Quantum Fields In Curved Space Birrell Davies

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Quantum Fields In Curved Space

Quantum field theory in curved spacetime. 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 (multi graviton pair production), or by time-independent gravitational fields that contain horizons.

Quantum field theory in curved spacetime - Wikipedia

The most important thing to carry away

from this book is that the idea of a particle in curved space quantum field theory is not very well-formulated, i.e. particle detectors in such situations are not related to the quantity of matter present in a region as they are in the flat-space case.

Quantum Fields in Curved Space (Cambridge Monographs on ...

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Quantum fields in curved space | N. D. Birrell, P. C. W ...

Quantum field theory in curved spacetime (QFTCS) is the theory of quantum fields propagating in a background, classical, curved spacetime (M;g). On ac- count of its classical treatment of the metric, QFTCS cannot be a fundamental theory of nature.

Quantum fields in curved spacetime

Most of the detailed analysis will refer to a scalar field, but the main results will be listed for higher spins also. This restriction will enable the important features of curved space quantum field theory to emerge with the minimum of mathematical complexity. Much of the chapter will be familiar from textbooks such as Bjorken & Drell (1965), but the reader should take special note of the results on the expectation value of the stress–energy–momentum tensor and

vacuum divergence (§2.4 ...

Quantum field theory in Minkowski space (Chapter 2 ...

The renormalization procedures in quantum field theory are further complicated in curved spacetime via the "trace" or "conformal" anomalies. The reader gets a good dose of these in the book in the discussion on the renormalization of the stress.

Quantum Fields in Curved Space: Birrell, N. D., Davies, P ...

These notes introduce the subject of quantum field theory in curved spacetime and some of its applications and the questions they raise. Topics include particle creation in time-dependent metrics, quantum origin of primordial perturbations, Hawking effect, the trans-Planckian question, and Hawking radiation on a lattice.

[gr-qc/0308048] Introduction to Quantum Fields in Curved ...

The general area of quantum field theory in curved spacetime is now well established. (Several reviews emphasizing various aspects are [1] [2] [3] [4] [5] and earlier influential treatments ...

(PDF) Quantum field theory in curved spacetime.

1. Introduction 2. Quantum field theory in Minkowski space 3. Quantum field theory in curved spacetime 4. Flat spacetime examples 5. Curved spacetime examples 6. Stress-tensor renormalization 7. Applications of renormalization techniques 8. Quantum black holes 9. Interacting fields References Index.

[PDF] Quantum Fields in Curved Space | Semantic Scholar

Quantum fields in curved space [electronic resource] / N.D. Birrell and P.C.W. Davies. Birrell, N. D.; Davies, P. C. W. 1982

Quantum fields in curved space

formal QFTs to quantum gravity on anti de-Sitter spaces and this has limits that can be probed with QFT in curved space-time. Quantization is a global problem, in which the global structure of space-time plays a crucial role.

Quantum Field Theory in Curved Space-Time

Quantum Fields in Curved Space. Jan 1, 1982. 352 pages. ISBN: 9780521278584, 9780521278584 (Print) DOI: 10.1017/CBO9780511622632; links cite. 2,180 citations. Citations per year. Something went wrong Please try again later or go back. Abstract: (Cambridge University Press)

Quantum Fields in Curved Space - INSPIRE

It will focus on. classical aspects of fields in curved space-time, global structure and black hole thermodynamics and then on quantum fields on curved backgrounds. Please also submit your

homework for Quantum Field Theory in Curved Space-Time via the assignments tab.

Quantum Field Theory in Curved Space-Time - Material for ...

for describing quantum fields in curved space-times. Fix a space--time (M, gab).1t For simplicity, we shall restrict ourselves to (the minimally coupled) Klein-Gordon fields on this space-time,...

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Quantum Fields in Curved Space (Cambridge Monographs on Mathematical Physics) Davies, P. C. W., Birrell, N. D. Published by Cambridge University Press (1984)

9780521278584: Quantum Fields in Curved Space (Cambridge ...

Quantum Fields in Curved Space (Cambridge Monographs on Mathematical Physics series) by N. D. Birrell. This book presents a

comprehensive review of the subject of gravitational effects in quantum field theory.

Quantum Fields in Curved Space by Birrell, N. D. (ebook)

In mathematical physics, the Dirac equation in curved spacetime generalizes the original Dirac equation to curved space. It can be written by using vierbein fields and the gravitational spin connection. The vierbein defines a local rest frame, allowing the constant Dirac matrices to act at each spacetime point.

Dirac equation in curved spacetime - Wikipedia

Book description. The theory of quantum fields on curved spacetimes has attracted great attention since the discovery, by Stephen Hawking, of black-hole evaporation. It remains an important subject for the understanding of such contemporary topics as inflationary cosmology, quantum gravity

and superstring theory.

Aspects of Quantum Field Theory in Curved Spacetime by ...

Here we stick to the Λ-term, but we contend that it can be a 'running quantity' in quantum field theory (QFT) in curved space time. A plethora of phenomenological works have shown that this option can be highly competitive with the ΛCDM with a rigid cosmological term.

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