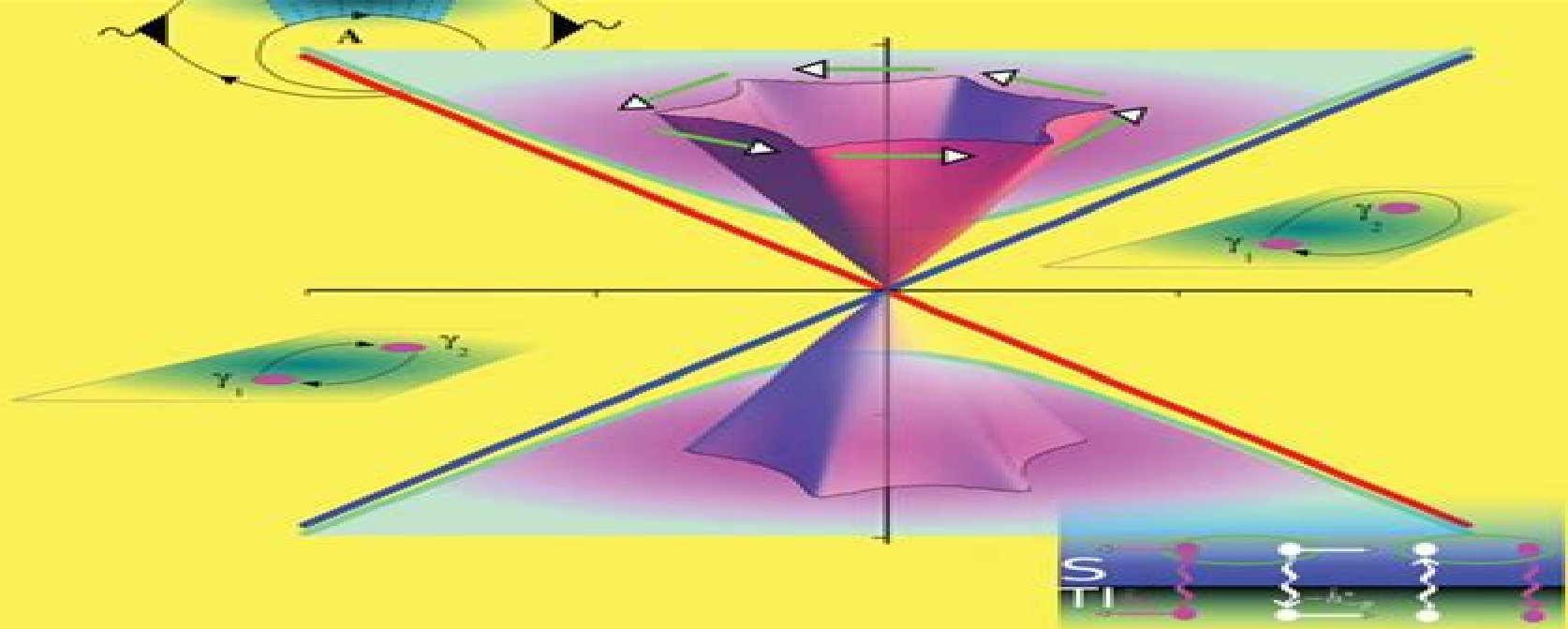




Topological Insulators

The Physics of Spin Helicity
in Quantum Transport

Grigory Tkachov



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Topological Insulators The Physics Of Spin Helicity In Quantum Transport

Wenqing Liu, Yongbing Xu



Topological Insulators The Physics Of Spin Helicity In Quantum Transport:

Topological Insulators Gregory Tkachov, 2015-10-14 This book is the result of dynamic developments that have occurred in condensed matter physics after the recent discovery of a new class of electronic materials topological insulators A topological insulator is a material that behaves as a band insulator in its interior while acting as a metallic conductor at its surface The surface current carries the spin Hall effect of light

Topological Quantum Materials Grigory Tkachov, 2022-08-18 In topological quantum materials quantum effects emerge at macroscopic scales and are robust to continuous changes in a material's state This striking synergy between quantum and topological properties is of great interest for both fundamental research and emerging technologies especially in the fields of electronics and quantum information This edition of the book presents a wealth of topological quantum materials bringing together burgeoning research from different areas topological insulators transition metal dichalcogenides Weyl semimetals and unconventional and topological superconductors The realization of the application potential of topological quantum materials requires understanding their properties at a fundamental level This brings us back to the discovery of topological phases of matter which earned the Nobel Prize in Physics in 2016 This book explores the connection between pioneering work on topological phases of matter and a flurry of activity that followed The topics covered include the quantum anomalous and spin Hall effects emergent axion electrodynamics and topological magnetoelectric effects Weyl nodes and surface Fermi arcs weak antilocalization induced triplet superconductivity Majorana fermion modes and the fractional Josephson effect

