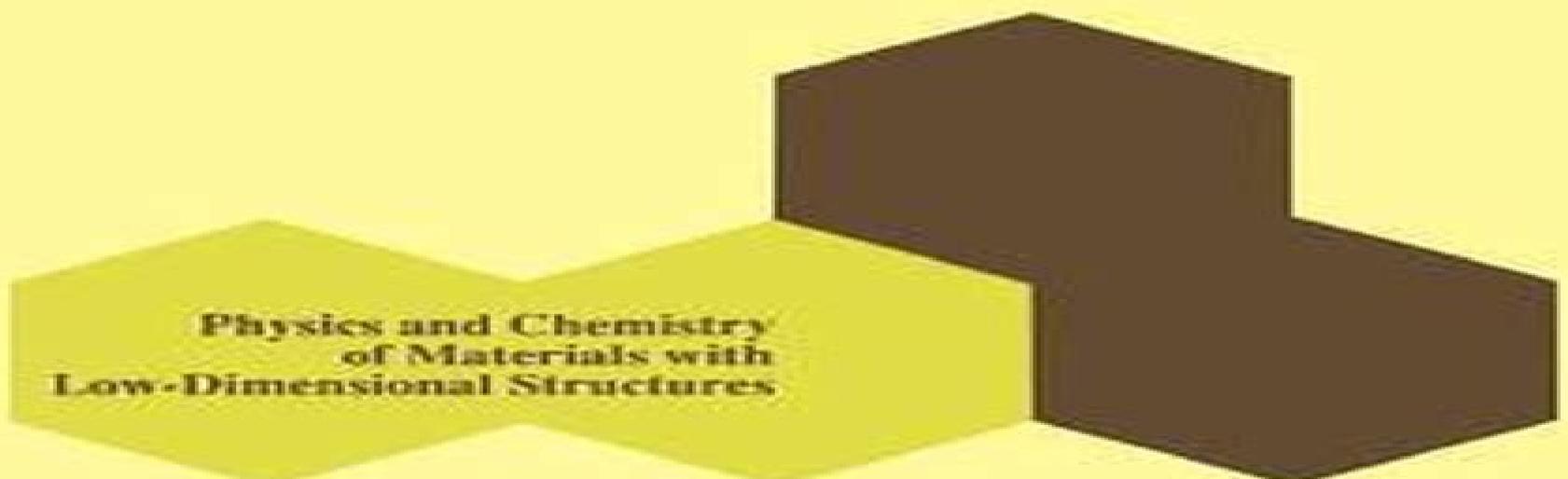


# **Two-Dimensional Electron Systems**

on Helium and other  
Cryogenic Substrates

Edited by

Eva Y. Andrei



**Physics and Chemistry  
of Materials with  
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Kluwer Academic Publishers

# Two Dimensional Electron Systems

**David F. Howell**



## **Two Dimensional Electron Systems:**

*Two-Dimensional Electron Systems* E.Y. Andrei, 2012-12-06 Recent studies on two dimensional systems have led to new insights into the fascinating interplay between physical properties and dimensionality Many of these ideas have emerged from work on electrons bound to the surface of a weakly polarizable substrate such as liquid helium or solid hydrogen The research on this subject continues to be at the forefront of modern condensed matter physics because of its fundamental simplicity as well as its connection to technologically useful devices This book is the first comprehensive overview of experimental and theoretical research in this exciting field It is intended to provide a coherent introduction for graduate students and non experts while at the same time serving as a reference source for active researchers in the field The chapters are written by individuals who made significant contributions and cover a variety of specialized topics These include the origin of the surface states tunneling and magneto tunneling out of these states the phase diagram collective excitations transport and magneto transport

**The Physics of the Two-Dimensional Electron Gas** J.T. Devreese, F.M. Peeters, 2012-12-06 The 1986 Advanced Study Institute on The Physics of the two Dimensional Electron Gas took place at the Conference Centre liTer Helme close to Oostende Belgium from June 2 till 16 1986 We were motivated to organize this Advanced Study Institute in view of the recent experimental and theoretical progress in the study of the two dimensional electron gas An additional motivation was our own theoretical interest in cyclotron resonance in two dimensional electron systems at our institute It is my pleasure to thank several instances and people who made this Advanced Study Institute possible First of all the sponsor of the Advanced Study Institute the NATO Scientific Committee Furthermore the co sponsors Agfa Gevaert Bell Telephone Mfg Co N V Burroughs Belgium Control Data Digital Equipment Corporation Esso Belgium European Research Office USA Kredietbank National Science Foundation USA Special thanks are due to the members of the Program Committee and the members of the Organizing Committee I would also like to thank Mrs H Evans for typing assistance

