

Session Program

18-23 Jun 2023



Canadian Association
of Physicists

Association canadienne
des physiciens et physiciennes

2023 CAP Congress / Congrès de l'ACP 2023

***(DPE/CAP) T3-8 Q-STATE: Quantum Science,
Technology, Applications, Training, and
Education | Science, technologie,
applications, formation et éducation
quantiques (DEP/ACP)***

University of New Brunswick

Monday 19 June

13:15

(DPE/CAP) T3-8 Q-STATE: Quantum Science, Technology, Applications, Training, and Education | Science, technologie, applications, formation et éducation quantiques (DEP/ACP)

Session | **Location:** Rm. 5 (max. 70), UNB Tilley Hall | **Convener:** Olivia Dimatteo

13:15–13:20 **Opening remarks**

13:20–13:30

What do recent collapses of quantum algorithms mean for quantum computing?

Speaker

Thomas Baker

13:30–13:40

The future of optical quantum information: Farther, Better, Slower, Stronger

Speaker

Deny Hamel

13:40–13:50

The role of artificial neural networks in quantum many-body physics

Speaker

Stef Czischek

13:50–14:00

Quantum resources in the future of quantum information

Speaker

Prof. Carlo Maria Scandolo

14:00–14:10

Beyond qubits: a glimpse at bosonic quantum technologies

Speaker

Hoi-Kwan Lau

14:10–14:20

The quantum computing stack

Speaker

Dr Julien Ross

14:20–14:35

Quantum State Engineering using collective spin excitations

Speaker

Andrew MacRae

14:35–14:50

Quantum State Engineering using collective spin excitations

Speaker

Andrew MacRae

14:50