
CONTENTS

CHAPTER 1 Asymptotic Symmetries of AdS ₂ Branes.....	9
<i>Constantin Bachas</i>	
CHAPTER 2 Algebraic Dreams.....	19
<i>Pierre Ramond</i>	
CHAPTER 3 Euler Multiplets and Light-Cone Supersymmetry	43
<i>Lars Brink</i>	
CHAPTER 4 String Cosmology and Chaos.....	63
<i>Thibault Damour</i>	
CHAPTER 5 The Light Cone Open Supermembrane	83
<i>Arundhati Dasgupta, Hermann Nicolai and Jan Plefka</i>	
CHAPTER 6 D-branes in Curved Space.....	99
<i>Jan de Boer</i>	
CHAPTER 7 Gauge Invariance With Mass: Higher Spins in Cosmological spaces.....	115
<i>Stanley Deser</i>	
CHAPTER 8 On Electric Charge Non-Conservation in Brane World	141
<i>Sergei L. Dubovsky and Valery A. Rubakov</i>	

CHAPTER 9

The Bosonic Ancestor of Closed and Open Fermionic Strings . 157

François Englert, Laurent Houart and Anne Taormina

CHAPTER 10

D-Branes and New Metrics of Special Holonomy..... 175

Gary Gibbons

CHAPTER 11

Supernovae and Dark Energy 189

Ariel Goobar

CHAPTER 12

Instantons and Circular Wilson Loops in Superconformal
Yang-Mills Theory..... 205

Michael B. Green

CHAPTER 13

Living With Ghosts..... 225

Stephen Hawking and Thomas Hertog

CHAPTER 14

Toward a String Theory of Large- N QCD..... 249

Joseph Polchinski

CHAPTER 15

Remarks on the Connection Between Trace Anomalies
and Holography 267

Adam Schwimmer

CHAPTER 16

From Big Crunch to Big Bang – Is It Possible? 281

Nathan Seiberg

CHAPTER 17

Gravitational Thermodynamics of Schwarzschild de Sitter
Space 291

Claudio Teitelboim

Table of Contents 301