**Nonlinear Phenomena in Two-dimensional and Quasi-two-dimensional Electron Systems** Ilya Grigoryevich Finkler, 2008

**Two-Dimensional Electron Systems** E y Andrei, 1997-09-30 Recent studies on two dimensional systems have led to new insights into the fascinating interplay between physical properties and dimensionality Many of these ideas have emerged from work on electrons bound to the surface of a weakly polarizable substrate such as liquid helium or solid hydrogen The research on this subject continues to be at the forefront of modern condensed matter physics because of its fundamental simplicity as well as its connection to technologically useful devices This book is the first comprehensive overview of experimental and theoretical research in this exciting field It is intended to provide a coherent introduction for graduate students and non experts while at the same time serving as a reference source for active researchers in the field The chapters are written by individuals who made significant contributions and cover a variety of specialized topics These include the origin of the surface states tunneling and magneto tunneling out of these states the

phase diagram collective excitations transport and magneto transport      *The Physics of the Two-Dimensional Electron Gas*  
J.T. Devreese, F.M. Peeters, 2012-12-24 The 1986 Advanced Study Institute on The Physics of the two Dimensional Electron Gas took place at the Conference Centre liTer Helme close to Oostende Belgium from June 2 till 16 1986 We were motivated to organize this Advanced Study Institute in view of the recent experimental and theoretical progress in the study of the two dimensional electron gas An additional motivation was our own theoretical interest in cyclotron resonance in two dimensional electron systems at our institute It is my pleasure to thank several instances and people who made this Advanced Study Institute possible First of all the sponsor of the Advanced Study Institute the NATO Scientific Committee Furthermore the co sponsors Agfa Gevaert Bell Telephone Mfg Co N V Burroughs Belgium Control Data Digital Equipment Corporation Esso Belgium European Research Office USA Kredietbank National Science Foundation USA Special thanks are due to the members of the Program Committee and the members of the Organizing Committee I would also like to thank Mrs H Evans for typing assistance

**Tunneling Between Two Dimensional Electron Systems in a High Magnetic Field and Crystalline Phases of a Two Dimensional Electron System in a Magnetic Field** Filippos Klironomos, 2005 We further study the collective states formed by the 2D electrons at low Landau levels by working from a semi classical and microscopic perspective and evaluating the elastic moduli normal modes and zero point and cohesive energies of the different crystalline structures The effects of screening from filled Landau levels and finite thickness of the sample are found not to influence the overall interplay of the phases When probing the internal degrees of the crystalline structures the energy is lowered considerably which signifies that these degrees have a prominent physical importance      Two-Dimensional Electrons A. Isihara, STATE UNIV OF NEW YORK AT BUFFALO DEPT OF PHYSICS., 1985 Papers Submitted Two Dimensional Electrons in Strong Magnetic Field Low temperature Properties of Two Dimensional Electrons Effects of Level Broadening on the Magnetothermal Oscillations in Two Dimensional Electron Systems Magnetothermal Oscillations in a Two Dimensional Electron System Elementary Excitations and Energy Dispersion in TTF TCNQ Magnetoconductivity of 2D Conductors Memory Function for Cyclotron Resonance of Two Dimensional Electron Systems and Quantum Oscillations of 2D Electron Systems

**Probing Many-Body Liquids and Solids in Two-Dimensional Electron Systems** Kevin A. Villegas Rosales, 2021 This thesis covers many body liquids and solids occurring in two dimensional electron systems 2DESs confined to GaAs and AlAs quantum wells subjected to a large perpendicular magnetic field and cooled to very low temperatures In GaAs 2DESs we systematically explored the fractional quantum Hall liquid energy gap Then the Wigner solid and fractional quantum Hall liquid competition was investigated in AlAs 2DESs Also the very low disorder GaAs 2DESs allow us to probe the thermal melting of bubble phases a type of Wigner solid In the first part of this thesis we report a systematic experimental study that incorporates very high quality 2DESs confined to GaAs quantum wells with fixed density and varying well widths The results demonstrate a clear decrease of the fractional quantum Hall energy gap as the electron layer is made

