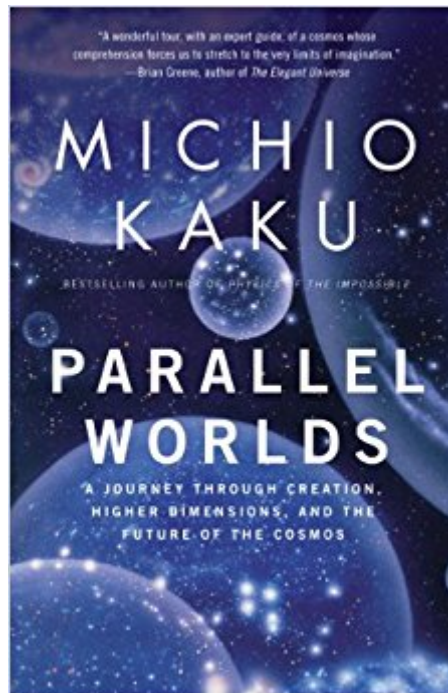


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# Parallel Worlds: A Journey Through Creation, Higher Dimensions, And The Future Of The Cosmos



## Synopsis

In this thrilling journey into the mysteries of our cosmos, bestselling author Michio Kaku takes us on a dizzying ride to explore black holes and time machines, multidimensional space and, most tantalizing of all, the possibility that parallel universes may lay alongside our own. Kaku skillfully guides us through the latest innovations in string theory and its latest iteration, M-theory, which posits that our universe may be just one in an endless multiverse, a singular bubble floating in a sea of infinite bubble universes. If M-theory is proven correct, we may perhaps finally find answer to the question, "What happened before the big bang?" • This is an exciting and unforgettable introduction into the new cutting-edge theories of physics and cosmology from one of the pre-eminent voices in the field.

## Book Information

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## Customer Reviews

I think it was Niels Bohr, the great Danish physicist, who told his fellow scientists many years ago that they had an obligation to try to enlighten laymen about the latest findings of science. This was not long after Einstein's theories of relativity and the development of quantum mechanics had demonstrated that the world in which we live and thrive was much stranger than previously thought. The comfortable and intuitive cosmos, as described by Newtonian mechanics, had been superceded by a world view that seemed not only bizarre, but even incomprehensible. This new book by Michio Kaku is one of the latest efforts by leading-edge scientists to fulfill that felt need recognized by Bohr. Targeting the educated layman, Kaku addresses his audience in a manner that is both entertaining and non-intimidating. Instead of mathematical descriptions, he relies on everyday analogies to convey his meanings. He includes a good measure of the history behind the

theories, spiced with anecdotes and humor. While tackling an inheritantly difficult subject matter, he has succeeded in making it about as accessible as it could possibly be for a lay audience. I emphasize that this is an up-to-date account. Just a few years ago, some physicists were merely speculating about the possibilities of multiple universes, parallel worlds, time travel, worm holes...things that sounded then more like science fiction than fact. Data only recently acquired by the WMAP satellite and the rapid development of string theory (and its latest incarnation, M-theory) have caused many of the best minds to not only entertain the possibility of such phenomena but, in many cases, consider them necessary corollaries to any credible Grand Unified Theory ( i.e., a "theory of everything).

Michio Kaku's discussion of PARALLEL WORLDS results from physicists' attempts to reconcile Einstein's Theory of Relativity with that of quantum mechanics to form a "theory of everything." M-Theory, the newest form of string theory, allows for the possibility of a parallel universe no more than a millimeter from ours. Kaku believes the newest super collider, which should be ready in 2007, may reveal evidence pointing to this alternate universe. Another theory, Alan Guth's inflationary universe theory, argues that the universe expanded much faster than the speed of light (possible because this was empty space that was expanding) and that the antigravity force which caused this original Big Bang still exists, allowing for more explosions, more inflation, and multi-universes. Also, if we apply the quantum theory to the universe, we are forced to admit that the universe, like an electron, may exist simultaneously in many states. Kaku asks the question, "What might these alternate universes look like?" Kaku theorizes that each time a new universe sprouts off from the original the physical laws change, creating entirely new realities. All of this gets even stranger when Kaku projects that all possible quantum worlds might exist simultaneously. The author does not shy away from controversial issues, such as the Designer Universe. At one point he compares the likelihood of our world occurring by accident to a "Boeing 747 aircraft being completely assembled as a result of a tornado striking a junkyard." PARALLEL WORLDS really gets interesting when Kaku discusses Nikolai Kardashev's classification of civilizations according to energy output. Type I would have harnessed planetary forms of energy.

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