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In theoretical physics, thermal quantum field theory (thermal field theory for short) or finite temperature field theory is a set of methods to calculate expectation values of physical observables of a quantum field theory at finite temperature . In the Matsubara formalism, the basic idea (due to Felix Bloch) is that the

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expectation values of operators in a canonical ensemble.

Thermal quantum field theory - Wikipedia

Thermal quantum field theory : algebraic aspects and applications. [F C Khanna;] -- This monograph presents recent developments in quantum field theory at finite temperature. By using Lie groups, ideas

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And Applications
from thermal theory
are considered with
concepts of symmetry,
allowing for ...

**Thermal quantum
field theory :
algebraic aspects
and ...**

A given set of spins will
be called a con-
figuration . The
probability of a con-
figuration at finite
temperature T is
 $P(\sigma) = \frac{1}{Z} e^{-\beta H(\sigma)}$ and the
partition function is the

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sum over all configurations: $\langle \dots \rangle = \frac{1}{Z} \int \mathcal{D}\phi \dots e^{-S[\phi]}$ (3) so that expectation values with respect to are defined as $\langle \dots \rangle = \frac{1}{Z} \int \mathcal{D}\phi \dots e^{-S[\phi]}$

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Thermal Quantum Field Theory - World Scientific

Equilibrium states in Thermal Field Theory and in Algebraic Quantum Field Theory. In this paper we compare the construction of equilibrium states at finite temperature for

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self-interacting
massive scalar
quantum field theories
on Minkowski
spacetime proposed by
Fredenhagen and
Lindner with results
obtained in ordinary
thermal field theory, by
means of real time and
Matsubara formalisms.

[1906.04098]
**Equilibrium states in
Thermal Field
Theory ...**

We compare the

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construction of
equilibrium states at
finite temperature for
self-interacting
massive scalar
quantum field theories
on Minkowski
spacetime proposed by
Fredenhagen and
Lindner (Commun Math
Phys 332:895, 2014)
with results obtained in
ordinary thermal field
theory, by means of
real-time and
Matsubara (or
imaginary time)

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formalisms.
Algebraic Aspects
**Equilibrium States in
Thermal Field
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Abstract: Algebraic quantum field theory provides a general, mathematically precise description of the structure of quantum field theories, and then draws out consequences of this structure by means of various mathematical tools -- the theory of

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operator algebras,
category theory, etc..
Given the rigor and
generality of AQFT, it is
a particularly apt tool
for studying the
foundations of QFT.

[math-ph/0602036] Algebraic Quantum Field Theory

Algebraic Quantum
Field Theory or
Axiomatic Quantum
Field Theory or AQFT
for short is a
formalization of

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quantum field theory (and specifically full, hence non-perturbative quantum field theory) that axiomatizes the assignment of algebras of observables to patches of parameter space (spacetime, worldvolume) that one expects a quantum field theory to provide.

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Type: ALGEBRAIC

QUANTUM FIELD

THEORY: Algebraic

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Quantum Field Theory:

A Status Report by

Detlev Buchholz

[2000/11] Algebraic

Quantum Field Theory:

An Introduction by

Christopher J. Fewster

and Kasia Rejzner

[2019/04] Type:

AXIOMATIC QUANTUM

FIELD THEORY: Current

trends in axiomatic

quantum field theory

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[Lect. Notes Phys. 558

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**The Net Advance of
Physics**
Analytic Aspects
And Applications

In this paper we compare the construction of equilibrium states at finite temperature for self-interacting massive scalar quantum field theories on Minkowski spacetime proposed by Fredenhagen and Lindner with results obtained in ordinary thermal field theory, by means of real time and

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Matsubara formalisms. In the construction of this state, even if the adiabatic limit is considered, the ...

Equilibrium States in Thermal Field Theory and in ...

Since the fields in quantum field theory (such as the electromagnetic field) exhibit and are characterized by their local excitations (for instance the value of

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the electric/magnetic field strength at any point) having effects only locally (the field excitations at two points a finite distance apart do not directly influence each other) the fields over any region of spacetime form a subsystem of the fields of any larger region and in particular of the total system.

Haag-Kastler axioms in nLab

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for in theoretical physics thermal quantum field theory thermal field theory for short or finite temperature field theory is a set of methods to calculate expectation values of physical observables of a quantum field theory at finite temperature in the matsubara formalism the basic idea due to felix

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**Field Theory
Algebraic Aspects
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Algebraic quantum field theory is an axiomatic approach to QFT on globally hyperbolic Lorentzian manifolds (= spacetimes). A theory is described by a covariant functor $A : \text{Loc} \rightarrow \text{Alg}$. Pictures 2 M M 1 M 2 M 3 A(M) !! i A(M) i) M M! A(M) mono "# A(M) A. Schenkel Homotopical algebra and quantum gauge

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Noether Interview 5 / 5
| {z... Applications

Homotopical algebraic quantum field theory

The algebraic approach, that is the characterization of the theory by a net of algebras of local observables, provides a concise language for this and an efficient tool for the study of the anatomy of the theory

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and of the relevance of various parts to qualitative physical consequences. It is introduced in Chapter III.

Local Quantum Physics | SpringerLink

In particle physics, quantum field theory in curved spacetime is an extension of standard, Minkowski space quantum field theory to curved spacetime.A

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general prediction of this theory is that particles can be created by time-dependent gravitational fields (multigraviton pair production), or by time-independent gravitational fields that contain horizons.

Quantum field theory in curved spacetime - Wikipedia

algebraic methods in

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and quantum field
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vectors quantum fields
are linear operators on
this space which satisfy
nonlinear wave
equations of
fundamental

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