

# PHD PHYSICS DEGREES AWARDED IN CANADIAN UNIVERSITIES

## DOCTORATS EN PHYSIQUE DÉCERNÉS PAR LES UNIVERSITÉS CANADIENNES

DECEMBER 2008 TO NOVEMBER 2009 / DÉCEMBRE 2008 À NOVEMBRE 2009

### CARLETON UNIVERSITY

ARCHAMBAULT, J.P., "Monte Carlo Studies of the ATLAS Forward Calorimeter and of the Supersymmetric Top Quark", (M. Vincter), February 2009, now at: Ionizing Radiation Standards, National Research Council.

KING, B., "Accurate Measurement of the X-Ray Coherent Scattering Form Factors of Tissues", (P. Johns), September 2009, now a Postdoctoral Research Fellow at the University of Newcastle/Calvary Mater Hospital, Newcastle, New South Wales, Australia

LARUSSA, D., "The effect of low-energy electrons on the response of ion chambers to ionizing photon beams", (D. Rogers), September 2009, now a Medical Physics Resident at the Ottawa Hospital Regional Cancer Centre.

OLARIU, E., "Analysis of water diffusion in white matter using a hydration layers model", (I. Cameron), September 2009.

OLIVIER, S., "Measurement of the Survival Probability and Determination of the Three-Flavor Neutrino Oscillation Parameters at the Sudbury Neutrino Observatory", (A. Bellerive), August 2009, now a Research Associate at: CEA, Saclay, France.

TESIC, G., "Extraction of Active and Sterile Neutrino Mixing Parameters with the Sudbury Neutrino Observatory", (A. Bellerive), November 2008, now a Research Associate at University McGill, Montreal.

WANG, L., "Study of the replacement correction factors for ionization chamber radiation dosimetry by Monte Carlo simulations", (D. Rogers), April 2009, now a Research Associate at MD Anderson Cancer Centre, Houston TX.

### DALHOUSIE UNIVERSITY

CHEVRIER, V., "First Principles Studies of Si as a Negative Electrode Material", (J. Dahn), October 2009, now a Post Doctoral Fellow, Massachusetts Institute of Technology.

FERGUSON, P., "Studies of Tin-Transition Metal-Carbon Alloys Prepared by Mechanical Milling for Lithium-Ion Battery Negative Electrodes", (J. Dahn), October 2009.

JAKUBINEK, M., "Thermal and Electrical Conductivity of Carbon Nanotube Materials",

(J. Dahn), October 2009, now a Post Doctoral Fellow, Department of Chemistry, Dalhousie University.

SANDERSON, R., "Application of a Spatial Composition Spread Approach to the Preparation of Thin Film Cuprate Superconductor Libraries", (K. Hewitt), October 2009, now a Sputtering Technologist Institute for Research in Materials, Dalhousie University.

TODD, A., "Tin Transition Metal Carbon Alloys for Li-Ion Battery Negative Electrodes" (J. Dahn), October 2009, now a Research Associate, Institute for National Measurement Standards, Nation Research Council, Canada.

### ÉCOLE POLYTECHNIQUE

BUSSIÈRES, F., « Intrication temporelle et communication quantique », (N. Godbout). En janvier 2010 sera: Boursier postdoctoral au GAP Optique, Université de Genève, Suisse

GIRARD-LAURIAULT, P-L., « Polymérisation par plasma à pression atmosphérique: caractérisation des dépôts et leurs applications en biotechnologies », (M. Wertheimer), mai 2009, présentement boursier postdoctoral, Federal Institute for Materials Research and Testing, Berlin, Allemagne.

HASSANI, A., "Plasmonic and Nano-Photonics Sensors from Visible to Terahertz", (M. Skorobogati), septembre 2009, présentement boursier postdoctoral industriel à l'INRS, Varennes, P.Q.

### GUELPH-WATERLOO PHYSICS INSTITUTE

#### University of Guelph

AHMED, M.A.M.S., "Dynamics and Induced Structure of Intrinsically Disordered Myelin Proteins by NMR Spectroscopy", (V. Ladizhansky), August 4, 2009, now a Post Doctoral Research Fellow in the Department of Physics at the University of Guelph, Guelph, Ontario, Canada.

PHILLIPS, A., "Structure of  $^{186,188}\text{Os}$  Studied with ( $^3\text{He},d$ ) Reactions", (P. Garrett and C. Svensson), August 19, 2009, now a part time Post Doctoral Research Fellow in the Department of Physics at the University of Guelph, Guelph, Ontario, Canada.

