

## Quantum Big Bang Cosmology

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The Beginning of Everything -- The Big Bang**Quantum Big Bang Cosmology**

Buy Quantum Big Bang Cosmology: Complex Space-time General Relativity, Quantum Coordinates, Dodecahedral Universe, Inflation, and New Spin 0, 1/2, 1, and 2 Tachyons and Imagyons by Stephen Blaha (ISBN: 9780974695815) from Amazon's Book Store. Everyday low prices and free delivery on eligible orders.

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

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 ...

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.

### Quantum cosmology - Wikipedia

Download Quantum Big Bang Cosmology books, A highly technical book describing a new Cosmology for the Beginning of the Universe as well as diverse related topics such as Quantum Field Theory, Tachyons, Quantum Coordinates and Dimensions, Inflationary Cosmology, complex space-time, complex General Relativity, the dodecahedral shape of the universe and so on. The intended audience is ...

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According to inflation, before the Big Bang, the Universe was filled with a dark energy-like form of energy: energy inherent to a field or the fabric of space itself, rather than particles ...

### Ask Ethan: Did The Universe Have Zero Entropy At The Big Bang?

According to LQG, space cannot be crushed down any smaller than this, and the application of LQG to the broader Universe is known as loop quantum cosmology (LQC). In standard Big Bang cosmology, were we to run the history of the universe backwards so that it collapses rather than expands, the universe would contract into an unknowable singularity.

### Microwave anomalies strengthen the case for loop quantum ...

What happened before the big bang? It's one of the most popular questions in astronomy. When the observable universe is smaller than an atom our classical th...

### Before the Big Bang 1 - Loop Quantum Cosmology Explained ...

While the Big Bang holds the attention of scientists, it isn't perfect. The authors pull back the curtains, and show how cosmology really works. With this, you will know your enemy, cosmic revolutionary - arm yourself for the scientific arena where ideas must fight for survival! This uniquely-framed tour of modern cosmology gives a deeper understanding of the inner workings of this fascinating ...

### Cosmic revolutionarys handbook or how beat 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 ...

Physical cosmology; Big Bang ... Quantum tunneling should also turn large objects into black holes, which (on these timescales) will instantaneously evaporate into subatomic particles. Depending on the assumptions made, the time this takes to happen can be calculated as from 10 10 26 years to 10 10 76 years. Quantum tunneling may also make iron stars collapse into neutron stars in around 10 10 ...

### Future of an expanding universe - Wikipedia

Now, consider semiclassical cosmology and big bang cosmology. First, God created the universe's fine-tuned quantum vacuum out of nothing. Second, God generated a quantum fluctuation that originated...

### Article: My Cosmology and Theodicy | OpEdNews

The group has expertise in the areas of fundamental theory related to quantum gravity, black holes, gravitational waves, numerical relativity, cosmology, inflation, cosmic strings, the cosmic microwave background and large-scale structure.

### Index | Relativity and Gravitation Group

General Relativistic Cosmology Tremors of the impending earthquake which would demolish the old cosmology were first felt in 1917, when Albert Einstein made a cosmological application of his newly discovered gravitational theory, the General Theory of Relativity (hereafter, GR).

### Big Bang Cosmology | Reasonable Faith

In Quantum Cosmology, A Fundamental Description of the Universe, Martin Bojowald discusses his theory to see how black holes behave and where our universe came from. Applications like loop quantum gravity and cosmology have by now shed much light on cosmic evolution of a universe in a fundamental, microscopic description.

### Quantum Cosmology - A Fundamental Description of the ...

This is a course on cosmology, aimed at final year undergraduate students. It assumes a background in neither general relativity nor statistical mechanics. The full lecture notes come in around 170 pages. Please do email me if you find any typos or mistakes.

### David Tong: Lectures on Cosmology

BICEP2 is a radio telescope that measures the polarisation of the cosmic microwave background (CMB). The CMB is the thermal radiation assumed to be left over from the “Big Bang” of cosmology. BICEP2 has been looking for so-called B-mode polarisation in the CMB, this is a characteristic twist in the directional properties of the CMB.

### Big Bang of Cosmology - IET

Understanding the nature of the “big bang” is at the heart of cosmology and requires synthesis of a wide variety of fundamental elements such as quantum theory, gravitational physics, particle physics and/or string theory. Further, for a theory of the big bang to be confirmed or falsified, it has to be connected to experiment and observations.

### Cosmology

Due to the quantum geometry, the Big Bang is replaced by a big bounce without any assumptions on the matter content or any fine tuning. An important feature of loop quantum cosmology is the effective space-time description of the underlying quantum evolution.