

Quantum Big Bang Cosmology

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Quantum Big Bang Cosmology

Quantum cosmology is a theory that uses quantum mechanics to extend gravitational physics beyond Einstein's theory of general relativity. While Einstein's theory of general relativity can explain a...

Quantum cosmology explains anomalies beyond Einstein's ...

We will develop a two-tier quantum theory of the Big Bang Epoch that consists of a meta-stable universe of finite (infinitesimal) size with a finite temperature and energy density from the beginning. The universe in this ephemeral epoch is a complex, 4-dimensional, generalized Robertson-Walker universe.

Quantum Big Bang Cosmology: Complex Space-time General ...

Far more comprehensive and understandable than "A Brief History of Time," Gribbin's effort tries to show how the Big Bang theory could result in today's universe. On the way he gives you an overview of astronomy, physics -- including particle physics -- cosmology, chemistry and history.

In Search of the Big Bang: Quantum Physics and Cosmology ...

In this way, the fabric of space time is really woven by quantum threads. In accounting for these threads, loop quantum cosmology allows us to go beyond the continuum described by general...

Cosmic tango between the very small and the very large ...

Quantum cosmology is the attempt in theoretical physics to develop a quantum theory of the Universe. This approach attempts to answer open questions of classical physical cosmology, particularly those related to the first phases of the universe. The classical cosmology is based on Albert Einstein's general theory of relativity which describes the evolution of the universe very well, as long as you do not approach the Big Bang. It is the gravitational singularity and the Planck time where relativ

Quantum cosmology - Wikipedia

The standard cosmology is the most reliably elucidated epoch, or era, spanning the time between about one hundredth of a second after the Big Bang through to the present day. The standard model for the evolution of the Universe in this epoch has faced many stringent observational tests.

The Origins of the Universe: the Big Bang

Using the quantum-corrected Raychaudhuri equation, Ali and Das derived quantum-corrected Friedmann equations, which describe the expansion and evolution of universe (including the Big Bang) within...

No Big Bang? Quantum equation predicts universe has no ...

The Big Bang theory offers a comprehensive explanation for a broad range of observed phenomena, including the abundance of light elements, the CMB, large-scale structure, and Hubble's law. The theory depends on two major assumptions: the universality of physical laws and the cosmological principle.

Big Bang - Wikipedia

For many years, cosmologists have relied on the idea that the universe formed spontaneously, that the Big Bang was the result of quantum fluctuations in which the Universe came into existence from...

A Mathematical Proof That The Universe Could Have Formed ...

In find it interesting in cosmology today, that inflation and multiverse teaching, is based upon the QM time and this definition of time is *several orders of magnitude below any direct time measurement* in the lab. This thread discussion is titled, "What would it take to falsify the "big bang" model of cosmology?"

What would it take to falsify the "big bang" model of ...

Surely you didn't think all of the matter and energy we see now was stuffed in a single Big Bang! As you may know, quantum mechanics proposes a roiling quantum foam energy field everywhere in the universe, and the right kind of energy spikes creates string/anti-string pairs.

Loop Quantum Cosmology Theory: Cosmic Tango Between the ...

If the observable universe was once as small as a quantum particle, then what prevents other such quantum particles from existing? ... so we are talking about some kind of interactions in primary fields and "the big bang" is not a single event at all, but a regularity that can create many areas? cosmology. ... Browse other questions tagged ...

About the uniqueness of a quantum particle in cosmology ...

The 17 essays in this volume build upon previous theological and philosophical reflection on contemporary scientific cosmology. After an introduction to Big Bang, inflation and quantum cosmology, these essays respond to a series of questions: What methodological issues are raised by the interaction between theology and science?

Quantum Cosmology and the Laws of Nature: Scientific ...

In a modern sense, physical cosmology became established after the discovery of the cosmic microwave background in 1965 which quickly turned the hot big bang model into the standard model of the universe. Jim Peebles' Physical Cosmology of 1971, possibly the first book with this title, may be taken as the beginning of modern physical cosmology.

Cosmology and Theology (Stanford Encyclopedia of Philosophy)

In the context of pre-big bang cosmology, the quantum fluctuations of the metric tensor are generically amplified with a "blue" spectrum which is too steep to give any currently appreciable contribution at the large-distance scales relevant to the present CMB observations.

On the initial regime of pre-big bang cosmology By ...

"Quantum" is the theory of the utterly small. "Cosmology" is the study of the utterly large. They combine, remarkably, when in the very early universe the entire universe was far smaller than the smallest particle. What does it mean to describe the universe as a 'quantum wave function'?

What is Quantum Cosmology? | Closer to Truth

Quantum fluctuations can pre-exist, that is precede physical law, according to Sten Odenwald, an astronomer at the NASA Goddard Spaceflight Center. "So in the Big Bang, the establishment of 'law'...

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