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one essential to
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TECHBOOK NEWS,
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In modern physics, the
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tranquil nothingness has been replaced by a quantum vacuum with fluctuations of measurable consequence. In The Quantum Vacuum, Peter Milonni describes the concept of the vacuum in quantum physics with an emphasis on quantum electrodynamics.

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even the lowest energy
state, the "vacuum," is
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Are virtual particles

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**really ... - Scientific
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**Is Gravity Quantum?
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unsolved problems in physics are theoretical, meaning that existing theories seem incapable of explaining a certain observed phenomenon or experimental result.

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beyond the Standard ...

**List of unsolved
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- Wikipedia**

Quantum mechanics
can be used to
describe spacetime as
being non-empty at
extremely small scales,
fluctuating and
generating particle
pairs that appear and
disappear incredibly
quickly. It has been
suggested by some

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such as Paul Dirac that this quantum vacuum may be the equivalent in modern physics of a particulate aether.

Aether theories - Wikipedia

The quantum vacuum is a manifestation of the quantum fields that fill the universe. It is, counterintuitively, not exactly empty, either. Within it, short-lived excitations of the fields

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Did Galaxies Grow from Quantum Static? - Scientific American

The Quantum Vacuum and the Principle of Inertia In an extensive series of papers, Haisch and Alfonso Rueda, a physicist currently teaching in the Department of Electrical Engineering, California State University, Long Beach, California, have

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developed a controversial hypothesis in the context of stochastic electrodynamics.

Bernard Haisch - Wikipedia

The theory says that the early universe went through a phase of extreme expansion.

The process magnified random blips in the quantum vacuum and converted them into the galaxies and other

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**Will String Theory
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