SCHUMAKER, M., "Coulomb Excitation Structure Studies of  $^{21}\text{Ne}$ ,  $^{20,21}\text{Na}$ ", (C. Svensson), April 21, 2009, now a Post Doctoral Research Fellow at the Sudbury Neutrino Observatory (SNO-LAB), Sudbury, Ontario, Canada.

VIVCHARUK, V., "Phase Behaviour of DOPC/DPPC/Cholesterol Mixtures Revealed by  $^2\text{H}$  NMR Spectroscopy and Confocal Fluorescence Microscopy", (J. Davis and F. Sharom), May 7, 2009, now a Research Associate at the Department of Medical Physics, Juravinski Cancer Centre, Hamilton, Ontario, Canada.

#### University of Waterloo

AZIMLU SHANJANI, M., "A Study of Molecular Clouds Associated with H II Regions", (M. Fich), September 14, 2009, now a Post Doctoral Research Fellow in the Department of Physics and Astronomy at the University of Western Ontario, London, Ontario, Canada.

BROWNSTEIN, J., "Modified Gravity and the Phantom of Dark Matter", (R. Mann and J. Moffat), June 1, 2009, now a Post Doctoral Researcher at the Perimeter Institute for Theoretical Physics, Waterloo, Ontario, Canada.

JALILI, H., "Materials Physics of Half-Metallic Magnetic Oxide Films by Pulsed Laser Deposition: Controlling the Crystal Structure and Near-Surface Properties of  $\text{Sr}_2\text{FeMoO}_6$  and  $\text{CrO}_2$  Films", (K. T. Leung), January 15, 2009, now a Post Doctoral Research Fellow at the Massachusetts Institute of Technology, Somerville, Massachusetts USA

MADAIAH, C., "Quantum Walks - Its Dynamics and Applications", (R. Laflamme), August 17, 2009. Follow up information is currently unavailable.

PASSERINI, P., "On Holographic Non-local Operators and Multiple M2-Branes Theories", (J. Gomis and R. Myers), June 1, 2009, now a Postdoctoral Research Fellow at Humboldt University zu Berlin, Berlin, Germany.

QI, D., "On Near-Free-Surface Dynamics of Thin Polymer Films", (J. Forrest), April 16, 2009, now a Postdoctoral Research Fellow in the Department of Physics and Astronomy, University of Waterloo, Waterloo, Ontario, Canada.

SHERIDAN, L., "Reference Frames and Algorithms for Quantum Information Processing", (R. Laflamme and M. Mosca),

August 13, 2009, now a Post Doctoral Research Fellow at the Centre for Quantum Technologies, National University of Singapore, Singapore.

STASIAK, P., "Theoretical Studies of Frustrated Magnets and Dipolar Interactions", (M. Gingras), December 7, 2009, to start January 2010 as a Research Assistant and IT Technician at the University of Reading, Whitenights Reading, United Kingdom.

WAN, Y., "Emergent Matter of Quantum Geometry", (Z.-Y. Chen and L. Smolin), June 11, 2009, now Post Doctoral Research Fellow at Kinki University, Higashi-Osaka, Japan.

WAPLER, M., "Holographic Experiments on Defects", (R. Myers), August 19, 2009, now a Research Associate at the Center for Quantum Spacetime (CQeST), Sogang University, Korea.

## McMASTER UNIVERSITY

ABU-ARISH, A., "Spatial Localization and Mobility of the Ran GTPase and the Bicoid protein in Live Systems", (Cecile Fradin), December 2008, now a post doctoral fellow at McGill university in the group of Dr. Paul Wiseman.

CHEN, J., "Study of the Astrophysically Important States in  $^{26}\text{Si}$  via the  $p(^{27}\text{Si},d)^{26}\text{Si}$  Reaction and the  $p(^{25}\text{Al},p)^{25}\text{Al}$  Elastic Scattering", (Alan Chen), June, 2009; Jun Chen will stay in the department for a bit longer to continue work with Alan Chen.

CROLL, A., "Droplets, films and edges: studies of the physical character of diblock copolymers", (Kari Dalnoki-Veress), February, 2009, now a post doctoral fellow at UMASH at Amherst in the Polymer Science and Eng. Dept.

KRISTOFFERSEN, A., "Terahertz Spectroscopy of Optically Excited  $\text{YBa}_2\text{Cu}_3\text{O}_7$  Thin Films", (John Preston), April 2009.

NGUYEN, J., "The Linewidth and Hyperfine a Constant of the  $2P_{1/2}$  State of a Magnesium Ion Confined in a Linear Paul Trap", (Brian King), October, 2009, now a post doctoral fellow at Northwestern University in Evanston, Illinois.

