

## **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**

### ***W4-1 Quantum Information: Experiments (DAMOPEC) / Information quantique: expériences (DPAMPC)***

Underline Conference System

## Wednesday 9 June

16:45

### W4-1 Quantum Information: Experiments (DAMOPC) / Information quantique: expériences (DPAMPC)

Session | Location: Underline Conference System | Convener: Jens Lassen

16:45–16:50 **(I) Quantum Cryptography Beyond Qubits with Structured Photons**

**Speaker**

Prof. Ebrahim Karimi

16:50–16:55

**(I) Quantum electromechanics: photon conversion, nonreciprocity, and entanglement**

**Speaker**

Prof. Shabir Barzanjeh

16:55–16:59

**Millimeter Wave Quantum Optomechanics**

**Speaker**

Dr Bradley Hauer

16:59–17:03

**(G\*) Demonstration of a model for AFC cavity quantum memory**

**Speaker**

Ms Shahrzad Taheri

17:03–17:07

**(G\*) Exceptional points in helically structured thin films**

**Speaker**

Mr Gabriel J. Gallant

17:07–17:11

**(G\*) Towards a Radioactive Barium Atomic Source for an Open-access Trapped Ion Quantum Information Processor**

**Speaker**

Noah Greenberg

17:11–17:15

**(G\*) Towards a large scale fully programable trapped ion quantum simulator**

**Speaker**

Nikhil Kotibhaskar

17:15–17:30

**Group discussion**

17:30