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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-  
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Strings, Branes and Dualities. Editors: Baulieu, L., Di Francesco, P., Douglas, M., Kazakov, V., Picco, M., Windey, P. (Eds.) Usually dispatched within 3 to 5 business days. Usually dispatched within 3 to 5 business days. 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.

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

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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 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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D-brane - Wikipedia

Strings, Branes and Dualities (NATO Science Series C: (closed))  
Published by Springer, 1998. ISBN 10: 0792353447 / ISBN 13:  
9780792353447. ... organising ideas of most of these advances are the  
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Contents: Lectures: Supermembranes: An Introduction (M J Duff) An  
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Bound States, Supermembranes, and T-Duality in M Theory (J G  
Russo) D=6, N=1 String Vacua and Duality (L E Ibáñez & A M Uranga) Flat  
Symplectic Bundles of N-Extended Supergravities, Central Charges and  
Black-Hole Entropy (S Ferrara et al.) Black Hole Thermodynamics and  
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Supersymmetric Gauge Theories (K Ito) Field Theory on Coadjoint Orbit

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and Self-Dual Chern-Simons Solitons (P Oh) Cohomological Yang-Mills Theory in Eight Dimensions (H Kanno et al.) Charged BTZ Black Hole as a Global Vortex in Anti-de Sitter Space-Time: A 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 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 carefully covered. Finally, the last two sets of lectures are devoted to the exciting matrix approach to non-perturbative string theory.

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. 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 cosmological constant. Contents: TASI Lectures on Branes, Black Holes and Anti-De Sitter Space (M J Duff) D-Brane Primer (C V Johnson) TASI Lectures on Black Holes in String Theory (A W Peet) TASI Lectures: Cosmology for String Theorists (S M Carroll) TASI Lectures on Matrix Theory (T Banks) TASI Lectures on M Theory Phenomenology (M Dine) TASI Lectures: Introduction to the AdS/CFT Correspondence (I R Klebanov) TASI Lectures on Compactification and Duality (D R Morrison) Compactification, Geometry and Duality:  $N=2$  (P S Aspinwall) TASI Lectures on Non-BPS D-Brane Systems (J H Schwarz) Lectures on Warped Compactifications and Stringy Brane Constructions (S Kachru) 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 Compactifications; Holographic Principle  
Reviews: "For those in the field, the volume is an excellent addition to the line of perennially

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useful and 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

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 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 Hosoya)Lectures on Matrix Product Representation of States (V Karimipour and M Asoudeh)On a Possible Definition of Entanglement in Antisymmetric States (T Ichikawa, T Sasaki and I Tsutsui)Entanglement Measures for Intermediate Separability (T Sasaki, T Ichikawa and I Tsutsui)Unruh Effect on Quantum Teleportation and Entanglement: Implications on Black Hole Information (K Shiokawa)Systematic Construction of Generalized Bell Inequalities (S Tanimura)On 3-Variable Exponential Polynomials and Quantum Algorithms (Y Ohno, Y Sasaki and C Yamazaki)Workshop on Matrix Product State Formulation and Density Matrix Renormalization Group Simulations (MPS&DMRG):Application of Density Matrix Renormalization Group Method to Photoinduced Phenomena in Strongly Correlated Electron Systems (H Matsueda)Density-Matrix Renormalization Group Method for Tomonaga-Luttinger Liquid (T Hikihara)Supersymmetric Valence-Bond Solid Models – Hidden Order and Dynamics (K Totsuka and K Hasebe)Matrix Product States in Quantum Integrable Models (H Katsura and I Maruyama)A Systematic Way to Find and Construct Exact Finite Dimensional Matrix-Product Stationary States (Y Hieida and T Sasamoto) Readership: Graduate students and researchers in physics, mathematics, informatics and computer science. Accessible to advanced undergraduate students. Keywords:Quantum Information;Decoherence;Entanglement;Entropy;Matrix Product State;Density Matrix Renormalization Group;Black Hole;Quantum Algorithm

Some topics covered during the workshop include String Theory, Conformal Field Theory, Physics in 2+1 Dimensions, String Phenomenology and Quantum Cosmology. Contents:Non-Perturbative String Theory (D J Gross)Random Superstrings (W Siegel)The BRST Cohomology of an  $N = 1$  Superparticle (M Green and C M Hull)Singularities in String Theory (G T Horowitz)Thermal Properties of Open Strings in Lower Dimensions (L Clavelli)Super-W Algebras and Generalized Super-KdV Equations (T Inami)Fermionic Conformal Field Theory (L Dolan)Moduli

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Space of Calabi-Yau Manifolds (P Candelas and X C de la Ossa)Cosmology as a Probe of (Almost) Planck Scale Physics (R M Brandenberger)and other papers Readership: High energy physicists and mathematical physicists.

Detailed exposition of automorphic representations and their relation to string theory, for mathematicians and theoretical physicists.

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 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.

Essential reading for all mathematical physicists as a systematic book on this crucial subject.

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