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theory in two

dimensions: exact

versus perturbative

- Nguyen Yang-

Mills and Mass Gap

(Millennium Prize

Problem!)

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The Yang-Mills

theory (72/200)

~~David Gross:~~

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Global symmetry.

Yang-Mill's theory.

Phil Anderson

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| Edward Witten~~

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Thought You Knew
About Quantum
Physics is Different
— with Philip Ball
The First Quantum
Field Theory |
Space Time Yang-~~

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Mills and Mass

Gap\" Millenium

problem ~~Anthony~~

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~~Yang Mills Theory~~

~~(Day 1) Quantum~~

~~Mathematics and~~

~~the Fate of Space,~~

~~Time and Matter -~~

~~Robbert Dijkgraaf~~

- Yang-

Mills theory

Quantum Yang Mills

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Quantum Yang

Theory The

Yang – Mills theory is a gauge theory based on a special unitary group SU , or more generally any compact, reductive Lie algebra. Yang – Mills theory seeks to describe the behavior of elementary particles using

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Quantum Yang

Mills Theory
these non-abelian
Lie groups and is at
the core of the
unification of the
electromagnetic
force and weak
forces as well as
quantum
chromodynamics,
the theory of the
strong force. Thus
it forms the basis of
our understanding
of the Standard

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Model of particle
physics.

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Wikipedia

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JAFFE AND

EDWARD WITTEN

1. The Physics of
Gauge Theory

Since the early part
of the 20th century,

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Mills Theory

it has been understood that the description of nature at the

subatomic scale

requires quantum

mechanics. In

quantum me-

chanics, the

position and

velocity of a

particle are

noncommuting

operators acting

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YANG – MILLS
THEORY The

Physics of Gauge
Theory

Yang-Mills theory,
in physics, a
generalization of
Scottish physicist
James Clerk
Maxwell ' s unified
theory of
electromagnetism,

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Mills Theory as

Maxwell's equations, used to describe the weak force and the strong force in subatomic particles in terms of a geometric structure, or quantum field theory. The Yang-Mills theory relies on a quantum mechanical

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Mills Theory

property called the
“ mass gap. ”

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Yang-Mills theory |
physics | Britannica

Yang-Mills is a
strongly coupled
quantum field
theory, whose low-
energy dynamics
looks nothing at all
like the classical
theory. Our
understanding of

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Mills Theory

quantum Yang-Mills
is far from
complete, but we
will describe some

of the key ideas

from Section 2.4

onwards. A common

theme in physics is

that Nature enjoys

the rich and subtle:

the most

2. Yang-Mills

Theory - University

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Quantum Yang

of Cambridge

By the 1950 's,
when Yang-Mills
theory was

discovered, it was
already known that
the quantum
version of Maxwell
theory—known as
Quantum

Electrodynamics or
QED—gives an
extremely accurate
account of

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electromagnetic

fields and forces.

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Gauge Theory

Quantum Yang – Mills

Theory - Arthur

Jaffe

Mass in Quantum

Yang-Mills Theory.

(Comment on a

Clay Millenium

Problem) L. D.

Faddeev St.

Petersburg

Department of

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Mathematical

Institute. Among
seven problems,

proposed for XXI
century by Clay

Mathemat- ical

Institute [1], there

are two stemming
from physics. One

of them is called

” Yang-Mills

Existence and Mass

Gap ” .

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Mass in Quantum
Yang-Mills Theory
- arXiv

Quantum Yang – Mills
theory See also:

Yang – Mills theory

To establish the
existence of the
Yang-Mills theory
and a mass gap is
one of the seven
Millennium Prize
Problems of the

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Quantum Yang

Mills Mathematics

Institute. A positive estimate from

below of the mass

gap in the spectrum

of quantum Yang-

Mills Hamiltonian

has been already

established.

