

1. Record Nr.	UNINA9910457456003321
Titolo	Non-abelian fundamental groups in Iwasawa theory / / edited by John Coates [and others] [[electronic resource]]
Pubbl/distr/stampa	Cambridge : , : Cambridge University Press, , 2011
ISBN	1-107-23237-6 0-511-98444-8 1-280-48549-3 1-139-22329-1 9786613580474 1-139-21849-2 1-139-21540-X 1-139-22501-4 1-139-22158-2
Descrizione fisica	1 online resource (ix, 310 pages) : digital, PDF file(s)
Collana	London Mathematical Society lecture note series ; ; 393
Disciplina	512.7/4
Soggetti	Iwasawa theory Non-Abelian groups
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Title from publisher's bibliographic system (viewed on 05 Oct 2015).
Nota di bibliografia	Includes bibliographical references.
Nota di contenuto	Lectures on anabelian phenomena in geometry and arithmetic / Florian Pop -- On Galois rigidity of fundamental groups of algebraic curves Hiroaki Nakamura -- Around the Grothendieck anabelian section conjecture Mohamed Saidi -- From the classical to the noncommutative Iwasawa theory (for totally real number fields) Mahesh Kakde -- On the MH(G)-conjecture J. Coates and R. Sujatha -- Galois theory and Diophantine geometry Minhyong Kim; 7. Potential modularity -- a survey Kevin Buzzard; 8. Remarks on some locally $\mathbb{Q}_p$ -analytic representations of GL -- (F) in the crystalline case Christophe Breuil -- Completed cohomology -- a survey Frank Calegari and Matthew Emerton -- Tensor and homotopy criteria for functional equations of -- adic and classical iterated integrals Hiroaki Nakamura and Zdzisaw Wojtkowiak.

Sommario/riassunto

Number theory currently has at least three different perspectives on non-abelian phenomena: the Langlands programme, non-commutative Iwasawa theory and anabelian geometry. In the second half of 2009, experts from each of these three areas gathered at the Isaac Newton Institute in Cambridge to explain the latest advances in their research and to investigate possible avenues of future investigation and collaboration. For those in attendance, the overwhelming impression was that number theory is going through a tumultuous period of theory-building and experimentation analogous to the late 19th century, when many different special reciprocity laws of abelian class field theory were formulated before knowledge of the Artin-Takagi theory. Non-abelian Fundamental Groups and Iwasawa Theory presents the state of the art in theorems, conjectures and speculations that point the way towards a new synthesis, an as-yet-undiscovered unified theory of non-abelian arithmetic geometry.

2. Record Nr.	UNINA9910464497303321
Titolo	Advances in multi-photon processes and spectroscopy [[electronic resource] /] / edited by S.H. Lin, A.A. Villaeys, Y. Fujimura
Pubbl/distr/stampa	Singapore, : World Scientific, 2011
ISBN	1-283-43377-X 9786613433770 981-4343-99-4
Descrizione fisica	1 online resource (259 p.)
Collana	Advances in multi-photon processes and spectroscopy ; ; v. 20
Altri autori (Persone)	LinS. H <1937-> (Sheng Hsien) VillaeysA. A FujimuraY (Yuichi)
Disciplina	543.0858 543.5 543/.0858
Soggetti	Multiphoton processes Spectrum analysis Laser spectroscopy Molecular spectra Electronic books.
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	CONTENTS; 1. Wave Packet Analysis of Femtosecond Stimulated Raman Spectroscopy K. Niu, B. Zhao, Z. Sun and Soo-Y. Lee; 1. Introduction; 2. Theory; 2.1 Coupled wave theory of FSRS and its limitations; 2.2 Quantum theory of FSRS; 3. Applications, Results and Discussion; 3.1 Analytic results for FSRS from a stationary state with polyatomic harmonic potentials; 3.2 Application to FSRS of Rhodamine 6G; 3.3 Application to the FSRS from a coherent vibrational state of CDCl₃; 3.3.1 Direct fifth-order process; 3.3.2 Cascade processes; 3.3.3 Direct fifth-order and cascade results of CDCl₃ 3 4. Conclusion and outlook Acknowledgements; References; 2. Field-Free Molecular Alignment by Two Femosecond Laser Pulses Chengyin Wu, Hongbing Jiang and Qihuang Gong; 1. Introduction; 2. Theory; 2.1 Creation of rotational wavepacket; 2.2 Characterization of rotational wavepacket; 2.3 Control of rotational wavepacket; 3. Experimental Method; 4. Results and Discussion; 4.1 Manipulation of alignment structures; 4.2 Enhancement of molecular alignment; 4.3 Control of molecular population; 5. Applications of Field-Free Aligned Molecules - Frequency Tuning of Few Cycle Femtosecond Laser Pulses 5.1 Parameters 5.2 Simulation; 6. Conclusions; Acknowledgements; References; 3. High-Order Harmonic Generation from C₆₀ Fullerene Plasma T. Ozaki; 1. Introduction; 2. Experimental Set-up; 3. Results and Discussion; 3.1 Observation of high-order harmonics from C₆₀ fullerenes; 3.2 Influence of various experimental parameters on the HHG efficiency in fullerene plasma; 3.3 Simulations of harmonic spectra from C₆₀ fullerenes; 3.4 Discussions; 4. Conclusions; References 4. Attosecond Pulse Generation, Characterization and Application Shouyuan Chen, Steve Gilbertson, He Wang, Michael Chini, Kun Zhao, Sabih Khan, Yi Wu, and Zenghu Chang 1. Introduction; 2. Ultrafast Laser Development and CE Phase Stabilization for Attosecond Pulse Generation; 2.1 CE phase drift caused by the grating drift in stretcher and compressor; 2.2 CE phase stabilization of multi-pass and regenerative amplifiers; 3. Attosecond Gating Technology; 3.1 Two-color gating; 3.2 Polarization gating; 3.3 Double optical gating; 3.4 Generalized double optical gating; 3.5 DOG and GDOG optics 4. Attosecond Pulse Measurement and Characterization 4.1 Attosecond streak camera; 4.2 Frequency-resolved optical gating for complete reconstruction of attosecond bursts; 4.3 Phase retrieval by omega oscillation filtering; 5. Application of Attosecond Pulse; 5.1 Study of Helium autoionization by attosecond streaking; 5.2 Time resolved spectroscopy study of Argon; 6. Summary and Outlook; References; 5. Near-Field Imaging of Optical-Field Structures and Plasmon Wave Functions in Metal Nanostructures Hiromi Okamoto and Kohei Imura; 1. Introduction 2. What can be Observed by Near-Field Optical Imaging?
Sommario/riassunto	This book presents the latest developments and issues in both experimental and theoretical studies of multi-photon processes and the spectroscopy of atoms, molecules and nanomaterials in Physics, Chemistry, Biology and Material Science. It is an important addition to an advanced series that contains review papers suitable for both active researchers in these areas and non-experts who wish to enter the field. Special attention is paid to the recent progress of nonlinear photon-matter interactions applied to femtosecond laser induced nonadiabatic molecular alignment, high-order harmonic generati

