youâ€™ve already enjoyed the cover art and the frontispiece, which set the tone for our meditation beautifully. Thereâ€™s also a **â€œUserâ€™s Manualâ€** but you knew that. **THE QUESTION** This book is a long meditation on a single question: Does the world embody beautiful ideas? Our Question may seem like a strange thing to ask. Ideas are one thing, physical bodies are quite another. What does it mean to **â€œembodyâ€** an **â€œideaâ€**? Embodying ideas is what artists do. Starting from visionary conceptions, artists produce physical objects (or quasi-physical products, like musical scores that unfold into sound). Our Beautiful Question, then, is close to this one: Is the world a work of art? Posed this way, our Question leads us to others. If it makes sense to consider the world as a work of art, is it a successful work of art? Is the physical world, considered as a work of art, beautiful? For knowledge of the physical world we call on the work of scientists, but to do justice to our questions we must also bring in the insights and contributions of sympathetic artists. **SPIRITUAL COSMOLOGY** Our Question is a most natural one, in the context of spiritual cosmology. If an energetic and powerful Creator made the world, it could be that what moved Himâ€or Her, or Them, or Itâ€to create was precisely an impulse to make something beautiful. Natural though it may be, this is assuredly not an orthodox idea, according to most religious traditions. Many motivations have been ascribed to the Creator, but artistic ambition is rarely prominent among them. In Abrahamic religions, conventional doctrine holds that the Creator set out to embody some combination of goodness and righteousness, and to create a monument to His glory. Animistic and polytheistic religions have envisaged beings and gods who create and govern different parts of the world with many kinds of motives, running the gamut from benevolence to lust to carefree exuberance. On a higher theological plane, the Creatorâ€™s motivations are sometimes said to be so awesome that finite human intellects canâ€™t hope to comprehend them. Instead we are given partial revelations, which are to be believed, not analyzed. Or, alternatively, God is Love. None of those contradictory orthodoxies offers compelling reasons to expect that the world embodies beautiful ideas; nor do they suggest that we should strive to find such ideas. Beauty can form part of their cosmic story, but it is generally regarded as a side issue, not the heart of the matter. Yet many creative spirits have found inspiration in the idea that the Creator might be, among other things, an artist whose esthetic motivations we can appreciate and shareâ€or even, in daring speculation, that the Creator is primarily a creative artist. Such spirits have engaged our Question, in varied and evolving forms, across many centuries. Thus inspired, they have produced deep philosophy, great science, compelling literature, and striking imagery. Some have produced works that combine several, or all, of those features. These works are a vein of gold running back through our civilization. Galileo Galilei made the beauty of the physical world central to his own deep faith, and recommended it to all: The greatness and the glory of God shine forth marvelously in all His works, and is to be read above all in the open book of the heavens.. . as did Johannes Kepler, Isaac Newton, and James Clerk Maxwell. For all these searchers, finding beauty embodied in the physical world, reflecting Godâ€™s glory, was the goal of their search. It inspired their work, and sanctified their curiosity. And with their discoveries, their faith was rewarded. While our Question finds support in spiritual cosmology, it can also stand on its own. And though its positive answer may inspire a spiritual interpretation, it does not require one. We will return to these thoughts toward the end of our meditation, by which point we will be much better prepared to appraise them. Between now and then, the world can speak for itself. **HEROIC VENTURES** Just as art has a history, with developing standards, so does the concept of the world as a work of art. In art history, we are accustomed to the idea that old styles are not simply obsolete, but can continue to be enjoyed on their own terms, and also offer important context for later developments. Though that idea is much less familiar in science, and in science it is subject to important limitations, the historical approach to our Question offers many advantages. It allows usâ€indeed, forces usâ€to proceed from simpler to more complex ideas. At the same time, by exploring how great thinkers struggled and often went astray, we gain perspective on the initial strangeness of ideas that have become, through familiarity, tooâ€obviousâ€ and comfortable. Last but by no means least, we humans are especially adapted to think in story and narrative, to associate ideas with names and faces, and to find tales of conflicts and their resolution compelling, even when they are conflicts of ideas, and no blood gets spilled. (Actually, a little does. . . .) For these reasons we will sing, to begin, songs of heroes: Pythagoras, Plato, Filippo Brunelleschi, Newton, Maxwell. (Later a major heroine, Emmy Noether, will enter too.) 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