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## **Programming The Universe A Quantum**

This is the intriguing assertion of Seth Lloyd in his new book, Programming the Universe: A Quantum Computer Scientist Takes On the Cosmos. "The Universe is a quantum computer. ...What does the universe compute? It computes itself.

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The universe computes its own behavior. As soon as the universe began, it began computing."

### **Programming the Universe: A Quantum Computer Scientist ...**

The creation of the universe itself involved information processing: random fluctuations in the quantum foam, like a

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random number generator in a computer program, produced higher-density areas, then matter, stars, galaxies and life.

## **Programming the Universe: A Quantum Computer Scientist ...**

That is, the universe computes, and because the universe is governed by the laws of quantum mechanics, it computes

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in an intrinsically quantum-mechanical fashion; its bits are quantum bits. The history of the universe is, in effect, a huge and ongoing quantum computation. The universe is a quantum computer.

## **Programming the Universe: A Quantum Computer Scientist ...**

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Programming the Universe was very hard for me to finish. despite how interesting I find information theory, quantum mechanics, and computer science, I just could not tolerate Seth Lloyd's writing. Extracting the underlying concepts from his disorderly descriptions is as tedious a process as getting pure metal from raw ore.

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## **Programming the Universe: A Quantum Computer Scientist ...**

Programming the Universe: A Quantum Computer Scientist Takes On the Cosmos is a 2006 popular science book by Seth Lloyd, professor of mechanical engineering at the Massachusetts Institute of Technology.

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## **Programming the Universe - Wikipedia**

That is, the universe computes, and because the universe is governed by the laws of quantum mechanics, it computes in an intrinsically quantummechanical fashion; its bits are quantum bits. The history of the universe is, in effect, a

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Scientist Takes On Cosmos

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Hardback; New York: Knopf Doubleday  
Publishing Group, 2006-03-14; ISBN-13:  
978-1400040926

## **9781400040926 - Programming the Universe: A Quantum ...**

Is the universe actually a giant quantum computer? According to Seth Lloyd, the

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answer is yes. All interactions between particles in the universe, Lloyd explains, convey not only energy but also information—in other words, particles not only collide, they compute. What is the entire universe computing, ultimately?

### **Programming the Universe: A Quantum Computer Scientist ...**

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That is, the universe computes, and because the universe is governed by the laws of quantum mechanics, it computes in an intrinsically quantum-mechanical fashion; its bits are quantum bits. The history of the universe is, in effect, a huge and ongoing quantum computation. The universe is a quantum computer.

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The quantum-computational nature of the universe dictates that the details of the future are intrinsically unpredictable. They can be computed only by a computer the size of the universe itself....

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## **'Programming the Universe' - The New York Times**

Experiments have verified nonlocality beyond any reasonable doubt. Although experiments are made with particles such as photons and electrons, here is a human analogy from Seth Lloyd's Programming the Universe: A Quantum

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Scientist Takes On Cosmos. Twin brothers enter two bars, one in Seattle

and the other in New York.

## **Consciousness, Quantum Physics, and Reality — Institute ...**

Once again, quantum physics is calling our concept of reality into question. If you are familiar with quantum physics,

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you know that on very tiny scales, the Universe is very weird. Particles act ...

### **Quantum Physics May Upend Our Macroscopic Reality In The ...**

If Loop Quantum Cosmology is the correct model of the Universe, in its infancy, the Universe would have had very high curvature. (A globe has

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positive curvature, a sheet of paper has  
flat.. Lloyd

## **Universe May Have Started In A Big Bounce Rather Than A ...**

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Lloyd--professor of quantum-mechanical engineering at MIT and originator of the first technologically feasible design for a

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Artyam Yurov and Valerian Yurov, the IKBFU researchers behind the

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aforementioned study, posit that everything in the universe, including the universe itself, should be viewed as a quantum object....

## **[Best of 2019] Study: Our universe may be part of a giant ...**

In the beginning was the bit... The universe is made of bits of information

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and it has been known for more than a century that every piece of the universe - every electron, atom and molecule - registers these bits and that information. It is only in the last ten years, however, with the discovery and development of quantum computers, that scientists have gained a fundamental understanding of just how that information is registered

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and processed.

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**Programming The Universe: A  
Quantum Computer Scientist ...**

According to professor Seth Lloyd, the answer is yes: "Everything in the universe is made of chunks of information called bits." A researcher in Mechanical Engineering at MIT, Lloyd is

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one of the...  
Seth Lloyd

**Is the Universe Actually a Giant  
Quantum Computer?**

4 Responses to "Review of Seth Lloyd,  
Programming the Universe" Steve H  
Says: June 2nd, 2006 at 2:02 pm. Maybe  
there's some form of data storage in  
another quantum dimension using this

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one as a brain; all the little computations  
being saved and analyzed.

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