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The starting point of String Theory is

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the assumption that the basic objects have a one-dimensional extension, that they are like small pieces of rope. This principle allows two kinds of fundamental objects: open and closed strings. When such objects move through space they sweep out ribbons or cylinders. Particle Open

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string Closed string t

Introduction to String Theory - Nikhef  
Introduction to String Theory A.N.  
Schellekens Based on lectures given  
at the Radboud Universiteit,  
Nijmegen [Word cloud by  
[www.worldle.net](http://www.worldle.net)] These notes follow

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rather closely the course given in the fall semester of 1999. They are based to a large extent on the books by Green, Schwarz and Witten, [1], the book

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An Introduction to String Theory

Kevin Wray Abstract: This set of notes is based on the course “ Introduction to String Theory ” which was taught by Prof. Kostas Skenderis in the spring of 2009 at the University of

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Amsterdam. We have also drawn on some ideas from the books String Theory and

An Introduction to String Theory  
Introduction to String Theory Chapter  
0 ETH Zurich, HS13 Prof. N. Beisert, Dr.  
J. Br odel 22.12.2013 0 Overview



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String theory is an attempt to quantise gravity and unite it with the other fundamental forces of nature. It combines many interesting topics of (quantum) field theory in two and higher dimensions. This course gives an introduction to the

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Lecture at the International School on  
Strings and Fundamental Physics 10  
held at LMU Munich, Jul25-Aug06,  
2010. Event website:  
<http://www.theorie.physik.uni...>

Neil Lambert - Introduction to String

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Theory, Part 1 - YouTube

Title: Introduction to String Theory.

Authors: Thomas Mohaupt. Download

PDF Abstract: We give a pedagogical introduction to string theory, D-branes and p-brane solutions.

Comments: Lecture Notes, 78 pages:

Subjects: High Energy Physics -

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Theory (hep-th) Journal reference:  
Lect.Notes Phys.631:173-251,2003:

[hep-th/0207249] Introduction to  
String Theory

1 Introduction String theory is hoped  
to be a consistent theory of quantum  
gravity, with the special feature that it

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strongly constrains the matter it can couple to. Although direct experimental tests of new predictions seem out of reach for the moment, it can at least be tested

NIKHEF/2004-015 - arXiv

string. theory Historically the most

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important input came from statistical mechanics, mechanics where it described and classified critical phenomena. Mainly after 1984 the subject went through a period of rapid development because its importance for string theory. In addition there has been important input from

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mathematics, in particular through

This book takes a unique approach to information retrieval by laying down the foundations for a modern algebra of information retrieval based on

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lattice theory. All major retrieval methods developed so far are described in detail, along with Web retrieval algorithms, and the author shows that they all can be treated elegantly in a unified formal way, using lattice theory as the one basic concept. The book 's presentation is



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characterized by an engineering-like approach.

The purpose of this book is to thoroughly prepare the reader for research in string theory at an intermediate level. As such it is not a compendium of results but intended

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as textbook in the sense that most of the material is organized in a pedagogical and self-contained fashion. Beyond the basics, a number of more advanced topics are introduced, such as conformal field theory, superstrings and string dualities - the text does not cover

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applications to black hole physics and cosmology, nor strings theory at finite temperatures. End-of-chapter references have been added to guide the reader wishing to pursue further studies or to start research in well-defined topics covered by this book.

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This book presents a string-theoretic approach to new ideas in particle physics, also known as Physics Beyond the Standard Model, and to cosmology. The concept of Naturalness and its apparent violation by the low electroweak scale and the small cosmological constant

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is emphasized. It is shown that string theory, through its multitude of solutions, known as the landscape, offers a partial resolution to these naturalness problems as well as suggesting more speculative possibilities like that of a multiverse. The book is based on a one-semester

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course, as such, it has a pedagogical approach, is self-contained and includes many exercises with solutions. Notably, the basics of string theory are introduced as part of the lectures. These notes are aimed at graduate students with a solid background in quantum field theory,

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as well as at young researchers from theoretical particle physics to mathematical physics. This text also benefits students who are in the process of studying string theory at a deeper level. In this case, the volume serves as additional reading beyond a formal string theory course.

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This textbook provides an introduction to string field theory (SFT). String theory is usually formulated in the worldsheet formalism, which describes a single string (first-quantization). While this approach is intuitive and could be



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pushed far due to the exceptional properties of two-dimensional theories, it becomes cumbersome for some questions or even fails at a more fundamental level. These motivations have led to the development of SFT, a description of string theory using the field theory

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formalism (second-quantization). As a field theory, SFT provides a rigorous and constructive formulation of string theory. The main focus of the book is the construction of the closed bosonic SFT. The accent is put on providing the reader with the foundations, conceptual

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understanding and intuition of what SFT is. After reading this book, the reader is able to study the applications from the literature. The book is organized in two parts. The first part reviews the notions of the worldsheet theory that are necessary to build SFT (worldsheet path

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integral, CFT and BRST quantization). The second part starts by introducing general concepts of SFT from the BRST quantization. Then, it introduces off-shell string amplitudes before providing a Feynman diagrams interpretation from which the building blocks of SFT are extracted.

