

PHD PHYSICS DEGREES AWARDED IN CANADIAN UNIVERSITIES*

DOCTORATS EN PHYSIQUE DÉCERNÉS PAR LES UNIVERSITÉS CANADIENNES*

DECEMBER 2018 TO DECEMBER 2019 / DÉCEMBRE 2018 À DÉCEMBRE 2019

CARLETON UNIVERSITY

BOURGOUIN, A., “Determination of Wair value in high energy electron beam”, (M. McEwen), October 2020, pursuing a Postdoctoral Fellowship at Physikalisch-Technische Bundesanstalt, Germany.

CHRISTIANSEN, E., “A Framework for the Robust Delivery of Respiratory Motion Adaptive Arc Radiotherapy”, (E. Heath), October 2020, now a Medical Physics Resident at Lakeridge Health, Ajax, ON, Canada.

MAJTENYI, N., “Improved Arterial Input Function For Dynamic Contrast-Enhanced Magnetic Resonance Imaging Using Phase and T1 Measurements”, (I. Cameron), February 2020, now a Medical Physics Resident at Grand River Hospital, Kitchener, ON, Canada.

MANWELL, S., “Data-Driven Patient Motion Compensation in Cardiac Positron Emission Tomography”, (T. Xu), October 2020, now a Software Developer/Physicist at Convergent Imaging Solution, Ottawa, ON, Canada.

MARTINOV, M., “Heterogeneous multiscale Monte Carlo models for radiation therapy using gold nanoparticles”, (R. Thomson), February 2020, pursuing a Postdoctoral Fellowship at Robart Institute in London, ON, Canada.

DALHOUSIE UNIVERSITY

HONGYANG, L., “Studies of Ni-Rich Positive Electrode Materials for Lithium Ion”, (J. Dahn), May 2020, now a Sr. Cell Materials Engineer, Telsa Canada, Toronto, ON, Canada.

LEE, C., “Describing the Global Distribution and Health Response of Particulate Matter Using Modern Computational Tools”, (R. Martin), October 2020, now a Physical Scientist at Environment and Climate Change Canada, Halifax, NS, Canada.

RAMANCHANDRAN, A., “Quantum State Preparation Using Chirped Laser Pulses in Semiconductor Quantum Dots”, (K. Hall), October 2020, now an Optical Scientist at Rayleigh Solar Tech., Dartmouth, NS, Canada.

ROTERMUND, K., “Exploring Infrared-bright Sources Detected by the South Pole Telescope Lensing Galaxies and the Most Massive Structures in the Universe”, (S. Chapman), May 2020, now pursuing a Postdoctoral Fellowship at Lawrence Berkeley National Lab in Berkeley, California, USA.

McMASTER UNIVERSITY

ALESSI, M., “Connecting the Observed Properties of Exoplanet Populations to Their Formation”, (R. Pudritz), November 2020, now a Junior Data Scientist at Hamilton Health Sciences, Hamilton, ON, Canada.

BEAMIS, A., “Variations in Dense Gas and Star Formation in Nearby Galaxies”, (C. Wilson), November 2020, now pursuing a Post-doctoral fellowship at Leiden Observatory, Leiden University, Leiden, The Netherlands.

HAYMAN, P., “Point-Particle Effective Field Theory and the Helium Ion”, (C. Burgess), November 2020, now pursuing a Post-doctoral fellowship at The University of Auckland, Auckland, New Zealand.

LIANG, J., “Spectroscopic Studies on 39-Ca for Classical Nova Endpoint Nucleosynthesis”, (A. Chen), November 2020, now pursuing a Post-doctoral research fellowship at TRIUMF, Vancouver, BC, Canada.

MAHARAJ, D., “Neutron Studies on Rare-Earth and Double Perovskite Magnetic Oxides with Frustrated Tetrahedral Architectures”, (B. Gaulin), June 2020, now pursuing a Post-doctoral fellowship at TRIUMF, Vancouver, BC, Canada and the University of Windsor, Windsor, ON, Canada.

NIVEN, J., “Mechanical and Fluid Instabilities in Thin Polymer Films”, (K. Dalnoki-Veress), June 2020, now pursuing a Post-doctoral fellowship at MesoMat, Hamilton, ON, Canada.