thicker and the short range component of the Coulomb interaction is weakened We also provide a quantitative comparison between the measured energy gaps and the available theoretical calculations that take into account the role of finite layer thickness and Landau level mixing All the measured energy gaps fall below calculated values but as the electron layer thickness increases experiments and calculations are in better agreement Accounting for the role of disorder in a phenomenological manner we find better overall agreement between the measured and calculated energy gaps although some puzzling discrepancies remain Next the fate of the ground state of a 2DES at very low Landau level filling factors  $\nu$  where interaction reigns supreme was explored We report experimental data for a new 2DES where the electrons are confined to an AlAs quantum well The exceptionally high quality of the samples and the large electron effective mass allow us to determine the liquid solid phase diagram for the 2D electrons in a large range of filling factors near  $\nu = 1/3$  and  $\nu = 1/5$  The data and their comparison with an available theoretical phase diagram reveal the crucial role of Landau level mixing and finite electron layer thickness in determining the prevailing ground states In the latter part of this thesis we present the screening properties of bubble phases probed via a simple capacitance technique where the 2DES is placed between a top and a bottom gate and the electric field penetrating through the 2DES is measured The bubbles formed at very low temperatures screen the electric field poorly as they are pinned by the residual disorder potential allowing a large electric field to reach the top gate As the temperature is increased the penetrating electric field decreases and surprisingly exhibits a pronounced minimum at a temperature that appears to coincide with the melting temperature of the bubble phase We deduce a quantitative phase diagram for the transition from bubble to liquid phases for Landau level filling factors  $4 < \nu < 5$

Aspects of Critical Behavior of Two Dimensional Electron Systems Maxim A. Metlitski, 2011      Correlation Effects in Two-dimensional Electron Systems Realized in Quantum Well Structures and on the Surface of Liquid Helium Yury M. Vilks, 1992      **Thermopower in Two Dimensional Electron Systems** John Paul Oxley, 1991      **Spin-orbit Coupling Effects in Two-Dimensional Electron and Hole Systems** Roland Winkler, 2003-10-06 The first part provides a general introduction to the electronic structure of quasi two dimensional systems with a particular focus on group theoretical methods The main part of the monograph is devoted to spin orbit coupling phenomena at zero and nonzero magnetic fields Throughout the book the main focus is on a thorough discussion of the physical ideas and a detailed interpretation of the results Accurate numerical calculations are complemented by simple and transparent analytical models that capture the important physics      Interacting Two-Dimensional Electron and Hole Systems in Perpendicular Magnetic Fields Meng Ma, 2021 Electron and hole systems confined in two dimensions exhibit a plethora of exotic quantum phases under perpendicular magnetic field at sufficiently low temperature In this thesis we explore several of these quantum phases in state of the art high quality InAs and GaAs quantum wells and study their formation phase diagram and geometric resonance behavior under a one dimensional periodic magnetic modulation The two dimensional 2D electron system in an InAs quantum

well has emerged as a prime candidate for hosting exotic quasi particles with non abelian statistics such as Majorana fermions and parafermions To attain its full promise however the electron system has to be clean enough to exhibit electron electron interaction phenomena In the first part of the thesis we present the observation of the fractional quantum Hall effect in a very low disorder InAs quantum well At sufficiently low temperature and very high perpendicular magnetic field a deep minimum in the longitudinal resistance accompanied by a nearly quantized Hall plateau at Landau level filling factor  $\nu = 4/3$  was observed A sufficiently large perpendicular magnetic field quenches the kinetic Fermi energy of an interacting 2D system of fermions making them susceptible to the formation of a Wigner solid WS phase in which the charged carriers organize themselves in a periodic array to minimize their Coulomb repulsion energy In low disorder 2D electron systems confined to modulation doped GaAs heterostructures signatures of a magnetic field induced WS appear at low temperatures and very small Landau level filling factors  $\nu = 1/5$  In dilute GaAs 2D hole systems on the other hand thanks to the larger hole effective mass and the ensuing Landau level mixing the WS forms at relatively higher fillings  $\nu = 1/3$  In the second part of the thesis we present our measurements of the fundamental temperature vs filling phase diagram for the 2D holes WS liquid thermal melting Moreover via changing the 2D hole density we also probe their Landau level mixing vs filling WS liquid quantum melting phase diagram We find our data to be in good agreement with the results of very recent calculations although intriguing subtleties remain A high quality 2D electron system under a small perpendicular magnetic field exhibits ballistic cyclotron motion When the size of the cyclotron orbit is commensurate with an external one dimensional 1D density modulation a series of longitudinal resistance minima are observed as a result of this geometric resonance condition In a GaAs 2D electron system such 1D density modulation can be achieved through the piezoelectric effect along the 110 and  $\bar{1}\bar{1}0$  crystallographic directions In the third part of this thesis we discuss a technique that imposes a 1D magnetic modulation to the GaAs 2D electron system in the 100 and 010 crystallographic directions where the piezoelectric effect is essentially zero This technique can be implemented to study the geometric resonance of other 2D systems such as the AlAs 2D electron system where the major axes of the carrier pockets are along the  $\Gamma$  directions By extending this technique to higher perpendicular magnetic fields one can also add an additional tool to probe the physics of the composite fermion systems