3. Record Nr.	UNINA9910350319903321
Autore	Sandak Anna
Titolo	Bio-based Building Skin [[electronic resource] /] / by Anna Sandak, Jakub Sandak, Marcin Brzezicki, Andreja Kutnar
Pubbl/distr/stampa	Singapore, : Springer Nature, 2019 Singapore : , : Springer Singapore : , : Imprint : Springer, , 2019
ISBN	981-13-3747-0
Edizione	[1st ed. 2019.]
Descrizione fisica	1 online resource (183)
Collana	Environmental Footprints and Eco-design of Products and Processes, , 2345-7651
Disciplina	720.47
Soggetti	Sustainable architecture Building materials Biomaterials Sustainable development Buildings—Design and construction Building Construction Engineering, Architectural Structural materials Sustainable Architecture/Green Buildings Building Materials Sustainable Development Building Construction and Design Structural Materials
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	State-of-the-art in building facades -- Biomaterials for building skins -- Designing building skins with biomaterials -- Best practices -- Service life performance -- Portfolio of bio-based façade materials -- Future perspectives.
Sommario/riassunto	This book provides a compendium of material properties, demonstrates several successful examples of bio-based materials' application in building facades, and offers ideas for new designs and novel solutions.

It features a state-of-the-art review, addresses the latest trends in material selection, assembling systems, and innovative functions of facades in detail. Selected case studies on buildings from diverse locations are subsequently presented to demonstrate the successful implementation of various biomaterial solutions, which defines unique architectural styles and building functions. The structures, morphologies and aesthetic impressions related to bio-based building facades are discussed from the perspective of art and innovation; essential factors influencing the performance of materials with respect to functionality and safety are also presented. Special emphasis is placed on assessing the performance of a given facade throughout the service life of a building, and after its end. The book not only provides an excellent source of technical and scientific information, but also contributes to public awareness by demonstrating the benefits to be gained from the proper use of bio-based materials in facades. As such, it will appeal to a broad audience including architects, engineers, designers and building contractors.

4. Record Nr.	UNINA9911019862903321
Titolo	Multi-moment asset allocation and pricing models / / edited by Emmanuel Jurczenko and Bertrand Maillet
Pubbl/distr/stampa	Chichester, England ; ; Hoboken, NJ, : John Wiley & Sons, Inc., c2006
ISBN	9786610649150 9781119201830 1119201837 9781280649158 1280649151 9780470057995 0470057998
Descrizione fisica	1 online resource (259 p.)
Collana	Wiley finance series
Altri autori (Persone)	JurczenkoEmmanuel MailletBertrand
Disciplina	332.601/5195
Soggetti	Investments - Mathematical models Asset allocation - Mathematical models Capital assets pricing model
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 and index.
Nota di contenuto	Theoretical foundations of asset allocations and pricing models with higher-order moments / Emmanuel Jurczenko and Bertrand Maillet -- On certain geometric aspects of portfolio optimisation with higher moments -- / Gustavo M. de Athayde and Renato G. Flores Jr. -- Hedge funds portfolio selection with higher-order moments : a nonparametric mean-variance-skewness-Kurtosis efficient frontier / Emmanuel Jurczenko, Bertrand Maillet and Paul Merlin -- Higher order moments and beyond / Luisa Tibiletti -- Gram-Charlier expansions and portfolio selection in non-Gaussian universes / Francois Desmoulin-Lebeault -- The four-moment capital asset pricing model : between asset pricing and asset allocation / Emmanuel Jurczenko and Bertrand Maillet -- Multi-moment method for portfolio management : generalized capital asset pricing model in homogeneous and heterogeneous markets / Yannick Malevergne and Didier Sornette -- Modeling the dynamics of conditional dependency between financial series / Eric Jondeau and Michael Rockinger -- A test of the homogeneity of asset pricing models / Giovanni Barone-Adesi, Patrick Gagliardini and Giovanni Urga.
Sommario/riassunto	While mainstream financial theories and applications assume that asset returns are normally distributed and individual preferences are quadratic, the overwhelming empirical evidence shows otherwise. Indeed, most of the asset returns exhibit "fat-tails" distributions and investors exhibit asymmetric preferences. These empirical findings lead to the development of a new area of research dedicated to the introduction of higher order moments in portfolio theory and asset pricing models. Multi-moment asset pricing is a revolutionary new way of modeling time series in finance which allows various