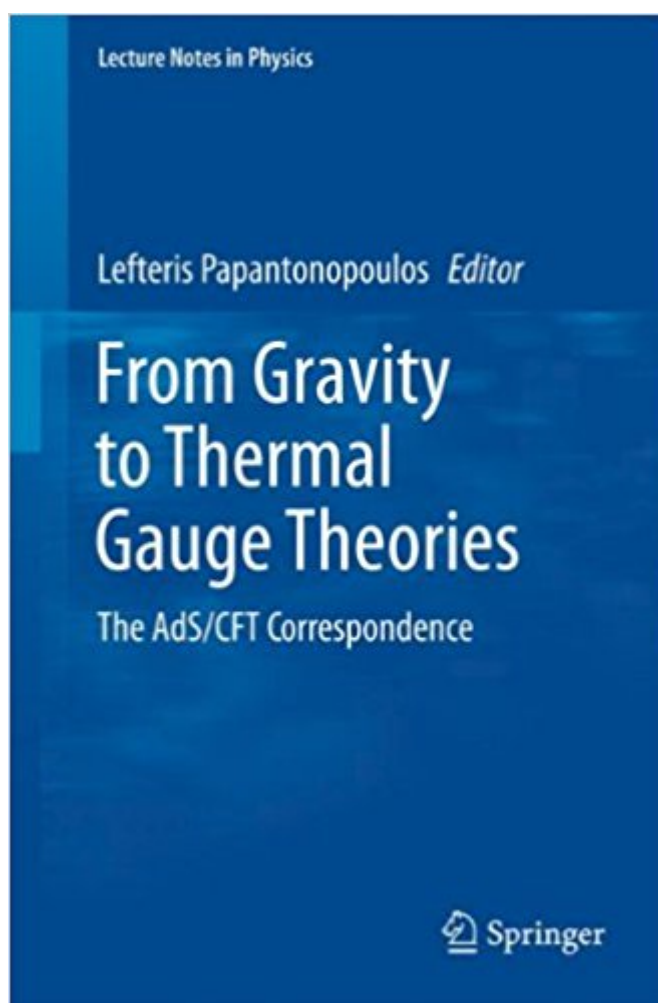


The book was found

# From Gravity To Thermal Gauge Theories: The AdS/CFT Correspondence (Lecture Notes In Physics)



## Synopsis

The AdS/CFT correspondence is a powerful tool in studying strongly coupled phenomena in gauge field theories, using results from a weakly coupled gravity background studied in the realm of string theory. AdS/CFT was first successfully applied to the study of phenomena such as the quark-gluon plasma produced in heavy ions collisions. Soon it was realized that its applicability can be extended, in a more phenomenological approach, to condensed matter systems and to systems described by fluid dynamics. The set of tutorial reviews in this volume is intended as an introduction to and survey of the principle of the AdS/CFT correspondence in its field/string theoretic formulation, its applicability to holographic QCD and to heavy ions collisions, and to give a first account of processes in fluid dynamics and condensed matter physics, which can be studied with the use of this principle. Written by leading researchers in the field and cast into the form of a high-level but approachable multi-author textbook, this volume will be of benefit to all postgraduate students, and newcomers from neighboring disciplines wishing to find a comprehensive guide for their future research.

## Book Information

Series: Lecture Notes in Physics (Book 828)

Paperback: 425 pages

Publisher: Springer; 2011 edition (June 30, 2011)

Language: English

ISBN-10: 3642048633

ISBN-13: 978-3642048630

Product Dimensions: 6.1 x 1 x 9.2 inches

Shipping Weight: 1.7 pounds (View shipping rates and policies)

Average Customer Review: Be the first to review this item

Best Sellers Rank: #1,964,480 in Books (See Top 100 in Books) #81 in Books > Engineering & Transportation > Engineering > Electrical & Electronics > Superconductivity #255 in Books > Science & Math > Physics > Gravity #663 in Books > Science & Math > Physics > Solid-State Physics

## Customer Reviews

The AdS/CFT correspondence is a powerful tool in studying strongly coupled phenomena in gauge field theories, using results from a weakly coupled gravity background studied in the realm of string theory. AdS/CFT was first successfully applied to the study of phenomena such as the quark-gluon

plasma produced in heavy ions collisions. Soon it was realized that its applicability can be extended, in a more phenomenological approach, to condensed matter systems and to systems described by fluid dynamics. The set of tutorial reviews in this volume is intended as an introduction to and survey of the principle of the AdS/CFT correspondence in its field/string theoretic formulation, its applicability to holographic QCD and to heavy ions collisions, and to give a first account of processes in fluid dynamics and condensed matter physics, which can be studied with the use of this principle. Written by leading researchers in the field and cast into the form of a high-level but approachable multi-author textbook, this volume will be of benefit to all postgraduate students, and newcomers from neighboring disciplines wishing to find a comprehensive guide for their future research.

[Download to continue reading...](#)

From Gravity to Thermal Gauge Theories: The AdS/CFT Correspondence (Lecture Notes in Physics) Gauge Theories in Particle Physics, Vol. 2: Non-Abelian Gauge Theories: QCD and the Electroweak Theory (Volume 1) Introduction to the AdS/CFT Correspondence Principles of Astrophysics: Using Gravity and Stellar Physics to Explore the Cosmos (Undergraduate Lecture Notes in Physics) Gauge Theories in Particle Physics, Second Edition (Graduate Student Series in Physics) Gauge Theories in Particle Physics: A Practical Introduction, Fourth Edition - 2 Volume set HELP! My Facebook Ads Suck: Simple steps to turn those ads around Memes: World's Most Hilarious Wanted Ads! (Memes, Wanted Ads, Minecraft, Wimpy Steve, Trucks) Covariant Loop Quantum Gravity: An Elementary Introduction to Quantum Gravity and Spinfoam Theory (Cambridge Monographs on Mathematical Physics) Statistical Methods for Data Analysis in Particle Physics (Lecture Notes in Physics) Physics from Symmetry (Undergraduate Lecture Notes in Physics) Principles of Physics: For Scientists and Engineers (Undergraduate Lecture Notes in Physics) A Student's Guide Through the Great Physics Texts: Volume III: Electricity, Magnetism and Light: 3 (Undergraduate Lecture Notes in Physics) Conductors, Semiconductors, Superconductors: An Introduction to Solid State Physics (Undergraduate Lecture Notes in Physics) Five Nights at Freddy's - The Theories Collection: Learn all of the secrets of Freddy Fazbear's Pizza, with dozens of theories and notes from FNAF experts! Fundamentals of Statistical and Thermal Physics (Fundamentals of Physics) Defining Gravity (Defining Gravity Series Book 1) Can I Dance on the Moon? All About Gravity - Physics Book Grade 6 | Children's Physics Books Telescopes and Techniques (Undergraduate Lecture Notes in Physics) Calabi-Yau Varieties: Arithmetic, Geometry and Physics: Lecture Notes on Concentrated Graduate Courses (Fields Institute Monographs)

Contact Us

DMCA

Privacy

FAQ & Help