CURRICULUM VITAE
ALLAN HUGH MACDONALD

Office: 2515 Speedway, Stop C1609, Dept. of Physics
The University of Texas at Austin
(512) 232-9113 macd@physics.utexas.edu

TITLE:
Sid W. Richardson Foundation Regents Chair

DATE AND PLACE OF BIRTH:
December 1, 1951
Antigonish, Nova Scotia, Canada

CITIZENSHIPS:
Canadian and American

FIELD OF SPECIALIZATION:
Condensed Matter Theory

EDUCATION:
Ph.D. (1978) University of Toronto (Canada)
M.S. (1974) University of Toronto (Canada)
B.S. (1973) St. Francis Xavier University (Canada)

PROFESSIONAL EXPERIENCE

- Sid W. Richardson Foundation Regents Chair, September 2000 – present
  The University of Texas at Austin
- Distinguished Professor of Physics, September 1992 - August 2000
  Indiana University
- Professor of Physics, September 1987 - August 1992
  Indiana University
- Associate Research Scientist, August 1982 - August 1987
  National Research Council of Canada
- Assistant Research Associate, November 1980 - June 1982
  National Research Council of Canada
- Research Associate, May 1978 - October 1980
  National Research Council
- Ph.D. Student, September 1973 - April 1978
  University of Toronto

HONORS AND SCHOLARSHIPS:

- Ernst Mach Honorary Medal Academy of Sciences of the Czech Republic (2012)
- Fellow of National Academy of Sciences (2010)
- Outstanding Referee The American Physical Society (2008)
- Co-recipient of the Buckly Prize (2007)
- Fellow of the Academy of Arts and Sciences (2005)
- Sid W. Richardson Foundation Regents Chair (2000)
- Fellow of the American Physical Society, 1989
- Herzberg Medal, 1987 (Awarded by the Canadian Association of Physicists)
- NSERC 1967 Science Scholarship, University of Toronto, 1973–1977
- Governor-General's Medal, St. Francis Xavier University, 1973
  (Highest academic standing in graduating class)
- President's Scholarship, St. Francis Xavier University, 1969–1973

PAST POSTDOCTORAL RESEARCHERS and GRADUATE RESEARCH ASSISTANTS:

- **Ramin Abolfath,** faculty at University of Texas Southwestern
- **Yasufumi Araki, Postdoc, Tohoku University, Japan**
- **Hiroshi Akera,** faculty at Hokkaido University, Japan
- **Yasufumi Araki,** faculty at Tohoku Univeristy, Japan
- **Bill Atkinson,** faculty at Trent University, Canada
- **Sunoy Banerjee**, CAN Corporation
- **Yafis Barlas,** faculty at University of Nevada, Reno
- **Rafi Bistritzer,** Applied Materials, Israel
- **Martin Bonsager**, Medtronic
- **Anton Burkov,** faculty at University of Waterloo, Canada
- **Leni Bascones,** permanent research staff CSIS-Madrid, Spain
- **Jeff Canfield,** Norway Telecon
- **Gaurav Chaudhary,** Postdoc, University of Chicago
- **Rene Cote**, faculty at University of Sherbrooke, Canada
- **Ashley DaSilva,** Data Scientist at VIA, Canada
- **Rembert Duine,** faculty at Utrecht University, The Netherlands
- **Hua Chen,** faculty at Colorado State University
- **Dmitry Efimkin,** faculty at Monash University, Australia
- **Karin Evershor-Sitte**, Head of Emmy Noether Research Group TWIST, U of Mainz, Germany
- **Zhang Fan,** faculty at Univeristy of Texas at Dallas
- **Joaquin Fernandez-Rossier**, faculty at Alicante University, Spain
- **Benedetta Flebus,** faculty at Boston College
- **Ion Garate,** faculty at the University of Sherbrooke, Canada
- **Claudius Gros,** faculty at Goethe University Frankfurt, Germany
- **Paul Haney,** permanent research staff at N.I.S.T.
- **Charles Hanna,** faculty at Boise State University
- **Rohit Hegde**, Managing Director, Adeep Group Companies
- **Hsiang-Hsuan Hung**, Data Scientist, ThreatMetrix, A LexisNexis Risk Solutions Company
- **Yogesh Joglekar,** faculty at Indiana/Purdue University
- **Jeil Jung,** faculty at the University of Seoul, Korea
- **Tomas Jungwirth,** Czech Academy of Sciences, Czech Republic

- **Guru Khalsa,** Research Associate at Cornell University
- **Jurgen Konig,** faculty at Ruhr University Bochum, Germany
- **Nicolas Leconte**, Research Professor, University of Seoul
- **Byounghak Lee,** Samsung (Silicon Valley)
- **Wei-Cheng Lee,** faculty at Binghamton University
- **Xiao Li, Postdoc,** University of Maryland, College Park
- **Hsiu-Hau Lin,** faculty at National Tsing-Hua University, Taiwan
- **Lukas Linhart**, Postdoc, TU Wien: Technische University Vienna
- **Timothy Lovorn,** Marginal Unit Inc (Energy Grid Software)
- **Massoud Masir,** Senior Manager, Machine Learning Research Scientist, QuinStreet
- **Hongki Min,** faculty at Seoul National University, Korea
- **Kentaro Nomura,** faculty at Tohoku University, Japan
- **Alvaro Nunez,** faculty at the University of Chile, Chile
- **Juan Jose Palacios**, faculty member at Alicante University, Spain
- **Lapas Panteleimon**, Project Engineer, Aristoteleion University of Thessaloniki
- **Emiliano Papa**, Deutche Bank, London, United Kingdom
- **Tami Pereg-Barnea,** faculty at McGill University, Canada
- **Dmytro Pesin**, faculty member at the University of Virginia
- **Kenneth Poissonnier**, Postdoc, Technische Universiteit Eindhoven-Netherlands
- **Pawel Potasz,** faculty member at Nicolaus Copernicus University
- **Zhenhua Qiao,** faculty member at USTC, China
- **Yafei Ren,** postdoctoral researcher at University of Washington, Seattle
- **Enrico Rossi,** faculty at William and Mary University
- **John Schliemann,** faculty member the University of Regensberg, Germany
- **Akihiko Sekine,** researcher at RIKEN Laboratory, Japan
- **Yun-Pil Shim,** University of Texas at El Paso
- **Nikolai Sinitsyn,** permanent research staff at Los Alamos National Laboratory
- **Jairo Sinova**, faculty at Gutenberg University Mainz, Germany
- **Matthias Sitte**, Postdoc, University of Mainz, Germany
- **Inti Sodemann,** Pappalardo Fellow, MIT
- **Eric Sorensen**, faculty at McMaster University, Canada
- **Jung-Jung Su**, faculty at NCTU, Taiwan
- **Kharen Tevosyan,** Microsoft
- **John Tolsma**, Quantitative Researcher & Trader ETH Zurich
- **Wang-Kong (James) Tse,** faculty at the University of Alabama
- **C.C. Joseph Wang,** permanent research staff at Chevron
- **Fengcheng Wu,** postdoctoral researcher at the University of Maryland
- **Ming Xie,** postdoctoral researcher at the University of Maryland
- **Fei Xue,** postdoctoral researcher at NIST
- **Eric Yang,** Korea University, Korea
- **Ulrich Zuelicke**, faculty at University of Canterbury, New Zealand

CURRENT POSTDOCTORAL RESEARCHERS:

- **Chao Lei**
- **Chun-Li Huang**
- **Wei Qin**

RESEARCH INTERESTS AND HIGHLIGHTS:

My primary research interests center on the influence of electron-electron interactions on the electronic properties of metals and semiconductors. My research is driven, for the most part, by experiment rather than by theoretical technique. My technical interests cover a broad swath within the condensed matter theory subfield, ranging from pragmatic techniques for electronic structure calculations on the more traditional side to the more trendy field theoretical approaches. In the following paragraph, I briefly summarize the topics on which I have worked.

My Ph.D. thesis research, performed under the supervision of S. H. Vosko at the University of Toronto, was part of a body of work in the late 1970's, which demonstrated the power of spin-density-functional based approximations in describing many ground state properties of metallic magnets. One aspect of my thesis work was a relativistic generalization of the Hohenberg-Kohn-Sham density functional theory, reported in a paper ([11]), which is still regularly cited. My postdoctoral research work, performed at the laboratories of the National Research Council of Canada and motivated in part by experimental work in that lab, centered on the lattice dynamics and transport properties of metals. This work brought our understanding of carrier-carrier scattering effects in simple metals to a quantitative level for the first time and identified ([20]) phonon-mediated scattering as a dominant process in many metals. The work on transport theory in metals led to an interest in the quantum Hall effect, a transport anomaly that occurs in degenerate two-dimensional semiconductor systems in strong magnetic fields. My first work in this area ([48]) was carried out while visiting with Maurice Rice at the ETH in Zurich. It focused on some perplexing questions concerning the spatial distribution of current in the quantum Hall regime which subsequently received a great deal of attention. The following summer, while working at the physics center in Trieste in collaboration with Pavel Streda, I wrote an early paper ([61]) on the relationship between the Kubo formula description of the integer quantum Hall effect, which was being developed by Streda, Thouless, and others, and the edge state picture, being developed by Laughlin, Halperin and others.

By this time my primary interest had shifted from transport theory to the many-body physics problem underlying the fractional quantum Hall effect, namely the problem of interacting electrons in a macroscopically degenerate Landau level which can be tackled only with non-perturbative techniques. Working with Steve Girvin and Phil Platzman in Aspen in 1984, I employed a sum rule approach ([78]) similar to that used by Feynman for liquid Helium to address the collective excitations of fractional Hall states. In collaboration with Mark Rasolt ([83]), I used a similar approach to look at Goldstone modes in the broken symmetry states, which frequently arise, in the fractional Hall regime when the electrons possess additional degrees of freedom. Steve Girvin and I pointed out ([91]) an unusual long-range-order property in Laughlin's quantum Hall states. This paper was the harbinger of Chern-Simons field theory approaches to fractional Hall effect theory. In 1990 I proposed ([110]), on the basis of microscopic considerations, that the description of the low energy physics of fractional Hall edge required, in general, multi-branch one-dimensional Fermion models. This year also marked a return to my interest in broken symmetries in fractional Hall systems with additional degrees of freedom. I pointed out that ([116]) that double-layer quantum Hall systems could have a broken symmetry in their ground state like that in easy plane ferromagnets and estimated the phase boundary which delimited the stability region of the broken symmetry states. More recent work on this topic ([177]) has focused on the properties of these states when a magnetic field is

applied in the plane of the 2D electron layers. With René Côté I developed ([156]) techniques, originally applied to the Wigner crystal state, which enabled accurate calculations of physical properties of electronic states in the quantum Hall regime with broken translational symmetry. These techniques have provided the backbone for a series of recent calculations ([254]) of the properties of skyrmion crystal states in quantum Hall ferromagnets.

In recent years, a smaller fraction of my research effort has been devoted to the fractional quantum Hall effect. In collaboration with students at Indiana University, I have completed work on the vortex-lattice melting transition ([171]), and on microscopic properties of the mixed state of type-II superconductors. I maintain an interest in the properties of two-dimensional electronic systems, in both zero field and strong field limits. I have also returned to the subject of my thesis research, metallic magnetism. I am particularly interested in the transport properties of metallic magnets, and at present, especially the properties of magnetic tunnel junctions.

The numbers above refer to the publication list below.

PROFESSIONAL ACTIVITIES:

2014 Chair, International Conference on Magnetism - to take place in San Francisco in 2018

2014 2014 International Conference on the Physics of Semiconductors: Vice Chair

2013 Advisory Committee, William Fine Center for theoretical physics

2013 Meeting Chair, Magnetism and Magnetic Materials Conference

2013 Meeting Chair, APS March Meeting 2014

2013 Advisory Panel Coordinator, Ran conference `Concepts in Spintronics' UCSB

2013 Review Committee**,** Dublin, Ireland - Irish Science Academy reviewing the CRANN Research Centre at Trinity College

2013 Advisory Panel, Center for Integrative Nanotechnology (CINT) - Sandia National Labs

2013 Simons Foundation Advisory Panel

2013 Vice-Chair for the 2014 International Conference on Semiconductors - to be held in Austin July 2014

2013 Chair of the Division of Condensed Matter Physics of the APS

2003 Review Panel, Materials Science Division at Argonne National Lab

1998 13th International Conference on Semiconductors in a Magnetic Field, Nijmegan,

Netherlands

1998 Advisory Committee, Institute for Theoretical Physics program on "Interaction and Disorder in Quantum Hall and Mesoscopic Systems

1998 Member of NRC Subpanel for NIST Center for Neutron Research

1997 Advisory Committee, Aspen Winter Conference on Condensed Matter

1997 Guest expert for European Science Foundation Meeting on the scientific case for the European Large Magnetic Field Facility (ELMF)

1997 Member of evaluation panel for a proposed high continuous magnetic field facility at Nijmegan for the Foundation for Fundamental Research on Matter (Netherlands)

1997 Member of NSF CAREER proposal review panel

1995 International Advisory Committee, 10th International Conference on Electronic Properties of Two-Dimensional Systems, Nottingham, UK

1995 Member, Executive Committee, DCMP, American Physical Society

1994 Chair of the Buckley Prize Committee for the American Physical Society

1994 Divisional Associate Editor for Physical Review Letters

1994 Program Committee, 11th International Conference on Semiconductors in a Magnetic Field, Boston MA

1993 Chair of the μSR Experiment Evaluation Committee for TRIUMF

1993 Program Committee, 9th International Conference on Electronic Properties of Two-Dimensional Systems, Newport, RI

1993 Member of Buckley Prize Committee for the American Physical Society

1990 Member of the μSR Experiment Evaluation Committee for TRIUMF

1990 Co-organizer, Aspen Workshop on Quantum Transport in Restricted Geometries, Aspen, Colorado

1990 Editorial Board of Solid State Communications

1988 Consultant for the Max Plank Institute for Solid State Research, Stuttgart, Germany

1987 Past Chair, Condensed Matter Division, Canadian Association of Physicists

1987 International Advisory Committee, 7th International Conference on Electronic Properties of Two-Dimensional Systems, New Mexico

1986 Chair, Condensed Matter Division, Canadian Association of Physicists

1986 Director, Summer Workshop on the Physics of Artificially Structured Materials, Kingston

1985 Deputy Chair, Condensed Matter Division, Canadian Association of Physicists

1981 Member of Local Organizing Committee, International Conference on Transport in Metals, Ottawa

PATENTS:

"Method for controlling magnetic exchange bias in magnetic sensors within a data storage device", Tsoi, Maxim (Austin, TX); ***MacDonald,*** **Allan H.** (Austin, TX)
Application #60/915,705

"Bi-layer pseudo-spin field-effect transistor", Banerjee; Sanjay K. (Austin, TX), Register, II; Leonard Franklin (Round Rock, TX), ***MacDonald*****; Allan** (Austin, TX), Palle; Dharmendar Reddy (Austin, TX), Tutuc; Emanuel (Austin, TX),

Family ID: 42195397

Appl. No.: 13/461,212

Filed: May 1, 2012

PUBLICATIONS:

810 Libor, Šmejkal, MacDonald, A. H., Sinova, J., Nakatsuji, S., and Jungwirth, T., "Anomalous Hall antiferromagnets," arXiv:2107.03321 (July 7, 2021).

809 Portolés, E., Zheng, G., de Vries, F. K., Zhu, J., Tomić, Petar, Takashi T., Watanabe, K., MacDonald, A. H., Ensslin, K., Ihn, T., and Rickhaus, P., "Fabry-Pérot cavities and quantum dot formation at gate-defined interfaces in twisted double bilayer graphene," arXiv:2107.14299 (July 29, 2021).

808 Hu, Naichao, and MacDonald, A. H., "Competing magnetic states in transition metal dichalcogenice moiré materials," arXiv:2108.02159 (August 4, 2021).

807 Morales-Durán, N., Hu, Naichao, Potasz, P., and MacDonald, A. H., "Non-local interactions in moiré Hubbard systems," arXiv:2108.03313v1 (August 6, 2021).

806 Flebus, B., and MacDonald, A. H., "Charged Defects and Phonon Hall Effects in Ionic Crystals," arXiv:2106.13889 (July 26, 2021).

805 Pournaghavi, N., Pertsova, A., MacDonald, A. H., and Canali, C., "Non-local sidewall response and finite thickness corrections to the topological magnetoelectric effect in thin films," arXiv:2107.02410 (July 6, 2021).

804 Lei, C., Chen, H., and MacDonald, A. H., "Large Anomalous Hall Effect in Topological Insulators Proximitized by Collinear Antiferromagnets," arXiv:2107.02307 (July 5, 2021).

803 Lei, C., Heinonen, O., MacDonald, A. H., and McQueeney, R. J., "Metamagnetism of few-layer topological antiferromagnets," Phys. Rev. Materials **5**, 064201 (June 8, 2021).

802 Tiene, A., Levinsen, J., Parish, M. M., MacDonald, A. H., Keeling, J., and Marchetti, F. M., "Extremely imbalanced two-dimensional electron-hole-photon systems," Phys. Rev. Research **2**, 023089 (April 28, 2020).

801 Lei, C., and MacDonald, A. H., "Gate-tunable quantum anomalous Hall effects in MnBi2Te4 thin films," Phys. Rev. Materials **5**, L051201 (May 27, 2021).

800 Chaudhary, G., MacDonald, A.H., Norman, M.R., "Quantum Hall Superconductivity from Moiré Landau Levels," arXiv:2105.01243 (May 6, 2021).

799 Singh, C.N., Crafton, B.A., West, M.P., Weidenbach, A.S., Butler, K.T., MacDonald, A.H., Raychowdury, A., Vogel, E.M., Doolittle, W.A., Piper, L.F.J., and Lee, W.-C., "Quantum Statistical Transport Phenomena in Memristive Computing Architectures," Phys. Rev. Applied **15**, 054030 (May 14, 2021).

798 Lei, C. and MacDonald, A.H., "Silicon Donor Array as a Disordered One-Dimensional Electron Gas," arXiv:2105.07871v2 (May 20, 2021).

797 "In-plane critical magnetic fields in magic-angle twisted trilayer graphene," Qin, W. and MacDonald, A.H., arXiv:2104/14026v1, (April 30, 2021).

796 "Quantum Hall Superconductivity from Moiré Landau Levels," Chaudhary, G., MacDonald, A.H., Norman, M.R., arXiv:2105.01243 (May 11, 2021).

795 "Quantum Statistical Transport Phenomena in Memristive Computing Architectures," Singh, C.N., Crafton, B.A., West, M.P., Weidenbach, A.S., Butler, K.T., MacDonald, A.H., Raychowdury, A., Vogel, E.M., Doolittle, W.A., Piper, L.F.J., and Lee, W.-C., Phys. Rev. Applied **15**, 054030 (May 14, 2021).

794 "Silicon Donor Array as a Disordered One-Dimensional Electron Gas," Lei, C. and MacDonald, A.H., arXiv:2105.07871v2 (May 20, 2021).

793 "Strongly correlated excitonic insulator in atomic double layers," Ma, L, Nguyen, P. X., Wang, Z., Zeng, Y., Watanabe, K., Taniguchi, T., MacDonald, A. H., Mak, K. F., and Shan, J., arXiv:2104.05066 (April 13, 2021).

792 "Group Convolutional Neural Networks Improve Quantum State Accuracy," Roth, C., and MacDonald, A. H., arXiv:2104.05085v1 (April 11, 2021).

791 "Mirror Symmetry Breaking and Stacking-Shift Dependence in Twisted Trilayer Graphene," Lei, C., Linhart, L., Qin, W., Libisch, F., and MacDonald, A. H., arXiv:2010.05787v2 (April 7, 2021).

790 "Magnetic flat band in metallic kagome lattice FeSn," Xie, Y., Chen, Lebing, Yin, Z., Chen, T., Wang, Q., Yin, Q., Stewart, J. R., Feng, E., Cao, H., MacDonald, A. H., and Dai, P., arXiv:2103.12873v1 (March 23, 2021).

789 "Phonon Renormalization in Reconstructed MoS2 Moiré Superlattices," Quan, J., Linhart, L., Lin, M.-L., Lee, D., Zhu, J., Wang, C.-Y., Hsu, W-T., Choi, J., Embley, J., Young, C., Taniguchi, T., Watanabe, K., Shih, C.-K., Lai, K., MacDonald, A. H., Tan, P.-H., Libisch, F., and Li, X., Nature Materials (March 22, 2021).

788 "PTCDA molecular monolayer on Pb thin films: An unusual {\pi}-electron Kondo system and its interplay with quantum-confined superconductor," Lu, X., Nam, H., Xiao, P., Liu, M., Guo, Y., Bai, Y., Cheng, Z., Deng, J., Li, Y., Zhou, H., Henkelman, G., Fiete, G. A., Gao, H.-J., MacDonald, A. H., Zhang, C., and Shih, C.-K., arXiv:2102.11471 (March 2021).

787 "Scattering of magnons at graphene quantum-Hall-magnet junctions," Wei, N., Huang, C., and MacDonald, A. H., Phys Rev Lett **126**, 117203 (March 18, 2021).

786 "Γ-Valley Transition-Metal-Dichalcogenide Moirè Bands," Angeli, M., and MacDonald, A. H., PNAS **118** (10) e2021826118 (March 9, 2021).

785 "The marvels of moiré materials," Andrei E. Y., Efetov, D. K., Jarillo-Herrero, P., MacDonald, A. H., Mak, K. F., Senthil, T., Tutuc, E., Yazdani, A., and Young, A. F., Nature Review Materials **6**, 201-206 (March 3, 2021).

784 "Critical magnetic fields and electron-pairing in magic-angle twisted bilayer graphene," Qin, W., Zou, B., and MacDonald, A. H., arXiv:2102.10504v1 (February 23, 2021).

783 "Magnetoelectric Response of Antiferromagnetic Crl3 Bilayers," Lei, C., Chittari, B. L., Nomura, K., Banerjee, N., Jung, J., and MacDonald, A. H., Nano Letters **21** 5, 1948-1954 (February 18, 2021).

782 "Moiré Commensurability and the quantum anomalous Hall effect in twisted bilayer graphene on hexagonal boron nitride," Shi, J., Zhu, J., and MacDonald, A. H., Physical Review B **103,** 075122 **(**February 11, 2021).

781 "Exact Diagonalization for Magic-Angle Twisted Bilayer Graphene," Potasz, P., Xie, M., and MacDonald, A. H. arXiv:2102.02256v1 (February 5, 2021).

780 "Strong-Magnetic-Field Magnon Transport in Monolayer Graphene," Zhou, H., Huang, C., Wei, N., Taniguchi, T., Watanabe, K., Zaletel, M. P., Zlatko, P., MacDonald, A. H., and Young, A., arXiv:2102.01061v1 (February 2, 2021).

779 "Current Driven Magnetization Reversal in Orbital Chern Insulators," Huang, C., Wei, N., and MacDonald, A. H. Phys Rev Lett **126**, 056801 (February 2, 2021).

778 "Electron-exciton interactions in the exciton-polaron problem," Efimkin, D. K., Laird, E. K., Levinsen, J., Parish, M. M., and MacDonald, A. H., Phys Rev B **103**, 075417 (February 10, 2021).

777 "Floquet-engineering topological transitions in a twisted transition metal dichalcogenide homobilayer," Vogl, M., Rodriquez-Vega, M., Flebus, B., MacDonald, A. H., Fiete, G. A., Phys Rev B **103**, 014310 (January 28, 2021).

776 "Topological Edge Transport in Twisted Double-Bilayer Graphene," Wang, Y., Herzog-Arbeitman, J., Burg, G. W., Zhu, J., Watanabe, K., Taniguchi, T., MacDonald, A. H., Bernevig, B. A., and Tutuc, E., arXiv:2101:03621 (January 10, 2021).

775 "WKB estimate of bilayer graphene's magic twist angles," Ren, Y., Gao, Q., MacDonald, A. H., and Niu, Q., Phys Rev Lett **126**, 016404 (January 6, 2021).

774 "**Author Correction to**: Graphene Bilayers with a Twist," Andrei, E. Y., and MacDonald, A. H., Nature Materials **20**, 571 (January 5, 2021).

773 "Competing zero-field Chern insulators in Superconducting Twisted Bilayer Graphene," Stepanov, P., Xie, M., Taniguchi, T., Watanabe, K., Lu, X., MacDonald, A. H., Bernevig, B. A., and Efetov, D. K., arXiv:2012.15126 (December 30, 2020).

772 "Multiple Flat Bands and Topological Hofstadter Butterfly in Twisted Bilayer Graphene Close to the Second Magic Angle," Lu, X., Lian, B., Chaudhary, G., Piot, B. A., Romagnoli, G., Watanabe, K., Taniguchi, T., Poggio, M., MacDonald, A. H., Bernevig, B. A., and Efetov, D., arXiv:2006.13963 (December 24, 2020).

771 "Metal-insulator transition in transition metal dichalcogenide heterobilayer moiré superlattices," Morales-Durán, N., Potasz, P., and MacDonald, A. H., arXiv:2011.13558v1 (November 27, 2020).

770 "Voltage-Controlled Magnetic Reversal in Orbital Chern Insultators," Zhu, J., Su, J.-J., and MacDonald, A. H., Phys. Rev. Lett. **125**, 227702 (November 24, 2020).

769 "Electrical switching of magnetic order in an orbital Chern insulator," Polshyn, H., Zhu, J., Kumar, M. A., Zhang, Y., Yang, F., Tschirhart, C. L., Serlin, M., Watanabe, K., Taniguchi, T., MacDonald, A. H., and Young, A. F., Nature **588**, 66-70 (November 23, 2020).

768 "Graphene Bilayers with a Twist," Andrei, E. Y., and MacDonald, A. H., Nature Materials **19**, 1265-1275 (November 18, 2020).

767 "Magnetized Topological Insulator Multilayers," Lei, C., Chen, S., and MacDonald, A. H., PNAS **117** (44) 27224-27230 (November 3, 2020).

766 "Anomalous drag in electron-hole condensates with granulated order," Liu, H., MacDonald, A. H., and Efimkin, D. K., arXiv:2010.15298v1 (October 30, 2020).

765 "Combined valley and layer control in twisted double bilayer graphene," de Vries, F. K., Zhu, J., Portolés, E., Zheng, G., Masseroni, M., Kurzmann, A., Taniguchi, T., Watanabe, K., MacDonald, A. H., Ensslin, K., Ihn, T., and Rickhaus, P., Phys, Rev. Lett. **125**, 176801 (October 20, 2020).

764 "Valley Pumping via Edge States and the Nonlocal Valley Hall Effect in Two-Dimensional Semiconductors," Sekine, A., and MacDonald, A. H., Phys. Rev. B **102**, 1055205 (October 20, 2020).

763 "Weak-field Hall Resistivity and Spin/Valley Flavor Symmetry Breaking in MAtBG," Xie, M., and MacDonald, A. H., arXiv:2010.07928v1 (October 16, 2020).

762 "Lattice Collective Modes from a Continuum Model of Magic-Angle Twisted Bilayer Graphene," Kumar, A., Xie, M., and MacDonald, A. H., arXiv:2010.05936v1 (October 12, 2020).

761 "Majorana Zero Modes in Cylindrical Semiconductor Quantum Wire," Lei, C., Khalsa, G., Du, J., and MacDonald, A. H., arXiv:2009:12640v1 (September 26, 2020).

760 "Theory of Photon Condensation in a Spatially-Varying Electromagnetic Field," Andolina, G. M., Pellegrino, F. M. D., Giovannetti, V., MacDonald, A. H., and Polini, M., Phys. Rev. B **102**, 125137 (September 21, 2020).

759 "Majorana-based quantum computing in nanowire devices," Tutschku, C., Reinthaler, R. W., Lei, C., Hankiewicz, E. M., and MacDonald, A. H., Physical Review B **102**, 125407 (September 3, 2020).

758 "Electrically Controlled Two-Dimensional Electron-Hole Fluids," Zeng, Y., and MacDonald, A. H., Phys Rev B **102**, 085154 (August 31, 2020).

757 "Higgs-like modes in two-dimensional spatially indirect exciton condensates," Xue, F., Wu, F., and MacDonald, A. H., Phys Rev B **102**, 075136 (August 25, 2020).

756 "Theory of ARPES in Graphene-Based Moiré Superlattices," Zhu, J., Shi, J., and MacDonald, A. H., arXiv:2006.08908v1 (August 10, 2020).

755 "Unveiling Defect-Mediated Carrier Dynamics in Monolayer Semiconductors by Spatiotemporal Microwave Imaging," Chu, Z., Wang, C.-Y., Quan, J., Zhang, C., Lei, C., Han, A., Ma, X., Tang, H.-L., Abeysinghe, D., Staab, C., Zhang, X., MacDonald, A. H., Tung, V., Li, X., Shih, C.-K., and Lai, K., PNAS **117** (25), 13908-13913 (June 23, 2020).

754 "Linear magnetoresistance induced by intra-scattering semiclassics of Bloch electrons," Xiao, C., Chen, H., Gao, Y., Xiao, D., MacDonald, A. H., and Niu, Q., Phys Rev B **101**, 201410(R) (May 27, 2020).

753 "Density-Wave States in Twisted Double-Bilayer Graphene," Rickhaus, P., de Vries, F. K., Zhu, J., Portolés, E., Zheng, G., Masseroni, M., Kurzmann, A., Taniguchi, T., Wantanabe, K., MacDonald, A. H., Ihn, T., and Ensslin, K., arXiv: 2005.05373v2 (May 18, 2020).

752 "Electronic structure of carbon nonotubes on graphene substrates," Flebus, B., and MacDonald, A. H., Phys. Rev. Research **2**, 022041(4) (May 15, 2020).

751 "Topological Quantum Computing Using Nanowire Devices," Tutschku, C., Reinthaler, R. W., Lei, C., MacDonald, A. H., and Hankiewicz, E. M., arXiv:1910.11075v2 (March 31, 2020).

750 "Manipulating Anomalous Hall Antiferromagnets with Magnetic Fields," Chen, H., Wang, T.-C., Xiao, D., Guo, G.-Y., Niu, Q., and MacDonald, A. H., Physical Review B **101**, 104418 (March 26, 2020).

749 "Simulation of Hubbard model physics in WSe2/WS2 moiré superlattices," Tang, Y., Li, L., Li, T., Xu, Y., Liu, S., Barmak, K., Watanabe, K., Taniguchi, T., MacDonald, A. H., Shan, J., Mak, K. F., Nature **579**, 353-358 (March 18, 2020).

748 "Nature of the Correlated Insulator States in Twisted Bilayer Graphene." Xie, M., and MacDonald, A. H., Phys Rev Lett **124**, 097601 (March 2, 2020).

747 "Resonant photovoltaic effect in doped magnetic semiconductors." Bhalla, P., MacDonald, A. H., and Culcer, D., Phys Rev Lett **124**, 087402 (February 27, 2020).

746 Carrier and strain tunable intrinsic magnetism in two-dimensional MAX3 transition metal chalcogenides," Chittari, B. L., Lee, D., MacDonald, A. H., Hwang, E., and Jung, J., " Physical Review B 101, 085415 (February 20, 2020).

