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...

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

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explain a...

Quantum cosmology explains anomalies beyond Einstein's ...

QUANTUM NATURE OF THE BIG BANG IN
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Ashtekar Institute for Gravitational
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Department, Penn State, University Park,

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PA 16802-6300 March 6, 2006 1

Introduction A central feature of general relativity is that gravity is encoded in the very geometry of space-time.

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Most physicists refer to the Big Bang as

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a "singularity," that is, an ultimate boundary or edge, a "state of infinite density" where spacetime has ceased. Thus, it represents an outer limit of what we can know about the universe.

'Big Bang Cosmology, Quantum Tunneling from Nothing, and ...
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Improved dynamics Abhay Ashtekar,
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spatially flat, isotropic model with a
massless scalar field is then studied in

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detail using analytical and numerical methods.

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break ... "Cosmology from quantum potential." Physics Letters B. Volume 741, 4 ...

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Now, consider semiclassical cosmology and big bang cosmology. First, God created the universe's fine-tuned

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quantum vacuum out of nothing.
Second, God generated a quantum
fluctuation that originated...

Article: My Cosmology and Theodicy | OpEdNews

Quantum cosmology is the attempt in
theoretical physics to develop a
quantum theory of the Universe. This

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approach attempts to answer open questions of classical physical cosmology, particularly those related to the first phases of the universe. 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

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gravitational singularity and the Planck time ...

Quantum cosmology - Wikipedia

The term “Big Bang,” originally a derisive expression coined by Fred Hoyle to characterize the beginning of the universe predicted by the Friedman-Lemaître model, is thus potentially

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misleading, since the expansion cannot be visualized from the outside (there being no “outside,” just as there is no “before” with respect to the Big Bang). The standard Big Bang model, as the Friedman-Lemaître model came to be called, thus describes a universe which is not eternal in the past, but ...

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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

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calculated as from 10^{10} years to 10^{26} years to 10^{76} years.

Future of an expanding universe - Wikipedia

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

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will know your enemy, cosmic revolutionary - arm yourself for the scientific arena where ideas must fight for survival!

Cosmic revolutionaries handbook or how beat big bang ...

For all those who wonder about this bizarre universe, and those who want to

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overthrow the Big Bang, this handbook gives you 'just the facts': the observations that have shaped these ideas and theories. 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.

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What is Quantum Cosmology?

“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

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describe the universe as a 'quantum wave function'?

What is Quantum Cosmology? | Closer to Truth

This page features an overview of all our Spotlights dealing with cosmology. In the category Basics, you will find some more information about the big bang models,

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their predictions and cosmological observations, notably about the cosmic background radiation. Under Cosmology and quantum gravity there are some texts about the cosmological consequences of the current attempts to describe quantum ...

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A flat universe 156 billion light years wide (actual present-day estimated size of the "Big Bang" universe if the light horizon did not exist) that started from a tiny point only 13.73 billion years ago sounds amazingly contradictory and requiring such a precise value of critical density as to again be extremely

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unlikely, unless one brings in the anthropic principle.

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