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In these lecture notes, an introduction to superstring theory is presented. Classical strings, covariant and light-cone quantization, supersymmetric strings, anomaly cancelation, compactification, T-duality, supersymmetry breaking, and threshold corrections to low-energy couplings are discussed. A brief introduction to non-

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perturbative duality symmetries is also included.

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A brief introduction to non-perturbative duality symmetries is also included. In these lecture notes, an introduction to superstring theory is presented. Classical strings, covariant and light-cone quantization,

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supersymmetric strings, anomaly cancelation, compactification, T-duality, supersymmetry breaking, and threshold corrections to low-energy couplings are discussed.

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2005101520. Abstract:
In these lecture notes,
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strings, anomaly
cancelation,
compactification, T-
duality,
supersymmetry
breaking, and
threshold corrections
to low-energy
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Introduction to non-
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symmetries is also
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Superstring theory is
an attempt to explain
all of the particles and

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fundamental forces of nature in one theory by modeling them as vibrations of tiny supersymmetric strings. 'Superstring theory' is a shorthand for supersymmetric string theory

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Introduction To
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In these lecture notes, an introduction to superstring theory is presented. Classical strings, covariant and light-cone quantization, supersymmetric strings, anomaly cancelation, compactification, T-duality, supersymmetry

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breaking, and threshold corrections to low-energy couplings are discussed. A brief introduction to non-

**arXiv:hep-
th/9709062v2 30
Mar 1998**

The purpose is to convey a general sense of what string theory is and what it has achieved. Since the characteristic scale of string theory is

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expected to be close to the Planck scale, the structure of strings probably cannot be probed directly in accelerator experiments.

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Superstring theory is an attempt to explain all of the particles and fundamental forces of nature in one theory by modeling them as

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vibrations of tiny supersymmetric strings. 'Superstring theory' is a shorthand for supersymmetric string theory because unlike bosonic string theory, it is the version of string theory that accounts for both fermions and bosons and incorporates supersymmetry to ...

Superstring theory - Wikipedia

M-Theory (Becker,
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To Superstring
Theory (Becker and Schwarz),
Introduction to String
Theory (Polchinski),
String Theory in a
Nutshell (McMahon)
and Superstring Theory
(Green, Schwarz and
Witten), along with the
lecture notes of David
Tong, sometimes word-
for-word. Contents 1.
Introduction/Overview
5 1.1 Motivation for
String Theory 5

An Introduction to String Theory

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In these lecture notes, an introduction to superstring theory is presented. Classical strings, covariant and light-cone quantization, supersymmetric strings, anomaly cancelation, compactification, T-duality, supersymmetry breaking, and threshold corrections to low-energy couplings are discussed.

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**Introduction to
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Authors: E. Kiritsis
(CERN) Download PDF.

Abstract: In these lecture notes, an introduction to superstring theory is presented. Classical strings, covariant and light-cone quantization, supersymmetric strings, anomaly cancelation, compactification, T-

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duality, supersymmetry breaking, and threshold corrections to low-energy couplings are discussed. A brief introduction to non-perturbative duality symmetries is also included.

[hep-th/9709062]
**Introduction to
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Supersymmetry is part
of superstring theory, a

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string theory of quantum gravity, although it could in theory be a component of other quantum gravity theories as well, such as loop quantum gravity. For superstring theory to be consistent, supersymmetry seems to be required at some level (although it may be a strongly broken symmetry).

Supersymmetry -

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In the summer of 1968, while a visitor in CERN's theory division, theoretical physicist Gabriele Veneziano wrote a paper titled "Construction of a crossing-symmetric, Regge behaved amplitude for linearly-rising trajectories". He was trying to explain the strong interaction, but his paper wound up marking the beginning of string theory.

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**Untangling the
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part of from the planck
scale to the weak
scale: toward a theory
of the universe.

proceedings,
theoretical advanced
study institute in
elementary particle
physics, santa cruz,
usa, june 23 - july 18,
1986. vol.1+2

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**STRING AND
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Video/text: String
theory for pedestrians:

Description: By
Constantin Bachas,
2009. This is a non-
technical rapid course
on string theory.

Lecture 1 is an
introduction to the
basics of the subject:
classical and quantum
strings, D-branes and
string-string dualities.

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Video Lectures on String Theory from CERN | Physics ...

General description of the course. Quantum computing is one the most promising new trends in information processing. In this course, we will introduce from scratch the basic concepts of the quantum circuit model (qubits, gates and measures) and use them to study some of

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the most important quantum algorithms and protocols, including those that can be implemented with a few qubits (BB84, quantum ...

A practical introduction to quantum computing ... - home.cern

Superstring theory is based on three key ideas that remain experimentally unproven after 30

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years of research: the principle of supersymmetry, additional spatial dimensions, and gravity as a...

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