PSALTIS, A., “Radiative Alpha Capture on 7Be with DRAGON at vp-process Nucleosynthesis Energies”, (A. Chen), November 2020, now pursuing a Postdoctoral Researcher position at the Technische Universität Darmstadt, Darmstadt, Hesse, Germany.

ROBERTS, I., “Galaxy Clusters and Their Role in Galaxy Evolution”, (L. Parker), November 2020, now pursuing a Post-doctoral fellowship at Leiden Observatory, Leiden University, Leiden, The Netherlands.

ROSE, M., “Single Molecule Fluorescence Microscopy Image Analysis for the Study of the 2D Motion of Cellulases and Bcl-2 Family Proteins”, (C. Fradin), November 2020, now pursuing a Postdoctoral Researcher position at Tracery Ophthalmics, Toronto, ON, Canada.

ZALAVARI, L., “Size Matters: Reduction of Nuclear-Size Related Uncertainties in Atomic Spectroscopy”, (C. Burgess), November 2020, now searching for employment.

POLYTECHNIQUE MONTRÉAL

BELLEMARE, J., « Fragilisation par hydrogène de l'acier 4340 électroplaque : test non destructifs électromagnétiques et analyses avancées de mesures de spectroscopie à désorption thermique », (F. Sirois / D. Ménard), December 2019, now searching for employment.

BERGERON, L.-A., “Raman Scattering From Hyperbolic Phonon-Polaritons in 2D Materials”, (S. Francoeur / R. Leonelli), August 2020, now searching for employment.

FORTIN-DESCHÊNES, M., “Real-Time and Atomic-Level Studies of the Growth, Phase Transformations and Stability of Two-Dimensional Pnictogens”, (O. Moutanabbir), July 2020, now pursuing a Postdoctoral Fellowship at Yale University, New Haven, Connecticut, USA.

FOURNIER-LUPIEN, J.-H., « Étude de la dynamique du quench dans différentes architectures de rubans supraconducteurs à haute température critique », (F. Sirois / M. Wertheimer), November 2020, now pursuing a Postdoctoral Fellowship at Polytechnique Montréal, Montreal, QC, Canada.

GUERBOUKA, H., “Enabling Real-Time Terahertz Imaging with Advanced Optics and Computational Imaging”, (M. Skorobogatiy), December 2019, now pursuing a Postdoctoral Fellowship at Brown University, Rhode Island, USA.

LAN, T., “Organic Ion-Gated Transistors”, (C. Santato), October 2020, now searching for employment.

LENGAIGNE, J., “Icephobicity of Superhydrophobic Surfaces Under Atmospheric Icing, the Role of Surface Wettability on Impact Dynamics and Ice Growth Kinetics”, (J. Sapiéha / L. Martinu), May 2020, now pursuing a Postdoctoral Fellowship at École de Technologie Supérieure, Montréal, QC, Canada.

MORIN, A., « Fort couplage photon-magnon d'échantillons ferromagnétiques dans des cavités hyperfréquences : application aux réseaux de nanofils ferromagnétiques », (D. Ménard), December 2020, now searching for employment.

MUSONGELA, M., « Implantation d'un modèle de fuite B1 hétérogène avec la méthode des caractéristiques (MoC) », (G. Marleau), December 2019, now searching for employment.

SU, R., "Electrochemical Studies on the Biopigment Eumelanin", (C. Santato), August 2020, now searching for employment.

QUEEN'S UNIVERSITY

ALEXANDER, K., "End-to-End Quality Assurance of Complex Radiation Therapy Treatments", (L.J. Schreiner / T.R. Olding), June 2020, now pursuing a residency in medical physics at Kingston Health Science Centre, Kingston, ON, Canada.

BROSSARD, A., "Optimization of Spherical Proportional Counter Backgrounds and Response for Low Mass Dark", (G. Gerbier / I. Giomataris), June 2020, now pursuing a postdoctoral fellowship at Queen's University, Kingston, ON, Canada.

GHAITH, M., "Development of Low-Energy Calibration Techniques for SuperCDMS using LEDs Operated Cryogenic Temperatures", (W. Rau), June 2021, now a Senior Instructor of Physics at Abu Dhabi University, Abu Dhabi, UAE.

INAYEH, A., "Molecular-Level Study of N-Heterocyclic Carbenes: Binding Modes and Self-Assembly on Au(111)", (A.B. McLean), November 2020, now working in research and development at Canadian Bank Note, Ottawa, ON, Canada.

