

Session Program

2-7 Jun 2019



Canadian Association
of Physicists

Association canadienne
des physiciens et physiciennes

2019 CAP Congress / Congrès de l'ACP 2019

***DAMOPC Poster Session & Student Poster
Competition Finals (26) | Session d'affiches
DPAMPC et finales du concours d'affiches
étudiantes (26)***

Simon Fraser University

Tuesday 4 June

16:45

DAMOPC Poster Session & Student Poster Competition Finals (26) | Session d'affiches DPAMPC et finales du concours d'affiches étudiantes (26)

Session | **Location:** Simon Fraser University, SWH 9082 + AQ South-East Corner / coin sud-est | **Convener:** Karl-Peter Marzlin

16:45-16:47

35 - Plasmon-Enhanced Stimulated Raman Spectroscopy with Low-Power CW Lasers

Speaker

Dr Yashar Esfahani Monfared

16:47-16:49

36 - Improving Optical Pumping Methods for Nuclear Beta Decay

Speaker

John Behr

16:49-16:51

37 - Ion beam injection and extraction simulations in TITAN's cooler Penning trap

Speaker

Roshani Silwal

16:51-16:53

38 - Radio-frequency spectroscopy of one-dimensional Fermi gases near a p-wave Feshbach resonance

Speaker

Scott Smale

16:53-16:55

39 - Sorting of Free-Space Spatial Modes of Light with Integrated Optics

Speaker

Dr Boris Braverman

16:55-16:57

40 - Propriétés optiques et électriques des couches minces du VO₂

Speaker

Adil Driouach

16:57-16:59

41 - Controlled enantioselective orientation of chiral molecules with an optical centrifuge

Speaker

Valery Milner

16:59-17:01

42 - Adsorption of organic molecules on solid surfaces using surfactants: A Molecular dynamics study

Speaker

Prof. Hector Dominguez

17:01-17:03

43 - A Stern-Gerlach separator of chiral enantiomers based on the Casimir-Polder potential**Speaker**

Dr Fumika Suzuki

17:03-17:05

44 - Sum rule for transport dynamics of ultracold atoms in an optical lattice**Speaker**

Mr Rhys Anderson

17:05-17:07

45 - Modifying spin transport in a one-dimensional nondegenerate ultracold gas**Speaker**

Sean Graham

17:07-17:09

46 - EDM³: Measuring the electron electric dipole moment using polar molecules embedded in solid argon**Speaker**

Z. Corriveau

17:09-17:11

47 - A Slow Optical Centrifuge**Speakers**

Ian MacPhail-Bartley, Walter Wasserman

17:11-17:13

48 - Building a Portable, Cold-Atom Pressure Standard**Speaker**

Perrin Waldock

17:13-17:15

49 - Development of a gold nanoparticle sensor to detect environmental DNA of invasive fish species in the Great Lakes**Speaker**

Ms Meaghen Shiha

17:15-17:17

50 - A First Realization of a Quantum Pressure Standard**Speaker**

Mr Pinrui Shen

17:17-17:19

51 - Precision characterization of the linear-zigzag transition in ultracold trapped ion crystals**Speaker**

Mr Brendin T Chow

17:19-17:21

52 - Electron plasma studies for a cooler Penning trap at TITAN**Speaker**

Stefan Felix Paul

17:21-17:23

53 - Production of Ultracold Lithium Triplet Dimers by STIRAP

Speaker

Denis Uhland

17:23-17:25

54 - Quantum state dependent chemistry of ultra-cold 6Li_2 dimers**Speaker**

Erik Frieling

17:25-17:27

55 - Development of a Novel 650 MHz Resonator for Microwave Spectroscopy of Antihydrogen**Speaker**

Ms Justine Munich

17:27-17:29

56 - Ultrahigh-Precision Measurement of the $n = 2$ Triplet P Fine Structure of Atomic Helium Using Frequency-Offset Separated Oscillatory Fields**Speaker**

K. Kato

17:29-17:31

57 - The $5s \rightarrow 6s$ Stark shift measured via two-photon spectroscopy in laser-trapped rubidium**Speaker**

Michael Kossin

17:31-17:33

58 - Dueling Dynamical Backaction in a Cryogenic Optomechanical Cavity**Speaker**

Bradley Hauer

17:33-17:35

59 - Carbon disulfide superrotors in helium nanodroplets**Speaker**

Jordan Fordyce

17:35-17:37

60 - Fiber-based nanoprobe for the detection of chemicals**Speaker**

Ms Navneet Kaur

18:15