

## Strings Branes And Dualities Proceedings Of The Nato Advanced Study Institute Carg Se France May

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### Strings Branes And Dualities Proceedings

Gauged sigma-models and dualities. This figure depicts the duality relations between the Type IIA branes obtained by reduction of the MKK-monopole and M9-brane and other branes in Type IIB.

### (PDF) Brane Actions and String Dualities

A large fraction of the volume is devoted to the current state of the art in M-theory, in particular its underlying superalgebra as well as its connection with superstring and N = 2 strings. The physics of D-branes and its essential role in the beautiful computation of the black hole entropy is also carefully covered.

### Strings, Branes and Dualities | SpringerLink

Strings, Branes and Gravity. Many of the topics in this book are outgrowths of the spectacular new understanding of duality in string theory which emerged around 1995. They include the AdS/CFT correspondence and its relation to holography, the matrix theory formulation of M theory, the structure of black holes in string theory, the structure of D-branes and M-branes, and detailed development of dualities with N = 1 and N = 2 supersymmetry.

### Strings, Branes and Gravity - World Scientific

Chung Hwang " Dualities of quantum field theories in various dimensions " In this talk, I introduce a new family of 4d N = 1 theories, called Ept[USp(2N)], which exhibit a novel type of 4d IR duality very reminiscent of the mirror duality enjoyed by the 3d N = 4 Tpo[SU(N)] theories.

### APCTP - Strings, Branes and Gauge Theories

Strings, Branes and Dualities. [Laurent Baulieu; Philippe Francesco; Michael Douglas; Vladimir Kazakov; Marco Picco; Paul Windey] -- As recent developments have shown, supersymmetric quantum field theory and string theory are intimately related, with advances in one area often shedding light on the other.

### Strings, Branes and Dualities (eBook, 1999) [WorldCat.org]

Conebrane Dualities • To reduce the number of supersymmetries in AdS/CFT, we may place the stack of N D3-branes at the tip of a 6-d Ricci-flat cone X whose base is a 5-d Einstein space Y: • Taking the near-horizon limit of the background created by the N D3-branes, we find the space AdS 5 x Y, with N units of RR 5-form flux, whose radius is ...

### D-Branes on Cones and Gauge/String Dualities

Strings 2001: Proceedings of the Strings 2001 Conference, Tata Institute of Fundamental Research, Mumbai, India, January 5-10, 2001. .... Individual articles discuss the study of D-branes, black holes, string dualities, compactifications, Calabi-Yau manifolds, conformal field theory, noncommutative field theory, string field theory, and string ...

### Strings 2001: Proceedings of the Strings 2001 Conference ...

The movement of the string center (and hence its momentum) is related to the sum of the fields, while the string stretch (and hence its winding number) is related to their difference. T-duality can be formally described by taking the left-moving field to minus itself, so that the sum and the difference are interchanged, leading to switching of momentum and winding.

### String duality - Wikipedia

The past year has seen enormous progress in string theory. It has become clear that all of the different string theories are different limits of a single theory. More-over, in certain limits, one obtains a new, eleven-dimensional structure known as M-theory. Strings with unusual boundary conditions, known as D-branes, turn

### STRING THEORY DUALITIES - scipp.ucsc.edu

In string theory, D-branes, short for Dirichlet membrane, are a class of extended objects upon which open strings can end with Dirichlet boundary conditions, after which they are named. D-branes were discovered by Dai, Leigh and Polchinski, and independently by Hofava, in 1989. In 1995, Polchinski identified D-branes with black p-brane solutions of supergravity, a discovery that triggered the Second Superstring Revolution and led to both holographic and M-theory dualities. D-branes are ...

### D-brane - Wikipedia

Strings, Branes and Dualities. Editors: Baulieu, L., Di Francesco, P., Douglas, M., Kazakov, V., Picco, M .. Windey, P ... In particular its underlying superalgebra as well as its connection with superstring and N = 2 strings. The physics of D-branes and its essential role in the beautiful computation of the black hole entropy is also carefully ...

### Strings, Branes and Dualities | L. Baulieu | Springer

Abstract. Abstract: We present a brief background on perturbative string theory, D-branes and the gauge theory on their worldvolume, solitonic NS5-branes and Little String Theory (LST) in their vicinity, and the holographic dualities relating strings propagating in the near horizon of such branes to theories without gravity, such as gauge theory or LST.

### International Europhysics Conference on HEP PROCEEDINGS ...

In the fruitful interplay between gauge fields and strings and in many conjectured M-theory dualities, open strings play a prominent role. We review the construction of open-string descendants (un-orientifolds) of closed-string theories admitting a generalized orientation reversal involution. We then specialize the construction to some classes of non-supersymmetric models in D=10 that have ...

### Open Strings and Dualities - NASA/ADS

In particular, the framework allows discussion of strings and branes directly at the quantum level. Written by internationally renowned experts, this comprehensive introduction to boundary conformal field theory reaches from theoretical foundations to recent developments, with an emphasis on the algebraic treatment of string backgrounds.

### [PDF] boundary conformal field theory and the worldsheet ...

This book provides a concise introduction to string theory explaining central concepts, mathematical tools and covering recent developments in physics including compactifications and gauge/string dualities. With string theory being a multidisciplinary field interfacing with high energy physics, mathematics and quantum field theory, this book is ...

### A Primer on String Theory by Volker Schomerus

The worldvolume theory on a stack of N D2-branes is the string field theory of the open strings of the A-model, which is a U(N) Chern-Simons theory. The fundamental topological strings may end on the D2-branes. While the embedding of a string depends only on the Kähler form, the embeddings of the branes depends entirely on the complex structure.

### Topological string theory - Wikipedia

Cumrun Vafa Motivated by string dualities we propose topological gravity as the early phase of our universe. The topological nature of this phase naturally leads to the explanation of many of the...

### Cumrun Vafa's research works | Harvard University, MA ...

This review is devoted to strings and branes. Firstly, perturbative string theory is introduced. The appearance of various types of branes is discussed. These include orbifold fixed planes, D-branes and orientifold planes. The connection to BPS vacua of supergravity is presented afterwards. As applications, we outline the role of branes in string dualities, field theory dualities, the AdS/CFT ...

### Strings, Branes and Extra Dimensions - NASA/ADS

D-branes having electric as well as magnetic eld and the di erent dualities in string theories. In ten dimensions, there exist ve consistent string theories and in eleven

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