LAM, I., "Search for Invisible Nucleon Decay in SNO+ with Improved Sensitivity", (A.J. Wright), June 2021, now pursuing a postdoctoral fellowship at Carleton University, Ottawa, ON, Canada.

LIU, Y., "Neutron Measurements and Reactor Antineutrino Search with the SNO+ Detector in the Water Phase", (M.C. Chen), November 2020, pursuing a postdoctoral fellowship at the University of British Columbia, Vancouver, BC, Canada.

VAZQUEZ DE SOLA FERNANDEZ, F., "Solar KK Axion Search with NEWS-G", (G. Gerbier), November 2020, now pursuing a postdoctoral fellowship at IMT Atlantique Bretagne-Pays de la Loire Campus de Nantes, Nantes, France.

RYERSON UNIVERSITY

FADHEL, M., "Photoacoustic imaging for monitoring vascular disrupting agents", (M. Kolios), October 2020, now a Diagnostic Medical Physics Resident at Yale New Haven Health, New Haven, Connecticut, USA.

HYSI, E., "On the development of photoacoustic imaging biomarkers for cancer treatment

monitoring", (M. Kolios), June 2020, now a Banting and KRESCENT Fellow at Division of Nephrology, St. Michael's Hospital and Li Ka Shing Knowledge Institute, Toronto, ON, Canada.

JAFARI SOJAHROOD, A., "Classification of the nonlinear dynamics of ultrasonically excited bubbles and their effect on the acoustical properties of the medium: theory, experiment and numerical simulations", (M. Kolios / R. Karshafian), June 2020, now a Postdoctoral Fellow at Ryerson University, Toronto ON, Canada.

LI, Y., "Large-pitch methods for 2D/3D synthetic transmit aperture ultrasound imaging", (Y. Xu, M. Kolios), October 2020, now a Postdoctoral Fellow at Ryerson University, Toronto, ON, Canada.

MOMIN, S., "On optimization of mixed photon energy beams in volumetric modulated arc therapy", (R. Khan, J. Grafe), October 2020, now a Medical Physics Resident at Emory University School of Medicine, Atlanta, Georgia, U.S.A.

NGYUEN, J., "In vivo detection of lanthanum via x-ray fluorescence", (J. Grafe), October 2020, now pursuing a Postdoctoral Research Fellow at the University of Victoria, Victoria, BC, Canada.

SIMON FRASER UNIVERSITY

AKINTOLA, K., "Muon Spin Rotation/Relaxation Studies of the Kondo Insulator SmB₆", (J. Sonier), June 2020, now a Patent Specialist at Marks & Clerk, Toronto, ON, Canada.

AZARI, M., "Valleytronics of Quantum Dots of Topological Materials", (G. Kirzenow), June 2020, N/A.

BAGHERI, H., "Development and Characterization of a Magnetic Particle Imaging Scanner", (M. Hayden), June 2020, N/A.

BAHRASEMANI, S., "Search for charged Higgs bosons in τ -lepton final states with 139 fb⁻¹ of proton-proton collision data recorded at $\sqrt{s}=13$ TeV with the ATLAS detector", (D. O'Neil), June 2020, N/A.

CORDOBA, C., "Potential Mapping of Growth Sequence in Semiconductor NW p-n junctions", (K. Kavanagh), June 2020, N/A.

GRAHAM, S., "Modifying spin diffusion in a nondegenerate ultracold gas", (J. McGuirk), June 2020, N/A.

HERRMANN, C., "In-situ Observations of Hexagonal Boron Nitride Growth on Cu (110)", (K. Kavanagh), October 2020, now a Field Service Engineer at Systems for Research, Kanata, ON, Canada.

LI, Y., "Probing Primordial Magnetic Fields with the Cosmic Microwave Background", (L. Pogosian), June 2020, N/A.

MATSE, M., "Mathematical Modelling of Electrokinetic Phenomena in Soft Nanopores", (M. Kennett), June 2020, N/A.

MOHTASHEMI, L., "Test of Fermi Liquid Theory with Terahertz Conductivity Measurements of MnSi", (J.S. Dodge), October 2020, N/A.

NIU, F., "Application of position sensitive detector in nuclear well logging tools", (D. O'Neil), June 2020, N/A.