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After constructing the closed SFT, the author outlines the proofs of several important properties such as background independence, unitarity and crossing symmetry. Finally, the generalization to the superstring is also discussed.

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String theory is one of the most active branches of theoretical physics and has the potential to provide a unified description of all known particles and interactions. This book is a systematic introduction to the subject, focused on the detailed description of how string theory is connected to the real

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world of particle physics. Aimed at graduate students and researchers working in high energy physics, it provides explicit models of physics beyond the Standard Model. No prior knowledge of string theory is required as all necessary material is provided in the introductory

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chapters. The book provides particle phenomenologists with the information needed to understand string theory model building and describes in detail several alternative approaches to model building, such as heterotic string compactifications, intersecting D-brane models, D-



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branes at singularities and F-theory.

Physicists argue from different perspectives for and against the idea of the existence of multiple universes.

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This book provides a comprehensive overview of modern particle physics accessible to anyone with a true passion for wanting to know how the universe works. We are introduced to the known particles of the world we

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live in. An elegant explanation of quantum mechanics and relativity paves the way for an understanding of the laws that govern particle physics. These laws are put into action in the world of accelerators, colliders and detectors found at institutions such as CERN and

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Fermilab that are in the forefront of technical innovation. Real world and theory meet using Feynman diagrams to solve the problems of infinities and deduce the need for the Higgs boson. Facts and Mysteries in Elementary Particle Physics offers an incredible insight from an eyewitness and

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participant in some of the greatest discoveries in 20th century science. From Einstein's theory of relativity to the spectacular discovery of the Higgs particle, this book will fascinate and educate anyone interested in the world of quarks, leptons and gauge theories. This book also contains

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many thumbnail sketches of particle physics personalities, including contemporaries as seen through the eyes of the author. Illustrated with pictures, these candid sketches present rare, perceptive views of the characters that populate the field. The Chapter on Particle Theory, in a

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pre-publication, was termed  
"superbly lucid" by David Miller in  
Nature (Vol. 396, 17 Dec. 1998, p.  
642). Contents:

Introduction Preliminaries The  
Standard Model Quantum Mechanics.  
Mixing Energy, Momentum and Mass-  
Shell Detection Accelerators and

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Storage Rings  
The CERN Neutrino Experiment  
The Particle Zoo  
Particle Theory  
Finding the Higgs  
Quantum Chromodynamics  
Epilogue  
Addendum  
Readership: Students, lay people and anyone interested in the world of elementary particles. Keywords: Particle Physics; Quantum Mechanics;



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Relativity;Quarks;Leptons;Gauge  
Theories;Higgs Particle  
Review:  
Reviews of the First Edition:

"Veltman's life spans the history of particle physics, from Antiparticles to Z bosons. So does his crystal clear book, which tells all you want to know about the strange sub-nuclear

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world and the stranger scientists that study it ... a thrilling tale about the world's tiniest things." Sheldon Glashow Nobel laureate Boston University "I must congratulate you! The book you have written is truly a masterpiece. Not only have you explained the physics of the world of

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elementary particles to the young aspiring student, but you have made it available to the intelligent layman. On top of that you gave it the humanity it deserves; reading this book brought me back to the most exciting period of my life in which every day brought a new discovery

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and we all fought for recognition. I can truly say that there is no book like this." Melvin Schwartz Nobel laureate Columbia University "Veltman's ... transparent explanations of the abstract theories of quantum mechanics and special relativity, his lucid accounts of esoteric subjects in

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particle physics, such as scaling, Higgs particle and renormalizability ... are very impressive. The book will interest anyone who is interested in the view of the physical world held by contemporary fundamental physicists." T Y Cao Boston University  
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book that goes into the details I always wanted ... Veltman has the courage to try a deeper level about what we understand and what is simply fact ... Even if you have read books popularizing physics before

This is the sixth volume in a series of

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books on the general topics of supersymmetry, supergravity, black holes and the attractor mechanism. The present volume is based upon lectures held in May 2011 at the INFN-Laboratori Nazionali di Frascati School on Black Objects in Supergravity (BOSS2011), directed by

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Stefano Bellucci, with the participation of prestigious lecturers, including G. Lopes Cardoso, W. Chemissany, T. Ortin, J. Perz, O. Vaughan, D. Turton, L. Lusanna and S. Ferrara. All lectures were at a pedagogical, introductory level, a feature which is reflected in the



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specific "flavor" of this volume, which also benefited greatly from extensive discussions and related reworking of the various contributions.

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