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In string theory, D-branes,
short for Dirichlet
membrane, are a class of
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open strings can end with
Dirichlet boundary
conditions, after which they
are named. D-branes were
discovered by Dai, Leigh and
Polchinski, and

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Independently by Hořava, 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 ...

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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. In addition, there are lectures covering experimental and phenomenological aspects of the Standard Model and its extensions, and discussions on cosmology including both theoretical aspects and the exciting new experimental evidence for a non-zero

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TASI Lectures on the Holographic Principle (D Bigatti & L Susskind)

Readership: Graduate students, postdoctoral fellows and researchers in high energy physics. Keywords: Strings; Branes; Gravity; Black Holes; Supersymmetry; Cosmology; Matrix Theory; Compactification; Duality; Geometry; Warped

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timely collections of TASI lectures. For the community at large, it provides a detailed and technical introduction to many of the fascinating and promising ideas currently in vogue in string theory and formal particle physics."Contemporary Physics

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Bridge by Duality (Y Kim et al.) Tensionless Gravitational String in $D=6$, $N=1$ Heterotic String Vacua (N Kim et al.) Quantum Ergoregion Instability (G Kang) Readership: High energy physicists. Keywords:

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. The organising ideas of most of these advances are the notion of duality and the physics of higher

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dimensional objects or p-branes. The topics covered in the present volume include duality in field theory, in particular in supersymmetric field theory and supergravity, and in string theory. The Seiberg-Witten theory and its recent developments are also covered in detail. 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

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carefully covered. Finally, the last two sets of lectures are devoted to the exciting matrix approach to non-perturbative string theory.

This book is a collection of lecture notes/contributions from a summer school on decoherence, entanglement & entropy and a workshop on MPS (matrix product states) & DMRG (density matrix renormalization group). Subjects of the summer school include introduction to MPS, black holes, qubits and octonions, weak measurement, entanglement

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measures and separability, generalized Bell inequalities, among others. Subjects of the workshop are dedicated to MPS and DMRG. Applications to strongly correlated systems and integrable systems are also mentioned. Contributions to this book are prepared in a self-contained manner so that a reader with a modest background in quantum information and quantum computing may understand the subjects. Contents: Summer School on Decoherence, Entanglement and Entropy: Black Holes and Qubits (L Borsten, M J Duff and W Rubens) Weak Value with Decoherence (A

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to advanced undergraduate
students. Keywords: Quantum I
nformation; Decoherence; Entan
glement; Entropy; Matrix
Product State; Density Matrix
Renormalization Group; Black
Hole; Quantum Algorithm

This book covers some recent
advances in string theory
and extra dimensions.
Intended mainly for advanced
graduate students in
theoretical physics, it

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presents a rare combination of formal and phenomenological topics, based on the annual lectures given at the School of the Theoretical Advanced Study Institute (2001) – a traditional event that brings together graduate students in high energy physics for an intensive course of advanced learning. The lecturers in the School are leaders in their fields. The first lecture, by E D'Hoker and D Freedman, is a systematic introduction to the gauge-gravity correspondence, focusing in particular on correlation functions in the conformal case. The second, by L

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Dolan, provides an introduction to perturbative string theory, including recent advances on backgrounds involving Ramond-Ramond fluxes. The third, by S Gubser, explains some of the basic facts about special holonomy and its uses in string theory and M-theory. The fourth, by J Hewett, surveys the TeV phenomenology of theories with large extra dimensions. The fifth, by G Kane, presents the case for supersymmetry at the weak scale and some of its likely experimental consequences. The sixth, by A Liddle, surveys recent developments in cosmology, particularly

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with regard to recent measurements of the CMB and constraints on inflation. The seventh, by B Ovrut, presents the basic features of heterotic M-theory, including constructions that contain the Standard Model. The eighth, by K Rajagopal, explains the recent advances in understanding QCD at low temperatures and high densities in terms of color superconductivity. The ninth, by M Sher, summarizes grand unified theories and baryogenesis, including discussions of supersymmetry breaking and the Standard Model Higgs mechanism. The tenth, by M Spiropulu, describes collider physics,

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from a survey of current and future machines to examples of data analyses relevant to theories beyond the Standard Model. The eleventh, by M Strassler, is an introduction to supersymmetric gauge theory, focusing on Wilsonian renormalization and analogies between three- and four-dimensional theories. The twelfth, by W Taylor and B Zwiebach, introduces string field theory and discusses recent advances in understanding open string tachyon condensation. The thirteenth, by D Waldram, discusses explicit model building in heterotic M-theory, emphasizing the role

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of the E8 gauge fields. The written presentation of these lectures is detailed yet straightforward, and they will be of use to both students and experienced researchers in high-energy theoretical physics for years to come. The proceedings have been selected for coverage in: • Index to Scientific & Technical Proceedings (ISTP CDROM version / ISI Proceedings) • CC Proceedings – Engineering & Physical Sciences
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energy physics, mathematical
physics and astrophysics.
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Some topics covered during
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Brandenberger) and other papers. Readership: High energy physicists and mathematical physicists.

Entrepreneurs are now internationalising, and many more are likely to internationalise in the future. Yet, most small firms expand in an opportunistic fashion, because entrepreneurs seldom have the time and resources to gather reliable data about opportunities in foreign countries. Leo-Paul Dana has conducted extensive international field research with a view to compiling key information on the business environment throughout

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Pacific Asia. Thus, the book is not just another "how to" guide. It reflects what is happening in an important region of our global economy. With this book, businessmen and business analysts, investors, academics and business students will gain invaluable insights into the conditions and opportunities for enterprise in these countries in this region.

Affine flag manifolds are infinite dimensional versions of familiar objects such as Graßmann varieties. The book features lecture notes, survey articles, and research notes - based on

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workshops held in Berlin, Essen, and Madrid - explaining the significance of these and related objects (such as double affine Hecke algebras and affine Springer fibers) in representation theory (e.g., the theory of symmetric polynomials), arithmetic geometry (e.g., the fundamental lemma in the Langlands program), and algebraic geometry (e.g., affine flag manifolds as parameter spaces for principal bundles). Novel aspects of the theory of principal bundles on algebraic varieties are also studied in the book.

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