SAHOTA, D., "Photoexcitation Spectroscopy of Insulating Cuprates", (J.S. Dodge), June 2020, now a Member Representative at the Teaching Support Staff Union, Burnaby, BC, Canada.

UNIVERSITÉ DE MONTRÉAL

BEAUDIN, G., « Les polarons magnétiques et la phase nématique dans l'Eu_{1-x}CaxB₆ », (A. Bianchi), décembre 2020, now a Postdoctoral Research Associate, Université de Montréal, Montréal, QC, Canada.

BEDARD, C. A., « L'information algorithmique en physique : Émergence, sophistication et localité quantique », (G. Brassard et L. Vinet), mars 2020, now pursuing a Postdoctoral Fellowship at Università della Svizzera italiana, Lugano, Ticino, Switzerland.

BILLOUD, T., "Characterization of the radiation field in ATLAS using Timepix detectors", (C. Leroy), mars 2020, maintenant chercheur postdoctoral à l'IEAP (Institute for Experimental and Applied Physics) de la CTU (Czech Technical University) à Prague, Czech Republic.

DUROCHER-JEAN, A., « Diagnostics spectroscopiques de plasmas d'argon à la pression atmosphérique en présence d'espèces réactives », (L. Stafford), juin 2020, now an R&D Scientist at Optina Diagnostics, Montréal, QC, Canada.

FREUND, B., "Search for resonant WZ production in the fully leptonic final state with the ATLAS detector", (G. Azuelos and J.-F. Arguin), mars 2020, now a Data Scientist at Shopify, Montreal, QC, Canada.

GAGNON, L.-G., "Searching for supersymmetry using deep learning with the ATLAS detector", (J.-F. Arguin), décembre 2020, now pursuing a Postdoctoral Fellowship at UC Berkeley, California, USA.

LANDRY, A., « Études sur l'interaction des particules quantiques avec la gravitation », (F. Hammad), décembre 2020, maintenant sans emploi et à la recherche d'une bourse postdoctoral.

LEMAY, J.-M., « Polynômes Orthogonaux : Processus limites et modèles exactement résolubles », (L. Vinet), mars 2020, maintenant Professeur, Collège international des Marcellines, Montréal, QC, Canada.

NGUYEN, T., “From Electron Reconstruction and Identification to the Search for Supersymmetry at the ATLAS Experiment”, (J.-F. Arguin), juillet 2020, now a Software Developer at Vanilla Forums, Montreal, QC, Canada.

TREMBLAY, B., « Assimilation des données et apprentissage profond pour la prédiction de l'activité solaire à court terme », (A. Vincent), mars 2020, now a Postdoctoral Research Fellow, Laboratory for Atmospheric and Space Physics, Boulder, Colorado, USA.

UNIVERSITÉ DE SHERBROOKE

BERTRAND, S., « Génération et détection de la polarisation de vallée optique dans les semimétaux de Weyl », (I. Garate et R. Côté), Août 2020, maintenant Professionnel de recherche, Université de Sherbrooke, Sherbrooke, QC, Canada.

CAMIRAN-LEMYRE, J., « Ingénierie de systèmes quantiques pour une mise à l'échelle compatible aux plateformes industrielles de microélectronique », (M. Pioro-Ladrière), Décembre 2019, maintenant Président, Nord Quantique, Sherbrooke, QC, Canada.

DI PAOLO, A., « Qubits supraconducteurs protégés basés sur des modes à haute impédance », (A. Blais), Juin 2020, now pursuing a Postdoctoral Fellowship at MIT, Cambridge, MA, USA.

HARDY, G., « Études des effets de proximité dans les hétérostructures de $\text{Pr}_{2-x}\text{Ce}_x\text{CuO}_4$ et le LaFeO_3 », (P. Fournier), Septembre 2020, présentement sans emploi, en réflexion.

KRISHNA, A., « Portes tolérantes aux fautes pour les codes produits d'hypergraphes », (D. Poulin), Février 2020, now pursuing a Postdoctoral Fellowship at Stanford University, Stanford, California, USA.

PRÉMONT-FOLEY, A., « Réseaux de tenseurs et solutionneurs d'impureté pour la théorie du champ moyen dynamique », (D. Sénéchal), Juillet 2020, maintenant stagiaire postdoctoral, Université de Sherbrooke, Sherbrooke, QC, Canada.