Introduction to the Physics of Nanoelectronics Seng Ghee Tan, Mansoor B. A. Jalil, 2012-03-28 This book provides an introduction to the physics of nanoelectronics with a focus on the theoretical aspects of nanoscale devices The book begins with an overview of the mathematics and quantum mechanics pertaining to nanoscale electronics to facilitate the understanding of subsequent chapters It goes on to encompass quantum electronics spintronics Hall effects carbon and graphene electronics and topological physics in nanoscale devices Theoretical methodology is developed using quantum mechanical and non equilibrium Green's function NEGF techniques to calculate electronic currents and elucidate their transport properties at the atomic scale The spin Hall effect is explained and its application to the emerging field of spintronics where an electron's spin as well as its charge is utilised is discussed Topological dynamics and gauge potential are introduced with the relevant mathematics and their application in nanoelectronic systems is explained Graphene one of the most promising carbon based nanostructures for nanoelectronics is also explored Begins with an overview of the mathematics and quantum mechanics pertaining to nanoscale electronics Encompasses quantum electronics spintronics Hall effects carbon and graphene electronics and topological physics in nanoscale devices Comprehensively introduces topological dynamics and gauge potential with the relevant mathematics and extensively discusses their application in nanoelectronic systems

Spintronics Handbook, Second Edition: Spin Transport and Magnetism Evgeny Y. Tsymbal, Igor Žutić, 2019-06-26 Spintronics Handbook Second Edition offers an

update on the single most comprehensive survey of the two intertwined fields of spintronics and magnetism covering the diverse array of materials and structures including silicon organic semiconductors carbon nanotubes graphene and engineered nanostructures It focuses on seminal pioneering work together with the latest in cutting edge advances notably extended discussion of two dimensional materials beyond graphene topological insulators skyrmions and molecular spintronics The main sections cover physical phenomena spin dependent tunneling control of spin and magnetism in semiconductors and spin based applications Features Presents the most comprehensive reference text for the overlapping fields of spintronics spin transport and magnetism Covers the full spectrum of materials and structures from silicon and organic semiconductors to carbon nanotubes graphene and engineered nanostructures Extends coverage of two dimensional materials beyond graphene including molybdenum disulfide and study of their spin relaxation mechanisms Includes new dedicated chapters on cutting edge topics such as spin orbit torques topological insulators half metals complex oxide materials and skyrmions Discusses important emerging areas of spintronics with superconductors spin wave spintronics benchmarking of spintronics devices and theory and experimental approaches to molecular spintronics Evgeny Tsymbal's research is focused on computational materials science aiming at the understanding of fundamental properties of advanced ferromagnetic and ferroelectric nanostructures and materials relevant to nanoelectronics and spintronics He is a George Holmes University Distinguished Professor at the Department of Physics and Astronomy of the University of Nebraska Lincoln UNL Director of the UNL's Materials Research Science and Engineering Center MRSEC and Director of the multi institutional Center for NanoFerroic Devices CNFD Igor uti received his Ph D in theoretical physics at the University of Minnesota His work spans a range of topics from high temperature superconductors and ferromagnetism that can get stronger as the temperature is increased to prediction of various spin based devices He is a recipient of 2006 National Science Foundation CAREER Award 2005 National Research Council American Society for Engineering Education Postdoctoral Research Award and the National Research Council Fellowship 2003 2005 His research is supported by the National Science Foundation the Office of Naval Research the Department of Energy and the Airforce Office of Scientific Research

Comprehensive Semiconductor Science and Technology, 2011-01-28 Semiconductors are at the heart of modern living Almost everything we do be it work travel communication or entertainment all depend on some feature of semiconductor technology Comprehensive Semiconductor Science and Technology Six Volume Set captures the breadth of this important field and presents it in a single source to the large audience who study make and exploit semiconductors Previous attempts at this achievement have been abbreviated and have omitted important topics Written and Edited by a truly international team of experts this work delivers an objective yet cohesive global review of the semiconductor world The work is divided into three sections The first section is concerned with the fundamental physics of semiconductors showing how the electronic features and the lattice dynamics change drastically when systems vary from bulk to a low dimensional