745 "Combined valley and layer control in twisted double bilayer graphene." de Vries, F. K., Zhu, J., Portolés, E., Zheng, G., Masseroni, M., Kurzmann, A., Taniguchi, T., Watanabe,

K., MacDonald, A. H., Ensslin, K., Ihn, T., and Rickhaus, P., arXiv:2002.05267v1 (February 14, 2020).

744 "Crescent states in charge-imbalanced polariton condensates." Strashko, A., Marchetti, F. M., MacDonald, A. H., and Keeling, J., arXiv:2001.07726v1, (January 23, 2020).

743 "Correlated Insulating States in Twisted Double Bilayer Graphene." Burg, G. W., Zhu, Jihang, Taniguchi, T., Watanabe, K., MacDonald, A. H., and Tutuc, E., Physical Review Letters 123 (19), 197702 (November 21, 2019).

742 "Topological Quantum Computing Using Nanowire Devices." Tutschku, C., Reinthaler, R. W., Lei, C., MacDonald, A. H., and Hankiewicz, E. M., arXiv:1910.11075v1 (October 24, 2019).

741 "Observation of Rydberg exciton polaritons and their condensate in a perovskite cavity." Bao, W., Liu, X., Xue, F., Zheng, F., Tao, R., Wang, S., Xia, Y., Zhao, M., Kim, J., Yang, S., Li, Q., Wang, Y., Wang, Y., Wang, L.-W., MacDonald, A. H., and Zhang, X., PNAS, (September 23, 2019).

740 "Cavity quantum electrodynamics of strongly correlated electron systems: A no-go theorem for photon condensation." Andolina, G. M., Pellegrino, F. M. D., Giovannetti, V., MacDonald, A. H., and Polini, M., Phys Rev B **100**, 121109(R) (September 18, 2019).

739 "Dynamic disorder induced memristance in amorphous solids." Singh, C. S., Butler, K. T., MacDonald, A. H., Piper, L. F. J., and Lee, W.-C., arXiv:1908.08070 (August 21, 2019).

738 "Tunneling density of states, correlation energy, and spin polarization in the fractional quantum Hall regime." Chaudhary, G., Efimkin, D., and MacDonald, A. H., Phys Rev B **100**, 085107 (August 2, 2019).

737 "Electronic Structure of Single-Twist Trilayer Graphene." Li, X., Wu, Fengcheng, MacDonald, A. H., "," arXiv:1907.12338, July 29, 2019.

736 "Spin Hall effect without spin currents in magnetic insulators." Chen, H., Niu, Q., and MacDonald, A. H., arXiv:1803.01294v1 (May 14, 2019).

735 "Vortex Lattice Structure and Topological Superconductivity in the Quantum Hall Regime." Chaudhary, G., and MacDonald, A. H., Phys Rev B **101**, 024516 (January 9, 2020).

734 "Terahertz Faraday and Kerr rotation spectroscopy of Bi1−Sbx films in high magnetic fields up to 30 Tesla." Li, X., Yoshioka, K., Xie, M., Noe II, G. T., Lee, W., Peraca, N. M., Gao, W., Hagiwara, T., Orjan, H. S., Nien, L.-W., Nagao, T., Kitajima, M., Nojiri,

H., Shih, C.-K., MacDonald, A. H., Katayama, I., Takeda, J., Fiete, G. A., Kono, J., Phys Rev B **100,** 115145 (September 19, 2019).

733 "Superconductors, Orbital Magnets, and Correlated States in Magic Angle Bilayer Graphene." Lu, X., Stephanov, P., Yang, W., Xie, M., Aamir, M. A., Das, I., Urgell, C., Watanabe, K., Taniguchi, T., Zhang, G., Bachtold, A., MacDonald, A. H., and Efetov, D. K., arXiv:1903.06513, 2019.

732 "Tunneling and Fluctuating Electron-Hole Cooper Pairs in Double Bilayer Graphene." Efimkin, D. K., Burg, G. W., Tutuc, E., and MacDonald, A. H., Phys Rev B **101**, 035413 (January 15, 2020).

731 "Anomalous Drag in Double Bilayer Graphene Quantum-Hall Superfluids." Xie, M., and MacDonald, A. H., arXiv:1903.02178v1, 2019.

730 "Quantum Anomlous Hall Effect through Canted Antiferromagnetism." Li, X., MacDonald, A. H., and Chen, H., arXiv.1902.10650v1, 2019.

729 "Evidence for moiré excitons in van der Waals heterostructures." Tran, K., Moody, G., Wu, F., Lu, Xiaobo, Choi, J., Kim, K., Rai, A., Sanchez, D. A., Quan, J., Singh, A., Embley, J., Zepeda, A., Campbell, M., Autry, T., Taniguchi, T., Watanabe, K., Lu, N., Banerjee, S. K., Silverman, K. L., Kim, S., Tutuc, E., Yang, L., MacDonald, A. H., and Li, X., Nature **567**, 71-75, February 25, 2019.

728 "Magnetoelectric Response of Antiferromagnetic Van der Waals Bilayers." Lei, C., Chittari, B. L., Nomura, K., Banerjee, N., Jung, J., and MacDonald, A. H., arXiv:1902.06418v1, 2019.

727 "Topological insulators in twisted transition metal dichalcogenide homobilayers." Wu, F., Lovorn, T., Tutuc, E., Martin, I., and MacDonald, A. H., Physical Review Letters, **122**, 086402, February 28, 2019.

726 "Unidirectional Magneto-Resistance in Modulation-Doped Magnetic Topological Insulators." Fan, Y., Shao, Q., Pan, L., Che, X., He, Q., Yin, G., Zheng, C., Yu, G., Nie, T., Masir, M., MacDonald, A. H., and Wang, K. L., Nano Letters, 19, 2, 692-698, January 2019.

725 "Dynamic axion field in the magnetoelectric antiferromagnet chromia." Wang, J., Lei, C., MacDonald, A. H., and Binek, C., arXiv.1901.08536, 2019.

724 "Magnetic and magnetic inverse spin Hall effects in a non-collinear antiferromagnet." Kimata, M., Chen, H., Kondou, K., Sugimoto, S, Muduli, P. K., Ikhlas, M., Omori, Y., Tomita, T., MacDonald, A. H., Nakatsuji, S., and Otani, Y., Nature **565**, 627-630, 2019.

723 "Tunneling density of states, correlation energy, and spin polarization in the fractional quantum Hall regime." Chaudhary, G., Efimkin, D., and MacDonald, A. H., Phys Rev B **100**, 085107 (August 2, 2019).

722 "Quantum Parity Hall effect in Bernal-stacked trilayer graphene." Stephanov, P., Barlas, Y., Che, S., Myhro, K., Voigt, G., Pi, Z., Watanabe, K., Taniguchi, T., Smirnov, D., Zhang, F., Lake, R., MacDonald, A., and Lau, C. N., PNAS **116** (21) 10286-10290 (May 21, 2019).

721 "Moiré Excitons in Van der Waals Heterostructures." Tran, K., Moody, G., Wu, F., Lu, X., Choi, J., Singh, A., Embley, J., Zepeda, A., Campbell, M., Kim, K., Rai, A., Autry, T., Sanchez, D. A., Taniguchi, T., Watanabe, K., Lu, N., Banerjee, S. K., Tutuc, E., Yang, L., MacDonald, A. H., Silverman, K. L., and Li, X., Nature **567**, 71-75 (February 25, 2019).

720 "Geometric quenching of orbital pair breaking in a single crystalline superconducting nanomesh network." Nam, H., Chen, H., Adams, P. W., Guan, S.-Y., Chuang, T.-M., Chang, C.-S., MacDonald, A. H., and Shih, C.-K., Nature Communications **9**, 5431, 2018.

719 "Energy-Resolved Photoconductivity Mapping in a Monolayer-Bilayer WSe2 Lateral Heterostructure." Chu, Z., Han, A., Lei, C., Lopatin, S., Li, P., Wannlund, D., Wu, D., Herrera, K., Zhang, X., MacDonald, A. H., Li, X., Li, L.-J., and Lai, K., Nano Lett 2018.

718 "Anomalies in magneto-transport in spin-orbit coupled systems." Culcer, D., Marcellina, E., Liu, H., Hamilton, A. R., Sekine A., and MacDonald, A. H., SPIE Digital Library. Vol. 10732, Spintronics XI, 107320N.

717 "Pressure-induced phase transitions and superconductivity in a black phosphorus single crystal." Li, X., Sun, J., Shahi, P., Gao, M., MacDonald, A. H., Uwatoko, Y., Xiang, T., Goodenough, J. B., Cheng, J., and Zhou, J., PNAS (2018).

716 "Accurate Gap Determination in Monolayer and Bilayer Graphene/h-BN Moiré Superlattices." Kim, H., Leconte, N., Chittari, B. L., Watanabe, K., Taniguchi, T., MacDonald, A. H., Jung, J., and Jung, S., Nano Lett 18, 12, 7732-7741 (November, 2018).

715 "Hubbard Model Physics in Transition Metal Dichalcogenide Moiré Bands." Wu, F., Lovorn, T., Tutuc, E., and MacDonald, A. H., Phys Rev Lett **121**, 026402 (July 10, 2018).

714 "Topological 1T'-phases patterned onto few-layer semiconducting-phase MoS2 by laser beam irradiation." Mine, H., Kobayashi, A., Nakamura, T., Inoue, T., Palacios, J. J., Marin, E. Z., Maruyama, S., Katsumoto, S., MacDonald, A. H., and Haruyama, J., (July 2018).

713 "Topologically Protected Helical States in Minimally Twisted Bilayer Graphene." Huang, S., Kim, K., Efimkin, D. K., Lovorn, T., Taniguchi, T., Watanabe, K., MacDonald, A. H., Tutuc, E., and LeRoy, B. J. Phys Rev Lett **121**, 037702 (July 17, 2018).

712 "Layer pseudospin skyrmions and topological moiré bands in twisted homobilayers." Wu, F., Lovorn, T., Tutuc, E., Martin, I., and MacDonald, A. H., arxiv.org/pdf/1807.03311v1, (July 9, 2018).

711 "Theory of Phonon-Mediated Superconductivity in Twisted Bilayer Graphene." Wu, F., MacDonald, A. H., and Martin, I., Physical Review Lett **121**, 257001 (Dec. 17, 2018).

710 "Chiral transport and electronic correlations in surface states of HfNiSn single crystals." Steinke, L., Kistner-Morris, J. J., Lovorn, T. F., He, H., Hillier, A. D., Miao, P., Zellman, S., Klemm, M., Green, M., Gonzalez, O., MacDonald, A. H., and Aronson, M. D., arXIV 1805.06337v1 (May 17, 2018).

709 "Ferroelectric quantum Hall phase revealed by visualizing Landau level wave function interference." Randeria, M. T., Feldman, B. E., Wu, F., Ding, H., Gyenis, A., Ji, H., Cava, R. J., MacDonald, A. H., and Yazdani, A., Nature Physics **14**, 796-800 (May 14, 2018).

708 "Time-reversal Symmetry-Breaking Nematic Insulators Near Quantum Spin Hall Phase Transitions." Xue, F., and MacDonald, A., H., Phys Rev Lett **120**, 186802 (May 4, 2018).

707 "Strongly enhanced tunneling at total charge neutrality in double bilayer graphene-WSe2 heterostructures." Burg, G. W., Prasad, N., Kim, K., Taniguchi, T., Watanabe, K., MacDonald, A. H., Register, L. F., and Tutuc, E., Phys Rev Lett **120**, 177702 (April 23, 2018).

706 "Helical Network Model for Twisted Bilayer Graphene." Efimkin, D. K., and MacDonald, A. H., Phys. Rev. B **98**, 035404 (July 2, 2018).

705 Sekine, A., and MacDonald, A. H., "Valley-Dependent Magnetoresistance in Two-Dimensional Semiconductors," Phys. Rev. B **97**, 201301(R) (May 30, 2018).

704 "Electrical switching of the topological anomalous Hall effect in a non-collinear antiferromagnet above room temperature." Liu, Z. Q., Chen, H., Wang, J. M., Liu, J. H., Wang, K., Feng, Z. X., Yan, H., Wang, X. R., Jiang, C. B., Coey, J. M. D., and MacDonald, A. H., Nature Electronics **1**, 172-177 (March 2018).

703 "Spin Hall effect without spin currents in magnetic insulators." Chen, H., Niu, Q., and MacDonald, A. H., arXiv:1803.01294v1 (2018).

702 Movva, H. C. P., Lovorn, T., Fallahazad, B., Larentis, S., Kim, K., Taniguchi, T., Watanabe, K., Banerjee, S., MacDonald, A. H., and Tutuc, E. "Tunable Γ − K Valley Populations in Hole-Doped Trilayer WSe2," Phys Rev Lett **120,** 107703 (March 9, 2018).

701 "Topological antiferromagnetic spintronics."Smejkal, L., Mokrousov, Y., Yan, B., and MacDonald, A. H., Nature Physics **14**, 242-251 (March 2018).

700 "Quantum upside-down cake." Shih, C.-K., and MacDonald, A. H., Nature **555**, 36-37 (2018).

699 "Manipulating Anomalous Hall Antiferromagnets with Magnetic Fields." Chen, H., Wang, T.-C., Xiao, D., Guo, G.-Y., Niu, Q., and MacDonald, A. H., arXiv:1802.03044 (February 2018).

698 "Anatomy of the magnetic anisotropy energy mediated by tight-binding Rashba electrons." Chaudhary, G., dos Santos Dias, M., MacDonald, A., and Lounis, S. Phys Rev B **98**, 134404 (2018).

697 "The Quantum Anomalous Hall Majorana Platform." Zeng, Y., Lei, C., Ghaudhary, G., and MacDonald, A. H., Phys Rev B **97**, 081102(R) (February 7, 2018).

696 "Theory of Optical Absorption by Interlayer Excitons in Transition Metal Dichalcogenide Heterobilayers." Wu, F., Lovorn, T., and MacDonald., A. H., Phys Rev B **97**, 035306 (January 2018).

695 "Ultrathin Films of Superconducting Metals as a Platform for Topological Superconductivity." Lei, C., Chen, H., and MacDonald, A. H. arXiv:1801.05020 (January 15, 2018).

694 "Carrier and strain tunable intrinsic magnetism in two-dimensional MAX3 transition metal chalcogenides." Chittari, B. L., Lee, D., MacDonald, A. H., Hwang, E., and Jung, J., arXiv:1709.09386 (September 2017).

693 "Magneto-Coulomb Drag and Hall Drag in Double-Layer Dirac Systems." Tse, W.-K., Hu, G. Y. K., Hong, J. N., and MacDonald, A. H. arXiv:1711.06648v1 (November 2017).

692 "Dynamic Optical Tuning of Interlayer Interactions in the Transition Metal Dichalcogenides." Mannebach, E. M., Nyby, D., Ernst, F., Zhou, Y., Tolsma, J., Li, Y., Sher, M.-J., Tung, I-C., Zhou, H., Zhang, Q., Seyler, K. L., Clark, G., Lin, Y., Zhu, D., Glownia, J. M., Kozina, M. E., Song, S., Nelson, S., Mehta, A., Yu, Y., Pant, A., Aslan, O. B., Raja, A., Guo, Y., Di Chiara, A., Mao, W., Cao, L., Tongay, S., Sun, J., Singh, D. J., Heinz, T. F., Xu, X., MacDonald, A. H., Reed, E., Wen, H., and Lindenberg, A. M., Nano Lett **17** (12), 7761-7766 (November 2017).

691 "Collective models of Dirac and Weyl semimetals in strong magnetic fields." Tolsma, J., Wu, F., and MacDonald, A. H., arXiv:1710.02171 (October 2017).

690 "Ordering mechanism and quantum anomalous Hall effect of Magnetically Doped Topological Insulators." Kim, J., Jhi, S.-H., MacDonald, A. H., and Wu, R., Phys. Rev. B **96**, 140410(R), (October 2017).

689 "Bilayer Pseudospin Junction Transistor (BiSJT) for 'Beyond-CMOS' Logic." Mou, X., Register, L. F., MacDonald, A. H., and Banerjee, S. K., IEEE Transactions on Electron Devices, 64, 11, 4759-4762 (November 2017).

688 "Moiré band model and band gaps of graphene on hexagonal boron nitride." Jung, Jeil; Laksono, Evan; DaSilva, Ashley M.; MacDonald, Allan H.; Mucha-Kruczynski, Marcin; Adam, Shaffique. arXiv:1706.06016v1. June 19, 2017.

687 "Trion Valley Coherence in Transition Metal Dichalcogenides." Hao, Kai; Xu, Lixiang; Wu, Fengcheng; Nagler, Philipp; Tran, Kha; Ma, Xin; Schüller, Christian; Korn, Tobias; MacDonald, A; Moody, Galan; Li, Xiaoqin. in Conference on Lasers and Electro-Optics, OSA Technical Digest (online) (Optical Society of America, 2017), paper FF2F.6.

686 "Topological antiferromagnetic spintronics: Part of a collection of reviews on antiferromagnetic spintronics." Smejkal, Libor; Mokrousov, Yuriy; Yan, Binghai; MacDonald, Allan, H. arXiv:1706.00670

685 "Quantum Kinetic Theory of the Chrial Anomaly." Sekine, Akihiko; Culcer, Dimitrie; MacDonald, Allan H. arXiv:1706.01200. June 21, 2017.

684 "Transistor That Employs Collective Magnetic Effects Thereby Providing Improved Energy Efficiency." Banerjee, Sanjay K; MacDonald, Allan; Register II, Leonard Franklin; Tutuc, Emanuel; Sodemann, Inti; Chen, Hua; Mou, Xuehao. United States Patent Application Publication. US 2017/0104151 A1, April 13, 2017.

682 "Theory of the Topological Spin-Seebeck Effect at a Topological-Insulator/Ferromagnetic-Insulator Interface", Okuma, Nobuyuki; Masir, Massoud Ramezani; MacDonald, Allan H., Physical Review B 95, 165418 (April 13, 2017).

681 "Inter-band coherence response to electric fields in crystals: Berry-phase contributions and disorder effects." Culcer, Dimitrie; Sekine, Akihiko; MacDonald, Allan H. Physical Review B, (June 14, 2017).

680 "Modulation of mechanical resonance by chemical potential oscillation in graphene", Chen, Changyao; Deshpande, Vikram V.; Koshino, Mikito; Lee, Sunwoo; Gondarenko, Alexander; MacDonald, Allan H.; Kim, Philip; Hone, James, arXiv:1612.03200 (Dec 2016).

679 "Modulated phases of graphene quantum Hall polariton fluids", Pellegino, Francesco M.D.; Giovannetti, Vittorio; MacDonald, Allan H.; Polini, Marco, Nat Comm. **7**, 13355 (Nov 2016).

678 "Moir\'e Assisted Fractional Quantum Hall State Spectroscopy", Wu, Fengcheng; MacDonald, Allan H., Phys. Rev. B **94**, 241108 (Dec 2016).

677 "Trion Valley Coherence in Monolayer Semi-conductors:, Hao, Kai; Xu, Lixiang; Wu, Fengcheng; Nagler, Philipp; Tran, Kha; Ma, Xin; Schüller, Christian; Korn, Tobias; MacDonald, Allan H.; Moody, Galan; Li, Xiaoqin, arXiv:1611.03388 (Nov 2016).

676 Spatially-indirect Exciton Condensate Phases in Double Bilayer Graphene", Su, Jun-Jung; MacDonald, Allan H., arXiv:1611.06410 (Nov 2016).

675 "Topological Exciton Bands in Moiré Heterojunctions", Wu, Fengcheng; Lovorn, Timothy; MacDonald, Allan H, arXiv:1610.03855, (Oct 2016).

674 "Observation of a nematic quantum Hall liquid on the surface of bismuth", Feldman, Benjamin E., Randeria, Malika T.; Gyenis, Andras, Wu, Fengcheng; Ji, Huiwen; Cava, RJ; Macdonald, Allan H., Yazdani, Ali, Science **354,** 316-321 (Oct 2016). DOI: 10.1126/science.aag1715

673 "Many-Body Theory of Trion Absorption Features in Two-Dimensional Semicondctors", Efimkin, Dmitry K.; MacDonald, Allan H., arXiv:1609.06329 (Sept. 2016).

672 "Ultrathin two-dimensional superconductivity with strong spin–orbit coupling", Nam, Hyoungdo; Chen, Hua; Liu, Tijiang; Kim, Jisun; Zhang, Chendong; Young, Jie; Lemberger, Thomas R.; Kratz, Philip A.; Kirtley, John R.; Moler, Kathryn; Adams, Philip W.; MacDonald, Allan H.; Shih, Chih-Kang, PNAS **113,** 38, 10513 (Sept 20, 2016).

671 "Microscopic Theory of Equilibrium Polariton Condensates", Xue, Fei; Wu, Fengcheng; Xie, Ming; Su, Jung-Jung; MacDonald, Allan H., Phys. Rev. B **94,** 235302 (Aug 2016).

670 "Two-dimensional chiral topological superconductivity in Shiba lattices", Li, Jian; Neupert, Titus; Wang, Zhijun; MacDonald, Allan H.; Yazdani A.; Bernevig, B. Andrei, Nat Comm. **7**, 12297 (July 2016).

669 "Orbital and spin order in oxide two-dimensional electron gases", Tolsma, John R.; Polini, Marco; MacDonald, Allan H., arXiv:1608.03625 (Aug 2016).

668 "Interface-Induced Phenomena in Magnetism", Frances Hellman, Axel Hoffmann, Yaroslav Tserkovnyak, Geoffrey Beach, Eric Fullerton, Chris Leighton, Allan MacDonald, Dan Ralph, Dario Arena, Hermann Durr, Peter Fischer, Julie Grollier, Joseph Heremans, Tomas Jungwirth, Alexey Kimmel, Bert Koopmans, Ilya Krivorotov, Steven May, Amanda Petford-Long, James Rondinelli, Nitin Samarth, Ivan Schuller, Andrei Slavin, Mark Stiles, Oleg Tchernyshyov, Andre Thiaville, Barry Zink, https://arxiv.org/abs/1607.00439v2 (July 2016).

667 "Fractional Hofstadter States in Graphene on Hexagonal Boron Nitride", DaSilva, Ashley M.; Jung, Jeil; MacDonald, Allan H., Phys. Rev. Lett. **117,** 3, 036802 (July 15, 2016).

666 "Quantum Hall Edge States in Topological Insulator Nanoribbons", Pertsova, A; Canali, CM; MacDonald, Allan H., Phys. Rev. B **94,** 121409 (2016).

665 "Electronic and magnetic properties of single-layer MPX$_3$ metal phosphorous trichalcogenides", Chittari, Bheema Lingam; Park, Youngju; Lee, Dongkyu; Han, Moonsup; MacDonald, Allan H.; Hwang, Euyheon; Jung, Jeil, arXiv:1604.06445 (Apr 2016).

664 "Spin-Superfluidity and Spin-Current Mediated Non-Local Transport", Chen, Hua; MacDonald, Allan H., arXiv:1604.02429 (Apr 2016).

663 "Enhanced spin Seebeck effect signal due to spin-momentum locked topological surface states", Jiang, Zilong; Chang, Cui-Zu, Masir, Massoud R; Tang, Chi; Xu, Yadong; Moodera, Jagadeesh S., MacDonald, Allan H.; Shi, Jing, Nart. Comm. **7** (May 2016).

662 "SU(3) Quantum Hall Ferromagnetism in SnTe", Li, Xiao; Zhang, Fan; MacDonald, Allan H., Phy. Rev. Lett. **116,** 026803 (Jan 2016).

661 "Modulation of mechanical resonance by chemical potential oscillation in graphene", Chen, Changyao; Deshpande, Vikram V.; Koshino, Mikito; Lee, Sunwoo; Gondarenko, Alexander; MacDonald, Allan H.; Kim, Philip; Hone, James, Nat. Phy. Lett. (Dec 2015).

660 "Publisher's Note: Theory of two-dimensional spatially indirect equilibrium exciton condensates (vol 92, 165121, 2015)," Wu, Feng-Cheng; Xue, Fei; MacDonald, Allan H., Phy. Rev. B **92,** 239901(E) (Dec 2015).

659 "Semiclassical Theory of Linear Magnetoresistance in Crystalline Conductors with Broken Time-Reversal Symmetry", Chen, Hua; Gao, Yang, Xiao, Di; MacDonald, Allan H.; Niu, Qian, arXiv:1511.02557 (Nov 2015).

658 "Theory of two-dimensional spatially indirect equilibrium exciton condensates", Wu, Feng-Cheng; Xue, Fei; MacDonald, A. H., Phy. Rev. B **92**, 165121 (Oct 2015).

657 "Quasiparticle Mass Enhancement and Fermi Surface Shape Modification in Oxide Two-Dimensional Electron Gases", Tolsma, John R.; Principi, Alessandro; Asgari, Reza; Polini, Marco; MacDonald,Allan H., Phy. Rev. B **93**, 045120 (Jan. 2016).

656 "Direct Measurement of Exciton Valley Coherence in Monolayer WSe2", Hao, Kai; Moody,Galan; Wu, Fengcheng; Dass, Chandriker Kavir; Xu, Lixiang; Chen, Chang-Hsaio; Li, Ming-Yang; Li, Lain-Jong; MacDonald, Allan H.; Li, Xiaoqin, arXiv:1509.08810 (2015).

655 "Local spectroscopy of moiré-induced electronic structure in gate-tunable twisted bilayer graphene", wong, Dillon; Wang, Yang; Jung, Jeil; Pezzini, Sergio; DaSilva, Ashley M.; Tsai, Hsin-Zon; Jung, Han Sai; Khajeh, Ramin; Kim, Youngkyou; Lee, Juwon; Kahn, Salman; Tollabimazraehno, Sajjad; Rasool, Haider; Watanabe, Kenji; Taniguchi, Takashi; Zettl, Alex; Adam, Shaffique; MacDonald, Allan H.; Crommie, Michael F., Phy. Rev. B **92,** 155409 (Oct 2015).

654 "Quantum transport simulation of exciton condensate transport physics in a double layer graphene system", Mou, Xuehao; Register, Leonard F.; MacDonald, Allan H.; Banerjee, Sanjay K., arXiv:1509.02964 (2015).

653 "Visualization of geometric influences on proximity effects in heterogeneous superconductor thin films" (vol 8, pg 464, 2012), Kim, Jungdae; Chua, Victor; Fiete, Gregory A.; Nam, Hyoungdo; MacDonald, Allan H.; Shih, Chih-Kang, Nat. Phys. **11**, 4 (Apr 2015).

652 "Interaction Correction to the Magneto-Electric Polarizability of Z_{2} Topological Insulators", Everschor-Sitte, Karin' Sitte, Matthias, MacDonald, Allan H., Rev. B **92**, 245118 (Dec 2015).

651 "Strong interface-induced spin-orbit coupling in graphene on WS2", Wang, Zhe; Ki, Dong-Keun; Chen, Hua; Berger, Helmuth; MacDonald, Allan H.; Morpurgo, Alberto F., Nat. Comm. **6**, 8339 (Sep 2015).

650 "Electronic Cooling via Interlayer Coulomb Coupling in Multilayer Epitaxial Graphene", Mihnev, Momchil T.; Tolsma, John R.; Divin, Charles J.; Sun, Dong; Asgari, Reza; Polini, Marco; Berger, Claire; de Heer, Walt A.; Macdonald, Allan H.; Norris, Theodore B., Nat. Comm. **6**, 8105 (Sept 2015).

649 "Preface to the special topic section on topological states in condensed matter: Physics and materials science", Xie, Xin-Cheng; MacDonald, Allan H.; Xue, Qi-Kun; Heiblum, Moty, Solid States Comm. **215**, 17 (Jul 2015).

648 "Stacking dependence of carrier interactions in multilayer graphene systems", Jang, Yunsu; Hwang, E. H.; MacDonald, Allan H.; Min, Hongki, Phys. Rev. B **92**, 041411 (July 2015).

647 "Electric manipulation of the Mn-acceptor binding energy and the Mn-Mn exchange interaction on the GaAs (110) surface by nearby As vacancies", Nahani, M. R.; MacDonald, Allan H.; Canali, C. M., Phys. Rev. B **92**, 045304 (Jul 2015).

646 "THz conductivity of graphene on boron nitride", DaSilva, Ashley M.; Jung, Jeil; Adam, Shaffique; MacDonald, Allan H., Phy. Rev. B **92**, 155406 (Oct 2015).

645 "SU(3) and SU(4) singlet quantum Hall states at n=2/3", Wu, Fengcheng; Sodemann, Inti; MacDonald, Allan H.; Jolicoeur, Thierry, Phy. Rev. Lett. **115**, 166805 (Oct 2015).

644 “Crystalline phases of graphene quantum Hall polariton fluids”, Pellegrino, Francesco M.D.; Giovannetti, Vittorio; MacDonald, Allan H.; Polini, Marco, arXiv:1505.07011v1, (May 2015).

643 “Persistent current states in bilayer graphene”, Jung, Jeil; Polini, Marco; MacDonald, Allan H., Phys. Rev. B **91**, 155423 (Apr 2015).

642 “Transport and particle-hole asymmetry in graphene on boron nitride”, DaSilva, Ashley M.; Jung, Jeil; Adam, Shaffique; MacDonald, Allan H., Phys. Rev. B **91**, 245422 (Mar. 2015).

641 “Thin films of a three-dimensional topological insulator in a strong magnetic field: Microscopic study”, Pertsova, A.; Canali, C. M.; MacDonald, A. H., Phys. Rev. B **91**, 075430 (Feb 26, 2015).

640 “Origin of band gaps in graphene on hexagonal boron nitride”, Jung, Jeil; DaSilva, Ashley M; MacDonald, Allan H; Adam, Shaffique, Nat. Comm. **6**, 6308 (Feb 2015).

639 “Topological superconductivity induced by ferromagnetic metal chains”, Li, Jian; Chen, Hua; Drozdov, Ilya K.; Yazdani, A.; Bernevig, B. A.; MacDonald, A.H., Phys. Rev. B **90**, 235433 (Dec 2014).

638 “Exciton band structure of monolayer MoS2”, Wu, Fengcheng; Qu, Fanyao; MacDonald, Allan H., Phys. Rev. B **91**, 075310 (Feb. 2015).

637 “First-principles theory of electron-spin fluctuation coupling and superconducting instabilities in iron selenide”, Lischner, Johannes; Bazhirov, Timur; MacDonald, Allan H.; Cohen, Marvin L.; Louie, Steven G., Phy. Rev. B **91**, 020502 (Jan 2015).

636 “Observation of Majorana fermions in ferromagnetic atomic chains on a superconductor”, Nadj-Perge, Stevan; Drozdov, Ilya K.; Li, Jian; Chen, Hua; Jeon, Sangjun; Seo, Jungpil; MacDonald, Allan H.; Bernevig, B. Andrei; Yazdani, Ali, Science **31**, 602 (Oct 2014).

635 “Spontaneous layer-pseudospin domain walls in bilayer graphene”, Li, Xiao; Zhang, Fan; Niu, Qian; MacDonald, A. H., Phys. Rev. Lett. **113**, 116803 (Sept 2014).

