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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...

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QUANTUM NATURE OF THE BIG BANG IN LOOP QUANTUM

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Ashtekar Institute for  
Gravitational Physics  
and Geometry Physics  
Department, Penn  
State, University Park,  
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.

## **QUANTUM NATURE OF THE BIG BANG IN LOOP QUANTUM COSMOLOGY**

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Most physicists refer to the Big Bang as 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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Quantum Nature of the Big Bang: Improved dynamics Abhay Ashtekar, Tomasz Pawlowski, Parampreet Singh An improved Hamiltonian constraint operator is introduced in loop quantum cosmology. Quantum dynamics of the spatially flat, isotropic model with a massless scalar field is then studied in detail using analytical and numerical methods.

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**[gr-qc/0607039]**

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"The Big Bang singularity is the most serious problem of general relativity because the laws of physics appear to break ... "Cosmology from quantum potential." Physics Letters B. Volume 741, 4 ...

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

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...

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## **Article: My Cosmology and Theodicy | OpEdNews**

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. Classical

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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 ...

## **Quantum cosmology - Wikipedia**

The term "Big Bang," originally a derisive

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expression coined by Fred Hoyle to characterize the beginning of the universe predicted by the Friedman-Lemaître model, is thus potentially 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

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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.

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Depending on the assumptions made, the time this takes to happen can be calculated as from  $10^{10}$  years to  $10^{26}$  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

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cosmology really works. With this, you will know your enemy, cosmic revolutionary - arm yourself for the scientific arena where ideas must fight for survival!

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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.

**Cosmic  
revolutionarys**

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## **handbook or how beat big bang ...**

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 describe the universe as a ‘quantum wave

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## **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, their predictions and cosmological observations, notably about the cosmic

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background radiation. Under Cosmology and quantum gravity there are some texts about the cosmological consequences of the current attempts to describe quantum ...

## **Cosmology « EO- Topics « Einstein- Online**

A flat universe 156 billion light years wide (actual present-day estimated size of the

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"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 unlikely, unless one brings in the anthropic principle.

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