

PHD PHYSICS DEGREES AWARDED IN CANADIAN UNIVERSITIES*

DOCTORATS EN PHYSIQUE DÉCERNÉS PAR LES UNIVERSITÉS CANADIENNES*

DECEMBER 2014 TO DECEMBER 2015 / DÉCEMBRE 2014 À DÉCEMBRE 2015

BROCK UNIVERSITY

- CASLIN, K., "Investigation of Frustrated Quasi-One-Dimensional Quantum Spin-Chain Materials", (F. Razavi), October 2015.
- MARQUARDT, D., "A-Tocopherol's Antioxidant Role: A Biophysical Perspective", (T. Harroun), June 2015. Currently following a Post Doctoral fellowship at the Institute for Molecular Biosciences, University of Graz, Graz, Austria.

CARLETON UNIVERSITY

- CHAMBERLAND, M., "Application of Three-Dimensional Motion Tracking of Low-Activity Fiducial Positron-Emitting Markers in Radiation Therapy and Positron Emission Tomography", (T. Xu), May 2015.
- GRANVILLE, D., "Development of a Technique to Simultaneously Verify Linear Energy Transfer and Absorbed Dose in Therapeutic Proton Beams", (G. Sawakuchi), October 2015.
- HARTLING, K., "Theoretical and Experimental Constraints on Large Electroweak Scalar Multiplets", (H. Logan), October 2015.
- MCCARTHY, T., "Measurement of the Top Quark Mass in the All-Hadronic Top-Antitop Decay Channel Using Proton-Proton Collision Data from the ATLAS Experiment at a Centre-of-Mass Energy of 8 TeV", (G. Oakham), October 2015.
- ORTON, E., "Extra-Cardiac Interference in Myocardial Perfusion Imaging with Rubidium-82 and Positron Emission Tomography", (G. Wells), October 2015.
- RODRIGUES, M., "Automation of the Cytokinesis-Block Micronucleus Assay Using Imaging Flow Cytometry for High Throughput Radiation Biodosimetry", (R. Wilkins), May 2015.
- UENO, R., "Search for Electroweak SUSY Signatures with Two Leptons and Missing Energy with the ATLAS Detector", (M. Vincter), February 2015.
- WHALEN, K., "From Discovery to Precision Measurements: Electron Identification, Electron-Like Backgrounds, and Measurement of the Differential Fiducial Cross-Sections of the Higgs Boson in the Four-Lepton Decay Channel with the ATLAS Detector", (M. Vincter), February 2015.

*Supplement to the list published in Vol. 72, No. 1 (2016).

*Supplément à la liste publiée dans le Vol. 72, no 1 (2016).

MCGILL UNIVERSITY

- BELIN, A., "The phase structure of entanglement measures and their role in holography and quantum gravity", (A. Maloney), June 2015.
- DE HAAN, T., "Cosmological constraints from the South Pole telescope galaxy cluster survey", (M. Dobbs), February 2015.
- FERRARI, A., "Flexible polyelectrolytes: like-charged attraction, linear stability, and long-term structure", (M. Grant), February 2015.
- KENNEDY, J., "Instrumentation and Analysis for Observations of the Sunyaev-Zel'dovich Effect from Galaxy Clusters with the APEX-SZ Experiment", (M. Dobbs), February 2015.
- LHERMITTE, J., "Using coherent X-rays to measure velocity profiles", (M. Sutton), June 2015.
- LÓPEZ AYÓN, G., "Local mechanical stimulation based approaches for the study of cells", (P. Grutter), February 2015.
- LU, EGANG, "Thermalization of a QCD system via kinetic approach", (G. Moore), February 2015.
- PARK, N., "Essays in late time cosmology", (R. Brandenberger), June 2015.
- SAVARD, R., "Mass transport in single nanopores", (G. Gervais), June 2015.
- WANG, K., "Search for physics beyond the standard model in multi-jet events recorded with the ATLAS detector in p-p collisions at square root of $s = 8$ TeV using the large Hadron collider", (A. Warburton), October 2015.
- ZAMFIR, M., "Probing neutron star interiors with type I x-ray bursts", (A. Cumming), February 2015.

