

Session Program

6-11 Jun 2021



Canadian Association
of Physicists

Association canadienne
des physiciens et physiciennes

2021 CAP Virtual Congress / Congrès virtuel de l'ACP 2021

***M1-1 Degenerate Quantum Gases and cold
Atoms and Molecules (DAMOPC) / Gaz
quantiques dégénérés et atomes et
molécules froids (DPAMPC)***

Underline Conference System

Sunday 6 June

11:45

M1-1 Degenerate Quantum Gases and cold Atoms and Molecules (DAMOPC) / Gaz quantiques dégénérés et atomes et molécules froids (DPAMPC)

Session | **Location:** Underline Conference System | **Convener:** Duncan O'Dell

11:45-11:50 **(I) Ultracold chemistry with triplet molecules**

Speaker

Prof. Alan Jamison

11:50-11:55 **(I) Quantum Sensing with Matter-Wave Interferometers**

Speaker

Prof. Brynle Barrett

11:55-12:00

(I) Quantum archæology: how much time does an atom spend tunneling through a beam of light, and how much time do photons spend “trapped” in atoms?

Speaker

Prof. Aephraim Steinberg

12:00-12:04 **Localization of composite quantum particles in a random potential**

Speaker

Fumika Suzuki

12:04-12:08

Simulating gravity-assisted loading and motion of laser-cooled atoms in hollow-core optical fibres

Speaker

Sreesh Venuturumilli

12:08-12:12 **(G*) Quantum bifurcations in a Bose-Einstein condensate**

Speaker

Ms Denise Kamp

12:12-12:16 **Propagation of correlations in the Bose Hubbard model**

Speaker

Malcolm Kennett

12:16-12:20

(G*) Manipulation of phonon modes in a trapped-ion system by optical tweezers

Speaker

Yi Hong Teoh

12:20-12:30 **Group discussion**

12:30