ROCHETTE, S., « Accélérer la mise à l'échelle des processeurs quantiques avec les boîtes quantiques à grilles », (M. Pioro-Ladrière), Septembre 2020, maintenant Coordonnatrice, Institut quantique (UdeS), Sherbrooke, QC, Canada.

THIBAUT, K., « Effets de rétroaction du bruit dans un circuit électrique », (B. Reulet), Janvier 2020, maintenant Coordonnateur, Institut quantique (UdeS), Sherbrooke, QC, Canada.

UNIVERSITÉ D'OTTAWA

ALAM, M.Z., “Experiments in Nonlinear Optics with Epsilon-Near-Zero Materials”, (R. Boyd), October 2020, N/A.

BRITTON, M., “Isolating the gain in the nitrogen molecular cation”, (P. Corkum), December 2020, now pursuing a Postdoctoral Fellowship at Stanford University, Stanford, California, USA.

HICKEY, R., “Three-dimensional plant-derived biomaterials Scaffolds for tissue engineering and biophysical manipulation”, (A. Pelling), October 2020, now a Scientist and Project Manager at Spiderwort Inc.

SAXENA, B., “Electrostriction in As_2Se_3 -PMMA Microtapers”, (X. Bao), December 2019, now pursuing a Postdoctoral Fellowship at the University of Waterloo, ON, Canada.

SZULAKOWSKA, L., “Electron-electron interactions and optical properties of two-dimensional nanocrystals”, (P. Hawrylak), October 2020, now pursuing a Postdoctoral Fellowship at the University of British Columbia, BC, Canada.

UNIVERSITY OF ALBERTA

ACHAL, R., “Fabrication and Application of Atomic Scale Silicon Structures”, (R. Wolkow), June 2020, N/A.

ARBABIMOGHADAM, S., “A Search for the Physical Basis of the Genetic Code and Modeling Cancer Cell Response to Chemotherapy Using the Ising Model”, (J. Tuszynski), Dec 2020, N/A.

BOOS, J., “Effects of Non-locality in Gravity and Quantum Theory”, (V. Frolov), Dec 2020, N/A.

CORDELL, D., “Magnetotelluric Investigation of the Laguna del Maule Volcanic Field, Central Chile”, (M. Unsworth), June 2020, N/A.

GAO, W., “Studies in Multicomponent Seismic Data Processing and Kronecker Least-Squares Reverse Time Migration”, (M. Sacchi), Dec 2020, N/A.

GARDNER, K., “Fluorescence and Lasing in Dye-doped and Conjugated Polymer Microspheres”, (A. Meldrum), Dec 2020, N/A.

HAUER, B., “On-Chip Silicon Optomechanical Cavities at Low Temperatures”, (J. Davis), June 2020, N/A.

HUFF, T., “Atomic Electronics with Silicon Dangling Bonds: Error Correction, Logical Gates, and Electrostatic Environment”, (R. Wolkow), June 2020, N/A.

KOCH, E., “Connecting Galactic to Local Scales in the Neutral Interstellar Medium Across the Local Group”, (E. Rosolowsky), Dec 2020, N/A.

LEE, B., “Improving Exploration for Geothermal Resources with the Magnetotelluric Method”, (M. Unsworth), Dec 2020, N/A.

MATHARU, G., “Strategies for Elastic Full Waveform Inversion”, (M. Sacchi), Dec 2020.

RAMP, H., “Microwave to Telecom Wavelength Transduction”, (J. Davis), Dec 2020, N/A.

REYES CANALES, M., “Probabilistic Seismic Hazard Analysis for Induced Seismicity”, (M. van der Baan), Dec 2020, N/A.

UNIVERSITY OF GUELPH

GOOD, D., “Investigations of Membrane Protein Dynamics using Solid State NMR”, (V. Ladizhansky), June 2020, now a Customer Success Scientist, Nicoya, Kitchener, ON, Canada.

HARRIS, A., “Spectroscopic Characterization of Atypical Ion Pumping Microbial Rhodopsins”, (L. Brown), October 2020, Postdoctoral Fellow, now a Neurobiology Department at Weizmann Institute of Science, Rehovot, Israel.

RAHEMTULLA, A., “Resolving Short Range Order of Amorphous Solids”, (S. Kycia), June 2020, now an Associate Scientist, Canadian Light Source, SK, Canada.