QUEEN'S UNIVERSITY

- ALAM-SAMIMI, A., "Magnetic Barkhausen Noise Testing: Steel Grades and Stress Response", (L. Clapham and T. Krause), November 2015, now a Postdoctoral Researcher at Queen's University, Kingston, ON, Canada.
- ALAYASHI, W., "Branched Nanostructured Anodes for Dye-Sensitized Solar Cells", (K. Robbie), May 2015, now currently unemployed.
- CAMPBELL, J., "Feedback controlled electromigration for the fabrication of point contacts and noise measurement applications", (R.G. Knobel), November 2015, now a Process Specialist at a start up company in St. John's, Newfoundland, Canada.
- DESJARDINS, D., "Analytical Modelling for Transient Probe Response in Eddy Current Testing", (L. Clapham and T. Krause), November 2015, now a Flight Commander with RCAF, CFB Trenton, ON, Canada.
- JOYCE, A., "Crossed-Array Transducer for Real-Time Three-Dimensional Ultrasound Imaging",

(G.R. Lockwood), May 2015, now a staff Engineer at uBeam, Santa Monica, California, USA.

- KAMAHA, A., "Improved Limits on the Existence of Dark Matter. The Final Results from the PICASSO Experiment", (A.J. Noble), May 2015, now a Postdoctoral Researcher at Queen's University, Kingston, ON, Canada.
- KAMANDAR DEZFOULI, M., "Quantum Non-linear Optics in Lossy Coupled-Cavities in Photonic Crystal Slabs", (M.M. Dignam), November 2015, now a Postdoctoral Researcher at Queen's University, Kingston, ON, Canada.
- LEE-WADDELL, K., "A Multi-wavelength Investigation of the Gas-rich Dwarf Galaxy Populations of Three Interacting Groups: NGC3166/9, NGC 871/6/7 and NGC 4725/47", (K. Spekkens), November 2015, now a Research Scientist at CSIRO, Sydney, Australia.
- NADEAU, P., "Cryogenic Scintillators for Rare-Event Searches", (P. Di Stefano), November 2015, now a Postdoctoral Researcher at SNO-LAB, Sudbury, ON, Canada.

SIMON FRASER UNIVERSITY

- AKHTARI ZAVAREH, A., "Off-Axis electron holography of isolated ferromagnetic nanowires", (K. Kavanagh), December 2014, now a Post Doctoral Fellow at SFU, Burnaby, BC, Canada and searching for employment.
- DAWE, E.N., "Evidence for standard model Higgs boson decays to tau lepton pairs in the ATLAS detector supported by a search in the fully hadronic final state", (D. O'Neil), December 2014, now a Research Fellow in Experimental Particle Physics at the University of Melbourne, Melbourne, Australia.
- HOHERTZ, D., "Optimizing the refractive index sensitivity of extraordinary optical transmission based sensors", (K. Kavanagh), December 2014, now an Applied Photonics Engineer at Novadaq, Burnaby, BC, Canada.
- LEUNG, S.S.W., "Can localized impurities exert global effects on lipid model membranes?", (J. Thewalt), April 2015, now a Post Doctoral Fellow at the Simon Fraser University, Burnaby, BC, Canada.
- LOTFI MAHYARI, Z., "Universal inhomogeneous magnetic-field response in the normal state of cuprate high-Tc superconductors", (J. Sonier), April 2015, now searching for employment.
- SHAGHAGHI, M., "2H-NMR study of model membranes: Investigating the effect of sterol structure on the chain ordering and phase behaviour of lipid mixtures", (J. Thewalt), December 2014.

