POSTER SESSION

POSTER SESSION – WEDNESDAY MAY 31 18h00-19h30 SESSION D'AFFICHES – MERCREDI 31 MAY Queen's Athletics & Recreation Centre (ARC)

DIVISION OF ATOMIC, MOLECULAR AND OPTICAL PHYSICS, CANADA / DIVISION DE LA PHYSIQUE ATOMIQUE, MOLÉCULAIRE ET PHOTONIQUE, CANADA (DAMOPC-DPAMPC)

POS-1	(G)*	N(2P) Production in electron-N2 Collisions
		DECH, Jeffery; University of Windsor
POS-2		Loading laser-cooled atoms into a cavity formed by a hollow-core fiber capped
		with a pair of dielectric metasurfaces
		VENUTURUMILLI, Sai Sreesh; University of Waterloo
POS-3	(G)*	On The Laser-Induced Fluorescence Spectroscopy of Two Ruthenium-Bearing Molecules: RuX (X=F, Cl)
		ZARRINGHALAM, Hanif; University of New Brunswick
POS-4	(G)	Cross-phase modulation with laser cooled atoms confined inside a hollow-core fiber
		VICKERS, Cameron; University of Waterloo
POS-5	(G)*	
. 00 0	(4)	Cavities
		SEIFOORY, Hossein; Queen's University
POS-6	(G)*	
105-0		elengths
	wave	KIMIAEE ASADI, Faezeh; University of Calgary
POS-7	(G)*	Relativistic Corrections to Nonrelativistic Electric Dipole Transitions
1 03-7	(u)	SAMI, Maha; VENN, Daniel University of Windsor
POS-8	(U)*	Arduino-controlled triple-grating high-resolution spectrometer
103-0	(0)	QIU, Jiawei; University of Waterloo
POS-9		Polaron master equation theory of an on-demand quantum dot single-photon
103-9	cour	
	sour	through cavity-assisted stimulated adiabatic Raman passage (STIRAP)
		GUSTIN, Chris; Queen's University
POS-10	(U)*	Radio-frequency ion trap with an integrated optical cavity
PU3-10	(0)	
POS-11		SILVERTHORNE, Turner; University of Waterloo
PU3-11		Metals for Induced Transmission Optical Filters
DOC 12		Teare, Scott; New Mexico Tech
POS-12		Visualization of state determination via weak measurements
DOC 12		IVANOVIC, Igor; Carleton University
POS-13		Application of coupled mode theory to phase-shift and intensity measurements in
		optical microresonators
DOG 44	(0)	BARNES, Jack; Queen's University
POS-14	(G)*	Nano-antenna fabrication through porous anodic alumina template
		Souissi, Fathi; Queen's university

	PHY	ATMOSPHERIC AND SPACE PHYSICS / 'SIQUE ATMOSPHÉRIQUE ET DE L'ESPACE (DASP-DPAE)			
POS-15		Spatial correlation of auroral zone geomagnetic variations JACKEL, Brian; University of Calgary			
POS-16		Along-track ion flow estimates from Swarm Langmuir probes BURCHILL, Jonathan; University of Calgary			
POS-17		Convection of plasma density features in the ionosphere DE BOER, John; Royal Military College of Canada			
POS-18		An e-POP multi-instrument study of a stable double-arc JAMES, Gordon; University of Calgary			
CONDENSED MATTER AND MATERIALS PHYSICS / PHYSIQUE DE LA MATIÈRE CONDENSÉE ET MATÉRIAUX (DCMMP-DPMCM)					
POS-19	(G)	A DFT Investigation of Conjugated Polymers/Oligomers and Fullerenes Interactions in Bulk Heterojunction Organic Solar Cells AVOUR South LACOMSKI Interaction Managing University of Newfoundland			
POS-20	(G)*	AYOUB, Sarah; LAGOWSKI, Jolanta; Memorial University of Newfoundland Visualizing in situ Electrochemical Doping in Luminescent Conjugated Polymers HU, Shiyu; Queen's University			
POS-21	(G)	The determination of GaAs phononic crystal waveguide SAW mode frequencies MUZAR, Edward; Queen's University			
POS-22	(G)*	Perovskite Solar Cells Fabricated with Various Buffer Layers: Relationship Between Carrier Lifetime and Observed J-V Hysteresis			
POS-23		ELCOCK, William; University of Saskatchewan Spin current transport in Ta: FMR studies in py/Ta and py/Ta/py/Fe structures prepared by sputtering			
POS-24	(G)*	HEINRICH, Bret; Simon Fraser University Periodic Squeezing in a Polariton Josephson Junction			
		ANDERSON, Mitchell D.; École Polytechnique Fédérale de Lausanne			
		INDUSTRIAL AND APPLIED PHYSICS / PHYSIQUE INDUSTRIELLE ET APPLIQUÉE (DIAP-DPIA)			
POS-25	(G)*	Progress on Muon Tomography for nuclear security and safeguards ERLANDSON, Andrew; Carleton University			
	F	INSTRUMENTATION AND MEASUREMENT PHYSICS / PHYSIQUE DES INSTRUMENTS ET MESURES (DIMP-DPIM)			
POS-26	(G)*	Internal Backgrounds in Water Phase of SNO+			