NING, F., " $^{75}\text{As}$  and  $^{59}\text{Co}$  NMR STUDY of the ELECTRON DOPED  $\text{Ba}(\text{Fe}_{1-x}\text{Co}_x)^2\text{As}_2$ ", (Takashi Imai), October 2009, now staying in the department to work with Dr. Takashi Imai.

PETITCLERC, N., "Dense Core Formation Simulations In Turbulent Molecular Clouds With Large Scale Anisotropy", (James Wadsley), April 2009, moving on to a job in quantitative finance for a company in Toronto.

RAEGER, A., "Micromechanical and Optical Experiments on Soft Condensed Matter

Systems", (Kari Dalnoki-Veress), February 2009, now a post doctoral fellow, University of Freiburg, Freiburg, Germany.

RODRIGUEZ, J., "Study of the magnetic properties of the Ising system  $\text{LiHo}_x\text{Y}_{1-x}\text{F}_4$  using muon spin rotation/relaxation", (Graeme Luke), June 2009, now a post doctoral fellow at the PSI laboratory in Villigen, Switzerland.

WOODLEY, K., "The Globular Cluster System of NGC 5128", (Bill Harris), October, 2009, now a post doctoral Fellow at UBC.

## MEMORIAL UNIVERSITY OF NEWFOUNDLAND

BLOKHINA, M., "Shoaling Internal Solitary Waves", (D. Bourgault), October 2009.

BROMBEREK, M., "Phase Transitions in  $\text{K}_{1-x}(\text{NH}_4)_x\text{H}_2\text{PO}_4$  Single Crystals", (M. Clouter), May 2009, now a Post Doctoral Fellow at the Department of Physics and Physical Oceanography, Memorial University, St. John's, NL.

CHATMAN, S., "Electronic Properties of Electrodeposited Semiconductor Junctions", (K. Poduska), October 2009, now a Post Doctoral Fellow at the Pacific Northwest National Laboratory in Richland, WA, USA.

LIKO, T., "Extending the Isolated Horizon Phase Space to String-Inspired Gravity Models", (I. Booth), May 2009, now a Post Doctoral Fellow at the Department of Physics, Penn State University, University Park, PA, USA.

## QUEEN'S UNIVERSITY

CHEN, X., "Numerical Studies of the Combined-Effects of Interactions and Disorder at Metal-Insulator Transitions", (R.J. Gooding), October 2009, now a Postdoctoral Fellow in Hong Kong.

MacLELLAN, R., "The energy calibration for the solar neutrino analysis of all three phases of the Sudbury Neutrino Observatory", (A.B. McDonald/A.L. Hallin), October 2009, now Postdoctoral Fellow at the University of Alabama.

MARK, A., "Domain Boundaries of the 5x5 DAS Reconstruction", (A.B. McLean), October 2009, now Postdoctoral Fellow at the University of Liverpool, UK.

MARTIN, R., "An Analysis of the  $^3\text{He}$  Proportional Counter Data from the Sudbury Neutrino Observatory Using Pulse Shape Discrimination", (A.L. Hallin/A.B. McDonald), October 2009, now Postdoctoral Fellow at the University of California, Berkeley.

WANG, D., "An excitonic approach to the ultrafast optical response of semiconductor nano-struc-

tures", (M.M. Dignam), May 2009, now Postdoctoral Fellow at the University of Arkansas.

WEYMOUTH, A., "Scanning Tunneling Microscopy Studies of Small Aromatic Molecules on Semiconductor Surfaces", (A.B. McLean), October 2009, now Postdoctoral Fellow at the University of Regensburg, Germany.

WHITE, S., "A Barkhausen Noise Testing System for CANDU® Feeder Tubes", (L. Clapham), October 2009, now working at Queen's University and Royal Military College.

WRIGHT, A., "Robust Signal Extraction Methods and Monte Carlo Sensitivity Studies for the Sudbury Neutrino Observatory and SNO+ Experiments", (M.C. Chen), October 2009, now Postdoctoral Fellow at Princeton University.

ZHANG, Y., "Polymer electrochemical light-emitting devices and photovoltaic cells", (J. Gao), October 2009, now a Research Associate at the National Research Council.

## SIMON FRASER UNIVERSITY

BUKER, J.W., "The electroluminescence and scanning tunneling microscopy of single molecules", (George Kirzenow), June 2009.

GILLBERG, D. I., "Discovery of Single Top Quark Production", (Dugan O'Neil), April 2009.

KARDASZ, B., "Anisotropies and spin dynamics in ultrathin magnetic multilayer structures", (Bret Heinrich), April 2009, now a research Associate for the Surface Science Laboratory, SFU.