634 “Weak Localization, Spin Relaxation, and Spin-Diffusion: The Crossover Between Weak and Strong Rashba Coupling Limits”, Araki, Yaufumi; Khalsa, Guru; MacDonald, Allan H., Phys. Rev. B **12**, 125309 (Sept 2014).

633 “SO(5) symmetry in the quantum Hall effect in graphene”, Wu, Fengcheng; Sodemann, Inti; Araki, Yasufumi; MacDonald, Allan H.; Jolicoeur, Thierry, Phys. Rev. B **90**, 235432 (Dec 2014).

632 “Non-Local Transport Mediated by Spin-Supercurrents”, Chen, Hua; Kent, Andrew D.; MacDonald, Allan H.; Sodemann, Inti; Phys. Rev. B **90**, 220401 (Dec 2014).

631 “Half-metallic magnetism and the search for better spin valves”, Everschor-Sitte; Karin; Sitte, Matthias; MacDonald, Allan H., Journal of Applied Physics, **116**, 083906 (Aug 2014).

630 “Stable path to ferromagnetic hydrogenated graphene growth”, Hemmatiyan, Shayan; Polini, Marco; Abanov, Artem; MacDonald, Allan H.; Sinova, Jairo, Phys. Rev. B **90**, 035433 (Jul 2014).

629 “Impurity cyclotron resonance of anomalous Dirac electrons in graphene”, Kim, S C; Yang, S-R Eric; MacDonald, A. H., Inst. of Phys. J. **26**, 325302 (Aug. 2014).

628 “Accurate tight-binding models for the pi bands of bilayer graphene”, Jung, Jeil; MacDonald, Allan H., Phys. Rev. B **89**, 035405 (Jan 2014).

627 “Optical conductivity of the t_{2g} two-dimensional electron gas”, Xie, Ming; Khalsa, Guru; MacDonald, Allan H., Phys. Rev. B **89**, 245417 (Jun 12, 2014).

626 “Ferminoic Physics in Dipolariton Condensates”, Su, Jung-Jung; Kim, Na Young; Yamamoto, Yoshihisa; MacDonald, Allan H., Phys. Rev. Lett. **112**, 116401 (Mar 2014).

625 “Band Offset and Negative Compressibility in Graphene-MoS2 Heterostructures”, Larentis, Stefano; Tolsma, John R.; Fallahazad, Babak; Dilien, David C.; Kim, Kyounghwan; MacDonald, Allan H.; Tutuc, Emanuel, Nano Lett. **14**, 2039 (Apr 2014).

624 “Competing ordered states with filling factor two in bilayer graphene”, Velasco, J. Jr.; Lee, Y.; Zhang, F.; Myhro, K.; Tran, D.; Deo, M.; Smirnov, D.; MacDonald, A. H.; Lau, C. N., Nat. Comm. **5**, 4550 (Jul 2014).

623 “Quantum Anomalous Hall Effect in Graphene Proximity coupled to an Antiferromagnetic Insulator”, Qiao, Zhenhua; Ren, Wei; Chen, Hua; Bellaiche, L.; Zhang, Zhenyu; MacDonald, A. H.; Niu, Qian, Phys. Rev. Lett. **112**, 116404 (Mar 2014).

622 "Current Partition at Topological Channel Intersections", Qiao, Zhenhua; Jung, Jeil; Lin, Chungwei; Ren, Yafei; MacDonald, Allan H.; Niu, Qian; Phys. Rev. Lett. **112**, 20 (May 2014).

621 “Direct chemical conversion of graphene to boron- and nitrogen- and carbon-containing atomic layers”, Gong, Yongji; Shi, Gang; Zhang, Zhuhua; Zhou, Wu; Jung, Jeil; Gao, Weilu; Ma, Lulu; Yang, Yang; Yang, Shubin; You, Ge; Vajtai, Robert; Xu, Qianfan; MacDonald, Allan H., Yakobson, Boris I.; Lou, Jun; Liu, Zheng; Pulickel, M. Ajayan, Nat. Comm. **5**, 3193 (Jan 2014).

620 “Capacitance of carbon-based electrical double-layer capacitors”, Ji, Hengxing; Zhao, Xin; Qiao, Jung; Zhenhua, Jeil; Zhu, Yanwu; Lu, Yalin; Zhang, Li Li; MacDonald, Allan H.; Ruoff, Rodney S., Nat. Comm. **5**, 3317 (Feb 2014).

619 “Effect of spin fluctuations on quasiparticle excitations: First-principles theory and application to sodium and lithium”, Lischner, Johannes; Bazhirov, Timur; MacDonald, Allan H.; Cohen, Marvin L.; Louie, Steven G., Phys. Rev. **89**, 081108 (Feb 2014).

618 “Anomalous Hall effect arising from noncollinear antiferromagnetism”, Chen, Hua; Niu, Qian; MacDonald, Allan H., Phys. Rev. Lett. **112**, 017205 (Jan 2014).

617 “Broken SU(4) Symmetry and The Fractional Quantum Hall Effect in Graphene”, Sodemann, Inti; MacDonald, Allan H., Phys. Rev. Lett. **112**, 126804 (Mar 2014).

616 “Ab-Initio Theory of Moire Superlattice Band in Layered Two-Dimensional Materials”, Jung, Jeil; Raoux, Arnaud; Qiao, Zhenhua; MacDonald, Allan H., Phys. Rev. B **89**, 205414 (May 2014).

615 “Ultrathin high-temperature oxidation-resistant coatings of hexagonal boron nitride”, Liu, Zheng; Gong, Yongji; Zhou, Wu; Ma, Lulu; Yu, Jingjiang; Idrobo, Juan Carlos; Jung, Jeil; MacDonald, Allan H., Vajtai, Robert; Lou, Jun; Ajayan, Pulickel M., Nat. Comm. **4**, 2541 (Oct 2013).

614 “Revealing the electronic band structure of trilayer graphene on SiC: An angle-resolved photoemission study”, Coletti, C.; Forti, S.; Principi, A.; Emtsev, K. V.; Zakharov, A. A.; Daniels, K. M.; Daas, B. K.; Chandrashekhar, M. V. S.; Ouisse, T.; Chaussende, D.; MacDonald, A. H.; Polini, M.; Starke, U., (International support) Phys. Rev. B **88**, 155439 (Oct 2013).

613 “Anomalous perovskite PbRuO3 stabilized under high pressure”, Cheng, J-G; Kweon, K. E.; Zhou, J-S; Alonso, J. A.; Kong, P-P; Liu, Y.; Jin, Changqing; Wu, Junji; Lin, Jung-Fu; Larregola, S. A.; Yang, Wenge; Shen, Guoyin; Macdonald, A. H.; Manthiram, Arumugam; Hwang, G. S.; Goodenough, John B., PNAS **110**, 20003 (Dec 2013).

612 “Ehancement of Phontonic density of states enhancement in graphene multilayers”, Dasilva, Ashley M.; Chang, You-Chia; Norris, Ted; MacDonald, Allan H., Phys. Rev. B **88**, 195411 (Nov 2013).

611 “Theory of Native Orientational Pinning in Quantum Hall Nematics”, Sodemann, Inti; MacDonald, Allan H., arXiv:1312.7723 (2013).

610 “Topological Magneto-Electric Effect Decay”, Pesin, D. A.; MacDonald, A. H., Phys. Rev. Lett. **111**, 016801 (Jul 2013).

609 “Valley Chern numbers and boundary modes in gapped bilayer graphene”, Zhang, Fan; MacDonald, Allan H.; Mele, Eugene J., PNAS **110**, 10546 (Jun 2013).

608 “Tight-binding model for graphene pi-bands from maximally localized Wannier functions”, Jung, Jeil; MacDonald, Allan H.; Phys. Rev. B **87**, 195450 (May 2013).

607 “Landau level mixing and the fractional quantum Hall effect”, Sodemann, I.; MacDonald, A. H., Phys. Rev. B **87**, 245425 (Jun 2013).

606 “Theory of t2g electron-gas Rashba interactions”, Khalsa, Guru; Lee, Byounghak; MacDonald, Allan H., Phys. Rev. B **88**, 041302 (July 2013).

605 “Conduction-band edge and Shubnikov–de Haas effect in low-electron-density SrTiO3”, Allen, S. James; Jalan, Bharat; Lee, SungBin; Ouellette, Daniel G.; Khalsa, Guru; Jaroszynski, Jan; Stemmer, Susanne; MacDonald, Allan H., Phys. Rev. B **88**, 045114 (July 2013).

604 “Uniaxial strain induced band splitting in semiconducting SrTiO3”, Chang, Young Jun; Khalsa, Guru; Moreschini, Luca; Walter, Andrew L.; Bostwick, Aaron; Horn, Karsten; MacDonald, A. H.; Rotenberg, Eli, Phys. Rev. B **87**, 115212 (Mar 2013).

603 “Transport Studies of Dual-Gated ABC and ABA Trilayer Graphene: Band Gap Openving and Band Structure Tuning in Very Large Perpendicular Electric Fields”, Zou, K.; Zhang, Fan; Capp, C., Nano Lett. **13**, 369 (Jan 2013).

602 “Gate-Tunable Exchange Coupling Between Cobalt Clusters on Graphene”, Chen, Hua; Niu, Qian; Zhang, Zhenyu; MacDonald, Allan H., Phys. Rev. B **87**, 144410 (Apr 2013).

601 "Electron-electron interactions in nonequilibrium bilayer graphene", Liu, Wei-Zhe; MacDonald, Allan H.; Culcer, Dimitrie, Phys. Rev. B **87**, 085408 (Feb. 2013).

600 “Gapped broken symmetry states in ABC trilayer graphene”, Jung, Jeil; MacDonald, Allan H., Phys. Rev. B **88**, 075408 (Aug 2013).

599 "Photoemession spectra of massless Dirac fermions on the verge of exciton condensation", Rist, Stefen; Varlamov, A. A.; MacDonald, Allan H.; Fazio, Rosario; Polini, Marco, Phys. Rev. **87** (Jun 2013).

598 “Photonic topical insulators”, Khanikaev, Alexander B.; Mousavi, S. Hossein; Tse, Wang-Kong; Kargarian, Mehki; MacDonald, Allan H.; Shvets, Gennady, Nat. Mat. **12**, 233-239 (Dec 2012).

597 "Drude weigh Anomalous Hall Effect Arising from Non-Collinear Antiferromagnetism t, cyclotron resonance and the Dicke model of graphene cavity QED", Chirolli, Luca; Polini, Marco; Giovannetti, Vittorio, Phys. Rev. Lett **109**, 267404 (Dec 2012).

596 "Spintronics and pseudospintronics in graphene and topological insulators", Pesin, Dmytro; MacDonald, Allan H., Nat. Mat. **11**, 409-416 (May 2012).

595 Visualization of geometric influences on proximity effects in heterogeneous superconductor thin films, Kim, Jungdae; Chua, Victor; Fiete, Gregory A.; Nam, Hyoungdo; MacDonald, Allan H.; Shih, Chih-Kang, Nat. Phys. Lett. **8**, 464-469 (April 2012).

594 "Evidence for a spontaneous gapped state in ultraclean bilayer graphene", Bao, Wenzhong; Velasco Jr., Jairo; Zhang, Fan; Jing, Lei; Standley, Brian; Smirnov, Dmitry; Bockrath, Marac; MacDonald, Allan H.; Lau, Chun Ning, PNAS **109**, 10802-10805 (2012).

593 "Distinguishing Spontaneous Quantum Hall State in Bilayer Graphene", Zhang, Fan; MacDonald, A. H, Phys. Rev. Let **108**, 186804 (May 2012).

592 "Strong Coulomb drag and broken symmetry in double-layer graphene", Gorbachev, R. V.; Geim, A. K.; Katsnelson, M. I.; Novoselov, K. S.; Tudorovskiy, T.; Grigorieva, I. V.; MacDonald, Allan H.; Morozov, S. V.; Wantabe, K.; Taniguchi, T.; Ponomarenko, L. A., Nat. Phys. **8**, 896-901 (2012).

591 "Interaction-Enhanced Coherence Betweeen Two-Dimensional Dirac Layers", Sodemann, Inti; Pesin, D. A.; MacDonald, Allan H., Phys. Rev. B **85**, 195136 (March 2012).

590 "Competing Ordered States in Bilayer Graphene", Zhang, Fan; Min, Hongki; MacDonald, Allan H., Phys. Rev. B **88**, 155128 (2012).

589 "Theory of the SrTiO3 Surface State Two-Dimensional Electron Gas", Khalsa, Guru; MacDonald, Allan H., Phys. Rev. B **88**, 125121 (Sept 2012).

588 "Transport Properties of Graphene Nanoroads in Boron-Nitride Sheets", Jung, Jeil; Qiao, Zhenhua; Niu, Qian; MacDonald, Allan H., Nano Lett. **12**, 2936 (2012).

587 "Minimum Conductivity and Evidence for Phase Transitions in Ultra-clean Bilayer Graphene", Bao, Wenzhong; Velasco Jr., Jairo; Zhang, Fan; Jing, Lei; Standley, Brian; Smirnov, Dmitry; Bockrath, Marc; MacDonald, Allan H.; Lau, Chun Ning, Proc. Nat. Acad. Sci. **109**, 10802 (2012).

586 "Pseudospin Transfer Torques in Semiconductor Electron Bilayers", Kim, Youngseok; MacDonald, Allan H.; Gilbert, Matthew J., Phys. Rev. B **85**, 165424 (Apr 2012).

585 "Hund's Rules for the N=0 Landau Levels of Trilayer Graphene", Zhang, Fan; Tilahun, Dagim; MacDonald, Allan H., Phys. Rev. B **85**, 165139 (Apr 2012).

584 "Density, spin, and pairing instabilities in polarized ultracold Fermi gases", Sodemann, Inti; Pesin, D. A.; MacDonald, Allan H., Phys. Rev. A **85**, 033628 (Mar 2012).

583 "Quantum kinetic Theory of Current-Induced Torques in Rashba Ferromagnets", Pesin, D. A.; MacDonald, Allan H., Phys. Rev. B **86**, 014416 (July 2012).

582 "Double-layer graphene and topological insulator thin-film plasmons", Profumo, Rosario E. V.; Asgari, Reza; Polini, Marco; MacDonald, Allan H., Phys. Rev. B **85**, 085443 (Feb 2012).

581 "The tunneling density-of-states of interacting massless Dirac fermions", Principi, A.; Polini, Marco; Asgari, Reza; MacDonald, Allan H., Solid State Comm. **152**, 1456 (Apr 2012).

580 "Quantum Hall Effects in Graphene-Based Two-Dimensional Electron Systems", Barlas, Yafis; Yang, Kung; MacDonald, Allan H., Nanotech **23**, 052001 (Jan 2012).

579 "Pseudospin Order in Monolayer, Bilayer and Double-Layer Graphene", MacDonald, Allan H.; Jung, Jeil; Zhang, Fan, Phys. Scr. T **146**, 014012 (2012).

578 "Transport Spectroscopy of Symmetry-Broken Insulating States in Bilayer Graphene", Velasco Jr., J.; Jing, L.; Bao, W.; Lee, Y.; Kratz, P.; Aji, V.; Bockrath, M.; Lau, C. N.; Varma, C.; Stillwell, R.; Smironov, D.; Zhang, Fan; Jung, J.; MacDonald, Allan H., Nat. Nanotech **7**, 156 (Jan 2012).

577 "Haldane Sashes in Quantum Hall Spectra", MacDonald, Allan H., Phys. Rev. Lett. **105**, 206801 (Jan 2012).

576 "Quantizied Casimir Force", Tse, Wang-Kong; MacDonald, A. H., Phys. Rev.**109**, 236806 (2012).

575 "Josephson current in a four terminal superconductor-exciton condensate-superconductor system", Peotta, Sebastiano; Gibertini, Marco; Dolcini, Fabrizio; Taddei, Fabio; Polini, Marco; Ioffe, L. B.; Fazio, Rosario; MacDonald, Allan H., Phys. Rev. **84**, 184528 (Nov 2011).

574 "First-principles calculations of the nonadiabatic spin transfer torque in Ni and Fe", Gilmore, Keith; Garate, Ion; MacDonald, Allan H.; Stiles, M. D., Phys. Rev. B **84**, 224412 (Dec 2011).

573 "Quantum Theory of Cold Bosinic Atoms in Optical Lattices", Tilahun, Dagim; Duine, R. A.; MacDonald, Allan H., Phys. Rev. A **84**, 033622 (Sep 2011).

572 "Enhancement of non-local exchange near isolated band-crossings in graphene", Jung, Jeil; MacDonald, Allan H., Phys. Rev. B **84**, 085446 (May 2011).

571 Graphene moire mystery solved?" MacDonald, Allan H.; Bistritzer, Rafi, Nat. **474**, 453-454 (Jun 2011).

570 "Persistent Current States in Bilayer Graphene", Jung, Jeil; Polini, Marco; MacDonald, Allan H., cond-mat/1111.1765 (2011).

569 "Magneto-Opitcal Faraday and Kerr Effects in Topological Insulator Films and in Other Layered Quatized Hall Systems", Tse, Wang-Kong; MacDonald, Allan H., Phys. Rev. B **84**, 205327 (Jan 2011).

568 "Spontaneous Quantum Hall States and Novel Luttinger Liquids in Chiral Graphene", Zhang, Fan; Jung, Jeil; MacDonald, Allan H., Phys. Rev. Lett. **108**, 186804 (Apr 2011).

567 "Antiferromagnetic Metal Spintronics", Nunez, A. S.; Duine, R. A.; MacDonald, Allan H., Phil Trans R Soc A **369**, 3098-3114 (2011).

566 "Transport in Coherent Quantum Hall Bilayers", MacDonald, Allan H.; Pesin, Dmytro, Phys. Rev. B **84** (Oct 2011).

565 "Electronic Highways in Bilayer Graphene", Qiao, Zhenhua; Jung, Jeil; Niu, Qian; MacDonald, Allan H., Nano Lett. **11**, 3453-3459 (Jul 2011).

564 "The Influence of Remote Bands on Exciton Condensation in Double-Layer Graphene", Mink, M. P.; MacDonald, Allan H.; Stoff, H. T. C.; Duine, R. A., Phys. Rev. B **84**, 155409 (2011).

563 "Effective screening and the plasmaron bands in Graphene", Walter, Andrew L.; Bostwick, Aaron; Jeon, Ki-Joon; Speck, Florian; Ostler, Markus; Seyller, Thomas; Moreshini, Luca; Chang, Young Jun; Polini, Marco; Asgari, Reza; MacDonald, Allan H.; Horn, Karsten; Rotenberg, Eli, Phys. Rev. B **84**, 085410 (2011).

562 "Quantum Hall Superfluids in Topological Insulator Thin Films", Tilahun, Dagim; Lee, Byounghak; Hankiewicz, E. M.; MacDonald, Allan H., Phys. Rev. Lett **107**, 246401 (2011).

561 "Effect of interlayer bare tunneling on electron-hole coherence in graphene bilayers", Basu, D.; Register, L. F.; MacDonald A. H., Phys. Rev. B **84**, 035449 (2011).

560 "Universal Quenching of Superconductivity in Two-Dimensional Nano-islands", Kim, Jungdae; Fiete, Gregory A.; Nam, Hyoungdo; MacDonald, Allan H.; Shih, Chih-Kang, Phys. Rev. B **84**, 0145517 (2011).

559 "Valley-Hall Kink and Edge States in Multilayer Graphene", Jung, Jeil; Zhang, Fan; Qiao, Zenua; MacDonald, Allan H., Phys. Rev. B **84**, 085446 (2011).

558 "Electronic structure of doped d0 perovskite semiconductors", Bistritzer, R.; Khalsa, G.; MacDonald, Allan H., Phys. Rev. B **83**, 115114 (2011).

557 "Blockade and Counterflow Supercurrent in Exciton-Condensate Josephson Junctions", Dolcini, Fabrizio; Rainis, Diego; Taddei, Fabio; Polini, Marco; Fazio, Rosario; MacDonald, Allan H., Phys. Rev. **104**, 027004 (2010).

556 "Scattering theory of transport in coherent quantum Hall bilayers", Pesin, D. A.; MacDonald, Allan H., Phys. Rev. B **84**, 075308 (Aug 2011).

555 "Drude weight, Plasmon dispersion, and a.c. conductivity in doped graphene sheets", Abedinpour, Saeed H.; Vignale, G.; Principi, A.; Polini, Marco; Tse, Wang-Kong; MacDonald, Allan H., Phys. Rev. B **84**, 045429 (2011).

554 "Moire Butterflies in twisted bilayer graphene", Bistritzer, R.; MacDonald, Allan H., Phys. Rev. B **84**, 035440 (Jul 2011).

553 "Quantum Anomalous Hall Effect in Single-layer and Bilayer Graphene", Tse, Wang-Kong; Qiao, Zhenhua; Yao, Yugui; MacDonald, Allan H.; Niu, Qian, Phys. Rev. B **83**, 155447 (2011).

552 "Orbital order in bilayer graphene at filling factor v= -1", Cote, R.; Lambert, Jules; Barlas, Yafis; MacDonald, Allan H., Phys. Rev. B **82**, 035445 (2010).

551 "Graphene from CMOS and Beyond CMOS Applications", Banerjee, Sanjay K.; Register, Leonard Franklin; Tutuc, Emanuel; Basu, Dipanjan; Kim, Seyoung; Reddy, Dharmendar; MacDonald, Allan H., IEEE Proceedings **98**, 2/302 (2010).

550 "Theory of High-Energy Features in the Tunneling Spectra of Quantum-Hall Systems", MacDonald, A. H., Phys. Rev. Lett. **105**, 206801 (2010).

549 "Spontaneous Quantum Hall States in Chirally-stacked Few-Layer Graphene Systems", Zhang, Fan; Jung, Jeil; Fiete, Gregory A.; Niu, Qian; MacDonald, Allan H., Phys. Rev. Lett. **106**, 156801 (2010).

548 "Spontaneous Inversion symmetry breaking in graphene bilayers", Zhang, Fan; Jung, Jeil; MacDonald, Allan H., 19th Horiba Int Conf, J. of Phy. Conf. Series **334**, 041402 (Jan 2010).

547 "Orbital and interlayer Skyrmions crystals in bilayer graphene", Cote, R.; Luo, Wenchen; Petrov, Branko; Barlas, Yafis; MacDonald, Allan H., Phys. Rev. B **82**, 245307 (2010).

546 "Magneto-optical and Magneto-electric Effect of Topological Insulators in Quantizing Magnetic Fields", Tse, Wang-Kong; MacDonald, Allan H., Phys. Rev. B **82**, 161104 (2010).

545 "Moire bands in twisted double-layer graphene", Bistritzer, R.; MacDonald, Allan H., PNAS **108**, 12233 (2010).

544 "High-resolution tunneling spectroscopy of a graphene quartet", Song, Young Jae; Otte, Alexander F.; Kuk, Young; Hu, Yike; Torrance, David B.; First, Phillip N.; de Heer, Walt A.; Min, Hongki; Adam, Shaffique; Stiles, Mark D.; MacDonald, Allan H.; Stroscio, Joseph A., Nat. **467**, 9 (2010).

543 "Topological electromotive force from domain-wall dynamics in a ferromagnet", Yang, Shenyuan A.; Beach, Geoffrey S.D.; Knutson, Carl; Xiao, Di; Zhang, Zhenyu; Tsoi, Maxim; Niu, Qian; MacDonald, Allan H.; Erskine, James L., Phys. Rev. B **82**, 054410 (2010).

542 "Tight-binding study of electron-hole pair condensation in graphene bilayers: Gate control and system-parameter dependence", Basu, D.; Register, L. F.; Reddy, D.; MacDonald, A. H.; Banerjee, S. K., Phys. Rev. B **82**, 075409 (2010).

541 Chern number spins of Mn acceptor magnets in GaAs, Strandbert, T. O.; Canali, C. M.; MacDonald, Allan H., Phys. Rev. Lett. **106**, 017202 (2010).

540 "Observation of Plasmarons in Quasi-Freestanding Doped Graphene", Bostwick, Aaron; Speck, Florian; Seyller, Thomas; Horn, Karsten; Polini, Marco; Asgari, Reza; MacDonald, Allan H.; Rotenberg, Eli, Science **328**, 999-1002 (2010).

539 "Graphene: Materially Better Carbon", Fuhrer, Michael S.; Lau, Chun Ning; MacDonald, Allan H., MRS Bulletin **35**, 289-295 (2010).

538 "Spin Caloritronics-Editorial", Bauer, G.E.W.; MacDonald, A.H.; Maekawa S., Solid State Comm. **150**, 459-460 (2010).

537 "Compressibility of the electron gas in bilayer graphene", Borghi, Giovanni; Polini, Marco; Asgari, Reza; MacDonald, Allan H., Phys. Rev. B **82**, 155403 (2010).

536 "Electron-electron interactions in decoupled graphene layers", Profumo, Rosario E. V.; Polini, Marco; Asgari, Reza; Fazio, Rosario; MacDonald, Allan H., Phys. Rev. B **82**, 085443 (2010).

535 "Band Structure of ABC-Stacked Graphene Trilayers", Zhang, Fan; Sahu, Bhagawan; Min, Hongki; MacDonald, Allan H., Phys. Rev. B **82**, 035409 (2010).

534 "Theory of reduced superfluid density in underdoped cuprate superconductors", Lee, Wei-Cheng; Sinova, Jairo; Burkov, A. A.; Joglekar, Yogesh; MacDonald, A. H., Phy Rev B **77**, 21 (2008).

533 "Critical tunneling currents in disordered quantum hall bilayers at nutot=1", Pesin, Dmytro; MacDonald, Allan H., Phys. Rev. B **80** (2009).

532 "Giant Magneto-optical Kerr Effect and Universal Faraday Effect in Thin Film Topological Insulators", Tse, Wang-Kong; MacDonald, Allan H., Phys. Rev. Lett. **105**, 057401 (2010).

531 "Finite Conductivity Minimum in Bilayer Graphene without Charge Inhomogeneities", Trushin, Maxim; Kailasvuori, Janik; Schlieann, John; MacDonald, Allan H., Phys. Rev. B **82**, 155308 (2010).

530 "Theory of I-V Characteristics of Magnetic Josephson Junctions", Yang, Shengyuan A.; Niu, Qian; Pesin, D. A.; MacDonald, Allan H., Phys. Rev. B **82**, 184402 (2010).

529 "Transport Between Twisted Graphene Layers", Bistritzer, Rafi; MacDonald, Allan H., Phys. Rev. B **81**, 245412 (2010).

528 "Critical Tunneling Currents in Quantum Hall Superfluids: Pseudospin-Transfer Torque Theory", Su, Jung-Jung; MacDonald, Allan H., Phys. Rev. B **81**, 184523 (2010).

527 "Magnetic interactions of substitutional Mn pairs in GaAs", Strandbert, T. O.; Canali, C. M.; MacDonald, Allan H., Phys. Rev. B **81**, 054401 (2010).

526 "Magneto-electric coupling in zigzag graphene nanoribbons", Jung, J.; MacDonald, Allan H., Phys. Rev. B **81**, 195408 (2010).

525 "Anomalous Hall effect", Nagaosa, Naoto; Sinova, Jairo; Onoda, Shigeki; MacDonald, Allan H.; Ong, N. P., Rev. Mod. Phys. **82**, 1539 (2010).

524 "Quantum vortex dynamics in two-dimensional neutral superfluids", Wang, C. C. Joseph; Duine, R. A.; MacDonald, Allan H., Phys. Rev. A **8**, 013609 (2010).

523 "Velocity-modulation control of electron-wave propagation in graphene", Raux, Arnaud; Polini, Marco; Asgari, Reza; Hamilton, A. R.; Fazio, Rosario; MacDonald, Allan H., Phys. Rev. B **81**, 073407 (2010).

523 "Velocity-modulation control of electron-wave propagation in graphene", Raux, Arnaud; Polini, Marco; Asgari, Reza; Hamilton, A. R.; Fazio, Rosario; MacDonald, Allan H., Phys. Rev. B **81**, 073407 (2010).

522 "Renormalized Landau Levels and Particle-Hole Symmetry in Graphene", Barlas, Yafis; Lee, Wei-Cheng; Nomura, Kentato; MacDonald, Allan H., International J. of Modern Phys B **23**, 2634-2640 (2009).

521 "Origin of Universal Optical Conductivity and Optical Stacking Sequence Identification in Multilayer Graphene", Min, Hongki; MacDonald, A. H., Phys. Rev. Lett. **13**, 5 (2009).

520 "Interaction effects in the optical conductivity of bilayer graphene: Drude-interband coupling and screening", Tse, Wang-Kong; MacDonald, A. H., Phys. Rev. B **80**, 195418 (2009).

519 "Finite-temperature Screening and the Specific Heat of Doped Graphene Sheets", Ramezanali, M. R.; Vazifeh, M. M.; Sagari, Reza; Polini, Marco; MacDonald, Allan H., Phys A: Math Theory **42**, 214015 (2009).

518 "Anomalous Exciton-Condensation in Graphene Bilayers", Barlas, Yafis; Cote, Rene; Lambert, J.; MacDonald, Allan H., Phys. Rev. Lett. **104**, 096802 (2009).

517 "Theory of the Magnetic-Field-Induced Insulator in Neutral Graphene", Jung, J.; MacDonald, A. H., Phys. Rev. B **80**, 235417 (2009).

516 "Drude-interband Coupling, Screening, and the Optical Conductivity of Doped Bilayer Graphene", Tse, Wang-Kong; MacDonald, Allan H., Phys. Rev. B **80**, 195418 (2009).

515 "Blockade and superdrag in exciton-condensate Josephson junctions", Dolcini, Fabrizio; Rainis, Diego; Taddei, Fabio; Polini, Marco; Fazio, Rosario; MacDonald, Allan H., Phys. Rev. Lett. **104**, 027004 (2009).

514 "Electron-electron interactions in graphene bylayers", Zhang, Fan; Min, Hongki; Polini, Marco; MacDonald, Allan H., Phys. Rev. B **81**, 041402 (2009).

513 "Magnetic properties of substitutional Mn in (110) GaAs surface and subsurface layers", Strandberg, T.O.; Canali, C. M.; MacDonald A. H., Phys. Rev. B **80**, 024425 (2009).

512 "The Circular Photogalvanic effect in two-dimensional hole gases in perpendicular magnetic field", Vasyukov, D. A.; Plaut, A. S.; MacDonald, A. H., Phys. Rev. B **23**, 2867-2871 (2009).

511 "Hydrodynamic theory of transport in doped graphene", Bistritzer, R.; MacDonald, Allan H., Phys. Rev. B **80**, 085109 (2009).

510 "Influence of a Transport Current on Magnetic Anisotropy in Gyrotropic Ferromagnets", Garate, Ion; MacDonald, Allan H., Phys. Rev. B **80**, 134403 (2009).

509 "Dynamical response functions and collective modes of bilayer graphene", Borghi, Giovanni; Polini, Marco; Asgari, Rexa; MacDonald, Allan H., Phys. Rev. B **80**, 241402 (2009).

508 "Berry Phase Coupling and the Cuprate Neutron Scattering Resonance", Lee, Wei-Cheng; MacDonald, Allan H., arXiv:0905.0464v1 (2014).

