

## Barton Zwiebach String Theory Solutions

Aspects of Time-dependent Solutions of String Theory String Theory Classical Gravity Solutions in String Theory An Introduction to String Theory and D-brane Dynamics Gravity and Strings Warped Throat Solutions in String Theory and Their Cosmological Applications Event Solutions A Black Hole Quartet Non-supersymmetric Solutions of String Theory U-duality and Non-geometric Solutions in String Theory On Solutions to the String Theory Charged Stringlike Solutions of Low-energy Heterotic String Theory  $AdS_{1+n} \times S_{1+n}$  Solutions of Type IIB String Theory Strings '90 - Proceedings Of The 4th International Superstring Workshop Aspects of Plane Waves and Taub-NUT as Exact String Theory Solutions New Solutions with Accelerated Expansion in String Theory Physics Letters Superstrings '88 Superstrings Cosmological Solutions with Dilaton and Maximally Symmetric Space in String Theory Michal Fabinger Domenico Orlando Candice Lee Kent Richard J. Szabo Tom Ort Anatoly Dymarsky Megha Padi Stefano Massai Valerio Casconi Albert Schwarz Daniel John Waldram Aristomenis Donos Michael James Duff Harald Georg Svendsen Michael B. Green A. A. Tseytlin

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this invaluable book provides a quick introduction to the rudiments of perturbative string theory and a detailed introduction to the more current topic of d brane dynamics the presentation is very pedagogical with much of the technical detail streamlined the rapid but highly coherent introduction to the subject is perhaps what distinguishes this book from other string theory or d brane books this second edition includes an additional appendix with solutions to the exercises thus expanding on some of the technical material and making the book more appealing for use in lecture courses the material is based on mini courses in theoretical high energy physics delivered by the author at various summer schools so its actual level has been appropriately tested

one appealing feature of string theory is that it provides a theory of quantum gravity gravity and strings is a self contained pedagogical exposition of this theory its foundations and its basic results in part i the foundations are traced back to the very early special relativistic field theories of gravity showing how such theories lead to general relativity gauge theories of gravity are then discussed and used to introduce supergravity theories in part ii some of the most interesting solutions of general relativity and its generalizations are studied the final part presents and studies string theory from the effective action point of view using the results found earlier in the book as background this 2004 book will be useful as a reference book for graduate students and researchers as well as a complementary textbook for courses on gravity supergravity and string theory

this thesis is devoted to a study of certain examples of gauge string duality related to warped throat backgrounds in string theory namely we consider a family of iib sugra solutions dual to a moduli space of certain cascading  $n+1$  gauge theory this theory exhibits rich low energy behavior including chiral symmetry breaking and confinement the first part of this thesis is focused on the gravity dual description of these phenomena in particular we discuss string theory description of the continuous gauge theory moduli space evaluate the tension of

bps domain wall and calculate baryonic condensates the second part of the thesis is devoted to the embedding of the warped throat backgrounds into flux compactifications to this end we calculate the nonperturbative superpotential of the d3 d7 system on warped conic geometries this superpotential plays an important role in fixing kahler moduli and is an important ingredient in constructing consistent compactification scenarios in the last part of the thesis we apply this superpotential to a particular cosmological inflation scenario based on the dynamics of a d3 brane moving along the throat we conclude that the realization of stringy inflation within this scenario is possible only around an inflection point of the potential and requires a fine tuning of the parameters

the subject of this thesis is the study of non supersymmetric solutions of string theory their use is of fundamental importance in a variety of applications in gauge gravity correspondence to construct gravity duals to non supersymmetric vacua and models of mediated supersymmetry breaking in cosmology to construct de sitter vacua and to study the cosmological constant problem for black holes to construct their microstates more broadly it is important to study the solution space of string theory and to understand its deep mathematical structures beyond the simplifications which stem from supersymmetry we mainly consider solutions in the supergravity limit we construct a vast space of non supersymmetric perturbations around supergravity solutions dual to confining supersymmetric gauge theories in four and three dimensions we then proceed to a rigorous and detailed study of a particular way to break supersymmetry in flux compactifications namely by adding some branes with charge of opposite sign with respect to the fluxes we discover that the supergravity solution corresponding to these objects is singular and we discuss in details possible string theory resolutions of this singularity we then consider the consequences of these results both for the existence of metastable non supersymmetric states in the dual field theories and for the existence of a large landscape of de sitter vacua in string theory

some topics covered during the workshop include string theory conformal field theory physics in 2 1 dimensions string phenomenology and quantum cosmology

we present concrete solutions with accelerated expansion in string theory requiring a small tractable list of stress energy sources we explain how this construction and others in progress evades previous no go theorems for simple accelerating solutions our solutions respect an approximate scaling symmetry and realize discrete sequences of values for the equation of state including one with an accumulation point at  $w = 1$  and another accumulating near  $w = 1/3$  from below in another class of models a density of defects generates scaling solutions with accelerated expansion here we briefly discuss potential applications to dark energy phenomenology and to holography for cosmology

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