SHELTON, E., “Quantifying Bacterial Motion in Twitching Colonies and the Effect of the Agar-Glass Interface on Bacterial Twitching Motility”, (J. Dutcher), October 2020, now a Data Scientist, Royal Bank of Canada, Toronto, ON, Canada.

UNIVERSITY OF MANITOBA

BERGEN, R., “Optimizing and Advancing Multiparametric Magnetic Resonance Imaging for Biologically - Guided Radiotherapy”, (L. Ryner, M. Essig), February 2020, N/A.

COWNDEN, B., “Gravitational Collapse in Anti-deSitter Spacetime”, (A. Frey), October 2020, N/A.

FLYNN - PRIMROSE, D., “On the Hahn and Levi - Civita Fields: Topology, Analysis and Applications”, (K. Shamseddine), February 2020, N/A.

GUEST, B., “X - Ray Observations of Pulsar Wind Nebular: The Nature of Pulsar Winds and Their Environment”, (S. Safi-Harb), May 2020, N/A.

LANG, M., “Automated Production and Purification of Hyperpolarized Xenon Gas”, (C. Bidinosti, J. Martin), October 2020, N/A.

MIKULA, P., “Gradient Flow in Holographic Superconductors”, (G. Kunstatter, M Carrington), February 2020, N/A.

MOSTAMAND, M., “Laser Developments and Study of Rydberg and Autoionizing Rydberg States in Tm, La and At Using Resonant Ionization Laser Spectroscopy”, (G. Gwinner, J. Lassen), May 2020, N/A.

PAIDI, V. K., “Role of Orbital Hybridization in the Magnetism of Nanoscale Oxides”, (J. van Lierop), February 2020, N/A.

SHIELLS, K., “Radiative Corrections to Semileptonic Processes in the Standard Model”, (P.G. Blunden), May 2020, N/A.

UNIVERSITY OF NEW BRUNSWICK

Enjilela, R., “Measurements of Porous Media: Fluid Quantification and Magnetic Susceptibility Contrast”, (B. Balcom), October 2020, now a Course Instructor, Carleton University, Ottawa, ON, Canada.

Kristoffersen, S., “Doppler Michelson Interferometer Wind Observations and Interpretations”, (W. Ward), May 2020, now pursuing a Postdoctoral Fellowship at CEA (Commissariat à l'énergie atomique et aux énergies alternatives), Paris, France.

UNIVERSITY OF SASKATCHEWAN

CHOUDHURY, S., “Small-scale E-Region Irregularities in High-Latitude Plasma”, (JP St-Maurice), Spring 2020, now an Entrepreneur, Real Estate Business, Saskatoon, SK, Canada.

DEBOER, T., “Advancing the Characterization of Semi Conductors with Synchrotron Radiation”, (A. Moewes), Fall 2020, now a Research Associate at University of Saskatchewan, Saskatoon, SK, Canada.

HO, J., “Beyond the Conventional Quark Model: Using QCD Sum Rules to Explore the Spectrum of Exotic Hadrons”, (T. Steele, D. Harnett), Fall 2020, now an Assistant Professor, at Dordt University, Sioux Center, Iowa, USA.

PALAMETA, A., “Beyond-the Quark-Model Heavy Hadrons from QCD Sum Rules”, (T. Steele, D. Harnett), Fall 2020, now a Sessional Lecturer, at University of Fraser Valley, Abbotsford, BC, Canada.

SAMADI, N., “A Real Time Phase Space Beam Size and Divergence Monitor for Synchrotron Radiation”, (D. Chapman), Spring 2020, now pursuing a Postdoctoral Fellowship, at Paul Scherrer Institut in Switzerland, Villigen PSI, Switzerland.

ZULKOSKEY, A., “Interdimensional Effects in Systems of Fermions”, (K. Tanaka, R. Dick), Spring 2020, now a Professional Specialist, at University of Saskatchewan, Saskatoon, SK, Canada.

UNIVERSITY OF TORONTO

ABIDI, S. H., “Precision Higgs Boson Measurements using the $H \rightarrow ZZ^* \rightarrow 4l$ Decay Channel,

(R. Teuscher), November 2020”, now pursuing a Postdoctoral Fellowship at ATLAS, Brookhaven National Labs (BNL), New York, USA.