LI, W., "Hot electron transport through molecular diodes", (Karen Kavanagh), April 2009.

## UNIVERSITÉ DE MONTRÉAL

BRELIER, B., « Étude de la production associée  $\text{ZH}/\text{WH}$ ,  $\text{H} \rightarrow \gamma\gamma$  avec le détecteur ATLAS », (G. Azuelos), décembre 2008, cotutelle avec l'Université Joseph Fourier.

FERLAND, J., « Potentiel d'observation de la technique à l'aide de l'expérience ATLAS », (G. Azuelos), juillet 2009, présentement programmeur-analyste au RQCHP à l'Université de Montréal.

GIRARD, F., « Importance de l'hélice 4 et des bouches interhélicales du domaine I dans le mécanisme de formation des pores par la toxine Cry1Aa du bacille de Thuringe », (R. Laprade), septembre 2009, complète présentement une maîtrise en physique médicale à l'Université de Montréal.

IDARRAGA, J., "Vector Boson Scattering at High Energy at the LHC", (G. Azuelos et C. Leroy),

janvier 2009, présentement boursier postdoctoral à l'Université de Montréal.

IMBEAULT, M., « Sujets variés concernant les désintégrations hadroniques mésons B », (D. London), juin 2009.

LEBEL, C., « Effets de rayonnement sur les détecteurs au silicium à pixels du détecteur ATLAS », (C. Leroy), août 2008, présentement boursière postdoctorale à l'Université de Montréal.

MARQUETTE, I., « Superintégrabilité avec intégrales d'ordre trois, algèbres polynomiales et mécanique quantique supersymétrique », (P. Wintemitz), février 2009.

MORALES, L., "A new Avalanche Model for Solar Flares", (P. Charbonneau), avril 2009.

MUNGER, D., « Stabilité magnétohydrodynamique des cuves d'électrolyse : aspects physiques et idées nouvelles », (A. Vincent), août 2008.

POLLAK, J., « Développement et utilisation de sources de plasma pour stériliser des instruments médicaux », (M. Moisan), février 2009.

VAN GROOTEL, V., « Étude des étoiles de la branche horizontale extrême par l'astérosismologie », (G. Fontaine), septembre 2008, cotutelle avec l'Université de Toulouse III – Paul Sabatier.

## UNIVERSITÉ DE SHERBROOKE

CHASSÉ, D., « Effets Josephson généralisés entre antiferromagnets et entre supraconducteurs antiferromagnétiques », (André-Marie Tremblay), octobre 2009, présentement en maîtrise en mathématiques financières à l'université de Montréal.

LEBOEUF, D., « Reconstruction de la surface de Fermi dans l'état normal d'un supraconducteur haute Tc: une étude du transport électrique sous champ magnétique intense », (Louis Taillefer) octobre 2009, présentement chercheur postdoctoral au LNCMI à Toulouse (France).

## UNIVERSITÉ DU QUÉBEC À TROIS-RIVIÈRES

LAROCHE, P., « La structure de l'eau liquide: une étude thermique par spectroscopie infrarouge », (Camille Chapados), février 2009, présentement enseignant de physique au collégial.

RICHARD, M.A., « Adsorption de gaz sur les matériaux microporeux: modélisation, thermodynamique et applications », (Richard Chahine), février 2009, présentement chez Hydro-Québec.

## UNIVERSITÉ LAVAL

AUBRY, J.-F., « Calcul de dose avec images de tomographie à faisceau mégavoltage conique pour le développement de la radiothérapie guidée par la dose », (L. Beaulieu), mars 2009, présentement physicien médical, Département de radio-oncologie du CHUM, Montréal.

BERNHARDT, J., "Stark broadening approach for measuring the plasma density inside a filament induced by a femtosecond laser pulse in a gas or gas mixture", (S.L. Chin), janvier 2009.

JEANNETTE, D., « Contributions à l'étude des résonateurs laser à l'état solide munis de miroirs coniques et holographiques », (M. Piché), avril 2009.

LAGROIS, D., « Regard sur l'évolution dynamique des régions HII géantes. Interprétation des mouvements du gaz ionisé », (G. Joncas), juin 2009, présentement boursier Postdoctorat, Université Laval, Québec.

## UNIVERSITY OF ALBERTA

AHMED, H., "In situ light jet energy calibration using semileptonic top quark decay with the ATLAS experiment", (D. Gingrich), June 2009.

CONNELL, P., "Particle Propagation in a Higher-Dimensional Black Hole Spacetime", (V. Frolov), November 2009.