507 "Spin-Orbit Interactions in Bilayer Excitron-Condensate Ferromagnets", Shim, Y-P; MacDonald, Allan H., Phy. Rev. B **79**, 235329 (2009).

506 "Carrier Density and Magnetism in Graphene Zigzag Nanoribbons", Jung, J.; MacDonald, A. H., Phy. Rev. B **79**, 235433 (2009).

505 "Universal Interband Conductivity in Graphene Multilayers", Min, Hongki; MacDonald, A. H., Phys. Rev. Lett. **103**, 067402 (2009).

504 "Bilayer PseudoSpin Field-Effect Transistor (BISFET): A Proposed New Logic Device", Banerjee Sanjay K.; Register, Leonard F.; Tutuc, Emanuel; Reddy, Dharmendar; Macdonald, Allan H., IEEE Electron Device Lett. **30**, 158-160 (2009.)

503 "Fermi Velocity Enhancement in Monolayer and Bilayer Graphene", Borghi, Giovanni; Polini, Marco; Asgari, Reza; MacDonald, Allan H., Solid State Comm. **149**, 1117-1122 (Sep 2009).

502 "Electronic Cooling in Graphene", Bistritzer, R.; MacDonald, Allan H., Phys. Rev. Lett. **102**, 206410 (2009).

501 "Non-Adiabatic Spin Transfer Torque in Real Materials", Garate, Ion; Gilmore, K.; Stiles, M. D.; MacDonald, Allan H., Phys. Rev. B **79**, 104416 (2009).

500 "Theory of inter-edge superexchange in zigzag edge magnetism", Jung, J.; Pereg-Barnea, T.; MacDonald, Allan H., Phys. Rev. Lett **102**, 227205 (2009).

499 "Theory of Weak Localization in Ferromagnetic (Ga,Mn)As", Garate, Ion; Sinova, Jairo; Jungwirth, T.; MacDonald, Allan H., Phys. Rev. B **79**, 155207 (2009).

498 "Quantum Wells in Polar-Nonpolar Oxide Heterojunction Systems", Wang, C. C. Joseph; Sahu, Bhagawan; Min, Hongki; Lee, Wei-Cheng; MacDonald, Allan H., Phys. Rev. B **79**, 115408 (2009).

497 "Tests of the Torque-Correlation Formula", Garate, Ion; MacDonald, Allan; Phys. Rev. B **79**, 064404 (2009).

496 "Gilbert Damping in Conducting Ferromagnets I: Kohn-Sham Theory and Atomic-Scale Inhomogeneity", Garate, Ion; MacDonald, Allan H., Phys. Rev. B **79**, 064403 (2009).

495 "Theory of Spin-Orbit Effects in Semiconductors", Sinova, J.; MacDonald, A. H., Spintronics: Semiconductors & Semimetals **82**, 45 (2008).

494 "Overhauser field-induced electron transport through weakly coupled double quantum dots", Inarrea, Jesus; MacDonald, Allan H.; Lopez-Monis, Carlos; Platero, Gloria, Physica Status Solid A **205**, 1266-1269 (2008).

493 "Comment on “Electron screening and excitonic condensation in double-layer graphene systems", Bistritzer, R.; Min, H.; Su, J. J.; MacDonald, Allan H., cond-mat/0810.0331 (2008).

492 "Influence of Disorder on Electron-Hole Pair Condensation in Graphene Bilayers", Bistritzer, R.; MacDonald, Allan H., Phys. Rev. Lett **101**, 256406 (2008).

491 "Electronic structure of multilayer graphene", Min, Hongki; MacDonald, Allan H., Progress of Theoretical Physics Supplement **176**, 227-252 (2008).

490 "Weak-coupling theory of photoemission and inelastic neutron scattering and the mechanism of superconductivity in the cuprates", Lee, Wei-Cheng; MacDonald, Allan H., Phys. Rev. B **78**, 174506 (2008).

489 "Chern-number spin Hamiltonians for magnetic nano-clusters by DFT methods", Strandbert, T. O.; Canali, C. M.; MacDonald, Allan H., Phys. Rev. B **77**, 174416 (2008).

488 "Density-Functional Theory of Graphene Sheets", Polini, Marco; Tomadin, Andrea; Asgari, Reza; MacDonald, Allan H., Phys. Rev. B **78**, 115426 (2008).

487 "Theory of Graphene Chiral Quasiparticle LDOS maps in graphene", Pereg-Barnea, T.; MacDonald, Allan H., Phys. Rev. B **78**, 014201 (2008).

486 "Intra-Landau-Level Cyclotron Resonance in Bilayer Graphene", Barlas, Yafis; Cote, R.; Nomura, K.; MacDonald, Allan H., Phys. Rev. Lett. **101**, 097601 (2008).

485 "Room-Temperature Superfluidity in Graphene Bilayers?" Min, Hongki; Bistritzer, Rafi; Su, Jung-Jung; MacDonald, Allan H., Phys. Rev. B **78**, 121401 (2008).

484 "How to make a bilayer exciton condensate flow", Su, Jung-Jung; MacDonald, Allan H., Nature Physics **4**, 799-802 (2008).

483 "Electronic properties of bilayer graphene nanoribbons", Sahu, Bhagawan; Min, Hongki; MacDonald, Allan H.; Banerjee, Sanjay K., Phys. Rev. B **78**, 045404 (2008).

482 "Effect of Edge Roughness on Electronic Transport in Graphene Nanoribbon Channel Metal Oxide Semiconductor Field-Effect Transistors", Basu, D.; Gilbert, M. J.; Register, L. F.; MacDonald, Allan H.; Banerjee, S. K., App. Phys. Lett. **92**, 042114 (2008).

481 "Chiral decomposition in the electronic structure of graphene multilaterys", Min, Hongki; MacDonald, Allan H., Phys. Rev. B **77**, 155416 (2008).

480 "Theory of Superfluid Density in High-Tc Superconductors: enabled by Holes or Suppressed by Electrons?" Lee, Wei-Cheng; Sinova, Jairo; Burkov, A. A.; Joglekar, Yoges; MacDonald, Allan H., Phys. Rev. B **77**, 214518 (2008).

479 "Energy gaps, magnetism, and electric field effects in bilayer graphene nanoribbons", Sahul, Bhagawan; Min, Hongki; MacDonald, Allan H.; Banerjee, Sanjay K.; arXiv:0801.1991v3

478 "Current-Induced Torques in Magnetic Metals: Beyond Spin Transfer", Haney, P. M.; Duine, R. A.; Nunez, A. S.; MacDonald, Allan H., Journal of Magnetism and Magnetic Mat. **320**, 1300 (2008).

477 "Current-induced torques due to compensated antiferromagnets", Haney, Paul M.; MacDonald, Allan H., Phys. Rev. Lett. **100**, 196801 (Jan 2008).

476 "Hubbard-Thomas-Fermi Theory Metal Oxide Heterostructures", Lee, Wei-Cheng; MacDonald, Allan H., Physica B **403**, 1558 (2008).

475 "The Role of Electron-electron Interactions in Graphene ARPES Spectra (presentation)", Polini, Marco; Asgari, Reza; Borghi, Giovanni; Barlas, Yafis; Pereg-Barnea, T.; MacDonald, Allan H., Phys. Rev. B **77**, 081411 (2008).

474 "Anomalous Transport in Metals and Semiconductors", MacDonald, Allan H., Int Journal of Modern Physics B **22**, 1 (2008).

473 "Chiral quasiparticle local density of states maps in graphene", Pereg-Barnea, T.; MacDonald, A. H, Phys. Rev. B **78**, 1 (2008).

472 "Electronic correlations and disorder in transport through one-dimensional nanoparticle arrays", Bascones, E.; Estevez, V.; Trinidad, J. A.; MacDonald, A. H., Phys. Rev. B **77**, 24 (2008).

471 "Calculation of Chern number spin Hamiltonians for magnetic nano-clusters by DFT methods", Strandberg, T. O.; Canali, C. M.; MacDonald, A. H.; Phys. Rev. B **77**, 17 (2008).

470 "Dynamical nuclear polarization in double quantum dots induced by hyperfine interaction", Inarrea, J.; Lopez-Monis, C.; Platero, G.; MacDonald, Allan H., Physica E **40**, 1189 (2008).

469 "Plasmons and the spectral fuction of graphene", Polini, Marco; Asgari, Reza; Borghi, Giovanni; Barlas, Yafis; Pereg-Barnea, T.; MacDonald, Allan H., Phys. Rev. B **77**, 081411 (2008).

468 "Graphene: Exploring carbon flatland", Geim, A. K.; MacDonald, Allan H., Physics Today **60**, 8 (2007).

467 "Hysteretic behavior in weakly coupled double-dot transport in the spin blockade regime", Inarrea, J.; Lopez-Monis, C.; MacDonald, Allan H.; Platero, G., App. Phys. Lett. **91**, 252112 (2007).

466 "Effect of the long-range interaction in transport through one-dimensional nanoparticle arrays", Bascones, E.; Trinidad, J. A.; Estevez, V.; MacDonald, Allan H., cond-mat/0709.3724 (2007).

465 "Character of states near the Fermi level in (Ga,Mn)As: Impurity to valence band crossover", Jungwirth, T.; Sinova, Jairo; MacDonald, A. H.; Gallagher, B. L.; Novak, V; Edmonds, K. W.; Rushforth, A. W.; Campion, R. P.; foxon, C. T.; Eaves, L.; Olejnik, E.; Masek, J.; Yang, S.-R. Eric; Wunderlich, J.; Gould, C.; Molenkamp, L. W.; Dietl, T.; Ohno, H., Phys. Rev. B **76**, 125206 (2007).

464 "Quantum transport of massless dirac fermions", Nomura, Kentaro; MacDonald, A. H., Phy. Rev. **98**, 7 (2007).

463 "Microscopical Model for Hyperfine Interaction in Electronic Transport Through Double Quantum Dots: Spin Blockade Lifting", Inarrea, Jesus; Platero, Gloria; MacDonald, Allan H., Chapter in book (2007).

462 "Theory of the Pseudospin Resonance in Semiconductor Bilayers", Abedinpour, Saeed H.; Polini, Marco; MacDonald, Allan H.; Tanatar, B.; Tosi, M.P.; Vignale, G.; Phys. Rev. Lett. **99**, 206802 (2007).

461 "Anomalous Hall effect in a two-dimensional electron gas", Nunner, Tamara S.; Sinitsyn, N. A.; Borunda, Mario F.; Kovalev, A.A.; Abanov, Ar.; Timm, Carsten; Jungwirth, T.; Inoue, Jun-ichiro; MacDonald, Allan H.; Sinova, Jairo, Phys. Rev. B **78**, 235312 (2007).

460 "Graphene: A Pseudochiral Fermi Liquid", Polini, Marco; Asgari, Reza; Barlas, Yafis; Pereg-Barnea, T.; MacDonald, Allan H., Solid State Comm. **143**, 58 (2007).

459 "Transition-metal dimers and physical limits on magnetic anisotropy", Strandberg, Tor O.; Canali, Carlo M.; MacDonald, Allan H., Nature Materials **6**, 648 (2007).

458 "Optical Control of Topological Quantum Transport in Semiconductors", Yao, W.; MacDonald, Allan H.; Niu, Q.; Phys. Rev. Lett. **99**, 047401 (2007).

457 "Absence of skew scattering in two-dimensional systems: Testing the origins of the anomalous Hall effect", Borunda, Mario F.; Nunner, Tamara S.; Luck, Thomas; Sinitsyn, N. A.; Timm, Carsten; Wunderlich, J.; Jungwirth, T.; MacDonald, Allan H.; Sinova, J., Phys. Rev. Lett. **99**, 066604 (2007).

456 "Chirality and Correlations in Graphene", Barlas, Yafis; Pereg-Barnea, T.; Polini, Marco; Asgari, Reza; MacDonald, Allan H., Phys. Rev. Lett. **98**, 236601 (2007).

455 “On the character of states near the Fermi level in (Ga, Mn)As: impurity to valence band crossover", Jungwirth, T.; Sinova, Jairo; MacDonald, Allan H., Phys. Rev. B **76**, 125206 (2007).

454 "Electronic transport through a double quantum dot in the spin-blockade regime: Theoretical models", Inarrea, Jesus; Platero, Gloria; MacDonald, Allan H., Phys. Rev. B **76**, 085329 (2007).

453 "Electronic Interface Reconstruction at Polar-Nonpolar Mott Insulator Heterojunctions", Lee, Wei-Cheng; MacDonald, Allan H., Phys. Rev. B **76**, 075339 (2007).

452 "Current Induced Order Parameter Dynamics: Microscopic Theory Applied to Co/Cu/Co spin valves", Haney, P. M.; Waldron, D.; Duine, R. A.; Nunez, A. S.; Guo, H.; MacDonald, A. H., Phys. Rev. B **76**, 024404 (2007).

451 "Functional Keldysh Theory of Spin Torques", Duine, R. A.; Nunez, A. S.; Sinova, Jairo; MacDonald, Allan H., Phys. Rev. B **75**, 214420 (2007).

450 "Thermally-Assisted Current-Driven Domain Wall Motion", Duine, R. A.; Nunez, A. S.; MacDonald, Allan H., Phys. Rev. Lett. **98**, 056605 (2007).

449 "Ab-initio GMR and current-induced torques in Cr/Au/Cr multilayers", Haney, P. M.; Waldron, D.; Duine, R. A.; Nunez, A. S.; Guo, H.; MacDonald, A. H., Phys. Rev. B **75**, 174428 (2007).

448 "Ab Initio Theory of Gate Induced Caps in Graphene Bilayers", Min, Hongki; Sahu, B.R.; Banerjee, Sanjay K.; MacDonald, Allan H., Phys. Rev. B **75**, 155115 (2007).

447 "Anomalous Hall effect in 2D Dirac band: link between the Kubo-Streda formula and semiclassical Boltzmann equation approach", Sinitsyn, N. A.; MacDonald, Allan H.; Jungwirth, T.; Dugaev, V. K.; Sinova, Jairo, Phys. Rev. B **75**, 045315 (2007).

446 "Mn-doped Ga(As,P) and (Al,Ga)As ferromagnetic semiconductors", Masek, J.; Kudrnovsky, J.; Maca, F.; Sinova, Jairo; MacDonald, Allan H.; Campion, R. P.; Gallagher, B. L.; Jungwirth, T., Phys. Rev. B **75**, 045202 (2007).

445 "Inelastic scattering in ferromagnetic and antiferromagnetic metal spintronics", Duine, R. A.; Haney, P. M.; Nunez, A. S.; MacDonald, A. H., Phys. Rev. B **75**, 014433 (2006).

444 "Quantum Transport of Massless Dirac Fermions in Graphene", Nomura, Kentaro; MacDonald, Allan H., Phys. Rev. Lett. **98**, 076602 (2007).

443 "Interplay of acoustic phonons and Overhauser interaction in spin blockade removal in double quantum dots", Iarrea, Jesus; Platero, Gloria; MacDonald, Allan H., Physica Status Solidi (c) **4** (2007).

442 "Scattering dependence of bias-controlled magnetization switching in ferromagnetic resonant tunneling diodes", Ganguly, S.; MacDonald, Allan H.; Register, L. F.; Banerjee, S. K., Phys. Rev. B **74**, 153314 (2006).

441 "FFLO Vortex Lattice States in Cold Fermionic-Atom Systems", Shim, Y-P; Duine, R. A.; MacDonald, Allan H., Phys. Rev. A **74**, 053602 (2006).

440 "Spin blockade removal in a double quantum dot via hyperfine interaction", Kaestner, B.; Wunderich, J.; Jungwirth, T.; Sinova, J.; Nomura, K.; MacDonald, Allan H., Physica E-Low Dimensional Systems & Nanostructures **34**, 47 (2006).

439 "Experimental observation of the spin-Hall effect in a spin-orbit coupled two-dimensional hole gas" Inarrea, Jesus; Platero, Gloria; MacDonald, Allan H., Physica E-Low Dimensional Systems & Nanostructures **34**, 429 (2006).

438 "Theory of spin transfer phenomena in magnetic metals and semiconductors", Nunez, Alvaro S.; MacDonald, Allan H., Solid State Comm **139**, 31 (2006).

437 "Theory of spin torques and giant magnetoresistance in antiferromagnetic metals", Nunez, A. S.; Duine, R. A.; Paul Haney; MacDonald, A. H., Phys. Rev. B **73**, 214426 (2006).

436 "Phonon-assisted transport through a double quantum dot: magnetic field dependence in a spin blockade regime", Iarrea, Jesus; Platero, Gloria; MacDonald, Allan H., Physica Status Solidi (c) **11** (2006).

435 "Foreword", Das Sarma, Sankar; Geim, Andre K.; Kim, Philip; MacDonald, Allan H., Solid State Communications **143** (2006).

434 "Intrinsic and Rashba Spin-orbit Interactions in Graphene Sheets", Min, Hongki; Hill, J. E.; Sinitsyn, N. A.; Sahu, B. R.; Kleinman, Leonard; MacDonald, Allan H., Phys. Rev. B **74**, 165310 (2006).

433 "Spin transfer in an antiferromagnet", Wei, Z.; Sharma, A.; Nunez, A. S.; Haney, P. M.; Duine, R. A.; Bass, J.; MacDonald, Allan H.; Tsoi, M., Phys. Rev. Lett. **98**, 116603 (2007).

432 "Effect of magnetic field on spin blockade lifting of weakly coupled quantum dots", Inarrea, Jesus; Platero, Gloria; MacDonald, Allan H., Phys. Stat. Sol. A **6**, 1148-1153 (2006).

431 "Modulation Doping near Mott-Insulator Heterojunctions", Lee, Wei-Cheng; MacDonald, A. H., Phys. Rev. B **74**, 075106 (2006).

430 "Collective Modes and Skyrmion Excitations in Graphene SU (4) Quantum Hall Ferromagnets", Yang, Kun; Das Sarma, S.; A.H. MacDonald, Phys. Rev. B **74**, 075423 (2006).

429 "Nonlinear Spin Current and Magnetoresistance of Molecular Tunnel Junctions", Waldron, Derek; Haney, Paul; Larade, Brian; MacDonald, A. H.; Guo, Hong, Phys. Rev. Lett. **96**, 166804 (2006).

428 "Theory of ferromagnetic (III,Mn)V semiconductors", Jungwirth, T.; Sinova, Jairo; Masek, J.; Kucera, J.; MacDonald, Allan H., Rev. Modern Phy. **78**, 809 (2006).

427 "Charge and spin Hall conductivity in metallic graphene", Sinitsyn, N. A.; Hill, J. E.; Min, Hongki; Sinova, Jairo; MacDonald, Allan H., Phys. Rev. Lett. **97**, 106804 (2006).

426 "Fulde-Ferrell-Larkin-Ovchinnikov vortex lattice states in fermionic cold-atom systems", Shim, Y-P; Duine, R. A.; MacDonald, A. H., Phys. Rev. A **74** (2006).

425 "Magnetic Anisotropy of Isolated Cobalt Nanoplatelets", Strandbert, T. O.; Canali, C. M.; MacDonald, Allan H., Phys. Rev. B **73**, 144415 (2006).

424 "Two-Level Voltage-Controlled Magnetization Switch Using a Ferromagnetic Semiconductor Resonant-Tunneling Diode", Ganguly, Swaroop; Register, Leonard F.; MacDonald, A. H.; Banerjee, Sanjay K., IEEE Transactions on Nano Techn. **5**, 30 (2006).

423 "Coordinate shift in the semiclassical Boltzmann equation and the anomalous Hall Effect", Sinitsyn, N. A.; Niu, Q.; MacDonald, Allan H., Phys. Rev. B **73**, 075318 (2006).

422 "Quantum Hall Ferromagnetism in Graphene", Nomura, Kentaro; MacDonald, Allan H., Phys. Rev. Lett. **96** (June 2006).

421 "Spin-flip excitations in bilayer quantum Hall ferromagnets", Polini, Marco; Burkov, Anton; MacDonald, Allan H., Solid State Comm. **135**, 654 (2005).

420 "Interlayer Transport in Bilayer Quantum Hall Systems", Rossi, Enrico; Nunez, Alvaro S.; MacDonald, Allan H., Phys. Rev. Lett. **95**, 266804 (2005).

419 "Edge-spin accumulation in semiconductor two-dimensional hole gasses", Nomura, K.; Wunderlich, J.; Sinova, Jairo; Kaestner, B.; MacDonald, Allan H.; Jungwirth, T., Phys. Rev. B **72**, 245330 (2005).

418 "Low-temperature magnetIzation of (Ga,Mn) As semiconductors", Jungwirth, T.; Masek, J.; Wang, K. Y.; Edmonds, K. W.; Sawick, M.; Polini, M.; MacDonald, Allan H., Phys. Rev. B **73**, 165205 (2005).

417 "Edge Magnetoplasmons in Quantum Hall Line Junction Systems", Lee, Wei-Cheng; Sinitsyn, N. A.; Papa, Emiliano; MacDonald, Allan H., Phys. Rev. B **72**, 121304 (2005).

416 "Dependence of the intrinsic spin Hall effect on spin-orbit interaction character", Nomura, K.; Sinova, Jairo; Sinitsyn, N. A.; MacDonald, Allan H., Phys. Rev. B **72**, 165316 (2005).

415 "Anisotropic exchange interactions in III-V diluted magnetic semiconductors", Timm, C.; MacDonald, A. H., Phys. Rev. B **71**, 155206 (2005).

414 "Numerical Kubo formula study of frictional drag in the integer quantum Hall regime", Nomura, K.; MacDonald, A. H., Int. J. Mod. Phys. B **18**, 3621 (2004).

413 "Thermoinduced magnetization in nanoparticles of antiferromagnetic materials", MacDonald, Allan H.; Canali, C. M., Phy. Rev. Lett. **94**, 089701 (2005).

412 "Dynamics of magnetization coupled to a thermal bath of elastic modes", Rossi, Enrico; Heinonen, Olle G.; MacDonald, Allan H., Phys. Rev. B **72**, 174412 (2005).

411 "Prospects of high temperature ferromagnetism in (Ga,Mn) As semiconductors", Jungwirth, T.; Wang, K. Y.; Masek, J.; Edmonds, K. W.; Konig, Jurgen; Sinova, Jairo; Polini, M.; Goncharuk, N.A.; MacDonald, Allan H., et al, Phys. Rev. B **72**, 165204 (2005).

410 "Intrinisic Curie temperature bistability in ferromagnetic semiconductor resonant tunneling diodes", Ganguly Swaroop; MacDonald, Allan H., Register, L. F.; Banerjee, S., Phys. Rev. B **73**, 033310 (2006).

409 "Itinerant Ferromagnetism in an Ultracold Atom Fermi Gas", Duine, R. A.; MacDonald, Allan H., Phys. Rev. Lett. **95** 230403 (2005).

408 "Ferromagnetic Semiconductors: Moving Beyond (Ga,Mn) As", MacDonald, Allan H.; P. Schiffer, N. Samarth, Nat. Mat. **4**, 195 (2005).

407 "Edge State Tunneling in a Split Hall Barr Model", Papa, E.; MacDonald, Allan H., Phys. Rev. B **72**, 045324 (2005).

406 "Optical control of the magnetization damping in ferromagnetic semiconductors", Polini, M., Fazio, R.; MacDonald, Allan H.; Tsoi, M. P., Journal of Magn. and Magnetic Mat. **272**, 010401 (May 2004).

405 "Realization of fully frustrated Josephson-junction arrays", Polini, M., Fazio, R.; MacDonald, Allan H.; Tsoi, M. P.; Phys. Rev. Lett **95** (2005).

404 "Quantitative Probe of Pairing Correlations in a Cold Fermionic Atom Gas", Duine, R. A.; MacDonald, Allan H., Phys. Rev. A **71**, 053613 (2005).

403 "Bias voltage controlled magnetization switch in ferromagnetic semiconductor resonant tunneling diodes", Banerjee, S.; MacDonald, A. H., Phys. Rev. B **71**, 245306 (2005).

402 "Electric generation of spin in crystals with reduced symmetry", Culcer, Dimitrie; Yao, Yugui; MacDonald, Allan H.; Niu, Qian, Phys. Rev. B **72**, 045215 (2005).

401 "Non-vanishing spin Hall currents in disordered spin-orbit coupling systems", Nomura, K.; Sinova, Jairo, Jungwirth, T.; Niu, Q.; Macdonald, Allan H., Phys. Rev. B **71**, 041304 (2005).

400 "Influence of non-local exchange on RKKY interactions in III-V diluted magnetic semiconductors", Timm, C.; MacDonald, Allan H., Phys. Rev. B **71** (Jan 2004).

399 "Vortex Lattice Structure of Fulder-Ferrell-Larkin-Ovchinnikov Superconductors", Yang, K.; MacDonald, Allan H., Phys. Rev. B **70**, 094512 (2004).

398 "Decoherence processes during optical manipulation of excitonic qubits in semiconductor quantum dots", Wang, Q. Q.; Muller, A.; Bianucci, P.; Rossi, E.; Xue, Q. K.; Takagahara, T.; Piermarocchi, C.; MacDonald, Allan H.; Shih, C. K., Phys. Rev. B **72**, 035306 (2005).

397 "Bose-Einstein Condensation of Excitons in Bilayer Electron Systems", Eisenstein, J. P.; MacDonald, Allan H., Nature **432**, 691 (2004).

396 "Spin Transfer Without Spin Conservation", Nunez, A. S.; MacDonald, Allan H., cond-mat 0403710 (2004).

395 "Interactions suppress Quasiparticle Tunneling at Hall Bar Constrictions", Papa, Emiliano; MacDonald, Allan H., Phys. Rev. Lett. **93**, 126801 (2004).

394 "Coherently photo-induced ferromagnetism in diluted magnetic semiconductors", Fernandez-Rossier, J.; Peirmarocchi, C.; Chen, P.; MacDonald, Allan H.; Sham, L. J., Phys. Rev. Lett. **93,** 127201 (2004).

393 "Orbital and spin contributions to the SgS-tensors in metal nanoparticles", Frustaglia, Diego; Konig, Jurgen; MacDonald, Allan H., Phys. Rev. B **70**, 045205 (2004).

392 "Comment on "Thermoinduced Magnetization in Nanoparticles of Antiferromagnetic Materials", MacDonald, Allan H.; Canali, C. M., Phys. Rev. Lett. **94** (2004).

391 "Influence of a Uniform Current on Collective Magnetization Dynamics in a Ferromagnetic Metal", Jernandez-Rossier, J.; Braum, M.; Nunez, A. S.; MacDonald, Allan H., Phys. Rev. B **69**, (2004).

390 "Theory of Spin-Charge Coupled Transport in a Two-Dimensional Electron Gas with Rashba Spin-Orbit Interactions", Burko, A. A.; MacDonald, Allan H., Phy. Rev. B **70**, 155308 (2004).

389 "Anomalous Hall effect in paramagnetic two dimensional systems", Culcer, Dimitrie; MacDonald, Allan H.; Niu, Qian, Phys. Rev. B **68**, 045327 (2003).

388 "Collective transport in bilayer quantum Hall systems", Burkov, Anton A.; Jeglekar, Yogesh N.; Rossie, Enrico; MacDonald, Allan H., Physica E-Low Eimensional Systems & Nano **22**, 19-24 (2004).

387 "Collective transport properties of bilayer-quantum-Hall excitonic condensates", MacDonald, Allan H.; Burkov, Anton A.; Joglekar, Yogesh N.; Rossi, Enrico, Physics of Semiconductors, IOP Conference Series **171**, 29 (2003).

386 "Noise spectroscopy and interlayer phase-coherence in bilayer quantum Hall systems", Joglekar, Yogesh N.; MacDonald, Allan H., Phys. Rev. Lett. **92**, 199705 (2004).

385 "Comment on Coexistence of superconductivity and ferromagnetism in ferromagnetic metals", Joglekar, Yogesh N.; MacDonald, Allan H., Phys. Rev. Lett **92** (2004).

384 "Collective Transport in Bilayer Quantum Hall Systems", Burkov, Anton A.; Joglekar, Yofesh N.; Rossi, Enrico; MacDonald, Allan H. Physica E, **22** (2004)

383 "Semiclassical theory of spin transport in spin-orbit coupled systems", Culcer, Dimitrie; Sinova, Jairo; Sinitsyn, N. A.; Jungwirth, T.; MacDonald, Allan H.; Niu, Qian, Phys. Rev. Lett. **93**, 046602 (2004).

382 "Magnetic and transport properties of (III, Mn) V ferromagnetic semiconductors", Jungwirth, T.; Sinova, Jairo; MacDonald, A. H., Acta Phys. Pol. A **104**, 103 (2003).

381 "Magnetization relaxation in (Ga,Mn) As ferromagnetic semiconductors", Sinova, Jairo; Jungwirth, T.; Atkinson, W.A.; MacDonald, Allan H., Phys. Rev. B **69** (2004).

380 "Numerical Investigation on Asymmetric Bilayer System at Integer Filling Factor", Nomura, K.; Yoshioka, D.; Jungwirth, T.; MacDonald, Allan H., Physica E **22**, 19 (2004).

379 "Universal Intrinsic Spin-Hall Effect", Sinova, Jairo; Culcer, Dimitrie; Niu, Qian; Sinitsy, N. A.; Jungwirth, T.; MacDonald, Allan H., Phys. Rev. Lett. **92**, 126603 (2004).

378 "First principles calculation of anomalous Hall conductivity in ferromagnetic bcc Fe", Yao, Y.; Kleinman, L.; MacDonald, Allan H.; Sinova, Jairo; Jungwirth, T.; Wang, Ding-Sheng; Niu, Qian, Phys. Rev. Lett. **92**, 037204 (2004).

377 "Vibrational excitations in the paired phases of two-dimensional electron crystal in a perpendicular magnetic field", Asgari, R.; Polini, M.; Carnevale, V.; Tsoi, M. P., Physica B **336**, 387 (2003).

376 "Tunneling exponents in realistic quantm wires using the mean field approximation", Hausler, W; MacDonald, Allan H., cond-mat/030654 (2002).

375 "Ferromagnetic transition temperature enhancement in (Ga,Mn) As semiconductor by carbon co-doping", Jungwirth, T.; Masek, J.; Sinova, Jairo; MacDonald, Allan H., Phys. Rev. B **68**, 077202 (2003).

374 "Theory of spin waves in diluted-magnetic-semiconductor quantum wells", Frustaglia, D.; Richter, K.; MacDonald, A. H., Physical Review B **70**, 045205 (2004).

373 "Critical Currents of Ideal Quantum Hall Superfluids", Abolfath, M.; MacDonald, Allan H., Radzihovsky, L., Phys. Rev. B **15**, 155318 (2003).

372 "Persistent Spin Currents in Helimagnets", Heurich, Jan; Konig, Jurgen; MacDonald, Allan H., Phys. Rev. B **68**, 0464406 (2003).

371 "Disorder and ferromagnetism in diluted magnetic semiconductors", Yang, S. R. Eric; MacDonald, Allan H., Phy. Rev. B **67**, 155202 (2003).

370 "Optical spin transfer in ferromagnetic semiconductors", Fernandez-Rossier, J.; Nunez, Alvaro S.; Abolfath, M.; MacDonald, Allan H., cond-mat/0304492 (2003).