BHATT, N., “Spectroscopy of Ions in Cryogenic Neutral Plasmas.”, (A.C. Vutha), November 2020, now pursuing a Postdoctoral Fellowship at PTB, Institute for Experimental Quantum Metrology - Quantum Clocks and Complex Systems, Braunschweig, Germany.

CORMIER, K.J.R., “A Study of Highly-Energetic Top Quarks Using the ATLAS Detector.”, (R. Teuscher), March 2020, now pursuing a Postdoctoral Fellowship at CMS experiment, University of Zurich, Zurich, Switzerland.

FAJBER, R., “Understanding the Role of Latent Heating in the Heat and Mass Transport of the Global Atmospheric Circulation.”, (P.J. Kushner), November 2020, now pursuing a Postdoctoral Fellowship at University of Washington, Seattle, Washington, USA.

GUERRERO, J. M., “The Influence of Curvature on Mantle Convection Featuring a Temperature-Dependent Viscosity.”, (J.P. Lowman), November 2020, now pursuing a Postdoctoral Fellowship at Institute of Earth Sciences, Academia Sinica, Taipei, Taiwan.

HARTLEY, J. W., “The SuperBIT Hardware Design and a Constraint of the Tensor to Scalar Ratio r from the Spider I Polarized CMB Maps.”, (C.B. Netterfield), November 2020, now a Co-founder, StarSpec.

HAY, S., “Pattern Scaling Methods for Understanding the Response to Polar Sea-Ice loss in Coupled Earth System Models.”, (P.J. Kushner), November 2020, now pursuing a Postdoctoral Fellowship at University of Toronto, Department of Physics, Toronto, ON, Canada.

LES, R., “Exotic Diboson Production in the Semileptonic Channels with the ATLAS Detector.”, (W. Trischuk), March 2020, now pursuing a Postdoctoral Fellowship at Michigan State University, East Lansing, Michigan, USA (working from Geneva, Switzerland).

LI, Y., “Mainland Southeast Asia Precipitation: Natural Variability, Teleconnection, and Response to External Forcing”, (D.B.A. Jones), November 2020, now looking for employment.

NINO, D.F., “On the Molecular Counting and Clustering Problems in Single-Molecule Quantitative Nanoscopy”, (J.N. Milstein), November 2020, now pursuing a Postdoctoral Fellowship at University of Toronto Mississauga (UTM), Mississauga, ON, Canada.

THAM, W.-K., “Quantum Homomorphic Encryption: Implementation and Application + SPLICE: A Novel Super-resolution Imaging

Technique.”, (A.M. Steinberg), November 2020, now a co-founder of a start up company.

TZITRIN, I., “From the theory of entanglement to the practice of optical quantum information”, (H.K. Lo), November 2020, now pursuing a Postdoctoral Fellowship at University of Toronto / Xanadu, Toronto, ON, Canada.

VELOCE, L. M., “Fiducial Inclusive and Differential Cross Section Measurements of the Higgs Boson in the $H \rightarrow ZZ^* \rightarrow 4l$ Channel with the ATLAS Detector.”, (R. Teuscher), November 2020, now pursuing a Postdoctoral Fellowship at ATLAS, University of Toronto, Toronto, ON, Canada.

WANG, W., “Adaptive Techniques in Practical Quantum Key Distribution”, (H.-K. Lo), June 2020, now pursuing a Postdoctoral Fellowship at Waterloo/PSI, Waterloo, ON, Canada.

WOODFORD, C.J., “Centre-of-mass motion and precession of the orbital plane in binary black hole simulations.”, (N. Murray), November 2020, now a full-time Knowledge Translation Specialist, Arthur B. McDonald Canadian Astroparticle Physics Research Institute / Queen’s University, Kingston, ON, Canada, and a part-time (1) Dept. of Physics Sessional Lecturer, University of Toronto, Toronto, ON, Canada, and (2) Educational Content Developer, Discover the Universe / the Dunlap Institute, Toronto, ON, Canada.

ZHANG, C., “New Physics of the Standard Model and Beyond.”, (B. Holdom), June 2020, now pursuing a joint Postdoctoral Fellowship at University of Toronto with University of Waterloo, ON, Canada.

UNIVERSITY OF VICTORIA

ALLEN, M., “Theoretical investigation of size effects in multiferroic nanoparticles”, (R. de Sousa), July 2020, now searching for employment.