Quantum gauge

theory - Wikipedia

Quantum Yang-Mills

theory is now the

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foundation of most of elementary particle theory, and its predictions have been tested at many experimental laboratories, but its mathematical foundation is still unclear. The successful use of Yang-Mills theory to describe the strong interactions

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Quantum Yang

Mills elementary particles depends on a subtle quantum mechanical

property called the "mass gap": the quantum particles have positive masses, even though the classical waves travel at the speed of light.

Yang – Mills and

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Quantum Yang

Mass Gap | Clay

Mathematics

Institute

In Yang-Mills

theory, the Faraday tensor is

generalized to the curvature, F . Mathematically, the curvature is derived from the connection essentially by taking commutators of certain

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Quantum Yang

Mills differential

operators related to
the connection.

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5 An introduction to
Yang-Mills theory -

Michael Nielsen

In mathematical

physics, the

Yang – Mills

existence and mass

gap problem is an

unsolved problem

and one of the

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Mills

Prize Problems
defined by the Clay
Mathematics

Institute, which has
offered a prize of
US\$1,000,000 for
its solution. The
problem is phrased
as follows:

Yang – Mills

Existence and Mass
Gap. Prove that for
any compact simple

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Mills theory
gauge group G , a
non-trivial quantum
Yang – Mills theory
exists on \mathbb{R}^4

$\{\displaystyle$
 $\mathbb{R}^4\}$
and has a mass gap
 > 0 . Existence ...

Yang – Mills
existence and mass
gap - Wikipedia
Research video
based on the papers

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Mills Theory
arxiv:1508.06305,

arxiv:1601.04726,

arxiv:1607.07463.

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Part One (general
introduction): 0:26

- two paradigms for
understand...

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Theory in Two

Dimensions -

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The Yang-Mills

theory is,

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Mills Theory, what is known as a gauge theory based on Special Unitary Group (of degree N). Its main goal is to describe the behavior of elementary particles and is the central explanation between the electromagnetic force and the weak

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Mills Theory.

The Physics Of

What is an intuitive explanation of Yang-Mills theory? -

Quora

Sheldon Lee

Glashow. Physics /
Critical Essay / Vol.

5, No. 2. Gauge
theories are

relevant to

contemporary

physics because the

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Mills Theory of particle physics is based on a generalization of the Yang – Mills model, the first non-abelian gauge theory dealing with particle symmetries.

Furthermore, gauge interactions have a natural origin in the context of

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superstring theory.

1 The symmetries of physics may be exact, approximate, or alleged.

The Yang – Mills
Model | Articles |
Inference:

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By the 1950s, when
Yang – Mills theory
was discovered, it
was already known

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Mills Theory
that the quantum
version of Maxwell
theory – known as
Quantum

Electrodynamics or
QED – gives an
extremely accurate
account of
electromagnetic
fields and forces.

Yang-Mills theory
in nLab

Moreover, a

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derivation of the temperature – redshift relation of the CMB in deconfining SU

(2) Yang – Mills thermodynamics and its application to explaining an apparent early re-ionization of the Universe are given. Finally, a mechanism of mass generation for

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Mills Theory
cosmic neutrinos is
proposed.

The Physics Of
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The
Thermodynamics of
Quantum Yang – Mills
Theory

This caused Jaffe
and Witten, in 2000,
to propose including
Quantum Yang-Mills
Theory as one of
the seven millenium
prize questions, in

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which they indicated that QCD indeed shall be a consistent...

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Quantum Yang-Mills field theory - CORE
For quantum Yang – Mills theory with gauge group $U(N)$ the Yang – Mills measure is a probability measure specified formally

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by the expression
$$\mu g(A) = \frac{1}{2} \int_{A_0} Z g e^{-\frac{1}{2} \int_{A_0} [DA]^2}$$
, where $F_A = dA + A \wedge A$ is

the curvature of a connection form A , g is a parameter that may be viewed as a 'coupling constant', and $[DA]$ is formal Lebesgue measure on A_0 .

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