369 "Elementary Excitations of Ferromagnetic Metal Nanoparticles", Cehovin, A.; Canali, C. M.; MacDonald, Allan H., Phys. Rev. B **68**, 014423 (2003).

368 "Chern Numbers for Spin Models of Transition Metal Nanomagnets", Canali, C. M.; Cehobin, A.; MacDonald, Allan H., Phys. Rev. Lett. **91**, 046805 (2003).

367 "Exact diagonalization study of domain structure in integer filling factor quantum Hall ferromagnets", Rezayi, E. H.; Jungwirth, T.; MacDonald, Allan H.; Haldane, F. D. M., Phys. Rev. B **67**, 201305 (2003).

366 "Noncollinear Ground States in Ferromagnetic (III,Mn) V Semiconductors", Schliemann J.; MacDonald, Allan H., J. Supercond. **16**, 11-14 (2003).

365 "DC-transport properties of ferromagnetic (Ga,Mn) As semiconductors", Jungwirth, T.; Sinova, Jairo; Wang, K. Y.; Edmonds, K. W.; Campion, R. P.; Gallagher, B. L.; Foxon, C. T.; Niu, Qian; MacDonald, Allan H., Appl. Phys. Lett. **83**, 320 (2003).

364 "Infrared magneto-optical properties of (III,Mn) V ferromagnetic semiconductors", Sinova, Jairo; Jungwirth, T.; Kucera, J.; MacDonald, Allan H., Phys. Rev. B **67**, 235203 (2003).

363 "Fractional-quantum-Hall edge electrons and Fermi statistics", Zulicke, U.; Palacios, J. J.; MacDonald, Allan H., Phys. Rev. B **67**, 045303 (2003).

362 "Momentum Distribution Function of a Narrow Hall Bar in the FQHE Regime", Yang, S. R. Eric; Mitra, Sami; Fisher, M. P. A.; MacDonald, Allan H., cond-mat/0212170 (2002).

361 "Spin-polarized current oscillations in diluted magnetic semiconductor multiple quantum wells", Bejar, Manuel; Sanchez, David; Platero, Gloria; MacDonald, Allan H., Phys. Rev. B **67**, 045324 (2003).

360 "Theoretical models of ferromagnetic III-V semiconductors", Jungwirth, T.; Sinova, Jairo; Kucera, J.; MacDonald, Allan H., Curr. Appl. **3**, 461 (2003).

359 "Non-Drude Optical Conductivity of (III,Mn) V Ferromagnetic Semiconductors", Yang, S. R. Eric; Sinova, Jairo; Jungwirth, T.; Shim, Y. P.; MacDonald, Allan H., Phys. Rev. B **67**, 045205 (2003).

358 "Measuring the condensate fraction of rapidly rotating trapped boson systems: off-diagonal order from the density", Sinova, Jairo; Hanna, C. B.; MacDonald, Allan H., Phys Rev. Lett. **90**, 120401 (2003).

357 "Spin transport in diluted magnetic semiconductor superlattices", Béjar, Manuel; Sánchez, David; Platero, Gloria; MacDonald, A. H. Recent Trends (2003).

356 "EPR and ferromagnetism in diluted magnetic semiconductor quantum wells", Konig, J.; MacDonald, Allan H., Phys. Rev. Lett **91** (2003).

355 "Boltzmann theory of engineered anisotropic magnetoresistance in (Ga, Mn) As", Jungwirth, T.; M. Albofath, Sinova, J.; MacDonald, Allan H., Appl. Phys. Lett. **81**, 4029 (2002).

354 "Quantum-Hall quantum bits", Yang, SRE; Schliemann, J.; MacDonald, A. H., Phys. Rev. B **66**, 153302 (2002).

353 "Quantum theory of bilayer quantum Hall smectics", Papa, Emiliano; Schliemann, John; MacDonald, Allan H.; Fisher, Matthew P. A.; Phys. Rev. B **67**, 115330 (2003).

352 "Metal-Insulator Transition and Ferromagnetism in Diluted Magnetic Semiconductors", Yang, S. R. Eric; MacDonald, Allan H., Phys. Rev. B **67** (2002).

351 "Magnetization orientation dependence of the quasiparticle spectrum and hysteresis in ferromagnetic metal nanoparticles", Cehovin, A.; Canali, C. M.; MacDonald, Allan H., Phys. Rev. B **66**, 9 (2002).

350 "Lattice pseudospin model for nu=1 quantum Hall bilayers", Burkov, A.; MacDonald, Allan H., Phys. Rev. B **66**, 115320 (2002).

349 "nu=2 bilayer quantum Hall system in a tilted magnetic field" Burkov, A.; MacDonald, Allan H., Phys. Rev. B **66**, 115 (2002).

348 "Non-linear spin transport in magnetic semiconductor multiple quantum-wells", Sanchez, D.; MacDonald, Allan H., Platero, G.; Physica E **13**, 525 (2002).

347 "Zero-bias conductance anomaly in bilayer quantum Hall systems", Joglekar, Y.; MacDonald, A. H., Int. J. Mod. Phys. B **16**, 2936 (2002).

345 "Coupling between edge and bulk in stron-field quantumdots", Yang, S. R.; MacDonald, Allan H., Phys. Rev. B **66**, 041304 (2002).

344 "Theory of ferromagnetism in doped excitonic condensates", Bascones, E.; Burkov, A.; MacDonald, Allan H., Phys. Rev Lett. **89**, 086401 (2002).

343 "Curie temperature trends in (III, Mn) V ferromagnetic semiconductors", Jungwirth, T.; Konig, R.; Sinova, J.; Kucera, J.; MacDonald, A. H., " Phys. Rev. B **66**, 012402 (2002).

342 "Global phase diagram of bilayer quantum Hall ferromagnets", Abolfath, M.; Radzihovsky, L.; MacDonald, Allan H., Phys. Rev. B **65**, 233306 (2002).

341 "Bias-voltage-induced phase transition in bilayer quantum Hall ferromagnets", Joglekar, Y. N.; MacDonald, Allan H., Phys. Rev. B **65**, 235319 (2002).

340 "Quantum melting and absence of Bose-Einstein condensation in two-dimensional vortex matter", Sinova, J.; Hanna, C. B.; MacDonald, Allan H., Phys. Rev. Lett. **89**, 030403 (2002).

339 "Tunneling current characteristics in bilayer quantum Hall systems", Joglekar, Y. N.; MacDonald, Allan H., Physics B **312**, 554 (2002).

338 "Field-effect magnetization reversal in ferromagnetic semiconductor quantum wells", Lee, B.; Jungwirth, Tomas; MacDonald, Allan H., Phys. Rev. B **65**, 193311 (2002).

337 "Electron-phonon interactions in polyacene organic transistors", Sinova, J.; Nunez, A. S.; Schliemann, J.; MacDonald, A. H., Phys. Status Solid B **230**, 309 (2002).

336 "Collective spin fluctuations in diluted magnetic semiconductors", Konig, J.; Schliemann, J.; Jungwirth, T.; MacDonald, A. H., Physica E **12**, 379 (2002).

335 "Phase transition and spin-wave dispersion in quantum Hall bilayers at filling factor ν=1", Burkov, Anton; Schliemann, John; MacDonald, Allan H.; Girvin, S. M., Physica E **12**, 28 (2002).

334 Disorder and interactions in quantum Hall ferromagnets: effects of disorder in Skyrmion physics, Sinova, Jairo; MacDonald, Allan H.; Girvin, S. M.; Physica E **12**, 16 (2002).

333 "Two-dimensional Ising physics in quantum Hall ferromagnets", Jungwirth, T.; MacDonald, Allan H.; Rezayi, E. H.; Physica E **12**, 1 (2002).

332 "Anomalous Hall Effect in Ferromagnetic Semiconductors", Jungwirth, T.; Niu, Q.; MacDonald, A. H., Phys. Rev. Lett. **88**, 207208 (2002).

331 "Broken Symmetry States in Quantum Hall Superlattices", Hanna, C. B.; Diaz-Velez, J. C.; MacDonald, Allan H., Phys. Rev. B **65**, 115323 (2002).

330 "Tomonaga-Luttinger parameters for quantum wires", Hausler, W.; Kecke, L.; MacDonald, Allan H., Phys. Rev. B **65**, 085104 (2002)

329 "Noncollinear Ferromagnetism in (III,Mn)V Semiconductors", Schliemann, John; MacDonald, Allan H., Phys. Rev Lett. **88**, 137201 (2002).

328 "Ferromagnetism in diluted magnetic semiconductor heterojunction systems", Lee, Byounghak; Jungwirth, T.; MacDonald, Allan H., Semicond Sci Technol **17** (2002).

327 "Infrared conductivity of metallic "III, MnÉV ferromagnets", Sinova, Jairo; Jungwirth, T.; Yang, S-R Eric; Kuč, J.; MacDonald, A. H., Phys. Rev. B **66** (2002).

326 "Magnetic anisotropy, hysteresis and quasiparticle states in ferromagnetic metal nanoparticles", Cohovin, Wleksander; Canali, Carlo M.; MacDonald, Allan H., Phys. Rev. B **66** (2002).

325 "Superfluid Properties of Quantum Hall Ferromagnets", Abolfathe, Mohammad; MacDonald, Allan H., Physica B **298** (2001).

324 "Magnetic domains in III-V magnetic semiconductors", Dietl, T.; König, Jürgen; MacDonald, Allan H., Phys. Rev. B **64**, 241201 (2001).

323 "Thermodynamic and tunneling density of states of the integer quantum Hall critical state", Yang, S. R. Eric; Wang, Ziqiang; MacDonald, Allan H., Phys. Rev. B **65**, 041302 (2001).

322 "2D bands and electron-phonon interactions in polyacene plastic transistors", Sinova, J.; Schliemann, J.; Nuñez, A. S.; MacDonald, Allan H., Phys. Rev. Lett. **87**, 226802 (2001).

321 "Field-domain spintronics in magnetic semiconductor multiple quantum wells", Sánchez, D.; MacDonald, Allan H.; Platero, Gloria; Phys. Rev. B **65**, 035301 (2001).

320 "Superconductivity: Copper oxides get charged up", Allan H. MacDonald, Nature **414**, 409 (2001).

319 "Microscopic functional integral theory of quantum fluctuations in double-layer quantum Hall ferromagnets", Joglekar, Yogesh N.; MacDonald, Allan H., Phys. Rev. B **64**, 155315 (2001).

318 "Theory of magnetic properties and spin-wave dispersion for ferromagnetic (Ga, Mn) As", König, Jürgen; Jungwirth, T.; MacDonald, Allan H., Phys. Rev. B **64**, 184423 (2001).

317 "Resistance Spikes and Domain Wall Loops in Ising Quantum Hall Ferromagnets", Jungwirth, T.; MacDonald, Allan H., Phys. Rev. Lett **87**, 216801 (2001).

316 "Dissipationless Spin Transport in Thin Film Ferromagnets", König, Jürgen; Bønsager, Martin Chr.; MacDonald, Allan H., Phys. Rev. Lett. **87**, 187202 (2001).

315 "Monte Carlo study of ferromagnetism in (III, Mn)V semiconductors", Schliemann, John; König, Jürgen; MacDonald, Allan H., Phys. Rev. B **64**, 165201 (2001).

314 "Is there a dc Josephson Effect in Bilayer Quantum Hall Systems?, Joglekar, Yogesh N.; MacDonald, Allan H., Phys. Rev. Lett. **87**, 196802 (2001).

313 "Mean-field theory of magnetic properties of MnxIII1-xV semiconductors", Abolfath, M.; Jungwirth, T.; MacDonald, Allan H., Physica E **10**, 161 (2001).

312 "Hole-hole correlation effects on magnetic properties of MnxIII1-xV diluted magnetic semiconductors", Jungwirth, T.; Lee, B.; MacDonald, Allan H., Physica E **10**, 153 (2001).

311 "Ferromagnetism and spin waves in diluted magnetic semiconductors", König, J.; Lin, H. H.; MacDonald, A. H., Physica E **10**, 139 (2001).

310 "Quantum description of ferromagnet metal nanoparticles", MacDonald, A. H.; Canali, C. M., Solid State Comm. **119**, 253 (2001).

309 "Superfluid properties of double-layer quantum Hall ferromagnets", MacDonald, Allan H., Physica B **298**, 129 (2001).

308 "Nondissipative drag conductance as a topological quantum number", Yang, K.; MacDonald, Allan H., Phys. Rev. B **63**, 073301 (2001).

307 "Strong correlation to weak correlation phase transition in bilayer quantum Hall systems", Schliemann, J.; Girvin, S. M.; MacDonald, Allan H., Phys. Rev. Lett. **86**, 1849 (2001).

306 "Theory of interlayer tunneling in bilayer quantum Hall ferromagnets", Stern, A; Girvin, S. M.; MacDonald, Allan H.; Ma, Ning, Phys. Rev. Lett. **86**, 1829 (2001).

305 "Extensive eigenvalues in spin-spin correlations: A tool for counting pure states in Ising spin glasses", Sinova, J.; Canright, G.; Castillo, H. E.; MacDonald, Allan H., Phys. Rev. B **63**, 104427 (2001).

304 "Incommensurate ground state of double-layer quantum Hall systems", Hanna, C. B.; MacDonald, Allan H.; Girvin, S. M., Phys. Rev. B **63**, 125305 (2001).

303 "Pseudospin anisotropy classification of quantum Hall ferromagnets", Jungwirth, T.; MacDonald, Allan H., Phys. Rev. B **63**, 035305 (2001).

302 "Effect of order-parameter suppression on scattering by isolated impurities in asymmetric bands", Atkinson, W. A.; Hirschfeld, P. J.; MacDonald, Allan H., Physica C **341**, 1687 (2000).

301 "Theory of tunneling spectroscopy in ferromagnetic nanoparticles", Canali, C. M.; MacDonald, Allan H., Phys. Rev. Lett. **85**, 5623 (2000).

300 "Theory of magnetic anisotropy in III1-xMnxV ferromagnets", Abolfath, M.; Jungwirth, T.; Brum, J.; MacDonald, Allan H., Phys. Rev. B **63**, 4418 (2001).

299 "Spin and charge Tomonoga-Luttinger parameters in quantum wires", Creffield, C. E.; Hausler, W.; MacDonald, Allan H., Europhys Lett. **53**, 221 (2001).

298 "Limits on the Curie temperature of (III, Mn)V ferromagnetic semiconductors", Schliemann, John; König, Jürgen; Lin, Hsiu-Hau; MacDonald, Allan H., Appl. Phys. Lett. **78**, 1550 (2001).

297 "Double-occupancy errors, adiabaticity, and entanglement of spin qubits in quantum dots", Schliemann, John; Loss, Daniel; MacDonald, A. H., Phys. Rev. B **63**, 085311 (2001).

296 "Reply to Comment of Yang, Sun, and Chang on "Theory of Diluted Magnetic Semiconductor Ferromagnetism", König, Jürgen; Lin, Hsiu-Hau; MacDonald, Allan H., arXiv:cond-mat/0009453v1.

295 "Generalized Random-Phase Approximation Theory of Quasiparticle Spectral Functions: Application to Bilayer Quantum Hall Ferromagnets", Joglekar, Yofesh N.; MacDonald, Allan H., arXiv:cond-mat/0108077.

294 "Disorder and interactions in quantum Hall ferromagnets near $\nu=1$", Sinova, Jairo; MacDonald, A. H.; and Girvin, S. M., Phys. Rev. B **62**, 13579 (2000).

293 "Gap Inhomogeneities and the Density of States in Disordered d-Wave Superconductors", Atkinson, W. A.; Hirschfeld, P. J.; MacDonald, A. H., Phys. Rev. Lett. **85**, 3922 (2000).

292 "Details of Disorder Matter in 2D d-Wave Superconductors", Atkinson, W. A.; Hirschfeld, P. J.; MacDonald, A. H., Ziegler, K., Phys. Rev. Lett. **85**, 3926 (2000).

291 "Phonon-mediated drag at ν=1/2: A test of the Chern-Simons composite-fermion theory", Bønsager, Martin C.; Kim, Yong Baek; MacDonald, Allan H., Phys. Rev. B **62**, 10940 (2000).

290 "Hartree-fock theory of hole stripe states", Kim, Tae-Suk; Yang, S. R. Eric; MacDonald, Allan H., Phys. Rev. B **62**, 7747 (2000).

289 "Quasiparticle properties of quantum Hall ferromagnets", Kasner, Marcus; Palacios, J. J.; MacDonald, Allan H., Phys. Rev. B **62**, 2640 (2000).

288 "Quantum Dynamics of Pseudospin Solitons in Double-Layer Quantum Hall Systems", Kyriakidis, Jordan; Loss, Daniel; MacDonald, Allan H., Phys. Rev. Lett. **83**, 1411 (1999).

287 "Nature of Ergodicity Breaking in Ising Spin Glasses as Revealed by Correlation Function Spectral Properties", Sinova, Jairo; Canright, Geoff; MacDonald, Allan H., Phys. Rev. Lett. **85**, 2609 (2000).

286 "Reorientation of Anisotropy in a Square Well Quantum Hall Sample", Pan, W.; Jungwirth, T.; Stormer, H. L.; Tsui, D. C.; MacDonald, Allan H.; Girvin, S. M.; Smrcka, L; Pfeiffer, L. N.; Baldwin, K. W.; West, K. W., Phys. Rev. Lett. **85**, 3257 (2000).

285 "Theory of Diluted Magnetic Semiconductor Ferromagnetism", König, Jürgen; Lin, Hsiu-Hau; MacDonald, Allan H., Phys. Rev. Lett. **84**, 5628 (2000).

284 "Theory of carrier-induced ferromagnetism in MnxGa1-xAs/GaAs superlattices", Jungwirth, T.; Atkinson, W. A.; Lee, B. H.; MacDonald, Allan H., Physica E **6**, 794 (2000).

283 "Order parameter suppression in double layer quantum Hall ferromagnets", Joglekar, Y.; MacDonald, Allan H., Physica E **6**, 627 (2000).

282 "Hysteresis and first-order phase transition in the two-dimensional electron gas", Piazza, V.; Pellegrini, V.; Beltram, F.; Wegscheider, W.; Jungwirth, T.; MacDonald, Allan H., Physica E **6**, 108 (2000).

281 "Umklapp scattering at reconstructed quantum Hall edges", Zuelicke, Ulrich; MacDonald, Allan H., Physica E **6**, 104 (2000).

280 "Bilayer Quantum Hall Systems at Filling Factor ν=2: An exact diagonalization study", Schliemann, John; MacDonald, Allan H., Phys. Rev. Lett. **84**, 4437 (2000).

279 "Theory of ferromagnetism in diluted magnetic semiconductor quantum wells", Lee, Byounghak; Jungwirth, T.; MacDonald, Allan H., Phys. Rev. B **61**, 15606 (2000).

278 “Non-linear transport in quantum Hall smectics”, MacDonald, Allan H.; Fisher, M. P. A., Interactions and Transport Properties in Low-Dimensional Systems (Springer, Berlin, 2000).

277 "In-plane magnetic-field induced anisotropy and orientation energy of stripe phases at half-filled high Landau levels" Jungwirth, T.; MacDonald, Allan H.; Smrcka, L.; Girvin, S. M., Physica E **6**, 43 (2000).

276 "Quantum theory of quantum Hall smectics", MacDonald, Allan H.; Fisher, M. P. A., Phys. Rev. B **61**, 5724 (2000).

275 "Evidence for Ising Ferromagnetism and first-Order Phas Transitions in the Two-Dimensional Electron Gas", Piazza, V.; Pellegrini, V.; Beltram, F.; Wegscheider, W.; Bichler, M.; Jungwirth, T.; MacDonald, A. H., Lecture Notes in Physics (2000).

274 "Ferromagnetism in dilute magnetic semiconductor quantum wells", Lee, Byounghak; Jungwirth, Tomas; MacDonald, Allan. H., Phys. Rev. B **61** (2000).

273 "Spin Bottlenecks in the Quantum Hall Regime”, MacDonald, Allan H., Phys. Rev. Lett. **83** (1999).

272 "Electrodynamics of a clean vortex lattice", Atkinson, W. A.; MacDonald, Allan H., Phys. Rev. B **60**, 9295 (1999).

271 "First-order phase transitions in a quantum Hall ferromagnet", Piazza, V.; Pellegrini, V.; Beltram, F.; Wegscheider, W.; Jungwirth, T.; MacDonald, A. H., Nat. **402**, 638 (1999).

270 "Spintronics Spin Accumulation and Thermodynamics", MacDonald, Allan H., (Springer-Verlag, Berlin 2000).

269 "Field-tilt anisotropy in quantum Hall stripe states", Jungwirth, T.; MacDonald, A. H., Smrcka, L.; Girvin, S. M., Phys. Rev. B **60**, 15574 (1999).

268 "Pauli-limited superconductivity in small grains", Bønsager, M.C.; MacDonald, A. H., Solid State Comm. **112**, 409 (1999).

267 “Fractional-quantum-Hall edges at filling factor $\nu = 1 - 1/m$,”, Zülicke, U.; MacDonald, A. H.; Johnson, M., Quantum Physics at the Mesoscopic Scale: Proc. of the XXXIVth Rencontres de Moriond edited by C. Glattli, M. Sanquer, and J. Trân Thanh Vân (Editions Frontières, Gif-sur-Yvette, France (1999).

266 "Spin-bottlenecks in the quantum Hall regime", MacDonald, Allan H., Phys. Rev. Lett. **83**, 3262 (1999).

265 "Superconductivity-visualizing quasiparticle scattering resonanaces", Atkinson, W. A.; MacDonald, Allan H., Science **285**, 57 (1999).

264 "Broken symmetry ground states in ν=2 bilayer quantum Hall systems", MacDonald, Allan H., Rajaraman, R.; Jungwirth, T., Phys. Rev. B **60**, 8817 (1999).

263 "Periphery deformations and tunneling at correlated quantum Hall edges", Zülicke, U.; MacDonald, A. H., Phys. Rev. B **60**, 1837 (1999).

262 "Interlayer coupling in ferromagnetic semiconductor superlattices", Jungwirth, T.; Atkinson, W. A.; Lee, B. H.; MacDonald, A. H., Phys. Rev. B **59**, 9818 (1999).

261 "Shukla et al. Reply", Shukla, S. P.; Shayegan, M.; Jungwirth, T.; MacDonald, A. H., Phys. Rev. Lett. **82**, 3724 (1999).

260 "Transitions between Fractional and Integer Quantum Hall States in a Lateral Superlattice Potential", Pfannkuche, D.; MacDonald, A. H., Physica B **249**, 918 (1998).

259 "Friends in All the Wrong Places: Fermi Liquid States on the Bad Side of Town", MacDonald, Allan H., Asia Pacific Center for Theoretical Physics Bulletin **1**, 24 (1998).

258 "Magnons and Skyrmions in Quantum Hall Ferromagnets", MacDonald, Allan H.; Palacios, J. J.; Phys. Rev. B **58**, 10171 (1998).

257 "Skyrmions in Quantum Hall Ferromagnets", Fertig, H. A.; Brey, L.; Côté, R.; MacDonald, A. H.; Girvin, S. M., World Scientific, Singapore pg. **38** (1998).

256 "Correlations Weak and Strong: Divers Guises of the Two-Dimensional Electron System", MacDonald, Allan H., Int. J. Mod. Phys. B **13**, 447 (1999).

255 "Observability of counterpropogating modes at fractional Hall edges", Zülicke, U.; MacDonald, A. H.; Johnson, M. D., Phys. Rev. B **58**, 13778 (1998).

254 "Skyrmions in the quantum Hall effect", Brey, L.; Fertig, H. A.; Côté, R.; MacDonald, A. H., Strongly Correclated Magnetic and Superconducting Book Series: Lecture Notes in Physics, **478** (1997).

253 "Frictional drag mediated by acoustic phonons", Bønsager, M. C.; Flensberg, K.; Hu, B. Y. K.; MacDonald, Allan H., Physica B **249**, 864 (1998).

252 "Spin-bottleneck Resistance in Magnetic-Tunnel-Junction Devices", Jungwirth, T.; MacDonald, Allan H., Solid State Comm. **108**, 127 (1998).

251 "Magnetic Anisotropy in Quantum Hall Ferromagnets", Jungwirth, T.; Shukla, S. P.; Smrcka, L.; Shayegan, M.; MacDonald, A. H., Phys. Rev. Lett. **81**, 2328 (1998).

250 "The Sum of Their Parts and More", Girvin, S. M.; MacDonald, Allan H., Perspectives in Quantum Hall Effects, Wiley, New York (1997).

249 "Mixed-state penetration depth in s-wave and d-wave superconductors", Wang, Yong; MacDonald, Allan H., Solid State Comm. **109**, 289 (1999).

248 "Bulk charge distributions on integer and fractional quantum Hall plateaus", Palacios, J. J.; MacDonald, A. H., Phys. Rev. B **57**, 7119 (1998).

247 "Engineering superfluidity in electron-hole double layers", Conti, Sergio; Vignale, Giovanni; MacDonald, Allan H., Phys. Rev. B **57**, R6846 (1998).

246 "Interacting Electrons in a Lateral Superlattice Potential", Pfannkuche, Daniella; MacDonald, Allan H., World Scientific, Singapore (1997).

245 "Temperature Dependence of Itinerant Electron Junction Magnetoresistance", MacDonald, A. H.; Jungwirth, T.; Phys. Rev. Lett **81** (1998).

244 "Inter-layer Edge Tunneling and Transport Properties in Double-Layer Quantum Hall Systems", Yoshioka, D.; MacDonald, A. H., World Scientific, Singapore (1997).

243 "Plasmon modes and correlation functions in quantum wires and Hall bars", Zylicke, U; MacDonald, A. H., Phys. Rev. B **54** (1997).

242 "Properties of the soliton-lattice state in double-layer quantum Hall systems", Hanna, C. B.; MacDonald, Allan H.; Girvin, S. M., Physica B **249** (1998).

241 "Quantum field theory in condensed matter physics, by Alexi M. Tsvelik", MacDonald, Allan H., Physics Today **50** (1997).

240 "Electron-hole Chains in Unbalanced Double-Layers", Akera, H.; MacDonald, A. H.; Yoshioka, D., World Scientific, Singapore (1997).

239 "Frictional Drag Between Quantum Wells Mediated by Phonon Exchange", Bønsager, M. C.; Flensberg, K.; Hu, Ben Yu-Kuang; MacDonald, A. H., Phys. Rev. B **57** (1998).

238 "Mode mixing in antiferromagnetically coupled double quantum wells", Radtke, R. J.; Sarma, S. Das; MacDonald, Allan H., Phys. Rev. B **57**, 2342 (1998).

237 "Toward realistic effective models of quantum-Hall edges", Zuelicke, U.; MacDonald, Allan H., Physica E **1**, 105 (1997).

236 "Virial expansions, exclusion statistics, and the fractional quantum Hall effect", Tevosyan, Kahren; MacDonald, Allan H., Phys. Rev. B **56**, 7517 (1997).

235 "Quantum Hall Effect of Interacting Electrons in a periodic potential", Pfannkuche, Daniela; MacDonald, Allan H., Phys. Rev. B **56**, R7100 (1997).

234 "Critical comparison of classical field theory and microscopic wavefunctions for skyrmions in quantum Hall ferromagnets", Hu, Jun; MacDonald, Allan H., Phys. Rev. B **56**, 6795 (1997).

233 "Universal phase diagram for vortex states in layered superconductors in strong magnetic fields", Hu, Jun; MacDonald, Allan H., Phys. Rev. B **56**, 2788 (1997).

232 "Collective Excitations, NMR, and Phase Transitions in Skyrme Crystals", Côté, R.; MacDonald, Allan H.; Brey, L.; Fertig, H. A.; Girvin, S. M.; Stoof, H. T. C., Phys. Rev. B **78,** 4825 (1997).

231 "Transverse pseudospin susceptibility and tunneling parameters of double-layer electron-gas systems", Sierkowski, L.; MacDonald, Allan H., Phys. Rev. B **55**, R16017 (1997).

230 "Hartree-Fock Theory of Skyrmions in Quantum Hall Ferromagnets", Fertig, H. A.; Brey, Luis; Côté, R.; MacDonald, Allan H.; Karlhede, A.; Sondhi, S. L.; Phys. Rev. B **55**, 10671 (1997).

229 "Edge-magnetoplasmon wave-packet revivals in the quantum Hall effect", Zuelicke, U.; Bluhm, Robert; Kostelecký, V. Alan; MacDonald, Allan H., Phys. Rev. B **55**, 9800 (1997).

228 "No end of tricks: electrons in the fractional quantum Hall regime", MacDonald, Allan H., Solid State Comm. **102**, 143 (1997).

227 "Multicomponent Quantum Hall Systems: The Sum of Their Parts and More", Girvin, S. M.; MacDonald, Allan H., in Perspectives in Quantum Hall Effects edited by Sankar Das Sarma and Aron Pinczuk (Wiley, New York, 1997).

226 "Charged pseudospin textures in double-layer quantum Hall systems", Brey, L.; Fertig, H. A.; Côté, R.; MacDonald, Allan H., Phys. Rev. B **54**, 16888 (1996).

225 "Spontaneous interlayer coherence in double-layer quantum Hall systems: Symmetry breaking interactions, in-plane fields, and phase solitons", Yang, Kun; Moon, K.; Belkhir, Lorfi; Mori, H.; Girvin, S. M.; MacDonald, Allan H., Zheng, L.; Yoshioka, D., Phys. Rev. B **54**, 11644 (1996).

224 "Integer Quantum Hall Effect in Double-Layer Systems", Sorensen, Erik S.; MacDonald, Allan H., Phys. Rev. B **54,** 10675 (1996).

223 "Long-lived charged multiple-exciton complexes in strong magnetic fields", Palacios, J. J.; Yoshioka, D.; MacDonald, Allan H., Phys. Rev. B **54**, R2296 (1996).

222 "Incompressibilis Ergo Sum: Skyrmions and Edge States in the Quantum Hall Effect", MacDonald, Allan H., Quantum Transport in Semiconductor Submicron Structures edited by Bernhard Kramer (Kluwer, Dordrecht, 1996).

221 "Skyrme and Meron Crystals in Quantum Hall Ferromagnets", Brey, L.; Fertig, H. A.; Côté, R.; MacDonald, Allan H., Physica Scripta T **66**, 154 (1996).

220 "Tunneling between Parallel 2-Dimensional Electron Liquids", Jungwirth, T.; MacDonald, Allan H., Surface Science **362**, 167 (1996).

219 "Momentum Distribution of a Narrow Hall Bar in the FQHE Regime", Yang, S. R. Eric; Mitra, S.; MacDonald, Allan H.; Fisher, M. P. A., J. Korean Phys. Soc. **29**, 510 (1996).

218 "Spontaneous coherence and collective modes in double-layer quantum-dot systems", Hu, Jun; Dagatto, E.; MacDonald, Allan H., Phys. Rev. B **54**, 8616 (1996).

217 "The 2D Electron Gas near ν=1as a Skyrme crystal", Brey, L.; Fertig, H. A.; Côté, R.; MacDonald, Allan H., Surface Science **361/2**, 274 (1996).

216 "Electronic spectral functions for quantum Hall edge states", Zuelicke, U.; MacDonald, Allan H., Phys. Rev. B **54**, R8349 (1996).

