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*Deriving Yang-Mills
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(QCD) | Quantum
Field Theory
Quantum Yang-Mills
Theory in Two*

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*Dimensions Quantum
Yang-Mills theory in
two dimensions: exact
versus perturbative -
Nguyen Yang-Mills
and Mass Gap
(Millennium Prize
Problem!)*

Murray Gell-Mann -
The Yang-Mills theory
(72/200) ~~David Gross:
Millennium Prize
Problem: Yang Mills
Theory The Mass~~

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*Gap Mystery A Public
lecture: The Higgs
Boson and Yang—Mills
Theory Murray Gell-
Mann - Global
symmetry. Yang-Mill's
theory. Phil Anderson
(85/200) Unsolved:
Yang-Mills existence
and mass gap*

Super Yang-Mills vs
Loop Quantum

Gravity : The Same
Bloody Thing **Witten**

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talk on the mass gap

problem in 3D

quantum Yang-Mills

theory Your Mass is

NOT From the Higgs

Boson

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The problem in Good

Will Hunting -

Numberphile**The**

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Simplest Impossible

Problem Gödel's

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Theorem -

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Flow - Numberphile A

New Look At The

Path Integral Of

Quantum Mechanics |

Edward Witten

Murray Gell-Mann -

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Fermi (37/200) Why

Everything You

Thought You Knew

About Quantum

Physics is Different

with Philip Ball The

First Quantum Field

Theory | Space Time

Yang-Mills 1 Aaron

Naber - Introduction

to Yang Mills Theory

1 [2017] **Zohar**

Komargodski | The

long-distance

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physics of Yang-

Mills theory in 2+1

Dimensions *Lorenzo*

Sadun on the \"Yang-

Mills and Mass Gap\"

Millenium problem

~~Anthony Zee - Some~~

~~Thoughts about Yang~~

~~Mills Theory (Day 1)~~

Quantum

Mathematics and the

Fate of Space, Time

and Matter - Robbert

Dijkgraaf ?????? ??????

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????????????

?????? - Yang-Mills
theory Quantum Yang
Mills 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

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Yang-Mills elementary particles using 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 Model of

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particle physics.

*Yang–Mills theory -
Wikipedia*

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YANG–MILLS

THEORY ARTHUR

JAFFE AND

EDWARD WITTEN 1.

The Physics of Gauge

Theory Since the

early part of the 20th

century, it has been

understood that the

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descrip-tion 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

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of Gauge Theory

Yang-Mills theory, in physics, a

generalization of

Scottish physicist

James Clerk Maxwell

's unified theory of

electromagnetism,

also known as

Maxwell's equations,

used to describe the

weak force and the

strong force in

subatomic particles in

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terms of a geometric structure, or quantum field theory. The Yang-Mills theory relies on a quantum mechanical property called the “mass gap.”

Yang-Mills theory | physics | Britannica

Yang-Mills is a strongly coupled quantum field theory,

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whose low-energy dynamics looks nothing at all like the classical theory. Our understanding of 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

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2. *Yang-Mills Theory -
University 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

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extremely accurate
account of
electromagnetic fields
and forces.

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 Steklov

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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".

Mass in Quantum

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*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
Clay Mathematics

Institute. A positive
estimate from below

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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 foundation of most of elementary particle theory, and its predictions have been

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Yang-Mills theory has 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 of elementary particles depends on a subtle quantum mechanical property called the

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

Yang–Mills and Mass Gap | Clay

Mathematics Institute

In Yang-Mills theory, the Faraday tensor is generalized to the curvature, F . Math-

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ematically, the

curvature is derived from the connection essentially by taking commu-tators of certain di?erential operators related to the connection.

5 An introduction to Yang-Mills theory - Michael Nielsen

In mathematical physics, the

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Yang–Mills existence and mass gap problem is an unsolved problem and one of the seven Millennium 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

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Yang–Mills theory. Prove that for any compact simple gauge group G , a non-trivial quantum Yang–Mills theory exists on \mathbb{R}^4 and has a mass gap $\mu > 0$.
Existence ...

Yang–Mills existence and mass gap -

Wikipedia

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Research video

based on the papers

arxiv:1508.06305,

arxiv:1601.04726,

arxiv:1607.07463.

Part One (general

introduction): 0:26 -

two paradigms for

understand...

Quantum Yang-Mills

Theory in Two

Dimensions -

YouTube

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The Yang-Mills theory is, specifically, 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 nuclear

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*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
standard theory of
particle physics is

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Yang Mills

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 superstring theory. 1 The symmetries of physics may be exact,

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approximate, or
alleged.

Theory The

Physics Of

*The Yang–Mills Model
| Articles | Inference:
International ...*

By the 1950s, when
Yang–Mills theory
was discovered, it
was already known
that the quantum
version of Maxwell
theory – known as
Quantum

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

*Yang-Mills theory in
nLab*

Moreover, a
derivation of the
temperature–redshift
relation of the CMB in
deconfining SU (2)

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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 cosmic neutrinos is proposed.

*The Thermodynamics
of Quantum*

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

Quantum Yang-Mills

Theory | Request

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Quantum Yang-Mills field theory - CORE

For quantum

Yang–Mills theory

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with gauge group

$U(N)$ the Yang–Mills

measure is a

probability measure

specified formally by

the expression $d\mu_g(A)$

$= \int \mathcal{Z} g e^{-\frac{1}{2} g^2 \int F_A^2} [$

$DA]$, 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’,

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Yang-Mills
and [DA]is formal
Lebesgue measure
on A_0 .
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