1. Record Nr. UNISA990000797980203316

Autore	LUHMANN, Niklas
Titolo	Essays on self-reference / Niklas Luhmann
Pubbl/distr/stampa	New York : Columbia university press, c1990
ISBN	0-231-06368-7
Descrizione fisica	245 p. ; 24 cm
Disciplina	302.2
Soggetti	Comunicazione - Aspetti sociali
Collocazione	II.5. 3419(XV B 636)
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia

2. Record Nr. UNINA9910300531803321

Autore	Manzano Paule Gonzalo
Titolo	Thermodynamics and Synchronization in Open Quantum Systems / / by Gonzalo Manzano Paule
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2018
ISBN	3-319-93964-5
Edizione	[1st ed. 2018.]
Descrizione fisica	1 online resource (424 pages)
Collana	Springer Theses, Recognizing Outstanding Ph.D. Research, , 2190-5053
Disciplina	530.12011
Soggetti	Thermodynamics Quantum theory Quantum Physics
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Part 1: Introduction to Open Quantum Systems and Quantum

Thermodynamics -- Basic Concepts -- Open Quantum System Dynamics -- Quantum Thermodynamics -- Part 2: Quantum Synchronization Induced by Dissipation in Many-Body Systems -- Transient Synchronization and Quantum Correlations -- Noiseless Subsystems and Synchronization -- Dissipative Complex Quantum Networks -- Part 3: Quantum Fluctuation Theorems and Entropy Production -- Fluctuation Theorems for Quantum Maps -- Entropy Production Fluctuations in Quantum Process -- Simple Applications of the Entropy Production FT’s -- Part 4: Quantum Thermal Machines -- Thermodynamic Power of the Squeezed Thermal Reservoir.- Performance of Autonomous Quantum Thermal Machines -- Part 5: Conclusions -- Summary and Outlook.

Sommario/riassunto

This book explores some of the connections between dissipative and quantum effects from a theoretical point of view. It focuses on three main topics: the relation between synchronization and quantum correlations, the thermodynamical properties of fluctuations, and the performance of quantum thermal machines. Dissipation effects have a profound impact on the behavior and properties of quantum systems, and the unavoidable interaction with the surrounding environment, with which systems continuously exchange information, energy, angular momentum and matter, is ultimately responsible for decoherence phenomena and the emergence of classical behavior. However, there is a wide intermediate regime in which the interplay between dissipative and quantum effects gives rise to a plethora of rich and striking phenomena that has just started to be understood. In addition, the recent breakthrough techniques in controlling and manipulating quantum systems in the laboratory have made this phenomenology accessible in experiments and potentially applicable.

3.

Record Nr.	UNINA9910300399803321
Autore	Atkins Michael
Titolo	Bounds on the Effective Theory of Gravity in Models of Particle Physics and Cosmology / / by Michael Atkins
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2014
ISBN	3-319-06367-7
Edizione	[1st ed. 2014.]
Descrizione fisica	1 online resource (104 p.)
Collana	Springer Theses, Recognizing Outstanding Ph.D. Research, , 2190-5053
Disciplina	530.143
Soggetti	Gravitation Nuclear physics Cosmology Classical and Quantum Gravitation, Relativity Theory Particle and Nuclear Physics
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references.
Nota di contenuto	Introduction -- Unitarity of Gravity Coupled to Models of Particle Physics -- Unitarity of Models with Extra Dimensions -- Higgs Inflation -- Bound on the Non-minimal Coupling of the Higgs Boson to Gravity -- Conclusions.
Sommario/riassunto	The effective theory of quantum gravity coupled to models of particle physics is being probed by cutting edge experiments in both high energy physics (searches for extra dimensions) and cosmology (testing models of inflation). This thesis derives new bounds that may be placed on these models both theoretically and experimentally. In models of extra dimensions, the internal consistency of the theories at high energies are investigated via perturbative unitarity bounds. Similarly it is shown that recent models of Higgs inflation suffer from a breakdown of perturbative unitarity during the inflationary period. In addition, the thesis uses the latest LHC data to derive the first ever experimental bound on the size of the Higgs boson's non-minimal coupling to gravity.