215 "Absence of persistent magnetic oscillations in type-II superconductors", Norman, M. R.; MacDonald, Allan H., Phys. Rev. B **54**, 4239 (1996).

214 "Internal Excitations and Dissipative Damping of Quantum Hall Skyrmions", Fertig, H. A.; Brey, L.; Côté, R.; MacDonald, Allan H., Phys. Rev. Lett. **77**, 1572 (1996).

213 "Spontaneous coherence and the quantum Hall effect in triple-layer electron systems", Hanna, C. B.; MacDonald, Allan H., Phys. Rev. B **53**, 15981 (1996).

212 "Edge-state transport in separately contacted double-layer quantum Hall systems", Yoshioka, D.; MacDonald, Allan H., Phys. Rev. B **53**, R16168 (1996).

211 "Spin-ordering and magnon collective modes for two-dimensional electron lattices in strong magnetic fields", Côté, R.; MacDonald, Allan H., Phys. Rev. B **53**, 10019 (1996).

210 "Correlations, compressibility and capacitance in double-quantum well systems in the quantum Hall regime", Jungwirth, T.; MacDonald, Allan H., Phys. Rev. B **53**, 9943 (1996).

209 "Thermodynamics of Quantum Hall Ferromagnets", Kasner, Marcus; MacDonald, Allan H., Phys. Rev. Lett. **76**, 3204 (1996).

208 "Compressible Strips, Chiral Luttinger Liquids, and All That Jazz", MacDonald, Allan H., Brazilian Journal of Physics **26**, 43 (1996).

207 "Drag in Paired Electron-Hole Layers", Vignale, Giovanni; MacDonald, Allan H., Phys. Rev. Lett. **76**, 2786 (1996).

206 "Electron-electron interactions and two-dimensional-two-dimensional tunneling", Jungwirth, T.; MacDonald, Allan H., Phys. Rev. B **53**, 7403 (1996).

205 "Large-U cluster-Hamiltonian expansion of the Hubbard model", Antoniou, Dimitri; MacDonald, Allan H., Phys. Rev. B **53**, 6855 (1996).

204 "Skyrmions without Sigma Models in Quantum Hall Ferromagnets", MacDonald, Allan H.; Fertig, H. A.; Brey, Luis, Phys. Rev. Lett. **76**, 2153 (1996).

203 "Interlayer Coherence in Double-Layer Quantum Dots", Hu, J.; Dagatto, E.; MacDonald, Allan H., Physical Phenomena at High Magnetic Fields II edited by Z. Fisk, L.P. Gor'kov, D. Meltzer, and J.R. Schrieffer (World Scientific, Singapore, 1996).

202 "Correlation Energy and the Tunneling Density of States in the Fractional Quantum Hall Regime", Haussmann, Rudolf; Mori, Hiroyuki; MacDonald, Allan H., Phys. Rev. Lett. **76**, 979 (1996).

201 “Introduction to the Physics of the Quantum Hall Regime”, MacDonald, Allan H., Proceedings of the Les Houches Summer School on Mesoscopic Physics edited by E. Akkermans, G. Montambeaux, and J.L. Pichard (Elsevier, Amsterdam, 1995).

200 "Numerical Tests of the Chiral Luttinger Liquid Theory for Fractional Hall Edges”, Palacios, J. J.; MacDonald, Allan H., Phys. Rev. Lett. **76**, 118 (1996).

199 "Higher Landau levels and electron correlations", Akera, H.; MacDonald, Allan H.; Yoshioka, D., Physica B **212**, 273 (1995).

198 "Itinerant Electron Magnetism in the quantum Hall regime", Kasner, Marcus; MacDonald, Allan H., Physica B **212**, 289 (1995).

197 "Skyrme Crystal in a Two-Dimensional Electron Gas", Brey, L.; Fertig, H. A.; Côté, R.; MacDonald, Allan H., Phys. Rev. Lett. **75**, 2562 (1995).

196 "Coulomb Drag as a Probe of Coupled Plasmon Modes in Parallel Quantum Wells", Gramila, T. J.; Eisenstein, J. P.; MacDonald, Allan H.; Pfeiffer, L. N.; West, K. W., Physica B **197**, 442 (1994).

195 "Mixed-state quasiparticle spectrum for d-wave superconductors", Wang, Yong; MacDonald, Allan H., Phys. Rev. B **52**, R3876 (1995).

194 "Participation-ratio entropy and critical fluctuations in the thermodynamics of pancake vortices", Hu, Jun; MacDonald, Allan H., Phys. Rev. B **52**, 1286 (1995).

193 "Collective modes of soliton-lattice states in double-quantum-well systems", Côté, R.; Brey, L.; Fertig, H.; MacDonald, Allan H., Phys. Rev. B **51**, 13475 (1995).

192 "Charged pseudospin textures in double-layer quantum Hall systems with spontaneous interlayer coherence", Yang, Kun; MacDonald, Allan H., Phys. Rev. B **51**, 17247 (1995).

191 "Interactions, Localization, and the Integer Quantum Hall Effect", Yang, S. R. Eric; MacDonald, Allan H.; Huckestein, Bodo, Phy. Rev. Lett. **74**, 3229 (1995).

190 "On the Thermodynamics of Laughlin Liquid Freezing", Chan, Anthony; MacDonald, Allan H., Physics of Quantum Solids of Electrons (International Press, Hong Kong 1995).

189 "Magnetic Oscillations and Quasiparticle Bandstructure in the Mixed State of Type-II Superconductors", Norman, M. R.; MacDonald, Allan H.; Akera, Hiroshi, Phys. Rev. B **51**, 5927 (1995).

188 "Spontaneous Interlayer Coherence in Double-Layer Quantum Hall Systems: Charged Vortices and Kosterlitz-Thouless Phase Transitions", Moon, K.; Mori, H.; Yang, Kun; Girvin, S. M.; MacDonald, Allan H.; Zheng, L.; Yoshioka, D; Zhang, Shou-Cheng; Phys. Rev. B **51**, 5138 (1995).

187 "Fractional charges in an Interacting Electron System", MacDonald, Allan H., Science **267**, 977 (1995).

186 "Edge-state properties and bulk eigenenergy spectra of periodically modulated two-dimensional electron systems in a magnetic field", Streda, P.; Kucera, J.; D. Pfannkuche, R.R. Gerhardts; MacDonald, Allan H., Phys. Rev. B **50**, 11955 (1994).

185 "Charged spin-texture excitations and the Hartree-Fock approximation in the quantum Hall effect", Fertig, H. A.; Brey, L.; Côté, R.; MacDonald, Allan H., Phys. Rev. B **50**, 11018 (1994).

184 "Correlations in Two-Dimensional Vortex Liquids", Hu, Jun; MacDonald, Allan H., Phys. Rev. B **49**, 15263 (1994).

183 "One and One-Half: Frontiers in FQHE theory" MacDonald, A. H., Physica B **201**, 321 (1994).

182 "Bound Electron Pairs in Two Dimensions at Quantizing Magnetic Fields", Akera, Hiroshi; MacDonald, Allan H.; Yoshioka, Daijiro, Physica B **201**, 255 (1994).

181 "Collective Excitations in Double-Layer Quantum Hall Systems", MacDonald, Allan H.; Zhang, Shou-Cheng, Phys. Rev. B **49**, 17208 (1994).

180 “Microscopic Theory of the Fractional Quantum Hall Effect”, MacDonald, Allan H., Modern Perspectives in Many-Body Theory: Proceedings of the 6th Australian National University Physics Summer School edited by M. P. Das and J. Mahanty (World Scientific, Singapore, 1994).

179 "High temperature perturbation study of two-dimensional interacting electrons in a partly-filled Landau level", Zheng, Lian; Macdonald, Allan H., Surf. Sci **305**, (1994).

178 "Correlation in double-layer two-dimensional electron-gas systems: Singwi-Tosi-Land-Sjolander theory at B=0", Zheng, Lian; Macdonald, Allan H., Phys. Rev. B **49**, 5522 (1994).

177 "Quantum Ferromagnetism and Phase Transitions in Double-Layer Quantum Hall Systems", Yang, Kun; Moon, K.; Zheng, L.; MacDonald, Allan H.; Girvin, S. M.; Yoshioka, D.; Zhang, Shou-Cheng, Phys. Rev. Lett. **72**, 732 (1994).

176 "Addition Spectra of Quantum Dots in Strong Magnetic Fields", Yang, S. R. Eric; MacDonald, Allan H.; Johnson, M. D., Phys. Rev. Lett. **71**, 3194 (1993).

175 "Disorder broadening of the Hofstader spectrum", Wulf, Ulrich; Macdonald, Allan H., Phys. Rev. B **47**, 6566 (1993).

174 "Evidence for virtual-phonon exchange in semiconductor heterostructures", Gramila, T. J.; Eisenstein, J. P.; MacDonald, Allan H.; Pfeiffer, L. N.; West, K. W., Phys. Rev. B **47**, 12957 (1993).

173 "Coulomb drag between disordered two-dimensional electron-gas layers", Zheng, Lian; Macdonald, Allan H., Phys. Rev. B **48**, 8203 (1993).

172 "Comparison of magnetotransport in two-dimensional arrays of quantum dots and antidots", Huang, Danhong; Gumbs, Godfrey; Macdonald, Allan H., Phys. Rev. B **48**, 2843 (1993).

171 "Two-dimensional Vortex Lattice Melting", Hu, Jun; Macdonald, Allan H., Phys. Rev. Lett. **71**, 432 (1993).

170 Angular-momentum-state occupation-number distribution function of the Laughlin droplet, Mitra, Sami; Macdonald, Allan H., Phys. Rev. B **48**, 2005 (1993).

169 "2D-Liquids and Solids in Strong Magnetic Fields", MacDonald, Allan H., (Springer-Verlag, Berlin) **189** (1993).

168 "Coulomb Gaps in a Strong Magnetic Field", Yang, S. R. Eric; Macdonald, Allan H., Phys. Rev. Lett. **70**, 4110 (1993).

167 "Microscopic Theory of the Fractional Quantum Hall Effect", MacDonald, Allan H., Strongly Correlated Electron Systems (Nova, New York 1993).

166 "Quantum Dots in Strong Magnetic Fields: Stability Criteria for the Maximum Density Droplet", MacDonald, Allan H.; Yang, S. R. Eric; Johnson, M. D., Australian Journal of Physics **46**, 345 (1993).

165 "Quantum Mechanics and Superconductivity in a Magnetic Field", MacDonald, Allan H.; Akera, Hiroshi; Norman, M. R., Australian Journal of Physics **46**, 333 (1993).

164 "Magnetic Oscillations in a Fractional Hall Dot", MacDonald, Allan H.; Johnson, M. D., Phys. Rev. Lett. **70**, 3107 (1993).

163 "Tunneling conductance between parallel two-dimensional electron systems", Zheng, Lian; Macdonald, Allan H., Phys. Rev. B **47**, 10619 (1993).

162 "Giant oscillations in the Hall conductivity of weakly coupled quantum wires", Wulf, Ulrich; Kucera, Honza; Macdonald, Allan H., Phys. Rev. B **47**, 1675 (1993).

161 "Magnetoplasmons and cyclotron resonance in disordered two-dimensional electronic systems", Antoniou, Dimitri; Macdonald, Allan H., Phys. Rev. B **46**, 15225 (1992).

160 "Edge reconstruction and edge melting of the two-dimensional Wigner crystal in a strong magnetic field", Fertig, H.; Côté, R.; MacDonald, Allan H.; Sarma, S. Das, Phys. Rev. Lett. **69**, 816 (1992).

159 "Electronic structure of parallel two-dimensional electron systems in tilted magnetic fields", Hu, J.; Macdonald, Allan H., Phys. Rev. B **46**, 12554 (1992).

158 "Infrared absorption by laterally modulated two-dimensional electron systems", Schaich, W. L.; Park, P, W.; Macdonald, Allan H., Phys. Rev. B **46**, 12643 (1992).

157 "Density response in laterally modulated two-dimensional electron systems", Park, P, W.; MacDonald, Allan H.; Schaich, W. L., Phys. Rev. B **46**, 12635 (1992).

156 "Broken-symmetry ground states for the two-dimensional electron gas in a double-quantum-well system", Côté, R.; Brey, L.; Macdonald, Allan H., Phys. Rev. B **46**, 10239 (1992).

154 "Two-Dimensional D- Centers in the Strong Magnetic Field Limit", MacDonald, Allan H., Solid State Comm. **84**, 109 (1992).

153 "Magnetorotons in Wide Parabolic Quantum Wells", Karrai, K.; Ying, X.; Drew, H. D.; Santos, M.; Shayegan, M.; Yang, S. R. E.; Macdonald, Allan H., Surface Science **263**, 451 (1992).

152 "Electron-electron scattering between parallel 2-Dimensional Electron Gases", Gramila, T. J.; Eisenstein, J. P.; MacDonald, Allan H., Pfeiffer, L. N.; West, K. W., Surface Science **263**, 446 (1992).

151 Facts and Fantasies in FQHE Theory, MacDonald, Allan H., Helvetica Physica Acta **65**, 133 (1992).

150 "Landau Level Quantization and Superconductivity", Akera, H.; MacDonald, Allan H.; Norman, M. R., Physica B **184**, 337 (1992).

149 "Quasiparticle effective mass and enhanced g-factor for a two-dimensional electron gas at intermediate magnetic fields", Smith, A. P.; MacDonald, Allan H.; Gumbs, G., Phys. Rev. B **45**, 8829 (1992).

148 "Photoluminescence in the fractional quantum Hall regime", MacDonald, Allan H.; Rezayi, E. H.; Keller, David, Phys. Rev. Lett. **68**, 1939 (1992).

147 "Fractional quantum Hall theory survives experimental tests", MacDonald, Allan H., Physics World **5**, 28 (1992).

146 "Mean-field superconductivity in a strong magnetic field", Norman, M. R.; Akera, H.; Macdonald, Allan H., Physica C **196**, 43 (1992).

145 "Landau quantization and particle-particle ladder sums in a magnetic field", MacDonald, Allan H.; Akera, H.; Norman, M. R., Phys. Rev. B **45**, 10147 (1992).

144 "Frequency-dependent conductivity of a pinned Wigner crystal", Côté, R.; Macdonald, Allan H., Surface Science **263**, 187 (1991).

143 "Edge states and quasiparticles in the fractional quantum Hall effect", Johnson, M. D.; Macdonald, Allan H., Physical Phenomena at High Magnetic Fields (Addison-Wesley, New York) **102** (1991).

142 "Magnetorotons in Quasi-Three-Dimensional Electron Systems", Karrai, K.; Ying, X.; Drew, H. D.; Santos, M.; Shayegan, M.; Yang, S. R. E.; Macdonald, Allan H., Phys. Rev. Lett. **67**, 3428 (1991).

141 "Composite Edges in the ν =2/3 Fractional Quantum Hall Effect", Johnson, M. D.; Macdonald, Allan H., Phys. Rev. Lett. **67**, 2060 (1991).

140 "Vortex-Lattice States at Strong Magnetic Fields", Akera, H.; MacDonald, Allan H., Girvin, S. M.; Norman, M. R., Phys. Rev. Lett. **67**, 2375 (1991).

139 "Landau Quantization and Superconductivity at Strong Magnetic Fields", Norman, M. R.; Akera, H.; Macdonald, Allan H., Physical Phenomena at High Magnetic Fields (Addison-Wesley, New York 1991).

138 "Origin of the ν = 2/5 fractional quantum Hall effect", Rezayi, E. H.; Macdonald, Allan H., Phys. Rev. B **44**, 8395 (1991).

137 "Collective modes of the two-dimensional Wigner crystal in a strong magnetic field", Côté, René; Macdonald, Allan H., Phys. Rev. B **44**, 8759 (1991).

136 "Filling Factor Dependence of Impurity Levels of Two-Dimensional Magnetoplasmons", Yang, S. R. E.; Macdonald, Allan H., Proceedings of the 20th International Conference on the Physics of Semiconductors (World Scientific, Tessaloniki 1991).

135 "The Quantum Hall Effects", MacDonald, Allan H., Quantum Coherence in Mesoscopic Systems, (Plenum, New York 1991).

134 "Nuclear-spin relaxation and spin-wave collective modes in a disordered two-dimensional electron gas", Antoniou, Dimitri; Macdonald, Allan H., Phys. Rev. B **43**, 11686 (1991).

133 "Mutual Friction between Parallel Two-Dimensional Electron Systems", Gramila, T. J.; Eisenstein, J. P.; MacDonald, Allan H., Pfeiffer, L. N.; West, K. W., Phys. Rev. Lett. **66**, 1216 (1991).

132 "Disorder-assisted tunneling through a double-barrier resonant-tunneling structure", Leo, James; Macdonald, Allan H., Phys. Rev. B **43**, 9763 (1991).

131 "New Evidence for the Wigner Crystal", MacDonald, Allan H.; Girvin, S. M., Physics World **3**, 17 (1990).

130 "Self-consistent Landau-level Broadening by acoustic phonons in two-dimensional electron systems", Tanatar, B.; Singh, M.; Macdonald, Allan H., Phys. Rev. B **43**, 4308 (1991).

129 Double Quantum Well Electron-Hole Systems in Strong Magnetic Fields, Yoshioka, Daijiro; Macdonald, Allan H., J. Phys. Soc. Jpn. **59**, 4211 (1990).

128 "Phonons as Collective Modes: The Case of a Two-Dimensional Wigner Crystal in a Strong Magnetic Field", Côté, René; Macdonald, Allan H., Phys. Rev. Lett. **65**, 2662 (1990).

127 "Phase transitions in a multiple quantum well in strong magnetic fields", Qiu, Xiu; Joynt, Robert; Macdonald, Allan H., Phys. Rev. B **42,** 1339 (1990).

126 "Fractional Quantum Hall effect in a two-dimensional electron-hole fluid", MacDonald, Allan H. and Rezayi, E. H.; Phys. Rev. B **42**, 3224 (1990).

125 "Impurity-level transitions in two-dimensional magnetoplasmas", Yang, S. R. Eric; Macdonald, Allan H., Phys. Rev. B **42**, 10811 (1990).

124 "Conjecture concerning the fractional Hall hierarchy", C. Gros Macdonald, Allan H., Phys. Rev. B **42**, 9514 (1990).

123 "Edge magnetoplasmons in the fractional-quantum-Hall-effect regime", M. Wassermeier, J. Oshinowo, J.P. Kotthaus, MacDonald, Allan H., C.T. Foxon, and J.J. Harris, Phys. Rev. B **41**, 10287 (1990).

122 "Exactly Soluble Model of Fractional Statistics", Girvin, S. M.; MacDonald, A. H.; MP Fisher, SJ Rey, JP Sethna, Phys. Rev. Lett. **65**, 1671 (1990).

121 "Stress and the van Hove Singularities of Hole Magnetoplasmons", Yang, S. R. Eric; Macdonald, Allan H., Surface Science **229**, 402 (1990).

120 "Collapse of Integer Hall Gaps in a Double-Quantum-Well System", T.A. Gant, Lockwood, D. J.; J.M. Baribeau Macdonald, Allan H., Phys. Rev. Lett. **65**, 775 (1990).

119 "Raman Scattering Studies of Phonons in Quasiperiodic Superlattices based on generalizations of the fibonacci sequesntce", T.A. Gant, Lockwood, D. J.; J.M. Baribeau Macdonald, Allan H., Surface Science **228**, 135 (1990).

118 "Theory of two-dimensional grating couplers", Zheng, Lian; Schaich, W. L.; Macdonald, Allan H., Phys. Rev. B **41**, 8493 (1990).

117 "Magnetic breakdown and magnetoresistance oscillations in a periodically modulated two-dimensional electron gas", Pavel Streda Macdonald, Allan H., Phys. Rev. B **41**, 11892 (1990).

116 "The fractional quantum Hall effect in multi-component systems", MacDonald, Allan H., Surface Science **229**, 1 (1990).

115 "Errata: Disorder assisted tunneling through a double-barrier structure", Leo, James; Macdonald, Allan H., Phys. Rev. Lett. **64**, 817 (1990).

114 "Reply to Comment on t/U expansion of the Hubbard model", MacDonald, Allan H., Girvin, S. M.; and Yoshioka, D; Phys. Rev. B **41**, 2565 (1990).

113 "Hole magnetoplasmons in semiconductor heterostructures", Yang, S. R. E.; Macdonald, Allan H., Phys. Rev. B **41**, 1294 (1990).

112 "Fractional quantum Hall Effect in hole Landau levels", Yang, S. R. E.; Macdonald, Allan H., and Yoshioka, D; Phys. Rev. B **41**, 1290 (1990).

111 "Edge Magnetoplasmons in the Fractional Quantum-Hall Regime", M. Wassermeier, J. Oshinowo, J. P. Kotthaus, MacDonald, A. H., C. T. Foxon, and J. J. Harris, Phys. Rev. B **41** (1990).

110 "Edge States in the Fractional-quantum-Hall-effect Regime", MacDonald, Allan H., Phys. Rev. Lett. **64**, 220 (1990).

109 "Phases of a multiple quantum well in a magnetic field", Qiu, Xiu; Joynt, Robert; Macdonald, Allan H., Phys. Rev. B **40**, 11943 (1989).

108 "Cyclotron Resonance in Two Dimensions: Electron-electron Interactions and Band Nonparabolicity", MacDonald, Allan H.; C. Kallin, Phys. Rev. B **40**, 5795 (1989).

107 "Transmission Probabilities and the Quantum Hall Effect", Streda, P.; Kucera, J.; Macdonald, Allan H., Phys. Rev. Lett. **62**, 230 (1989).

106 "The Fractional Quantum Hall Effect in Holes", MacDonald, Allan H.; Ekenberg, U., Phys. Rev. B **39**, 5959 (1989).

105 "Quantized Multi-channel Magnetotransport through a Barrier in Two Dimensions", Haug, R. J.; MacDonald, Allan H.; Streda, P.; Klitzing, K. Von; Phys. Rev. Lett. **61**, 2797 (1989).

104 "Comparison of models for the even-denominator fractional quantum Hall effect", MacDonald, Allan H.; Yoshioka, D.; Girvin, S. M., Phys. Rev. B **39**, 8044 (1989).

103 "Fractional Quantum Hall Effect in Two-layered Systems", Yoshioka, D.; MacDonald, Allan H.; Girvin, S. M., Phys. Rev. B **39**, 1932 (1989).

102 "Connection Between Spin-Singlet and Hierarchical Wave functions in the Fractional Quantum Hall Effect", Yoshioka, D.; MacDonald, Allan H.; Girvin, S. M., Phys. Rev. B **38**, 3636 (1988).

101 "Density matrices in the lowest Landau level of a two-dimensional electron gas", MacDonald, Allan H.; Girvin, S. M., Phys. Rev. B **38**, 6295 (1988).

100 "On the t/U expansion for the Hubbard model", MacDonald, Allan H.; Girvin, S. M.; Yoshioka, D.; Phys. Rev. B **37**, 9753 (1988).

99 "Hartree-Fock Theory for a Superlattice in a Strong Magnetic Field", MacDonald, Allan H.; Oji, H. C. A.; Bryant, Garnett W., Phys. Rev. B **38**, 8249 (1988).

98 "Staging Transitions in a Multiple Quantum Well System", MacDonald, Allan H., Phys. Rev. B **37**, 4792 (1988).

97 "Fibonacci Superlattices", MacDonald, Allan H., NATO ASI on Interfaces, Quantum Wells and Superlattices (Plenum, New York) **347** (1988).

96 "Theory of the Fractional Quantum Hall Effect", MacDonald, Allan H., Proceedings of the 5th International Conference on Recent Progress in Many-Body Theories (Plenum, New York) **83** (1988).

95 "Continuum Model Acoustic and Electronic Properties for a Fibonacci Superlattice", Streda, P.; Kucera, J.; Macdonald, Allan H., Phys. Rev. B **36**, 9142 (1987).

94 "Edge States, Transmission Matrices and the Hall Resistance", Streda, P.; Kucera, J.; MacDonald, A. H.; Phys. Rev. Lett. **59**, 1973 (1987).

93 "Raman Scattering in a GaAs/Ga1-xAlxAs Fibonacci Superlattice", Lockwood, D. J.; MacDonald, Allan H.; Aers, G. C.; Dharma-Wardana, M. W. C.Devine, R. L. S.; Moore, W. T., Phys. Rev. B **36**, 9286 (1987).

92 "Raman Scattering in Fibonacci Superlattices", Dharma-Wardana, M. W.; MacDonald, A. H.; Lockwood, D. J.; Baribeau, J.; Houghton, A. D., Phys. Rev. Lett. **58**, 1761 (1987).

91 "Off-Diagonal Long-Range Order, Oblique Confinement and the Fractional Quantum Hall Effect", Girvin, S. M.; MacDonald, A. H., Phys. Rev. Lett. **58**, 1252 (1987).

90 "Superlattice Magnetoroton Bands", Oji, H. C.; MacDonald, A. H.; Grivin, S. M.; Phys. Rev. Lett. **58**, 824 (1987).

89 "Strong Magnetic-Field States of the Pure Electron Plasma", MacDonald, Allan H.; Bryant, Garnett W., Phys. Rev. Lett. **58**, 515 (1987).

88 "Dynamical Conductivity of the GaAs Two-Dimensional Electron Gas at Low Temperature and Carrier Density", Schlesinger, Z.; Wang, Wi; MacDonald, A. H.; Phys. Rev. Lett. **58**, 73 (1987).

87 "Electronic Structure of Single Ultrasmall Electron Devices and Device Arrays", Bryant, Garnett W.; Murray, D. B.; Macdonald, Allan H., Superlattices and Microstructures **3**, 211 (1987).

86 "Charge-Density-Wave States in Multiple-Quantum-Well Systems", MacDonald, Allan H., Superlattices and Microstructures **3**, 257 (1987).

85 "Density-Wave Instabilities and Thermo-electric Parameters in the Alkali Metals", Taylor, R.; MacDonald, A. H., Phys. Rev. Lett. **57**, 1639 (1986).

84 "Quasiparticle States in the Fractional Quantum Hall Effect", MacDonald, Allan H.; Girvin, S. M., Phys. Rev. B **34**, 5639 (1986).

83 "Collective Excitations in the Fractional Quantum Hall Effect of a Multicomponent fermoin System", Rasolt, M.; MacDonald, A. H., Phys. Rev. B **34**, 5530 (1986).

82 "Thermodynamic Properties of an Interacting Two-Dimensional Electron Gas in a Strong Magnetic Field", MacDonald, A. H.; Oji, H. C.; Liu, K. L., Phys. Rev. B 34, 2681 (1986).

81 "Size Dependence in Small System Calculations for Fractional Quantum Hall States", MacDonald, A. H.; Aers, G. C., Phys. Rev. B **34**, 2906 (1986).

80 "Magnetoplasmon-Phonon Coupling in a Two-Dimensional Electron Gas", Oji, H. C.; MacDonald, A. H., Phys. Rev. B **34**, 1371 (1986).

79 "Magnetoplasma Modes of the Two-Dimensional Electron Gas at Nonintegral Filling Factors", Oji, H. C.; MacDonald, A. H., Phys. Rev. B **33**, 3810 (1986).

78 "Magnetoroton Theory of Collective Excitations in the Fractional Quantum Hall Effect", Girvin, S. M.; MacDonald, Allan H.; Platzman, P. M., Phys. Rev. B **33**, 2481 (1986).

77 "Fractional Quantum Hall Effect: Superfluidity, Magneto-Rotons and Fractionally Charged Vortices", Girvin, S. M.; MacDonald, Allan H.; Platzman, P. M., J. Magnetism and Magnetic Materials **54**, 1425 (1986).

76 "Hydrogenic Energy Levels in Two Dimensions at Arbitrary Magnetic Fields", MacDonald, Allan H.; Ritchie, D. S., Phys. Rev. B **33**, 8336 (1986).

75 "Fermi Surfaces", MacDonald, Allan H.; Taylor, R., Encyclopedia of Materials Science and Engineering (Pergamon Press, New York City) **1682** (1986).

74 "Disorder and the Fractional Quantum Hall Effect: Activation Energies and the Collapse of the Gap", MacDonald, A. H.; Liu, K. L.; Girvin, S. M.; Platzman, P. M., Phys. Rev. B **33**, 4014 (1986).

73 "Collective Excitations of Fractional Hall States and Wigner Crystallization in Higher Landau Levels", MacDonald, A. H.; Girvin, S. M., Phys. Rev. B **33**, 4009 (1986).

72 "New Gapless Modes in the Fractional Quantum Hall Effect of Multicomponent Systems", Rasolt, M.; Perrot, F.; MacDonald, A. H., Phys. Rev. Lett. **55**, 433 (1985).

71 "Collective Excitations in the Fractional Quantum Hall Effect", Girvin, S. M.; MacDonald, A. H.; Platzman, P. M., Phys. Rev. Lett. **54**, 581 (1985).

70 Heterocontact Effects in Point-contact Electron-Phonon Spectroscopy of the Alkali Metals, Baranger, H. U.; MacDonald, A. H.; Leavens, C. R., Phys. Rev. B **31**, 6197 (1985).

69 "Droplet Wave Functions for the Fractional Quantum Hall Effect", MacDonald, A. H.; Murray, D. B., Phys. Rev. B **32**, 2707 (1985).

68 "Broken Symmetry States for Two-Dimensional Electrons in a Strong Magnetic Field", MacDonald, Allan H.; Murray, D. B., Phys. Rev. B **32**, 2291 (1985).

67 "Hierarchy of Plasmas for Fractional Quantum Hall States", MacDonald, A. H.; Aers, G. C.; Dharma-Wardana, M. W., Phys. Rev. B **31**, 5529 (1985).

66 "Magnetoplasmon Excitations from Partially Filled Landau Levels in Two Dimensions", MacDonald, A. H.; Oji, H. C.; Girvin, S. M., Phys. Rev. Lett. **55**, 2208 (1985).

65 "Hartree-Fock Approximation for the Response Functions and Collective Excitations in a Two-Dimensional Electron Gas with Filled Landau Levels", MacDonald, Allan H., J. Phys. C: Solid State Physics **18**, 1003 (1985).

64 Platzman, P. M.; Girvin, S. M.; Macdonald, Allan H., "Conductivity in the Fractionally Quantized Hall Effect" Phys. Rev. B **32**, 8458 (1985).

63 "Crystallization of the Incompressible Quantum-Fluid State of a Two-Dimensional Electron Gas in a Strong Magnetic Field", Levesque, D.; Weis, J. J.; Macdonald, A. H., Phys. Rev. B **30**, 1056 (1984).

62 "Enclosed Flux Dependence of the Eigenvalue Spectrum: Localization and Quantized Hall Conductivity in a Two-Dimensional Electron Gas", Aers, G. C.; Macdonald, A. H., J. Phys. C: Solid State Physics **17**, 5491 (1984).

61 "Quantized Hall Effect and Edge Currents", MacDonald, A. H.; Streda, P., Phys. Rev. B **29**, 1616 (1984).

60 Pair-Potentials and the Bonding Energy of d-Band Metals, MacDonald, A. H. H.; Taylor, R., Can. J. Phys. **62**, 796 (1984).