DOGAN, F., "Fermion-Spin Interactions in 1D in the Dilute Limit", (F. Marsiglio), November 2009.

EGILMEZ, M., "Magnetotransport and magnetoresistive anisotropy in perovskite manganites", (J. Jung), November 2009.

FAN, I. H.-J., "Muonium dynamics in Si and Ge probed via optical- $\mu$ SR", (K. Chow), November 2009.

GAO, J., "Charge carrier photogeneration and transport in pentacene thin films", (F. Hegmann), November 2009.

MA, R., "Vortex Dynamics and Supercurrents in Bi-2212 Superconducting Single Crystals and Films", (J. Jung), November 2009.

MANSOUR, A., "Intrinsic Disorder Effects and Persistent Current Studies of  $YBa_2Cu_3O_{7-\delta}$  Thin Films and Superconducting Tunnel Junctions", (K. Chow), November 2009.

MUNROE, J., "Internal wave generation by intrusions, topography and turbulence", (B. Sutherland), November 2009.

NAGHIZADEH, M., "Parametric reconstruction of multidimensional seismic records", (M. Sacchi), November 2009.

POPOV, K., "Laser based acceleration of charged particles", (R. Sydora, W. Rozmus), November 2009.

SHOOM, A., "Distorted Black Holes and Black Strings", (V. Frolov), November 2009.

TURKOGLU, E., "A magnetotelluric investigation of the Arabia-Eurasia Collision in Eastern Anatolia", (M. Unsworth), June 2009.

ZIKOVSKY, J., "Nanometer Scale Connections to Semiconductor Surfaces", (R. Wolkow), November 2009.

## UNIVERSITY OF BRITISH COLUMBIA

CHENG, J., "Quantification and Optimization Techniques for Dynamic Brain Imaging in High Resolution Positron Emission Tomography", (Vesna Sossi), May 2009.

DAVIS, S., "Progress in Globular Cluster Research: Insights from NGC 6397 and Messier", (Harvey Richer), May 2009.

FULSOM, B., "A Study of  $B \rightarrow c\bar{c}b\gamma K$  in the BABAR Experiment", (Christopher Hearty), May 2009.

GOODVIN, G., "Study of Polaron Properties Using the Momentum Average Approximation", (Mona Berciu), January 2009.

IVES, J., "The Measurement of the Rare Decay  $K^+$  to  $\pi^+$ , Neutrino and Anti-neutrino", (Douglas Bryman), May 2009.

KOLIND, S., "Myelin Water Imaging: Development at 3.0T, Application to the Study of Multiple Sclerosis, and Comparison to Diffusion Tensor Imaging", (Alex MacKay), May 2009.

MESTROVIC, A., "Integration of Daily Imaging, Plan Adaptation and Radiation Delivery for Near Real-Time Adaptive Radiation Therapy", (Karl Otto), May 2009.

PEL, J., "A Novel Electrophoretic Mechanism and Separation Parameter for Selective Nucleic Acid Concentration Based on synchronous Coefficient of Drag Alteration (SCODA)", (Andre Marziali), November 2009.

SHIEH, B., "Holographic Effective Theories for Strongly Coupled Physics", (Don Witt), November 2009.

TSUI, Y., "Through-going Muons at the Sudbury Neutrino Observatory", (Chris Waltham), May 2009.

## UNIVERSITY OF CALGARY

ABU AJAMIEH, I., "Optical Properties of Driven Dense Atomic Gases", (B. Sanders)

BORVAYEH, L., "High Resolution Infrared Study of Vibration-Torsion-Rotation Interactions in Ethane-Like Molecules", (N. Moazzen Ahmadi)

RANGEL BALTAZAR, M.A., "The Objective Setting of Tolerances in RT", (P. Dunscombe).

SANGALLI, L., "Sounding Rocket Probing of the Ionospheric Collisional Transition Region", (D. Knudsen).

SHREIM, A., "On the Analysis of the State Space Networks of Discrete Dynamical Systems", (M. Paczusi).

SPANSWICK, E., "Global Evolution of the Substorm Injection Region", (E. Donovan).

WANG, Z., "Large Cross Phase Modulation using Double Electromagnetically Induced Transparency", (B. Sanders).

## UNIVERSITY OF MANITOBA

FALLIS, J., "The Masses of Proton-Rich Isotopes of Nb, Mo, Tc, Ru and Rh and Their Influence on the Astrophysical rp and vp Processes", (K.S. Sharma), October 2009.

QIAO, H., "Fundamental Studies of MALDI and an Orthogonal TOF Mass Spectrometer", (E.W. Ens), May 2009.

