

Session Program

8-13 Jun 2025



**Canadian Association
of Physicists**

**Association canadienne
des physiciens et physiciennes**

2025 CAP Congress / Congrès de l'ACP 2025
(DQI) T1-11 | (DIQ)

Tuesday 10 June

10:15

(DQI) T1-11 | (DIQ)

Session

10:15–10:45

Integrated silicon colour centre devices

Speaker

Daniel Higginbottom

10:45–11:00

Optical depth and its relation to warm ensemble based quantum memories and communication rates

Speaker

Connor Kupchak

11:00–11:15

Passive relays for continental distance quantum communication

Speaker

Wilson Wu

11:15–11:30

Surface Ion Trap System for Barium-Based Quantum Information Processing

Speaker

Akbar Jahangiri Jozani

11:30–11:45

Droplet creation in the walking droplet pilot wave system and in Bose-Einstein condensates: walking droplets, vortex molecules, and Faraday instability

Speaker

Vicky Howse

11:45–12:00

The Relativistic Origin of Quantum Indeterminacy

Speaker

Prof. Jonathan Sharp

12:00