59 "Influence of Elastic Scattering on the Current-Voltage Characteristics of Small Metallic Contacts: II. Point-Contact Spectroscopy", MacDonald, A. H.; Leavens, C. R., J. Phys. F: Metal Physics **14**, 963 (1984).

58 "Influence of Contact Shape on the Strength of the Electron-Phonon Interaction as Determined by Point Contact Spectroscopy", MacDonald, A. H.; Leavens, C. R., Solid State Comm. **50**, 467 (1984).

57 "Inversion Layer Width, Electron-Electron Interactions, and the Fractional Quantum Hall Effect", MacDonald, A. H.; Aers, G. C., Phys. Rev. B **29**, 5976 (1984).

56 "Quantized Hall Effect in a Hexagonal Periodic Potential", MacDonald, Allan H., Phys. Rev. B **29**, 3057 (1984).

55 "Local Density Approximations for Relativistic Exchange Energies", MacDonald, Allan H., Local Density Approximations in Quantum Chemistry and Solid State Physics, (Plenum Press, New York City) **617** (1984).

54 "Laughlin States in Higher Landau Levels", MacDonald, Allan H., Phys. Rev. B **30**, 3550 (1984).

53 "Influence of Landau-Level Mixing on the Charge-Density-Wave State of A Two-Dimensional Electron Gas in a Strong Magnetic Field", MacDonald, Allan H., Phys. Rev. B **30**, 4392 (1984).

52 "Edge States and Quantized Hall Conductivity in a Periodic Potential", MacDonald, Allan H., Phys. Rev. B **29**, 6563 (1984).

51 "Determination of the Electron-Paramagnon Coupling Parameter of a Transition Metal from Superconducting Tunneling Experiments", Leavens, C. R.; Macdonald, Allan H., Phys. Rev. B **27**, 2812 (1983).

50 "Relativistic Effects in Metals", Koelling, D. D.; Macdonald, Allan H., NATO ASI B, Physics **87**, 227 (1983).

49 "Fermi Surface Pressure Dependence in Potassium", Coleridge, P. T.; Macdonald, Allan H., Can. J. Phys. **61**, 411 (1983).

48 "Hall Voltage and Current Distributions in an Ideal Two-Dimensional System", MacDonald, Allan H., Rice, T. M.; and Brinkman, W. F., Phys. Rev. B **28**, 3648 (1983).

47 "Influence of Elastic Scattering on the Current-Voltage Characteristics of Small Metallic Contacts: I. The Ohmic Current", MacDonald, Allan H.; Leavens, C. R., J. Phys. F: Metal Physics **13**, 665 (1983).

46 "Study of the Driven-Damped Pendulum: Application to Josephson Junctions and Charge-Density-Wave Systems", MacDonald, A. H.; Plischke, M., Phys. Rev. B **27**, 20 (1983).

45 "Spin-Polarized Relativistic Exchange Energies and Potentials", MacDonald, Allan H., J. Phys. C: Solid State Physics **16**, 3869 (1983).

44 "Quantized Hall Conductance in a Relativistic Two-Dimensional Electron Gas", MacDonald, Allan H., Phys. Rev. B **28**, 2235 (1983).

43 "Landau-Level Subband Structure of Electrons on a Square Lattice" MacDonald, Allan H., Phys. Rev. B **28**, 6713 (1983).

42 "Compressibility of Liquid Metallic Hydrogen", MacDonald, Allan H., Phys. Rev. B **27**, 6472 (1983).

41 "Calculated Pressure Dependence of the Electron Quasiparticle Mass for Na and K", Leavens, C. R.; MacDonald, A. H.; Taylor, R., Phys. Rev. B **27**, 1352 (1983).

40 "Comment on Anisotropic Superconductors with Repulsive Average Interaction", Whitmore, M. D.; Carbotte, J. P., Phys. Rev. B **26**, 3960 (1982).

39 "Evidence for Phasons in Potassium is Inconclusive", MacDonald, Allan H.; Taylor, R., Phys. Rev. Lett. **48**, 1505 (1982).

38 "Influence of Electron-Electron Scattering on Point-Contact Characteristics in Simple Metals", MacDonald, A. H. and Leavens, C. R., J. Phys. F: Metal Physics **12**, 2323 (1982).

37 "Calculated Point-Contact Electron-Phonon Spectral Functions for the Alkali Metals", MacDonald, A. H.; Leavens, C. R., Phys. Rev. B **26**, 4293 (1982).

36 "Non-Muffin-Tin and Relativistic Interaction Effects on the Electronic Structure of Noble Metals", MacDonald, A. H.; Koelling, D. D.; Daams, J. M.; Vosko, S. H., Phys. Rev. B **25**, 713 (1982).

35 MacDonald, A. H., and D. J. W. Geldart, "A Comparison of Approximations for the Elastic Electron-Electron Scattering Amplitude in Jellium" Can. J. Phys. **60**, 1016 (1982).

34 "Absence of Crystallization in Metallic Hydrogen", MacDonald, A. H.; Burgess, C. P., Phys. Rev. B **26**, 2849 (1982).

33 "Transition-Metal g Factor Trends", MacDonald, Allan H., J. Phys. F: Metal Physics **12**, 2579 (1982).

32 "Electron-Electron Interactions in Simple and Transition Metals", MacDonald, Allan H., Can. J. Phys. **60**, 710 (1982).

31 "Finite Mean-Free-Path Effects in the Electrical Resistivity of Liquid Metals", Leavens, C. R.; MacDonald, Allan H.; Taylor, R.; March, N. H.; Ferrez, F., Phys. Chem. Liq. **11**, 115 (1981).

30 "Mass Enhancement in Strongly Para-magnetic Transition Metals", MacDonald, Allan H., Phys. Rev. B **24**, 1130 (1981).

29 "On the Identification of Phason Anomalies in the Low-Temperature Specific Heat of the Alkali Metals"; MacDonald, A. H.; Taylor, R.; Shukla, R. C., Phys. Rev. Lett. **46**, 434 (1981).

28 Ion-Ion Interactions in a Polarized Electron Gas, MacDonald, A. H.; Taylor, R., Solid State Comm. **38**, 995 (1981).

27 "Influence of Relativistic Contributions to the Effective Potential on the Electronic Structure of Pd and Pt", MacDonald, Allan H.; Koelling, D. D.; Daams, J. M.; Vosko, S. H., Phys. Rev. B **23**, 6377 (1981).

26 "Magnetic susceptibility of metallic transition-metal dichalcogenides", MacDonald, A. H.; Geldart, D. J. W., Phys. Rev. B **24**, 469 (1981).

25 "Umklapp Electron-Electron Scattering and the Low-Temperature Electrical Resistivity of the Alkali Metals", MacDonald, Allan H., Taylor, R.; Geldart, D. J. W., Umklapp Electron-Electron Scattering and the Low-Temperature Electrical Resistivity of the Alkali Metals Phys. Rev. B **23**, 2718 (1981).

24 "Influence of Non-locality in the Spin-Spin Interaction Functional on the Pauli Susceptibility of Li, Na and K", MacDonald, A. H.; Liu, K. L.; Vosko, S. H.; Wilk, L., Can. J. Phys. **59**, 500 (1981).

23 "Harmonic Phonons and Phonon-Limited Resistivities for Rb and Cs from First Principles Pseudopotentials", Taylor, R.; Macdonald, A. H., J. Phys. F: Metal Physics **10**, 2387 (1980).

22 "Magnetic Form Factors of Paramagnetic Ni in a Stoner-Like Model", MacDonald, A. H.; Liu, K. L.; Vosko, S. H., J. Phys. F: Metal Physics **10**, L207 (1980).

21 "Influence of Structure on the Phonon-Limited Resistivities of Li and Na", Taylor, R.; Macdonald, Allan H., J. Phys. F-Metal Physics **10,** L181 (1980).

20 "Electron-Phonon Enhancement of Electron-Electron Scattering in Al", MacDonald, Allan H., Phys. Rev. Lett. **44**, 489 (1980).

19 "A Linearized Relativistic Augmented Plane Wave Method Utilizing Approximate Pure Spin Basis Functions", MacDonald, A. H.; Pickett, W.E.; Koelling, D. D., J. Phys. C: Solid State Physics **13**, 2675 (1980).

18 "Prediction of Fermi surface Pressure-Dependence in Rb and Cs", Jan, J. P.; MacDonald, Allan H.; Skriver, H. L., Phys. Rev. B **21**, 5584 (1980).

17 "Density functional approximation for the quasiparticle properties of simple metals. II. Application to Li, Rb and Cs", MacDonald, Allan H., J. Phys. F: Met. Phys. **10**, 1737 (1980).

16 "Density Functional Approximation for the Quasiparticle Dynamics of Simple Metals: I. Theory and Electron-Gas Calculations" MacDonald, A. H., J. Phys. F: Metal Physics **10**, 1719 (1980).

15 "Electron-Electron Scattering and the Thermal Resistivity of Simple Metals", MacDonald, Allan H.; Geldart, D. J. W., J. Phys. F: Metal Physics **10**, 677 (1980).

14 "Comment on Low-Temperature Resistivity and Thermoelectric Ratio of Copper and Gold", MacDonald, A. H.; Laubitz, M.J., Phys. Rev. B **21**, 2638 (1980).

13 "Calculations of the Spin Susceptibilities and Their Volume Dependence for Li, Na and K", Wilk, L.; MacDonald, A. H.; Vosko, S. H., Can. J. Phys. **57**, 1065 (1980).

12 "Spin Density Functional Theory of the Temperature-Dependent Spin Susceptibility: Pd and Pt", Liu, K. L.; MacDonald, A. H.; Daams, J. M.; Vosko, S. H., J. Magnetism and Magnetic Materials **12**, 43 (1979).

11 "Relativistic Density Functional Formalism", MacDonald, A. H.; Vosko, S. H., J. Phys. C: Solid State Physics **12**, 2977 (1979).

10 "Extensions of the Tetrahedron Method for the Evaluation of Spectral Properties of Solids", MacDonald, Allan H., J. Phys. C: Solid State Physics **12**, 2991 (1979).

9 "Density Functional Approximation for the Quasiparticle Dynamics of Rubidium", MacDonald, Allan H., J. Phys. F: Metal Physics **9**, L99 (1979).

8 "Variational-Principle for the Wave-Vector Dependent Spin Susceptibility Paramagnetic and Ferromagnetic Systems", Vosko, S. H.; MacDonald, A. H.; Liu, K. L., Proc. Int'l. Conf. Phys. Transition Metals, Inst. Phys. Conf. **39**, 33 (1978).

7 "Spin Susceptibility of Paramagnetic Nickel", Liu, K. L.; MacDonald, Allan H.; Vosko, S. H., Proc. Int'l. Conf. Phys. Transition Metals, Inst. Phys. Conf. **39**, 557 (1978).

6 "Comment on Special Points for Brillouin-Zone Integrations", MacDonald, Allan H., Phys. Rev. B **18**, 5897 (1978).

5 "Non-Local Exchange-Correlation Effects on the Spin Susceptibility and Thermal Density of States of Cu", Liu, K. L.; MacDonald, Allan H.; Vosko, S. H., Can. J. Phys. **55**, 1991 (1978).

4 "Theoretical Estimate of the Exchange Correlation Enhancement of the Spin Susceptibility of Scandium", MacDonald, A. H.; Liu, K. L.; Vosko, S. H., Phys. Rev B **16**, 777 (1977).

3 "Variational-Principle Density-Functional Evaluation of the Spin Susceptibility for the Alkali Metals", MacDonald, A. H.; Vosko, S. H., J. Low Temp. Phys. **25**, 27 (1976).

2 "First Principles Calculations of the Volume Dependence of the Spin Susceptibility for Li and Na", MacDonald, Allan H.; Perdew, J.P.; Vosko, S. H., Solid State Comm. **18**, 85 (1976).

1 "Ab Initio Calculation of the Spin Susceptibility for the Alkali Metals Using the Density-Functional Formalism", Vosko, S. H.; Perdew, J. P.; MacDonald, A. H., Phys. Rev. Lett **35**, 1725 (1975).

BOOKS:

1. "A Perspective on the Quantum Hall Effect", MacDonald, Allan H., (Jack Books, Milan, 1989.)

For the past 10 years an average of 20 presentations per year.

INVITED TALKS:

UC Irving, gave talks on twisted graphene, February 12-14, 2020.

Atlantic Undergraduate Physics and Astronomy Conference, St. Francis Xavier University, January 31-Feb 2020.

Distinguished Lecture Series at the Tata Institute for Fundamental Research, Dept. of Condensed Matter P and Materials Science, Mumbai, India, January 24, 2020.

Inaugural Workshop of the Thouless Institute for Quantum Matter at the University of Washington at Sea January 18-20, 2020.

IPAM Workshop: Theory and Computation for 2D Materials, Los Angeles, CA. January 13-17, 2020.

Fleet Collaboration Workshop, Arc Centre of Excellence in Future Low-Energy Electronics Technologies, Lorne, Australia, December 8-11, 2019.

AIP (Australian Institute of Physics) Summer Meeting, RMIT University in Melbourne, Australia, Decembe 2019.

Gordon Godfrey Workshop on Spins, Topology and Strong Electron Correlations, UNSW School of Physics Australia, November 25, 2019.

SpinPeru: International Workshop Spintronics 2019, Ollantaytambo, Cusco, Peru, October 20-25, 2019.

"Many Body States of Light: Go and No-Go," Fundamental Optical Processes in Semiconductors (FOPS) wo in Banff, Canada, August 6, 2019.

"Electronic Properties of Magic Angle Twisted Bilayer Graphene," Royal Society Exchange Program at St. University, September 18, 2019.

"Electronic Properties of Magic Angle Twisted Bilayer Graphene," Fundamental Optical Processes in Semiconductors (FOPS), Calgary, Canada, August 2019.

"Electronic Properties of Magic Angle Twisted Bilayer Graphene," Condensed Matter in the City Worksho

London, July 2019.

"Electronic Properties of Magic Angle Twisted Bilayer Graphene," Moire in Paris 2019, División de Física Materia Condensada, June 3-4, 2019.

"Electronic Properties of Magic Angle Twisted Bilayer Graphene," 9th edition of the largest European Con & Exhibition in Graphene and 2D Materials, Rome, Italy, June 27, 2019.

"Electronic Properties of Magic Angle Twisted Bilayer Graphene," New Materials and Structures in Topol and Correlated Systems, Hong Kong University, June 18, 2019.

"Optical Properties of Topological Materials," CLEO Laser Science to Photonic Applications Conference, Sa California, May 6, 2019.

"Electronic Properties of Magic Angle Twisted Bilayer Graphene," Princeton University, April 26, 2019.

"Electronic Properties of Magic Angle Twisted Bilayer Graphene," Case Western University, Cleveland, Oh 18, 2019.

"Electronic Properties of Magic Angle Twisted Bilayer Graphene," University of British Columbia, March 1

"Nature of the Insulating State in Magic Angle Twisted Bilayer Graphene." Cal Tech, October 23, 2018.

"Magic-Angle Twisted Bilayer Graphene." National Center for Theoretical Science (NCTS) Physics Divisio National Tsing Hua University, September 27, 2018.

"Gate Response of Magic Angle Bilayer Graphere." FET International Workshop 2018, Groningen, The Netherlands, August 22, 2018.

"Strong Correlations in Magic Angle Double Bilayer Graphene." Cambridge/Manchester Graphene Works Manchester, UK, June 30, 2018.

"Tuning the BKT Transition in Double-Bilayaer Graphene Quantum Hall Ferromagnets. " International Sy on Quantum Hall Effects and Related Topics, Max Plank Institute for Solid State Research, Stuttgart, Germ 27, 2018.

"Tuning the BKT Transition in Double-Bilayaer Graphene Quantum Hall Ferromagnets. " Topological pha matter TopMat: from the quantum Hall effect to spin liquids, Université de Paris, France, June 23, 2018.

"Building Exciton Circuits." Workshop on Photonics in quantum and topological materials, Barcelona Spa 19, 2018.

"Electronic Structure Theory for Electron-Electron Interaction Physics in Semimetals and Semiconductor

Electronic A10Structure Workshop and Penn Conference in Theoretical Chemistry. University of Pennsyl
June 12, 2018.

"Twisted Bilayer Magic Angles." Harvard University, May 10, 2018.

"More Moirés." MIT, May 9, 2018.

"Fundamental Physics with a Twist." Invited talk at a University of Utah colloquium, April 19, 2018.

"Correlation and Topology in Quantum Materials." Invited talk at the New York Section of American Phys
Society 118th Topical Symposium, University of Binghamton, New York on April 13, 2018.

"Three Ways to Think About Spin-Orbit Torques." Colorado State University, April 3, 2018.

"Moire Patterns in 2D Materials: Fundamental Physics with a Twist." Colorado State University, April 2, 2018

"Multi-Condensate Superconductivity and Superfluidity in Solids and Ultracold Gases." Keynote speaker a
MultiSuper International Conference in Trieste, Italy. Hosted by the International Centre for Theoretical I
May 14, 2018.

"The Quantum Anomalous Hall Majorana Platform." New Platforms for Topological Superconductivity with M
Atoms: International Focus Workshop at Max Planck Institute for the Physics of Complex Systems, Dresden, G
April 10, 2018.

"Broken Symmetries in Quantum Hall Systems." Invited talk at the Current View on Quantum Hall Physics and
Coirrelations Symposium, Wroclaw University of Science and Technology, Wroclaw, Poland, January 12, 2018

"Electrical Manipulation of Exciton and Polariton Gases." Invited talk at the18th International Conference on P
Light-Matter Coupling in Nanostructures, held in Würzburg, Germany, July 14, 2017.

"Exciton Condensates in the Quantum Hall Regime." German-Israeli Minerva School on Quantum Dipolar Gas
Atomic and Condensed Matter Systems (DIP-QUANTUM), Jerusalem, Israel, October 24, 2017.

"Nematic order near Topological Insulator / Normal Insulator phase transitions." Invited talk at Spin Phenomen
Interdisciplinary Center (SPICE), Johannes Gutenberg Universitat, Mainz, Germany. July 27, 2017.

"Electrical Manipulation of Exciton and Polariton Condensates." Presented at University of Maryland, JQI 10th
Anniversary Symposium. May 18, 2017.

"Moire Patterns in Two-Dimensional Materials." Presented at University of Minnesota, College of Science and
Engineering, Mathematical Modeling of 2D Materials Conference. May 16, 2017.

"Nematic order near Topological Insulator / Normal Insulator phase transitions." Presented at Pittsburgh Quantu

Institute: PQI2017: Quantum Revolutions. April 26, 2017.

"Anomalous Velocity in Condensed Matter and Ultracold Atoms." Present at MIT, April 17, 2017.

"Topological Materials." Present colloquium talk at City College of New York (CCNY). April 19-21, 2017.

"New Horizons in Spintronics." The KITS 2017 Forum: New Horizons in Condensed Matter Physics. Beijing, C
March 27-29, 2017.

"Nematic order new Topological Insulator / Normal Insulator phase transitions." Workshop in Tokyo, February

"New Horizons in Spintronics." Workshop in Tahiti, February 12, 2017.

"*Electron-Hole Pair Condensates*." Colloquium at University of Central Florida at Orlando, November 2016.

Colloquium at Virginia Tech, Oct. 17, 2016

West Lafayette, IN, Oct. 2016

Workshop in Mainz Germany - Sept. 21, 22, 23 2016

"Topological Spintronics", International Conference on new trends in Topological Materials
Wurzburg Germany, July 2016

"Polaritonrics"
University of Science and Technology of China, July 2016

"Ordered states in Graphene Multilayers", Swiss Workshop on Materials with Novel Electronic Properties wor
Switzerland, July 6, 2016

"Many-Body Switches", International Conference on Emerging Functional Electronic Materials and Devices wo
Hefei China, July 10, 2016

"Topological Spintronics" Frankfurt, Germany, July 24, 2016.

"Polaritronics"
Stanford, San Fran CA, June 2016

"Interaction correction to the topological magneto-electric effect"
Stanford, San Fran CA, May 2016

"Theory of Spin-Orbit Torques in Topological Insulator DMSs"
U. of Minnesota, May 12, 2016

"Spatially Indirect Exciton Condensates"
Frontiers of Electronic Structure Symposium Regensburg, May-2016

"Spin-Orbit Torques"
Rice University April-2016

"The Quantum Hall Efect and Spintronics"
Rice University April-2016

"New Physics in 2D materials"
Sydney, Australia Feb-2016

"Spin-Orbit Torques"
Sydney, Australia Feb-2016

"Interaction correction to the Topological Magnetoelectric effect"
Sydney, Australia Feb-2016

"Spin-Orbit Torques' UTA Feb-2016

"Spintronics with Antiferromagnets"
INTERMAG Conference - San Diego Jan-2016

"Anomalous Electrical Properties of Spatially Indirect Exciton Condensates"
Rice University Dec-2015

"Spin-Orbit Torques"
Conference in Narita, JA Nov-2015

"New Physics in Two-Dimensional Materials"
Lorne Australia Nov-2015

"Quantum Hall Effect Theory Reprise"
ASANN in Hawaii Nov-2015

“Majorana Zero Modes and Beyong”
Piitsburg, PA Nov-2015

“Anomalous Electrical Properties of Spatially Indirect Exciton Condensates”
University of Singapore Oct-2015

“Interaction Effects in Graphene and Related Materials”
Workshop San Sebastian, Spain Jun-2015

"The quantum Hall effect and spin-orbit torques"
Spin-orbit coupling in surface or interface states" Workshop. Spetses, Greece Jun-2015

"The quantum Hall effect and spin-orbit torques"
International Workshop: Spintronics with Antiferromagnets. Tokyo University Jun-2015

"The quantum Hall effect and spin-orbit torques"
Columbia University May-2015

"Exciton Condensates are Super!"
ONR-PCTS Majorana Workshop, Princeton, NJ Apri- 2015

"Exciton Condensates are Super!"
Colloquium at UCLA April-2015

"Exciton Condensates are Super!"
Colloquium at Kent State in Akron, OH April-2015

“*The Quantum Hall Effect and Spintronics”*
Physics Symposium 2015, Perimeter Institute April-2015

"Exciton Condensates are Super!"
Colloquium at Perimeter Institute April-2015

“Spatially Indirect Exciton Condensates in Transition Metal Dichacogenides”
University of Maryland Colloquium Feb-2015

“Anomalous Electrical Properties of Spatially Indirect Exciton Condensates”
Rice University Dec-2014

"Magnetic Majorana Factories"
Taiwan, Dec-2014

"Many-Body Switches"
Taiwan, Dec-2014

"Tutorial Lectures on the Electronic properties of Graphene Based Electron systems"
Symposium K, Boston, MA Dec-2014

"Toward Optimized Topological Superconductivity in Transition Metal Atom Chains"
Majorana Workshop, Princeton University, Oct-2014

"High-Precision ARPES and frontiers of Many-electron Physics"
LBL Soft-Xray workshop, CA Oct-2014

"High-Precision ARPES and frontiers of Many-electron Physics"
University of Amersterdam Oct-2014

"Toward Optimized Topological Superconductivity in Transition Metal Atom Chains"
ONR-PCTS Majorana Workshop, Princeton, NJ Oct-2014

"Spin Superfluidity and Many-Body Switches"
St. Francis Xavier University, Antigonish, NS, Canada, Aug-2014

"Many-Body Switches"
ICPS Conference, Austin, TX, Aug-2014

"Muons and Topological Insulators"
muSR 2014 International Conference, Switzerland, Jun-2014

"Fractional Quantum Hall Effect in Graphene"
Gordon Research Conference on Graphitic Materials, Bates College, Lewiston, MA, Jun-2014

"Exciton and Spin Superfluidity"
Kalmar University, Sweden, Jun-2014

"Fractional Quantum Hall Effect in Graphene"
Graphene Week 2014 Conference, Sweden, Jun-2014

"Exciton and Spin Superfluidity"
Multisuper Conference, Camrino, Italy, Jun-2014

"Excitonic Superfluidity"
Inaugral International Conf. for International Center for Theoretical Physics, Turkey, May-2014

"Fractional Quantum Hall Effect in Graphene"
Naples, Italy, Apr-2014

"Spin-Superfluidity"
New York University, NY, Apr-2014

"Spintronics in Graphene and Topological Insulators"
SpinoGraph, Braga, Portugal, Mar-2014

"Many-Body Switches"
APS Workshop, Denver, CO, Mar-2014

"Many-Body Switches"
Texas Tech, Lubbock, TX, Mar-2014

"Dipolariton Bose Condensates"
Pennsylvania State University, Feb-2014

"Majorana States in Semiconductor and Oxide Quantum Wires"
CQS Seminar, Austin, TX, Jan-2014

"Majorana States in Semiconductor and Oxide Quantum Wires"
Tokyo, Japan, Jan-2014

"Spin-Superfluidity"
Kavli Center for Theoretical Physics, Santa Barbara, CA, Dec-13

"Anomalous Hall effect revisited"
Simon Fraser University, Vancouver, BC, Canada, Nov-13

"Majorana State Properties in Semiconductor and Oxide Superconducting Quantum Wires"
University of Illinois at Urbana-Champaign, Champaign, IL, Nov-13

"Anti-Spintronics"
UCSB Kavli Institute for Theoretical Physics, Santa Barbra, CA, Oct-13

"Spin-Orbit Interactions in Oxide Two-Dimensional Electron Systems"
Stanford San Francisco, San Fran, CA, Aug-13

"Superfluidity in GiBilayer Quantum Hall Systems"
Trento, Italy, Jul-13

"Majorana States in Oxide Quantum Wires"
Ettore Majorana Center for Theoretical Physics, Sicily, Italy, Jul-13

"Majorana States in Oxide Quantum Wires"
Sicily, Italy, Jul-13

"Theory of spontaneous Hall states in graphene and graphene multilayer two-dimensional electron systems
University of Paris, France, Jun-13

"Theory of current-induced torques in magnetic thin films"
University of Paris, France, Jun-13

"Theory of the Interaction between graphene and graphite or boron nitride substates"
University of Paris, France, May-13

"Topological States in Graphene-Based Two-Dimensional Electron Systems"
University of Vermont, Burlington, VT, Apr-13

"Topological States in Graphene-Based Two-Dimensional Electron Systems"
University of Victoria, Victoria, BC, Canada, Mar-13

"Topological States in Graphene-Based Two-Dimensional Electron Systems"
University of British Columbia, Vancouver, BC, Canada, Mar-13

"Topological States in Graphene-Based Two-Dimensional Electron Systems"
McGill University, Montreal, QC, Canada, Jan-13

"Spin Transfer in Semiconductors and Quantum Hall Bilayers"
Gorky, Russia, Jul-04

"Ferromagnetism and Spin Transport in Semiconductors"
Pacific Grove, CA, Jul-04

"Excitonic BEC in Bilayer Quantum Hall Systems"
Prague, CZ Rep, Jul-04

"Spin Transfer in Semiconductors and Quantum Hall Bilayers"
Wuhan, China, Jun-04

"Spin Transfer in Semiconductors and Quantum Hall Bilayers"
St. Petersburg, Russia, Jun-04

"Ferromagnetism and Spin Transport in Semiconductors"
Beijing, China, Jun-04

"Ferromagnetism and Spin Transport in Semiconductors"
Holyoke, MA, Jun-04

"Spin Transfer in Semiconductors"
Osaka, Japan, May-04

"Ferromagnetism and Spin Transport in Semiconductors"
Trieste, Italy, May-04

"Excitonic BEC in Bilayer Quantum Hall Systems"
Pittsburg, PA, May-04

"Ferromagnetism and Spin Transport in Semiconductors"
San Francisco, CA, Apr-04

"Ferromagnetism and Spin Transport in Semiconductors"
Ohio University, Athens, OH, Apr-04

"Excitonic BEC in Bilayer Quantum Hall Systems"
Penn State University, State College, PA, Apr-04

"Theory of Anomalous Transport"
Montreal, QC, Canada, Mar-04

"Ferromagnetism and Spin Transport in Semiconductors"
Cal State Northridge, Los Angles, CA, Mar-04

"Ferromagnetism and Spin Transport in Semiconductors"
San Jose, CA, Feb-04

"Excitonic BEC in Bilayer Quantum Hall Systems"
University of Chicago, Chicago, IL, Feb-04

"Ferromagnetism and Spin Transport in Semiconductors"
Nagoya, Japan, Nov-03

"Excitonic BEC in Bilayer Quantum Hall Systems"
Texas A&M, College Station, TX, Nov-03

"Ferromagnetism and Spin Transport in Semiconductors"
Barcelona, Spain, Oct-03

"Diluted Magnetic Semiconductor Ferromagnetism"
Santa Monica, CA, Oct-03

"Ferromagnetism and Spin Transport in Semiconductors"
Maui, HI, Sep-03

"The Bosan FQHE: Rapidly Rotating Cold Atoms"
International Conference, Stuttgart, Germany, Jul-03

"Spintronics in Semiconductors"
3 lectures, Boulder Condensed Matter Physics School, Boulder, CO, Jul-03

"Collective Transport in Bilayer Quantum Hall Systems"
15th International Conferences, Nara, Japan, Jul-03

"The Bosan FQHE:Rapidly Rotating Cold Atoms"
University of Pisa, Pisa, Italy, Jun-03

"The Bosan FQHE: Rapidly Rotating Cold Atoms"
University of Karlshruhe, Karlshruhe, Germany, Jun-03

"Phenomenological Models of DMS Ferromagnetism"
CECAM Workshop, Lyon, France, Jun-03

"Ferromagnetism in Diluted Magnetic Semiconductors"
High Magnetic Field Lab, Grenoble, France, Jun-03

"Weak-Coupling Theory of Underdoped Cuprates"
Canadian Institute of Advanced Research, Vancouver, BC, Canada, May-03

"Progress in Theory of Ferromagnetism in Semiconductors/Intrinsic Spin-Hall Effect in Semiconductors"
DARPA, Apr-03

"Weak-Coupling Theory of Underdoped Cuprates"
Aspen Winter Conference, Buffalo, NY, Feb-03

"Weak-Coupling Theory of Cuprate Superconductors"
Columbia University, New York, NY, Jan-03

"Superfluid Properties of Quantum Hall Ferromagnets"
Columbia University, New York, NY, Jan-03

"Ferromagnetic Transition Metal Nanoparticles"
Lancaster University, Lancaster, England, UK, Jan-03

"Rapidly Rotating Bose Condensates"
Los Alamos National Lab, Las Alamos, NM, Dec-02

"Rapidly Rotating Bose Condensates"
University of North Carolina, Chapel Hill, NC, Nov-02

"Ferromagnetic Semiconductors"
Texas A&M University, College Station, TX, Nov-02

"Ferromagnetic Semiconductors"
Cornell University, Ithaca, NY, Nov-02

"Magnetic Semiconductors"
(LEES), New York, NY, Oct-02

"Ferromagnetic Semiconductors"
University of Cincinnati, Cincinnati, OH, Oct-02

"Ferromagnetic Semiconductors"
Johns Hopkins University, Baltimore, MD, Oct-02

"Spintronics in Semiconductors"
3 lectures, DARPA, Ft. Lauderdale, FL, Sep-02

"Spintronics in Quantum Hall Ferromagnets"
International Conference, Scotland, Aug-02