VIDDAL, C., "Non-Equilibrium Effects in nanoparticulate Assemblies, Bond-Disordered Ferromagnets, and Collections of Two-Level Subsystems", (R.M. Roshko), February 2009.

## UNIVERSITY OF OTTAWA

AL-MARZOUQ, S., "Luus-Jaakola optimization procedure for some problems in optics", (R. Hodgson), December 11, 2008, now an Assistant Professor, Department of Physics, King Fahd University of Petroleum & Minerals, Saudi Arabia.

AL-QADI, K., "Magnetic Properties of the Icosahedral Quasicrystals  $Ag_{50}In_{36}Gd_{14}$  and  $Zn_{77}Fe_7Sc_{16}$ , and the 1/1 Approximant  $Ag_{50}In_{36}Gd_{14}$ ", (Z. Stadnik) April 8, 2009, now a laboratory Technician at the University of Ottawa.

GERTSVOLF, M., "Controlled Material Modification of Transparent Dielectrics by Femtosecond Laser Pulses", (P. Corkum), September 8, 2009, now a Research Associate at the Institute for National Measurement Standards of the National Research Council in Ottawa.

PREVOST, J.P., "Theoretical Studies of the First-Row Transition Metals: Ground State and Thermal Properties", (D. Rancourt), April 29, 2009, now a sessional Lecturer at the University of Ottawa.

SMITH, J., "A high-pressure study of the heavy alkaline earth hydrides", (S. Desgreniers), April 16, 2009, now a Postdoctoral Fellow at the University of Ottawa.

WANG, P., "Magnetic properties and Mössbauer spectroscopy of novel alloys", (Z. Stadnik), May 8, 2000, now a research assistant at the University of Ottawa.

WHEELDON, J., "Group Theoretic Expressions of Optical Singularities in Photonic Crystals", (H. Schriemer), December 16, 2008, now a Postdoctoral Fellow, School of Information Technology, University of Ottawa.

ZHANG, Z., "Polarization Effects in Optical Fiber Communication and Distributed Vibration Sensing Systems", (X. Bao / L. Chen), March 19, 2009, now a research Scientist at the Wellman Center for Photomedicine at Massachusetts General Hospital, USA.

## UNIVERSITY OF SASKATCHEWAN

MA, J., "Ion Velocity Distributions in Inhomogeneous and Time-Dependent Auroral Situations", (J.P. St-Maurice), April 2009.

WILLKS, R., "X-ray Spectroscopy of Organic Materials", (Alex Moewes & Gap Soo Chang), October 2009, now a Post Doc in Germany.

YAO, Y., "Structures, Bonding and Transport Properties of High Pressure Solids", (John Tse), April 2009, now an Assistant Research Officer, Steacie Institute for Molecular Sciences, National Research Council of Canada.

## UNIVERSITY OF TORONTO

ADAMSON, R.B.A., "Characterization of Quantum States of Light", (A.M. Steinberg), June 2009, PDF, now doing Medical Imaging at Dalhousie University, Halifax, NS.

ANSTEY, J.A., "Influence of the Quasi-biennial Oscillation on Interannual Variability in the Northern Hemisphere Winter Stratosphere", (T.G. Shepherd), June 2009, now PDF, Canadian Climate Centre for Modeling and Analysis, Victoria, BC.

DONG, G., "Modeling and Experimental Results on Stochastic Model Reduction, Protein Maturation, Macromolecular Crowding, and Time Varying Gene Expression", (D. McMillen), November 2009, now a Postdoctoral Fellow, University of California, San Francisco, CA, U.S.A.

EXTAVOUR, M.H.T., "Fermions and Bosons in an Atom Chip", (J.H. Thywissen), November 2009, now a Quantitative Analyst, Market Risk at Ontario Power Generation, Toronto, ON.

FORD, J.G., "Gravity and Black Holes in Four and Five Dimensions", (A.W. Peet), November 2009, now an actuary, Manulife Financial, Toronto, ON.

FORTESCUE, B.P., "Application and Manipulation of Biparte and Multiparte Entangled Quantum States", (H.-K. Lo), June 2009, now a PDF, University of Calgary, AB.

GAO, D., "D-Brane Chan-Paton Factors and Orientifolds", (K. Hori), June 2009, now a PDF, University of Tokyo, Japan.

GIANG, D., "The Study of Inhomogeneous Cosmologies through Spacetime Matchings", (C.C. Dyer), November 2009, now teaching.

GREENHALGH, C.A., "Nonlinear Multicontrast Microscopy for Structural and Dynamic Investigations of Myocytes", (V. Barzda), March 2009, now in and Development, ELCAN Optical Technologies, Midland, ON.