Studies of Two-dimensional Electron Systems in Semiconductors at High Magnetic Fields David F. Howell, 1989

*Transport Properties of Single and Double Two Dimensional Electron Systems* Lijun Li, University of Exeter, 2003

Studies of Two-dimensional Electron Systems in Semiconductors at High Magnetic Fields David F. Howell, 1989

**Multi-valley Physics of Two-dimensional Electron Systems on Hydrogen-terminated Silicon (111) Surfaces**

Robert Nicholas McFarland, 2010      **Quantized Hall Effect in Two-Dimensional Electron Systems** A. Isihara, STATE UNIV OF NEW YORK AT BUFFALO DEPT OF PHYSICS., 1985 A strong feedback of density fluctuations to electron density density correlations leads to a nonlinear integral equation for the memory function in the magnetoconductivity of 2D electron

systems It is shown that this integral equation has a solution which represents the quantized Hall effect and that the solution is independent of impurity scattering Thus the quantized Hall effect is explained The quantized Hall effect has a very important practical application It provides the best standard for resistivity Additional keywords Equations and Naval research **Spin-dependent Transport Simulations in Two-dimensional Electron Systems** Jonas Siegl,2012

**Ground States of the Two-Dimensional Electron System at Half-Filling under Hydrostatic Pressure** Katherine A. Schreiber,2019-09-04 This thesis presents the discovery of a surprising phase transition between a topological and a broken symmetry phase Phase transitions between broken symmetry phases involve a change in symmetry and those between topological phases require a change in topological order in rare cases however transitions may occur between these two broad classes of phases in which the vanishing of the topological order is accompanied by the emergence of a broken symmetry This thesis describes observations of such a special phase transition in the two dimensional electron gas confined in the GaAs AlGaAs structures When tuned by hydrostatic pressure the  $\nu = 5/2$  and  $\nu = 7/2$  fractional quantum Hall states believed to be prototypical non Abelian topological phases of the Pfaffian universality class give way to an electronic nematic phase Remarkably the fractional quantum Hall states involved are due to pairing of emergent particles called composite fermions The findings reported here therefore provide an interesting example of competition of pairing and nematicity This thesis provides an introduction to quantum Hall physics of the two dimensional electron gas contains details of the high pressure experiments and offers a discussion of the ramifications and of the origins of the newly reported phase transition

The book delves into Two Dimensional Electron Systems. Two Dimensional Electron Systems is a vital topic that must be grasped by everyone, from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Two Dimensional Electron Systems, encompassing both the fundamentals and more intricate discussions.

1. The book is structured into several chapters, namely:
    - Chapter 1: Introduction to Two Dimensional Electron Systems
    - Chapter 2: Essential Elements of Two Dimensional Electron Systems
    - Chapter 3: Two Dimensional Electron Systems in Everyday Life
    - Chapter 4: Two Dimensional Electron Systems in Specific Contexts
    - Chapter 5: Conclusion
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  3. In chapter 2, the author will delve into the foundational concepts of Two Dimensional Electron Systems. The second chapter will elucidate the essential principles that need to be understood to grasp Two Dimensional Electron Systems in its entirety.
  4. In chapter 3, this book will examine the practical applications of Two Dimensional Electron Systems in daily life. The third chapter will showcase real-world examples of how Two Dimensional Electron Systems can be effectively utilized in everyday scenarios.
  5. In chapter 4, this book will scrutinize the relevance of Two Dimensional Electron Systems in specific contexts. This chapter will explore how Two Dimensional Electron Systems is applied in specialized fields, such as education, business, and technology.
  6. In chapter 5, the author will draw a conclusion about Two Dimensional Electron Systems. The final chapter will summarize the key points that have been discussed throughout the book.
- This book is crafted in an easy-to-understand language and is complemented by engaging illustrations. It is highly recommended for anyone seeking to gain a comprehensive understanding of Two Dimensional Electron Systems.

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