BOTTRELL, C., “Morphological and kinematic indicators of structural transformation in galaxies”, (L. Simard / S. Ellison), July 2020, now a Kavli Fellow at Kavli Institute for the Physics and Mathematics of the Universe, Tokyo, Japan.

CHIU, J., “Search for Higgs boson decays to beyond-the-Standard-Model light bosons in four-lepton events with the ATLAS detector at the LHC”, (M. Lefebvre), December 2020, now searching for employment.

DUNNING, C., “Contrast Agent Imaging Using An Optimized Table-top X-ray Fluorescence and Photon-Counting Computed Tomography Imaging System”, (M. Bazalova-Carter), October 2020, now a Postdoctoral Fellow at Mayo Clinic, Rochester, Minnesota, USA.

FANTIN, N., “Studying a Fire from its Ashes: White Dwarfs as Probes of Milky Way Evolution”, (P. Côté / J. Navarro), November 2020, now searching for employment.

GERARD, B., “Exoplanet imaging speckle subtraction: current limitations and a path forward”, (C. Marois / J. Willis), May 2020, now a Postdoctoral Scholar at the University of

California Santa Cruz, Santa Cruz, California, USA.

HANI, M., “Probing galaxy evolution through numerical simulations: mergers, gas, and star formation”, (S. Ellison), July 2020, now pursuing a Herschel Fellowship at McMaster University, Hamilton, ON, Canada.

UNIVERSITY OF WINDSOR

OUELETTE, A., “Adaptive, High-Resolution Ultrasound Phased Array Imaging for use in the Inspection of Laser Brazed Joints in the Automotive Sector”, (R. Maev), June 2020, now a Postdoctoral Fellow at the University of Windsor, Windsor, ON, Canada.

BOOK REVIEW POLICY

Books may be requested from the Book Review Editor, Richard Marchand, by using the online book request form at <http://www.cap.ca>. You must be a residing in Canada to request a book.

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LA POLITIQUE POUR LA CRITIQUE DE LIVRES

Si vous voulez faire l'évaluation critique d'un ouvrage, veuillez entrer en contact avec le responsable de la critique de livres, Richard Marchand, en utilisant le formulaire de demande électronique à <http://www.cap.ca>.

Les membres de l'ACP auront priorité pour les demandes de livres. Ceux qui ne sont pas membres et qui résident au Canada peuvent faire une demande de livres. Les demandes des non-membres ne seront examinées qu'un mois après la date de distribution du numéro de la Physique au Canada dans lequel le livre aura été déclaré disponible.

Le Directeur de la critique de livres se réserve le droit de limiter le nombre de livres confiés chaque année aux examinateurs. Il se réserve, en outre, le droit de modifier toute critique présentée afin d'en améliorer le style et la clarté. S'il lui faut reformuler une critique, il s'efforcera de conserver le sens voulu par l'auteur de la critique et, à cette fin, il pourra juger nécessaire de la consulter. Les critiques pour publication dans la PaC doivent être de 300 à 500 mots. Ces critiques seront aussi affichées sur le web; s'ils le désirent les examinateurs peuvent soumettre une plus longue version pour le web.

BOOKS RECEIVED / LIVRES REÇUS

The following titles are a sampling of books that have recently been received for review. Readers are invited to write reviews, in English or French, of books of interest to them. Unless otherwise indicated, all prices are in Canadian dollars.

Lists of all books available for review, books out for review and book reviews published since 2011 are available on-line at www.cap.ca (Publications).

In addition to books listed here, readers are invited to consider writing reviews of recent publications, or comparative reviews on books in topics of interest to the physics community. This could include for example, books used for teaching and learning physics, or technical references aimed at professional researchers.

Les titres suivants sont une sélection des livres reçus récemment aux fins de critique. Nous invitons nos lecteurs à nous soumettre une critique en anglais ou en français, sur les sujets de leur choix. Sauf indication contraire, tous les prix sont en dollars canadiens.

Les listes de tous les livres disponibles pour critique, ceux en voie de révision, ainsi que des critiques publiées depuis 2011 sont disponibles sur : www.cap.ca (Publications).

En plus des titres mentionnés ci-dessous, les lecteurs sont invités à soumettre des revues sur des ouvrages récents, ou des revues thématiques comparées sur des sujets particuliers. Celles-ci pourraient par exemple porter sur des ouvrages de nature pédagogique, ou des textes de référence destinés à des professionnels.