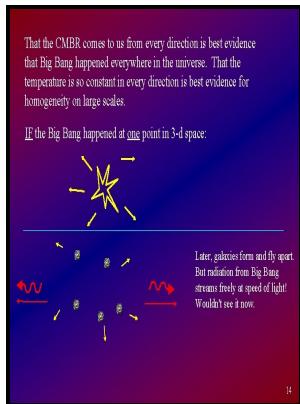


Gravity, black holes, and the very early universe - an introduction to general relativity and cosmology

Springer - The Incredible Science Behind Black Holes, Gravity, And The 2020 Nobel Prize



Description: -

- Cosmology

Quantum field theory

Black holes (Astronomy)

General relativity (Physics)

Gravitation Gravity, black holes, and the very early universe - an introduction to general relativity and cosmology

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Notes: Includes bibliographical references and index.

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Tags: #General #relativity

Introduction To General Relativity Black Holes And Cosmology PDF Book

The Advanced Laser Interferometry Gravitational-wave Observatory, or LIGO, which reported the first confirmed gravitational waves in 2016, relies on two detectors, one in Hanford, Wash. Thus gravity affects the path of light, even though we think of gravity as acting between masses and photons are massless. Most effects of gravity vanish in free fall, but effects that seem the same as those of gravity can be produced by an frame of reference.

How black holes morphed from theory to reality

By 1916, he had laid the foundation of general relativity, again almost on his own.

Quantum gravity

More concretely, they are formulated using the concepts of , in which the geometric properties of a space or a spacetime are described by a quantity called a. The metric encodes the information needed to compute the fundamental geometric notions of distance and angle in a curved space or spacetime.

Gravity Black Holes And The Very Early Universe An Introduction To General Relativity And Cosmology PDF Book

Ever more precise solar system tests confirmed the theory's predictive power, and relativistic cosmology also became amenable to direct observational tests. Despite major efforts, no complete and consistent theory of quantum gravity is currently known, even though a number of promising candidates exist.

Gravity: An Introduction to Einstein's General Relativity

The future of quantum gravity Not only is quantum gravity in its infancy, no one knows how to get started on a theory of gravitons and unification of forces. The Einstein field equations are and very difficult to solve. Black holes are also sought-after targets in the search for gravitational waves cf.

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