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A main theme of the book outlines the role of the quantum potential in quantum mechanics and general relativity and one of its origins via fluctuations formulated in terms of Fisher information. Another theme is the description of various approaches to Bohmian mechanics and their role in quantum mechanics and general relativity.

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Fluctuations, Information, Gravity and the Quantum ...

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In SI units this acceleration is measured in metres per second squared or equivalently in newtons per kilogram. Near Earth's surface, gravitational acceleration is approximately 9.81 m/s², which means that, ignoring the effects of air resistance, the speed of an object falling freely will increase by about 9.81 metres per second every second. This quantity is sometimes referred to informally as little g. The precise strength of Earth's gravity varies depending on location. The nominal "average"

Gravity of Earth - Wikipedia

One of the overlooked gravity facts: Although the force of gravity in space is 90% percent of the force an astronaut experiences on Earth, astronauts don't have weight in space. Weight is the force we feel on a surface (like on a chair or a bed). Therefore, astronauts are weightless in space.

32 Interesting Gravity Facts You Never Knew | Facts.net

And so the information that went into the black hole is the information of a blue sock. And so you see that, in a sense, it is as if this information was lying on the surface of the horizon. And indeed, one has a picture similar to this one, here, of the horizon of a black hole being a sphere which is papered with information which carries all ...

Information flow

We review connections between the metric of spacetime and the quantum fluctuations of fields. We start with the finding that the spacetime metric can be expressed entirely in terms of the 2-point correlator of the fluctuations of quantum fields. We then discuss the open question whether the knowledge of only the spectra of the quantum fluctuations of fields also suffices to determine the ...

Quantum Gravity, Information Theory and the CMB - NASA/ADS

According to Sir Isaac Newton's law of universal gravitation, gravity is an attractive force that acts on every particle of matter in the universe. The strength of the attraction depends on distance and mass however. If they're close enough, two particles of cosmic dust will gravitate toward each other.

What does gravity have to do with the big bang ...

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CiteSeerX - Document Details (Isaac Councilil, Lee Giles, Pradeep Teregowda): Abstract. We show how the quantum potential arises in various ways and trace its connection to quantum fluctuations and Fisher information along with its realization in terms of Weyl curvature. It represents a genuine quantization factor for certain classical systems as well as an expression for quantum matter in ...

CiteSeerX — Fluctuations, gravity, and the quantum potential

The new Earth gravity map, which was unveiled in late March, is the most accurate model of gravity fluctuations around the world. It was recorded by the European Space Agency's GOCE satellite.

Best Gravity Map Yet Shows a Lumpy | Space

In Table 1, the standard deviations of temperature fluctuations associated with both gravity and planetary waves signals are presented. The temperature PDFs and the reported variances show that the gravity wave contribution accounts for a significant fraction of the total wave perturbations and should therefore not be neglected when modeling microphysical processes.

Lagrangian temperature and vertical velocity fluctuations ...

By observing changes in the Earth's gravity field, scientists can estimate changes in the amount of water stored in a region, which cause changes in gravity. GRACE provides a more than 10 year-long data record for scientific analysis. This makes a huge difference for scientists and water managers who want to understand trends in how our ...

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Therefore, it is very useful to study the gravity waves by extracting the fluctuation information in the data of atmospheric wind field and temperature field. Gravity waves generated in the lower atmosphere increase in amplitude as the height increases, and when the amplitude reaches a certain level, they break up due to convective instability or dynamic instability, and are considered to have reached saturation.

Atmosphere | Free Full-Text | Spectral Analysis of Gravity ...

These fluctuations can be described by the Einstein-Langevin equation obtained in the framework of stochastic gravity. Specifically, the Einstein-Langevin equation yields stochastic correlation functions for the metric perturbations which agree, to leading order in the large N limit, with the quantum correlation functions of the theory of gravity interacting with N matter fields.

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