HARB, M., "Investigating Photoinduced Structural Changes in Si Using Femtosecond Electron Diffraction", (R.J.D. Miller), March 2009, now a PDF at Lund University, Sweden.

HEBEISEN, C.T., "Generation, Characterization and Applications of Femtosecond Electron Pulses", (R.J.D. Miller), June 2009, now NSERC PDF, NRC Staeie Inst for Molecular Sciences, Ottawa, ON.

HO, S.Y., "Approximation Techniques for Large Finite Quantum Many-Body Systems", (D.J. Rowe), November 2009, now a Research Fellow, Centre for Quantum Technologies, National University of Singapore (on attachment as) PDF, Institute of Condensed Matter Theory, University of Illinois at Urbana-Champaign, USA.

HUANG, J., "Seismic Imaging of Gas Hydrate Reservoir Heterogeneities", (B. Milkereit), November 2009, now a Visiting Scholar, National Lab in the Geological Survey, Ottawa, ON.

MACQUEEN, D.M., "Search for New Physics in the Missing Transverse Energy + Dijet Channel at CDF", (R.S. Orr), June 2009, now a Lab Instructor at University of Regina, SK.

MICHALIK, A.M., "Theory of Ultrafast Electron Diffraction", (J.E. Sipe), March 2009, now a looking for a position.

ROURKE, P.M.C., "Electronic States of Heavy Fermion Metals in High Magnetic Fields", (S.R. Julian), June 2009, now a PDF, University of Bristol, U.K.

ROY, C., "Quantum Theory of Phonon-Mediated Decoherence and Relaxation of Two-Level Systems in a Structured Electromagnetic Reservoir", (S. John), November 2009, now looking for a position.

SHAW, T.A., "Energy and Momentum Consistency in Subgrid-Scale Parameterization for Climate Models", (T.G. Shepherd), November 2009, now a Postdoctoral Fellow at Center for Atmosphere Ocean Studies, Courant Institute of Mathematical Sciences, New York University, NY, U.S.A.

SUN, L., "Attenuation and Velocity Dispersion in the Exploration Seismic Frequency Band", (B. Milkereit), June 2009, now a Research Geophysicist, CGG Veritas, Beijing, China.

TOOHEY, M.R., "Comparing Remote Sounding Measurements of a Variable Stratosphere", (K. Strong), November 2009, now a PDF at IFM-Geomar, Kiel University, Kiel, Germany.

TUREL, C.S., "Probing Superconducting Order Parameter Symmetry Using Point-Contact Andreev Reflection Spectroscopy", (J.Y.T. Wei), November 2009, now a looking for a position.

WILSON, B.J., "A Method of Generating Exact Perturbations in General Relativity", (C.C. Dyer), November 2009, now looking for a position.

ZHAO, Y., "Quantum Cryptography in Real-life Applications: Assumptions and Security", (H.-K. Lo), November 2009, now a NSERC PDF at California Institute of Technology, CA, U.S.A.

## UNIVERSITY OF VICTORIA

BIRD, C.S., "The Early Universe as a Probe of New Physics", (M. Pospelov), May 2009, now self employed as a consultant.

BUSH K.K., "Monte Carlo Dose Calculations in Advanced Radiotherapy", (Dr. Jirasek / S. Zavgorodni), November 2009, now a Postdoctoral Fellow at BC Cancer Agency's Vancouver Island Centre.

FRASER, W.C., "The Kuiper Belt Size Distribution: Constraints on Accretion", (J.J. Kavalars / C.J. Pritchett), November 2008, now a Postdoctoral Scholar in Planetary Sciences at California Institute of Technology.

FRIESEN R.K., "The Initial Conditions of Clustered Star Formation: An Observational Study of Dense Gas in the Ophiuchus Molecular Cloud", (J. di Francesco / C.J. Pritchett), November 2009, now a Postdoctoral Fellow, North American ALMA Science Center, National Radio Astronomy Observatory.

HAMANO, K., "Measurement of Branching Fractions and Form Factor Parameters of  $B \rightarrow D^{*l}v$  and  $B \rightarrow D^{*l}v$  Decays at BaBar", (R.V. Kowalewski), May 2009, now a Postdoctoral researcher in Japan Proton Accelerator Research Complex (J-PARC).

HSIAO Y.C.E., "Spectroscopic diversity of Type Ia supernovae", (C.J. Pritchett), November 2009, now a Postdoctoral Fellow, UC Berkeley, JBSL - Space Sciences Laboratory.

