

Librería
Bonilla y Asociados
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Título:

Autor:

Precio: \$1887.00

Editorial:

Año: 2009

Tema:

Edición: 1ª

Sinopsis

ISBN: 9783639177169

This book focuses on the study of different aspects of the AdS/CFT correspondence, the celebrated conjecture in string theory that relates gauge and gravity theories. It begins with a detailed review of the correspondence, with the main body of work being split into two chapters. The first chapter concerns the evaluation of correlation functions of BPS operators in the AdS/CFT correspondence, as these are useful to make indirect tests of the conjecture and to uncover dynamical features pertaining to the theories in the correspondence. In particular we look at four-point functions in AdS supergravity and their gauge theory interpretation. The second chapter has to do with the application of duality ideas in black hole physics, with emphasis on small black holes. We focus on the fundamental string small black hole and give arguments supporting its study via its CFT dual. The last chapter of the book summarises the content and suggests some interesting directions that could be pursued in the future.

About the Author

Linda Uruchurtu was born in Mexico City, on December 6th, 1980. She did her B.Sc. in Physics in Mexico, graduating in 2003 and received her Ph.D. in Theoretical Physics in 2008 from the University of Cambridge, where she was a member of Gonville & Caius College. She currently holds a STFC Research Fellowship at Imperial College London.