UNIVERSITY OF ALBERTA

- AVENDANO NANDEZ, J.L., "Common Envelope: The Dynamical Aspects", (N. Ivanova), November 2015.
- AYESHESHIM, A., "High-Power Terahertz Pulse Generation and Nonlinear Terahertz Carrier Dynamics in Semiconductors", (F. Hegmann), June 2015.
- COMEAU, M., "Electrical Resistivity Structure of the Altiplano-Puna Magma Body and Volcan Uturuncu from Magnetotelluric Data", (M. Unsworth), November 2015.
- DE LOS REYES, G., "Ultrafast Photoluminescence Spectroscopy of Silicon Nanocrystals", (F. Hegmann), November 2015.
- FOSTER, D., "Force Spectroscopy of Nucleic Acid Folding in the Single-Molecule Limit", (M. Woodside), November 2015.
- HOQUE, S.N.M., "Open-Closed Magnetic Field Line Boundary Identification Using Directional Derivatives of SuperDARN Convection Flow", (F. Fenrich), June 2015.
- JUNAID, M., "Geometrical Measures of Non-Gaussianity Generated by Single Field Models of Inflation", (D. Pogosian), November 2015.
- LAYCOCK, T., "A Generalized Two Dimensional Quasigeostrophic Model of Thermal Convection", (M. Dumberry), June 2015.
- LOCKWOOD, R., "Free-Standing Silicon Quantum Dot Photoluminescence", (A. Meldrum), June 2015.
- MAHMUD, S., "Intrinsic Electroresistance and Time Dependent Transport in Some Perovskite Manganites", (K. Chow and J. Jung), November 2015.

MAZZINO, M., "Field Line Resonances in Earth's Magnetosphere: A study of their Observation, Characterization and Wave Sources in the Solar Wind", (R. Sydora), November 2015.

POLACHIC, C., "A Multiorbital DMFT Analysis of the Dynamic Hubbard Model", (F. Marsiglio), June 2015.

TAUCER, M., "Silicon Dangling Bonds Non-equilibrium Dynamics and Applications", (R. Wolkow), November 2015.

TURKAKIN, H., "Stability of Magneto hydrodynamic Shear Flow Boundaries: Kelvin-Helmholtz Instabilities and Emission of Magneto sonic Waves", (R. Rankin and I. Mann), November 2015.

WANG, H., "Intracontinental Deformation Caused by Gravitational Lithosphere Removal", (C. Currie), June 2015.

UNIVERSITY OF CALGARY

ST-YVES, G., "Statistical Properties of Defect Turbulence in Two and Three Dimensions", (J. Davidsen), November 2015.

ALOTAIBI, H., "Double Double Electromagnetically Induced Transparency", (B. Sanders), November 2015.

STANLEY, J., "Quantification of Uncertainty in Stereotactic Radio surgery", (D. Spencer), November 2015.

WANG, D., "Algorithmic Quantum Channel Simulation", (B. Sanders), November 2015.

BALDERSON, M., "Modeling Tumour Control in External Beam Radiotherapy for Prostate Cancer", (C. Kirkby), November 2015.

MCGEACHY, P., "Optimization in Radiation Therapy: Applications to Brachytherapy and Intensity Modulated Radiation Therapy", (R. Khan), November 2015.

GURAM, S., "A Systematic Survey of the Circular Polarization of Radio Sources with GALFACTS", (A.R. Taylor), June 2015.

UNIVERSITY OF VICTORIA

CAMPBELL, W., "Readout of polymer gel dosimeters using a prototype fan-beam optical computed tomography scanner", (A. Jirasek and D. Wells), May 2015, now a Postdoctoral Fellow at the University of Colorado School of Medicine, Boulder, Colorado, USA.

KING, G., "Search for Lepton Universality Violation Using $Y(3S)$ Decays", (J. M. Roney), May 2015, now a Postdoctoral Scholar at Stanford University School of Medicine, Stanford, California, USA.

SHAW, C., "Investigating the use of protein-targeted pegylated gold nanoparticle probes in the surface-enhanced Raman spectroscopy of cells", (A. Jirasek), May 2015, now a Radiation Oncology Medical Physics Resident at Nova Scotia Health Authority, Halifax, Nova Scotia, Canada.

TOWNSON, R., "Enhancing the speed of radiotherapy dose calculation with applications in dose verification", (A. Jirasek and S. Zavgorodni), May 2015, now searching for employment.

WANG, X., "Force-free magnetospheres, Kerr-AdS black holes and holography", (A. Ritz), May 2015, now a Postdoctoral Fellow at Huazhong University of Science and Technology, Wuhan Hubei, China.