

## QUANTUM FIELDS IN CURVED SPACE%0A

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[Quantum Fields in Curved Space: N. D. Birrell, P. C. W. ...](#)

This book presents a comprehensive review of the subject of gravitational effects in quantum field theory. Although the treatment is general, special emphasis is given to the Hawking black hole evaporation effect, and to particle creation processes in the early universe.

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1. The nature of Quantum Field Theory in Curved Spacetime Quantum eld theory in curved spacetime

(QFTCS) is the theory of quantum elds propagating in a background, classical, curved spacetime (M,g).

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[Quantum Fields in Curved Spacetime: Quantum-Gravitational Nonlocality and Conservation of Particle](#)

Numbers Vladimir S. MASHKEVICH Institute of Physics, National academy of sciences of Ukraine 252028

Kiev, Ukraine Abstract We argue that the conventional quantum eld theory in curved spacetime has a grave drawback: The canonical commutation relations for quantum elds and conjugate momenta do not

[Quantum Fields in Curved Space](#) by N. D. Birrell

This book presents a comprehensive review of the subject of gravitational effects in quantum field theory. Although the treatment is general, special emphasis is given to the Hawking black hole evaporation effect, and to particle creation processes in the early universe.

[Quantum Fields in Curved Space \(Cambridge Monographs on ...](#)

At the time of publication of this book, there was growing interest in how to formulate quantum field theory in spacetimes with curved metrics with the intent of studying to what extent a non-flat curvature would change the properties and behavior of quantum fields as compared to the Minkowski case. The authors give an introduction to this research and they do a good job in that regard. Due to [Quantum Fields In Curved Space | Download eBook PDF/EPUB](#)

Description : Quantum mechanics and quantum field theory on one hand and Gravity as a theory of curved space-time on the other are the two great conceptual schemes of modern theoretical physics. For many decades they have lived peacefully together for a simple reason: it was a coexistence without much interaction. There has been the family of relativists and the other family of elementary

### **Quantum Field Theory in Curved Spacetime: Quantized Fields ...**

This book develops quantum field theory in curved spacetime in a pedagogical style, suitable for graduate students. The authors present detailed, physically motivated, derivations of cosmological and black hole processes in which curved spacetime plays a key role.

### **Quantum field theory in curved spacetime - Wikipedia**

In particle physics, quantum field theory in curved spacetime is an extension of standard, Minkowski space quantum field theory to curved spacetime. A general prediction of this theory is that particles can be created by time-dependent gravitational fields, or by time-independent gravitational fields that contain horizons.

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### **Space-Time Curvature and Relativity - Quantum Field Theory**

In QFT gravity is a quantum field in ordinary three-dimensional space, just like the other three force fields (EM, strong and weak). This does not mean that four-dimensional notation is not useful. It is a convenient way of handling the mathematical relationship between space and time that is required by special relativity.

**Problem 1: A real scalar field and its Green's and two ...**  
This exercise is to some extent inspired by section 2.7 of Birrell & Davies, Quantum Fields in Curved Space (Cambridge University Press). From now on we shall set  $\hbar = 1$ .