structure and further to a nanometer size Throughout this section there is an emphasis on the full understanding of the underlying physics The second section deals largely with the transformation of the conceptual framework of solid state physics into devices and systems which require the growth of extremely high purity nearly defect free bulk and epitaxial materials The last section is devoted to exploitation of the knowledge described in the previous sections to highlight the spectrum of devices we see all around us Provides a comprehensive global picture of the semiconductor world Each of the work s three sections presents a complete description of one aspect of the whole Written and Edited by a truly international team of experts *Recent Topics on Topology - From Classical to Modern Applications* Paul Bracken,2024-11-27 Topology plays a fundamental role in many branches of mathematics and science In recent years there has been a resurgence of interest in physics particularly in condensed matter physics This book provides an accessible yet rigorous overview of current research in topology making it an invaluable resource for mathematicians physicists and researchers in related fields

Topological Phases of Matter Roderich Moessner,Joel E. Moore,2021-04-29 Topological Phases of Matter are an exceptionally dynamic field of research several of the most exciting recent experimental discoveries and conceptual advances in modern physics have originated in this field These have generated new topological notions of order interactions and excitations This text provides an accessible unified and comprehensive introduction to the phenomena surrounding topological matter with detailed expositions of the underlying theoretical tools and conceptual framework alongside accounts of the central experimental breakthroughs Among the systems covered are topological insulators magnets semimetals and superconductors The emergence of new particles with remarkable properties such as fractional charge and statistics is discussed alongside possible applications such as fault tolerant topological quantum computing Suitable as a textbook for graduate or advanced undergraduate students or as a reference for more experienced researchers the book assumes little prior background providing self contained introductions to topics as varied as phase transitions superconductivity and localisation **Spintronic 2D Materials** Wenqing Liu,Yongbing Xu,2019-12-04 Spintronic 2D Materials Fundamentals and

Applications provides an overview of the fundamental theory of 2D electronic systems that includes a selection of the most intensively investigated 2D materials The book tells the story of 2D spintronics in a systematic and comprehensive way providing the growing community of spintronics researchers with a key reference Part One addresses the fundamental theoretical aspects of 2D materials and spin transport while Parts Two through Four explore 2D material systems including graphene topological insulators and transition metal dichalcogenides Each section discusses properties key issues and recent developments In addition the material growth method from lab to mass production device fabrication and characterization techniques are included throughout the book *Measuring, Interpreting and Translating Electron Quasiparticle - Phonon Interactions on the Surfaces of the Topological Insulators Bismuth Selenide and Bismuth Telluride* Colin Howard,2016-10-14 The thesis presents experimental and theoretical results about the surface dynamics and the surface Dirac fermion DF

spectral function of the strong topological insulators Bi₂Te₃ and Bi₂Se₃. The experimental results reveal the presence of a strong Kohn anomaly in the measured surface phonon dispersion of a low lying optical mode and the absence of surface Rayleigh acoustic phonons. Fitting the experimental data to theoretical models employing phonon Matsubara functions allowed the extraction of the matrix elements of the coupling Hamiltonian and the modifications to the surface phonon propagator that are encoded in the phonon self energy. This allowed for the first time calculation of phonon mode specific DF coupling q from experimental data with average coupling significantly higher than typical values for metals underscoring the strong coupling between optical surface phonons and surface DFs in topological insulators. Finally to connect to experimental results obtained from photoemission spectroscopies an electronic DF Matsubara function was constructed using the determined electron phonon matrix elements and the optical phonon dispersion. This allowed calculation of the DF spectral function and density of states allowing for comparison with photoemission and scanning tunneling spectroscopies. The results set the necessary energy resolution and extraction methodology for calculating from the DF perspective. **Smart**

Materials for Energy Storage and Biomedical Applications Amodini Mishra, Vinay Pathak, 2025-08-18 This book brings together a curated selection of research in the broad field of smart materials emphasizing their properties, functionality and transformative potential. Covering diverse applications from energy systems to biomedical advancements it offers a snapshot of current innovations across multiple disciplines. The chapters begin with an introduction to smart material properties and their applications progressing to in depth discussions on topics like magnetocaloric effects in pyrochlore oxides, topological insulators and magnetoelectric perovskites. Key studies examine magnetic nanoparticles for cancer biology, soft materials for sustainable technologies and Pb free perovskite ceramics with giant dielectric constants. Advanced research on nano structured materials, metal oxides in thin film technologies and photonic crystals further enrich this collection. A special focus is given to topological spin textures such as skyrmions and their applications in spintronic devices. From theoretical models to experimental insights this book encompasses a wide range of topics that appeal to both established scientists and emerging researchers.

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