KIRK H.M., "Star Formation in the Perseus Molecular Cloud: Observations of Dynamics and Comparison to Simulations", (D. Johnstone / D. VandenBerg), November 2009, now a Postdoctoral Fellow, Smithsonian Center for Astrophysics, Harvard University.

LUDLOW, A.D., "The Structure and Substructure of Cold Dark Matter Halos", (J. Navarro), May 2009, now a Postdoctoral researcher in Argelander-Institut für Astronomie, Germany.

NUGENT, I.M., "Precision Measurements of Tau Lepton Decays", (M. Roney), May 2009, now a Postdoctoral Fellow at TRIUMF and a member of the ATLAS Collaboration.

THANJAVUR K.G., "Cosmic Applications of Gravitational Lens Assisted Spectroscopy (GLAS)", (D. Crampton/J. Willis), May 2009, now a Research Associate, University of Victoria.

## UNIVERSITY OF WESTERN ONTARIO

ALFORD, J., "Star formation: Submillimetre observations and data reduction techniques", (B. Chronik), October 2009.

ATTARD, M., "Star formation: Submillimetre observations and data reduction techniques", (M. Houde), September 2009.

de VET, S., "Craters in Granular Media", (J. de Bruyn), June 2009.

GILBERT, A., "From asteroids to comets: Gas and dust production of the small-bodies in the solar system", (P. Wiegert), July 2009.

HASSANZADEH, A., "Waveguide Evanescent Field Fluorescence Microscopy", (S. Mittler), April 2009.

LIU, J., "Growth and characterization of hafnium silicate films", (W. Lennard), December 2009.

MOKRY, C., "Growth and characterization of light-emitting silicon nanocrystals", (P. Simpson), December 2009.

NGUYEN, H.T., "Dipole-Exchange Spin Waves in Magnetic Nanomaterials", (M.G. Cottam), May 2009.

NISTOR, R., "Simulation of charge transfer and orbital rehybridization in molecular and condensed matter systems", (M. Muser), April 2009.

OPPONG, F., "Rheology, Microrheology and Structure of Soft Materials", (J. de Bruyn),

April 2009.

REZAEI A., "Control of average-spacing of OMCVD grown gold nanoparticles", (S. Mittler), December 2009.

## UNIVERSITY OF WINDSOR

DANIEL, J.R., "Optical Properties of Nanostructures and Applications to Surface Enhanced Spectroscopy", (R. Aroca), March 2009, now a Postdoctoral Fellow in Fribourg, Switzerland.

QIXUE, W., "Hyperfine Structure and Hyperfine Transitions of  $^3\text{He}$ ", (Dr. G. Drake), May 2009, now a Postdoctoral Fellow in the Department of Physics at the University of Windsor.

## YORK UNIVERSITY

AKINGUNOLA, A., "Martian Water Cycle Modeling With the Second Generation of the Global Mars Multiscale Model", (J. McConnell), June 2009, now a Postdoctoral Fellow, Canadian Space Agency, St. Hubert, Quebec.

BEATTIE, S., "Atom Interferometric Studies of Light Scattering - A New Technique For Measuring Atomic Recoil", (A. Kumarakrishnan), June 2009, now a Postdoctoral Fellow, Department of Physics, University of Cambridge, Cambridge, UK.

BORBELY, J., "Field Microwave Measurement of the  $n=2$   $3P1$ -TO-  $n=2$   $3P2$  Fine-Structure", (E. Hessels), June 2009, now a Postdoctoral Fellow, Department of Physics and Astronomy, York University, Toronto, ON.

DAVY, R., "Studies of the Martian Boundary-Layer", (P. Taylor), October 2009, now a Postdoctoral Fellow, Department of Earth and Space Science and Engineering, York University, Toronto, ON.

LOMBARDI, L., "Progress Towards a Separated Oscillatory Fields Measurement of the  $2$   $3P1$ -to- $2$   $3P2$  Fine Structure Interval of Atomic Helium", (E. Hessels), June 2009, now a technologist, Focal Point Technologies, Mississauga, ON.

RYAN, C., "Galaxy Interactions and Active Galactic Nuclei in the Local Universe", (M. DeRobertis), June 2009, now a Postdoctoral Fellow, Department of Physics and Astronomy, York University, Toronto, ON.

SUN, Y., "Structural and Electronic Principles for Atomic Clusters", (R. Fournier), June 2009, now a Postdoctoral Fellow, Lawrence Livermore National Laboratory, Livermore, CA, USA.

WHYTE, J., "Charm Production and F2CC Measurement in Deep Inelastic Scattering at Hera II", (S. Menary), June 2009, now searching for employment.