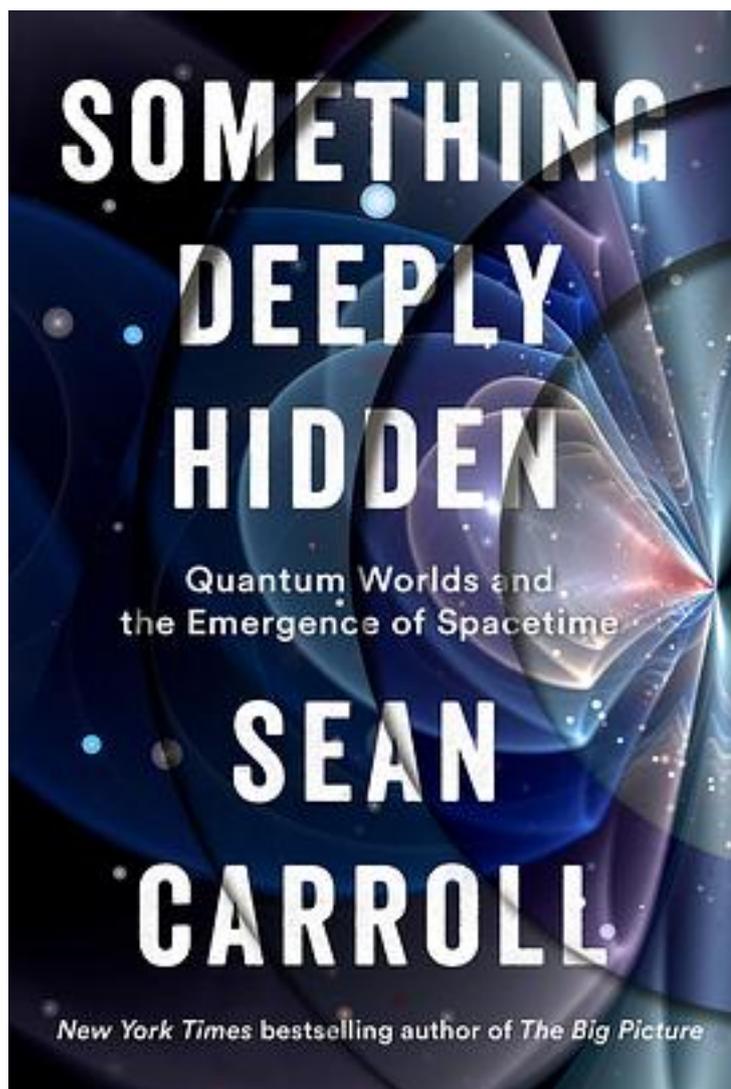


# Something Deeply Hidden



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著者:[美] Sean Carroll

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Something Deeply Hidden begins with the news that physics is in a crisis. Quantum mechanics underlies all of modern physics but major gaps in the theory have been ignored since 1927. Science popularizers keep telling us how weird it is, how contradictory, how impossible it is to understand. Academics discourage students from working on the "dead end" of quantum foundations. Putting his professional reputation on the line, Carroll says that crisis can now come to an end. We just have to accept that there is more than one of us in the universe. There are many, many Sean Carrolls. Many of every one of us.

The Many Worlds Theory of quantum behavior says that every time there is a quantum event, a world splits off with everything in it the same, except in that other world the quantum event didn't happen. Since the beginning of the universe about fourteen billion years ago, this has happened about ten to the tenth to the one-hundredth power times. Step-by-step in Carroll's uniquely lucid way, he sets out the major objections to this utterly mind-blowing notion until his case is inescapably established.

The holy grail of modern physics is reconciling quantum mechanics with Einstein's general relativity—his theory of curved spacetime. Carroll argues that our refusal to face up to the mysteries of quantum mechanics has blinded us, and that spacetime and gravity naturally emerge from a deeper reality called the wave function. No book for a popular audience has attempted to make this radical argument. We're on the threshold of a new way of understanding the cosmos.

作者介绍:

SEAN CARROLL is a theoretical physicist at the California Institute of Technology, host of the Mindscape podcast, and author of From Eternity to Here, The Particle at the End of the Universe, and The Big Picture. He has been awarded prizes and fellowships by the National Science Foundation, NASA, the American Institute of Physics, and the Royal Society of London, among many others. He lives in Los Angeles with his wife, writer Jennifer Ouellette.

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标签

物理

量子力学

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Gift

## 评论

全书都在挺多世界诠释

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The first two parts describing Everett multi worlds theory are kind of boring. The best part is the third part, outlining a possibility of getting a quantum gravity theory from an outright quantum approach. That's fun and saves the book.

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如果这本书早几年出来，在研一高等物理课上，我就不会对量子力学如此畏惧了。前面20%写的很不错，撇开了复杂的公式，用文字阐释了量子力学的发展历程和一些基本原理，一直到量子纠缠都还是非常有趣。从25%讲量子自旋开始，就有点费脑子，看到35%还在各种自旋觉得枯燥决定放弃。没看完不打分了。

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## 书评

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