"Spintronics in Quantum Hall Ferromagnets"
International Conference, Hiroshima, Japan, Aug-02

"Spintronics"
NATO Advanced Study Institute, Erice, Sicily, Jul-02

"Spintronics in Quantum Hall Ferromagnets"
Workshop, Erice, Sicily, Jul-02

"Spintronics in Quantum Hall Ferromagnets"
Workshop, Xian, China, Jun-02

"Ferromagnetism in Magnetically Doped Semiconductors"
Workshop, Beijing, China, Jun-02

"Ferromagnetic Semiconductors"
Gordon Research Conference, Colby College, Waterville, ME, Jun-02

"Spintronics in Quantum Hall Ferromagnets"
Workshop, Minneapolis, MN, May-02

"Ferromagnetic Semiconductors"
University of California at San Diego, San Diego, CA, May-02

"Ferromagnetism in Diluted Magnetic Semiconductors and Transition Metal Ferromagnets"
NSF US-Italy Conference, Washington, D.C., Mar-02

"Ferromagnetic Semiconductors"
Workshop, Vanderbilt University, Nashville, TN, Feb-02

"Superfluid Properties of Quantum Hall Ferromagnets"
National High Magnetic Field Lab, Tallahassee, FL, Jan-02

"Ferromagnetism and Superfluidity in Bilayer QH Systems"
International Symposium, University of Wurzburg, Germany, Dec-01

"III1-xMnxV Ferromagnetism: Spintronics in Semiconductors"
Oak Ridge National Lab, Computational Materials Institute, Oak Ridge, TN, Nov-01

"Quantum Hall Quantum Bits"
Workshop, UT Austin, Austin, Texas, Oct-01

"Metallic Nanoparticles"
Georgia Tech, Atlanta, GA, Oct-01

"III1-xMnxV Ferromagnetism: Spintronics in Semiconductors"
Georgia Tech, Atlanta, GA, Oct-01

"III1-xMnxV Ferromagnetism: Spintronics in Semiconductors"
UT Austin, Austin, TX, Oct-01

"Ferromagnetic Semiconductors"
Workshop, Oak Ridge, TN, Oct-01

"Charge Fluctuations in Quantum Hall Bilayers and Underdoped Cuprates"
Workshop, Kashiwa, Japan, Oct-01

"Quantum Description of Ferromagnetic Metal Nanoparticles"
Workshop, Institute for Theoretical Physics, Santa Barbara, CA, Aug-01

"III1-xMnxV Ferromagnetism: Semiconductor Spintronics"
Workshop, Washington, Aug-01

"Charge Fluctuations in Quantum Hall Bilayers and Underdoped Cuprates"
Workshop, Ann Arbor, MI, Aug-01

"Quantum Description of Ferromagnetic Metal Nanoparticles"
Workshop, National Center of Nanoscience, Beijing, China, Jun-01

"Quantum Description of Ferromagnetic Metal Nanoparticles"
Workshop, University of Science & Technology, Heifei, China, Jun-01

"III1-xMnxV Ferromagnetism: Spintronics in Semiconductors"
Argonne National Laboratory, Chicago, IL, Jun-01

"III1-xMnxV Ferromagnetism: Semiconductor Spintronics"
Workshop, Janczowic, Poland, Jun-01

"III1-xMnxV Ferromagnetism: Semiconductor Spintronics"
Workshop on Quantum Materials, Hamburg, Germany, Jun-01

"III1-xMnxV Ferromagnetism: Semiconductor Spintronics"
Workshop, Ile de Bendor, France, Jun-01

"Superfluid Properties of Quantum Hall Ferromagnets"
Los Alamos National Laboratory, Los Alamos, NM, Apr-01

"III1-xMnxV Ferromagnetism: Spintronics in Semiconductors"
Los Alamos National Laboratory, Los Alamos, NM, Apr-01

"III1-xMnxV Ferromagnetism: Spintronics in Semiconductors"
Clemson University, Clemson, SC, Apr-01

"III1-xMnxV Ferromagnetism: Spintronics in Semiconductors"
Rice University, Houston, TX, Mar-01

"Superfluid Properties of Quantum Hall Ferromagnets"
Workshop, Tokyo, Japan, Feb-01

"III1-xMnxV Ferromagnetism: Semiconductor Spintronics"
Workshop, Queenstown, New Zealand, Feb-01

"III1-xMnxV Ferromagnetism: Semiconductor Spintronics"
Workshop, Seoul, Korea, Feb-01

"III1-xMnxV Ferromagnetism: Spintronics in Semiconductors"
National Research Council of Canada, Ottawa, ON, Canada, Jan-01

"III1-xMnxV Ferromagnetism: Spintronics in Semiconductors"
University of Houston, Houston, TX, Jan-01

"Quantum Description of Ferromagnetic Metal Nanoparticles"
Workshop, Ascona, Switzerland, Oct-00

"Superfluid properties of quantum Hall ferromagnets"
Conference, Matsue, Japan, Sep-00

"Quantum Description of Ferromagnetic Metal Nanoparticles"
Workshop, Cortona, Italy, Jul-00

"III1-xMnxV Ferromagnetism: Semiconductor Spintronics"
1st Washington Spintronics Conference, Washington DC, Jul-00

"de-Haas van Aalphen Oscillations in the Mixed State"
Boulder Summer School in Condensed Matter Physics, Boulder, CO, Jul-00

"III1-xMnxV Ferromagnetism: Spintronics in Semiconductors"
Ohio State University, Columbus, OH, May-00

"III1-xMnxV Ferromagnetism: Spintronics in Semiconductors"
University of Iowa, Iowa City, IA, Apr-00

"III1-xMnxV Ferromagnetism: Spintronics in Semiconductors"
McMaster University, Hamilton, ON, Canada, Apr-00

"III1-xMnxV Ferromagnetism: Spintronics in Semiconductors"
University of Southern Illinois, Carbondale, IL Apr-00

"Superfluid Properties of Quantum Hall Ferromagnets"
Princeton University, Princeton, NJ, Mar-00

"Superfluid Properties of Quantum Hall Ferromagnets"
University of Lund, Sweden, Dec-99

"Superfluid Properties of Quantum Hall Ferromagnets"
Columbia University, New York, NY, Nov-99

"Quantum Hall Stripe State Physics"
A Celebration of the 65th Birthday of David Thouless, Seattle, WA, Sep-99

"New Surprises in Quantum Hall Physics"
Brown University, Providence, RI, Sep-99

"Quantum Hall Ferromagnets"
School on Exotic States in Quantum Nanostructures, London, England, UK, Aug-99

"Quantum Hall Stripe State Physics"
Workshop, Hamburg, Germany, Jul-99

"Quantum Hall Stripe State Physics"
Conference, Trieste, Italy, Jul-99

"Quantum Hall Ferromagnets"
Winter School J.J. Giambiagi, University of Buenos Aires, Argentina, Jul-99

"Spin-dependent Transport in Metals and Semiconductors"
Sitges Conference, Spain, Jun-99

"Optical Properties of Quantum Hall Ferromagnets"
NATO ARW, Ustron-Jaszowiec, Poland, Jun-99

"Quantum Hall Stripe State Physics"
Workshop, University of Minnesota, Minneapolis, MN, May-99

"Physics of Tunnel Junction Magnetoresistance"
Seagate Recording Heads, Minneapolis, MN, May-99

"Spin Electronics"
UT Austin, Austin, TX, Apr-99

"Spin-Dependent Tunneling in Metals and Semiconductors"
APS March Meeting, Atlanta, GA, Mar-99

"Spin Electronics"
University of Colorado, Boulder, CO, Mar-99

"Quantum Hall Ferromagnets"
University of California at Santa Barbara, Santa Barbara, CA, Nov-98

"Quantum Hall Ferromagnets"
Stanford University, Stanford, CA, Nov-98

"Quantum Hall Ferromagnets"
University of California at Santa Cruz, CA, Oct-98

"Quantum Hall Ferromagnets"
University of British Columbia, Vancouver, BC, Canada, Oct-98

"Electrodynamic Properties of the Vortex Lattice"
University of British Columbia, Vancouver, BC, Canada, Oct-98

"Carrier Induced Ferromagnetism in Diluted Magnetic Semiconductors"
Simon Fraser University, Vancouver, BC, Canada, Oct-98

"Electrodynamic Properties of the Vortex Lattice"
Indiana University, Bloomington, IN, Sep-98

"Critical Currents, Phase Slips and Turbulence in Mesoscopic Superconductors"
Indiana University, Bloomington, IN, Sep-98

"Ising Pseudospin Order and Hysterisis in Quantum Hall Ferromagnets"
University of Campinas, Brazil, Aug-98

"Electrodynamic Properties of the Vortex Lattice"
University of Campinas, Brazil, Aug-98

"Electrodynamic Properties of the Vortex Lattice"
Federal University of Rio de Janiero, Brazil, Aug-98

"Carrier Induced Ferromagnetism in Diluted Magnetic Semiconductors"
University of Campinas, Brazil, Aug-98

"Weak Disorder in Strongly Interacting 2D Electron Systems"
CECAM Workshop, Torino, Italy, Jun-98

"Pseudospin Anisotropy and Hysterisis in Quantum Hall Ferromagnets"
XXII Condensed Matter Theories Workshop, Nashville, TN, Jun-98

"Pseudospin Anisotropy and Hysterisis in Quantum Hall Ferromagnets"
INFM Workshop on Semiconductor Nanostructures, Pisa, Italy, Jun-98

"Pseudospin Anisotropy and Hysterisis in Quantum Hall Ferromagnets"
INFM Annual Meeting, Rimini, Italy, Jun-98

"Ising Pseudospin Order and Hysterisis in Quantum Hall Ferromagnets"
UT Austin, Austin, TX, May-98

"Ising Pseudospin Order and Hysterisis in Quantum Hall Ferromagnets"
Northwestern University, Evanston, IL, May-98

"Ising Pseudospin Order and Hysterisis in Quantum Hall Ferromagnets"
California Institute of Technology, Pasadena, CA, Apr-98

"Ising Pseudospin Order and Hysterisis in Quantum Hall Ferromagnets"
University of Illinois, Champaign, IL, Apr-98

"Skyrmions and Skyrme Crystals in Quantum Hall Ferrogmagnets"
Harvard University, Cambridge, MA, Nov-97

"Excitonic Condensates in Electron-Hole Double Layers"
European Physical Society General Meeting, Leuven, Belgium, Aug-97

"Strong Correlations in Electronic Systems"
9th International Conference, Sydney,Australia, Jul-97

"Strong Correlations in a Landau Band: The Fractional Quantum Hall Effect and Beyond"
Asia Pacific Center for Theoretical Physics Summer, Seoul, Korea, Jun-97

"Fractional Quantum Hall Effect"
3 Lectures at the French "GDR" school, Aussois, France, Jun-97

"Excitonic Condensates in Electron-Hole Double Layers"
ETRI Taejon, Korea, Jun-97

"Skyrmions and Skyrme Crystals in Quantum Hall Ferromagnets"
University of Florida, Gainesville, FL, Apr-97

"Skyrmions and Skyrme Crystals in Quantum Hall Ferromagnets"
University of Michigan, Ann Arbor, MI, Apr-97

"Excitonic Condensates in Electron-Hole Double Layers"
Indiana University, Bloomington, IN, Apr-97

"Skyrmions and Skyrme Crystals in Quantum Hall Ferromagnets"
Michigan State University, East Lansing, MI, Mar-97

"Excitonic Condensates in Electron-Hole Double Layers"
MPI-FKF Stuttgart, Germany, Feb-97

"Vortex Solids and Vortex Fluids in the Lowest Landau Level Approximation"
Landau Level Approximation" Workshop, Trieste, Italy, Aug-96

"Skyrme Crystals in Quantum Hall Ferromagnets"
International Conference, Wurzburg, Germany, Jul-96

"Excitonic Bose Condensation in 2D Electron-Hole Double-Layer Systems"
Workshop, Trieste, Italy, Jul-96

"Excitonic Bose Condensation in 2D Electron-Hole Double-Layer Systems"
Nobel Symposium, Arild, Sweden, Jun-96

"Excitonic Bose Condensation in 2D Electron-Hole Double-Layer Systems"
ECAMI Workshop, Ottawa, ON, Canada, Jun-96

"2D to 2D Tunneling"
Workshop, Pisa Italy, Jun-96

"Skyrme Crystals"
Workshop at Minneapolis, MN, May-96

"Quantum Hall Ferromagnetism"
Workshop at Erwin Schroedinger Institute, Vienna, Austria, Aug-95

"Current Problems in the Theory of The Fractional Quantum Hall Effect"
4 lectures at the NATO, Bad Lauterberg, Germany, Aug-95

"Current Problems in the Theory of The Fractional Quantum Hall Effect"
Lectures at the Brazilian Workshop, Rio de Janerio, Brazil, Jul-95

"Some Recent Results in Fractional Quantum Hall Effect Theory"
3 Lectures at the Winter School, Bangalore, IN, Jan-95

"Novel Physics in Double-Layer Quantum Hall Systems"
Workshop at Madras, India, Jan-95

"Vortices in s-wave and d-wave superconductors"
University of British Columbia, Vancouver, BC, Canada, Dec-94

"Spontaneous Interlayer Coherence in Double-Layer Quantum-Hall systems"
Minneapolis, MN, Dec-94

"Spontaneous Interlayer Coherence in Double-Layer Quantum-Hall Systems"
Ball State University, Muncie, IN, Nov-94

"Spontaneous Interlayer Coherence in Double-Layer Quantum Hall Systems"
Technion Advanced Research Workshop, Nof Ginosar, Israel, Oct-94

"Introduction to the Quantum Hall Effect"
5 lectures at the Les Houches Summer School, Les Houches, France, Jul-94

"Spontaneous Interlayer Coherence in Double-Layer Quantum-Hall Systems"
The Technion, Haifa, Israel, Jun-94

"Spontaneous Interlayer Coherence in Double-Layer Quantum-Hall Systems"
Ben-Gurion University, Beer-Sheva, Israel, Jun-94

"Introduction to the Quantum Hall Effect"
4 lectures at the International Center for Theoretical Physics, Trieste, Italy, May-94

"Vortex-lattice melting in Anisotropic Superconductors"
AT&T Bell Labs, Apr-94

"Spontaneous Interlayer Coherence in Double-Layer Quantum-Hall Systems"
Penn State University, State College, PA, Apr-94

"Spontaneous Interlayer Coherence in Double-Layer Quantum-Hall Systems"
Ohio State University, Columbus, OH, Apr-94

"Spontaneous Interlayer Coherence in Double-Layer Quantum-Hall Systems"
University of Minnesota, Minneapolis, MN, Apr-94

"Spontaneous Interlayer Coherence in Double-Layer Quantum-Hall systems"
University of Tennessee, Knoxville, TN, Feb-94

"Vortex-lattice melting in Anisotropic Superconductors"
Oak Ridge National Lab, Oak Ridge, TN, Jan-94

"Spontaneous Interlayer Coherence in Double-Layer Quantum-Hall Systems"
Purdue University, West Lafayette, IN, Jan-94

"Spontaneous Interlayer Coherence in Double-Layer Quantum-Hall Systems"
Johns Hopkins University, Baltimore, MD, Jan-94

"Commensurate-Incommensurate Phase Transitions in Double-Layer Quantum Hall Systems"
ENFISOL-4, Santiago, Chile, Jan-94

"One and One-half: Frontiers in FQHE Theory"
4th ISSP International Symposium, Tokyo, Japan, Nov-93

"Vortex-lattice melting in 2D Superconductors"
University of Florida, Gainesville, FL, Oct-93

"Vortex-lattice melting in 2D Superconductors"
Florida State University, Tallahassee, FL, Oct-93

"Spontaneous Interlayer Coherence in Double-Layer Systems"
University of Exeter, Exeter, England, UK, Sep-93

"Spontaneous Interlayer Coherence in Double-Layer Systems"
30th Anniversary of Solid State Communications, Oxford University, Oxford, England, UK, Sep-93

"Vortex-lattice Melting"
MISCON Workshop, Notre Dame University, Notre Dame, IN, Jul-93

"Coulomb Gaps in Strong Magnetic Fields"
University of Karlsruhe, Karlsruhe, Germany, Jun-93

"Coherent Interlayer Tunneling in Double-Layer Quantum Hall Systems"
International Workshop, Lauterberg, Germany, Jun-93

"Superconductivity in Extremely Strong Magnetic Fields"
University of Kentucky, Lexington, KY, Apr-93

"Superconductivity in Extremely Strong Magnetic Fields"
University of Illinois, Champaign, IL, Apr-93

"Do Superconductors Superconduct?"
University of Louisville, Louisville, KY, Apr-93

"Magnetoplasmons, Magnetorotons, and Magnetoexcitons"
American Physical Society, Seattle, WA, Mar-93

"Frictional Drag Between Nearby Two-Dimensional Electronic Systems"
Indiana University, Bloomington, ID, Feb-93

"Fractional Hall Quantum Dots"
University of Virginia, Charlottesville, VA, Feb-93

"Do Superconductors Superconduct?"
Antigonish, NS, Canada, Feb-93

"Lectures on the Quantum Hall Effect"
Australian National University Physics Summer School Canberra, Australia, Jan-93

"Frictional Drag Between Nearby Two-Dimensional Electronic Systems"
Czechoslovakian Academy of Sciences, Prague, CZ, Jan-93

"Fractional Hall Quantum Dots"
AT&T Bell Labs, Dec-92

"Superconductivity in Extremely Strong Magnetic Fields"
Concordia University, Montreal, ON, Canada, Oct-92

"Superconductivity in Extremely Strong Magnetic Fields"
University of Sherbrooke, Sherbrooke, QC, Canada, Oct-92

"Fractional Hall Quantum Dots"
Princeton University, Princeton, NJ, Oct-92

"Superconductivity in Extremely Strong Magnetic Fields"
Argonne Workshop, Lemont, IL, Aug-92

"Photoluminescence in the Fractional Hall Regime"
Gordon Godfrey Workshop, Sydney, Australia, Jul-92

"Magnetic Oscillations in Fractional Hall Dots"
University of New South Wales, Sydney, Australia, Jul-92

"The Fractional Quantum Hall Effect"
China Center for Advanced Science and Technology Summer School, Beijing, China, Jun-92

"Luminescence in the Fractional Hall Regime"
University of Munich, Munich, Germany, May-92

"Luminescence in the Fractional Hall Regime"
Max Planck Institut für Festkorperforschung, Stuttgart, Germany, May-92

"Edge Electronic Structure in the Fractional Hall Regime"
Max Planck -- Chernagolovka Joint Workshop, Stuttgart, Germany, May-92

"Superconductivity in Extremely Strong Magnetic Fields"
AT&T Bell Labs, Mar-92

"Electron Liquids and Solids in Very Strong Magnetic Fields"
Mauterndorf Winterschool, Austria, Feb-92

"Superconductivity in Very Strong Magnetic Fields"
University of British Columbia, Vancouver, BC, Canada, Dec-91

"Edge States in Integer and Fractional Quantum Hall Effects"
Simon Fraser University, Vancouver, BC, Canada, Dec-91

"Facts and Fantasies in FQHE theory"
Ohio University, Athens, OH, Nov-91

"Edge States in the Integer and Fractional Quantum Hall Effects"
University of Minnesota, Minneapolis, MN, Oct-91

"Anyons Anyone?"
University of Wisconsin, Madison, WI, Oct-91

"Superconductivity in Extremely Strong Magnetic Fields"
MISCON Meeting, Purdue University, West Lafayette, IN, Aug-91

"Facts and Fantasies in FQHE Theory"
National Research Council of Canada, Ottawa, ON, Canada, Aug-91

"Facts and Fantasies in FQHE Theory"
International Conference on Physics, Neuchatel, Switzerland, Aug-91

"The Quantum Hall Effects"
University of New South Wales, Sydney, Australia, Jul-91

"Edge Electronic Structure in the Fractional Hall Regime"
Institute for Theoretical Physics, Santa Barbara, CA, May-91

"Magnetophonons in the 2D Wigner Crystal"
University of Cincinnati, Cincinnati, OH, Feb-91

"Many-Body Physics in a Strong Magnetic Field"
Solid State Physics Conference, Santiago, Chile, Jan-91

"Many-Body Physics in a Strong Magnetic Field"
International Center for Condensed Matter Physics, Brazil, Jan-91

"Anyon Superconductivity"
University of Missouri, Columbia, MO, Jan-91

"Magnetophonons in the 2D Wigner Crystal"
Simon Frazer University, Vancouver, BC, Canada, Dec-90

"Anyon Superconductivity"
National Research Council of Canada, Ottawa, ON, Canada, Dec-90

"The 2D Wigner Crystal"
Northwestern University, Evanston, IL, Oct-90

"Magnetophonons in the 2D Wigner Crystal"
University of Florida, Gainesville, FL, Oct-90

"Magnetophonons in the 2D Wigner Crystal"
M.I.T., Cambridge, MA, Oct-90

"Magnetophonons in the 2D Wigner Crystal"
S.U.N.Y. Stony Brook, NY, Oct-90

"Half the Story"
Yale 2D, Yale University, New Haven, CT, Oct-90

"Magnetophonons in the 2D Wigner Crystal"
University of Maryland, College Park, MD, Sep-90

"Measuring fractional charges"
Aspen Center for Physics, Aspen, CO, Jul-90

"Photoluminescence in the fractional quantum Hall regime"
MPIF, Stuttgart, Germany, Jun-90

"Anyon superconductivity"
MPIF, Stuttgart, Germany, Jun-90

"Edge Magnetoplasmons in the Quantum Hall Regime"
MPIF, Stuttgart, Germany, May-90

"The Quantum Hall Effects"
NATO ASI, Les Arcs, France, Apr-90

"Edge Magnetoplasmons in the Quantum Hall Regime"
AT&T Bell Labs, Holmdel, NJ, Jan-90

"Edge Magnetoplasmons in the Quantum Hall Regime"
Yale University, New Haven, CT, Nov-89

"The Fractional Hall Effect"
University of Hamburg, Hamburg, Germany, Jul-89

"t/U Expansion of the Hubbard Model"
MPI fur Festkorperforschung, Stuttgart, Germany, Jul-89

"The Fractional Hall Effect in Two-Layer and Multilayer Systems"
AT&T Bell Labs, Jun-89

"The Fractional Hall Effect in Two-Layer and Multilayer Systems"
Ohio State University, Columbus, OH, Apr-89

"The Quantum Hall Effect"
Purdue University, Indianapolis, IN Apr-89

"The Quantum Hall Effect"
Indiana State University, Terre Haute, IN, Apr-89

"The Fractional Hall Effect in Two-Layer and Multilayer Systems"
University of Minnesota, Minneapolis, MN, Apr-89

"Landauer Formulas and the Quantum Hall Effect"
IBM T.J. Watson Labs, Feb-89

"Landauer Formulas and the Quantum Hall Effect"
Indiana University, Bloomington, IN, Feb-89

"The Quantum Hall Effect"
Solid State Physics Conference, Santiago, Chile, Jan-89
"Landauer Formulas and the Quantum Hall Effect"

Argonne National Lab, Lemont, IL, Jan-89

"Landauer Formulas and the Quantum Hall Effect"
National Research Council, Ottawa, ON, Canada, Oct-88

"Landauer Formulas and the Quantum Hall Effect"
University of Minnesota, Minneapolis, MN, Oct-88

"The Two-Component Fractional Quantum Hall Effect"
MPI fur Festkorperforschung, Stuttgart, Germany, Jun-88

"The Quantum Hall Effect"
Oulu, Finland, Jun-88

"ODLRO in the FQHE and Quantum Spin Systems"
MPI fur Festkorperforschung, Stuttgart, Germany, Jun-88

"The Two-Component Fractional Quantum Hall Effect"
University of Illinois, Champaign, IL, Apr-88

"The Two-Component Fractional Quantum Hall Effect"
University of Michigan, Ann Arbor, MI, Feb-88

"The Fractional Quantum Hall Effect"
University of Kentucky, Lexington, KY, Nov-87

"Fractional Quantum Hall Effect"
Oak Ridge National Lab, Oak Ridge, TN, Nov-87

"The Fractional Quantum Hall Effect"
University of Toronto, ON, Canada, Oct-87

"Raman Scattering in Fibonacci Superlattices"
University of Alberta, Edmonton, AB, Canada, Apr-87

"Raman Scattering in Fibonacci Superlattices"
Waterloo University, Waterloo, ON, Canada, Mar-87

"Raman Scattering in Fibonacci Superlattices"

University of California at Davis, Davis, CA, Feb-87

"Raman Scattering in Fibonacci Superlattices"
Indiana University, Bloomington, IN, Feb-87

"Fractional Quantum Hall Effect"
Ottawa, ON, Canada, Feb-87

"Raman Scattering in Fibonacci Superlattices"
MPI fur Festkorperforschung, Stuttgart, Germany, Jan-87

"ODLRO and the Fractional Quantum Hall Effect"
ETH-Zurich, Switzerland, Jan-87

"Fractional Quantum Hall Effect"
MPI fur Festkorperforschung, Stuttgart, Germany, Jan-87

"Fractional Quantum Hall Effect"
University of Florida, Gainesville, FL, Jan-87

"Fractional Quantum Hall Effect"
SUNY at Buffalo, Buffalo, NY, Oct-86

"Fractional Quantum Hall Effect"
University of Western Ontario, London, ON, Canada, Oct-86

"Density-wave Instabilities and Thermoelectric Parameters in the Alkali Metals"
National Bureau of Standards, Washington, DC, Apr-86

"Collective Excitations in the Fractional Quantum Hall Effect"
Brown University, Providence, RI, Apr-86

"The Fractional Quantum Hall Effect"
Tohoku University, Japan, Mar-86

"The Fractional Quantum Hall Effect"
Electrotechnical Institute, Japan, Mar-86

"Collective Excitations in the Fractional Quantum Hall Effect"

Research Institute for Iron, Steel and Other Metals, Japan, Mar-86

"Collective Excitations in the Fractional Quantum Hall Effect"
Institute for Solid State Physics, Japan, Mar-86

"The Fractional Quantum Hall Effect"
University of Hong Kong, China, Feb-86

"The Fractional Quantum Hall Effect"
University of Kyushu, Japan, Feb-86

"The Fractional Quantum Hall Effect"
Queen's University, Kingston, ON, Canada, Nov-85

"The Fractional Quantum Hall Effect"
University of Manitoba, Winnipeg, MB, Canada, Oct-85

"The Fractional Quantum Hall Effect"
Memorial University of Newfoundland, Canada, Oct-85

"The Fractional Quantum Hall Effect"
Max-Planck Institute, Grenoble, France, May-85

"The Fractional Quantum Hall Effect"
L'Ecole Normale Superieure, Paris, France, May-85

"The Fractional Quantum Hall Effect"
IBM T.J. Watson Research Center, Yorktown Heights, NY, Mar-85

"The Fractional Quantum Hall Effect"
University of Illinois, Champaign, IL, Feb-85

"The Fractional Quantum Hall Effect"
McMaster University, Hamilton, ON, Canada, Nov-84

"The Fractional Quantum Hall Effect"
University of Toronto, Toronto, ON, Canada, Oct-84

"The Fractional Quantum Hall Effect"

Cornell University, Ithaca, NY, Oct-84

"Edge States and the Quantum Hall Effect"
University of Sherbrooke, Sherbrooke, QC, Canada, Feb-84

"Edge States and the Quantum Hall Effect"
McGill University, Montreal, QC, Canada, Feb-84

"Edge States and the Quantum Hall Effect"
St. Francis Xavier University, Antigonish, NS, Canada, Oct-83

"Edge States and the Quantum Hall Effect"
Dalhousie University, Halifax, NS, Canada, Oct-83

"Quantum Hall Effect in a Periodic Potential"
E.T.H. Zurich, Switzerland, Jun-83

"Quantum Hall Effect in a Periodic Potential"
Imperial College, London, England, UK, May-83

"Quantum Hall Effect in a Periodic Potential"
University of Bristol, England, UK, May-83

"Quantum Hall Effect in a Periodic Potential"
Daresbury National Lab, England, UK, May-83

"Quantum Hall Effect in a Periodic Potential"
Free University of Amsterdam, Netherlands, May-83

"Quantum Hall Effect in a Periodic Potential"
Cambridge University, Cambridge, England, UK, May-83

"Quantum Hall Effect in a Periodic Potential"
University of Geneva, Switzerland, Feb-83

"Point Contact Spectroscopy"
Max-Planck Institute, Stuttgart, Germany, Nov-82

"Point Contact Spectroscopy"

University of Toronto, Toronto, ON, Canada, Nov-81

"Point Contact Spectroscopy"
Oak Ridge, TN, Oct-81

"Umklapp Electron-Electron Scattering in the Alkali Metals"
University of Alberta, Edmonton, Alberta, Canada, Jan-81

"Susceptibility Anisotropy in Transition Metal Dichalcogenides"
University of Alberta, Edmonton, Alberta, Canada, Jan-81

"Susceptibility Anisotropy in Transition Metal Dichalcogenides"
Simon Fraser University, Edmonton, Alberta, Canada, Jan-81

"Susceptibility Anisotropy in Transition-Metal Dichalcogenides"
Michigan State University, East Lansing, MI, Nov-80

"Alkali Metal Quasiparticle Dynamics"
National Research Council, Ottawa, ON, Canada, Nov-80

"Umklapp Electron-Electron Scattering in the Alkali Metals"
University of Ottawa, ON, Canada, Sep-80

"Electron-Electron Scattering in Metals"
Queen's University, Kingston, ON, Canada, Feb-80

Dalhousie University, Halifax, NS, Canada, Jan-80

"Electron-Electron Scattering in Metals"
St. Francis Xavier University, Antigonish, NS, Canada, Jan-80

"Relativistic Density Functional Formalism"
Argonne National Labs. Argonne, IL, Jan-79

"Relativistic Density Functional Formalism"
National Research Council, Ottawa, ON, Canada, Feb-78

"Excitonic BEC in Bilayer Quantum Hall Systems"
University of Colorado, Boulder, CO, Jun-05
"Off-Diagonal Long Range Order in the Quantum Hall Effect"

American Physical Society St. Louis, MO, 989

"Fractional Hall Effect in Multi-Component Systems"
Eighth International Conference, Grenoble, France, 989

"The Fractional Quantum Hall Effect"
5th International Conference, Oulu, Finland, 1987

"Fibonacci Superlattices"
NATO ASI on Interfaces, Superlattices and Quantum Wells Banff, Alberta, Canada, 1987

"Electrons in Strong Magnetic Fields"
Canadian Association of Physicists Congress, Toronto, ON, Canada, 1987

"The Fractional Quantum Hall Effect"
Gordon Research Conference, Wolfeboro, NH, 1986

"Classical Plasmas, Quantum Fluids and the Fractional Quantum Hall Effect"
Canadian Association of Physicists Congress, Fredericton, NB, Canada, 1985

"The Quantum Hall Effect"
International Center for Theoretical Physics, Trieste, Italy, 1983

"Relativistic Effects in Metals"
NATO ASI on Relativistic Effects in Atoms, Molecules, and Solids Vancouver, BC, Canada, 1981
"Electron-electron Interactions in Simple-metals and Transition-metals"
International Conference on Transport Metals, Ottawa, ON, Canada, 1981