LAM, Ian; Queens University

		PHYSICS IN MEDICINE AND BIOLOGY/ PHYSIQUE EN MÉDECINE ET EN BIOLOGIE (DPMB)
POS-27	² H N	MR studies of bacterial membrane perturbation by antimicrobial polypeptides
POS-28	(U)*	MORROW, Michael R.; Memorial University of Newfoundland A "two-peak" pattern observed in the high-frequency neural oscillations of a weakly electric fish BERRADA, Amina; University of Ottawa
POS-29	(U)*	Impact of Insertion and Deletion Mutations on Protein Thermodynamics WILKINS, Ryan; Memorial University of Newfoundland
POS-30		Broadband Vibration Detection in Tissue Phantoms using a Fiber Fabry-Perot Cavity
POS-31	(G)*	SIJIA, Li; Queens's University Characterization and evaluation of femtosecond laser-induced periodic surface structure with different periodicities on titanium to improve osseointegration of dental and orthopedic implants EXIR, Hourieh; University of Ottawa
POS-32		Giant Axonal Neuropathy alters the structure of keratin intermediate filaments in human hair SOOMRO, Asfia; McMaster University
		PLASMA PHYSICS / PHYSIQUE DES PLASMAS (DPP)
POS-33	(G)*	Vibration Analysis of a Dry Dilution Refrigerator at the Queen's SuperCDMS Test Facility GERMOND, Richard; Queen's University
		THEORETICAL PHYSICS / PHYSIQUE THÉORIQUE (DTP-DPT)
POS-34	(U)*	Quantum Reference Frames, 1+1 Newtonian Gravity, and Entanglement in a 3-Body System
POS-35		DAVIS, Jack; University of Waterloo Atiyah-Hitchin in Einstein-Gauss-Bonnet Gravity GHEZELBASH, Masoud; University of Saskatchewan
		PARTICLE PHYSICS / PHYSIQUE DES PARTICULES (PPD)
POS-36	(G)*	Radon Assays in SNO+ WOOSAREE, Pooja; Laurentian University
POS-37	(G)*	Process system bursts and cosmic ray muon events in DEAP-3600 ERLANDSON, Andrew; Carleton University
POS-38	(G)*	Effect of systematics on the KDK experiment SQUILLARI, Pierre; Queen's University

POS-39	(G)*	Radial Fiducialization in CDMSlite
		UNDERWOOD, Ryan; Queen's University
POS-40	$(G)^*$	Position Reconstruction and Monte Carlo Tuning in DEAP-3600
		RETHMEIER, Carl; Carleton University
POS-41	$(G)^*$	A Study of Radioactive Argon Isotopes in DEAP-3600
		DUNFORD, Matthew; Carleton University
POS-42	$(G)^*$	Acrylic compatibility testing for the SNO+ Experiment
		BARTLETT, Daniel; Queen's University
POS-43	(G)	A review of statistical methods in the discovery of the Higgs boson at the LHC
		FRANCISCO, Carla; Université Laval