

Session Program

8-13 Jun 2025



**Canadian Association
of Physicists**

**Association canadienne
des physiciens et physiciennes**

2025 CAP Congress / Congrès de l'ACP 2025

***(DCMMP) T1-4 Quantum and Soft Materials |
Matériaux quantiques et mous (DPMCM)***

Tuesday 10 June

10:15

(DCMMP) T1-4 Quantum and Soft Materials | Matériaux quantiques et mous (DPMCM)

Session

10:15-10:30

Characterizing Neuromorphic Nanowire Networks via a Unified Computational Framework

Speaker

Marcus Kasdorf

10:30-10:45

Exploring Collapsed Single-Walled Carbon Nanotubes as Quasi-1D Electronic Systems

Speaker

Zachary Ireland

10:45-11:00

Ising Spin-Orbit Coupling and Electronic Band Structures of t_{2g} Electrons at Charged Ferroelectric Domain Walls

Speaker

Ms Maryam Nasir

11:00-11:15

DFT studies of the effect of magnetic ordering and Hubbard U on the properties of UN

Speaker

Dr Barbara Szpunar

11:15-11:30

Capillary-Driven Coalescence of Bidisperse Particle Rafts with Tunable Cohesion

Speaker

Cameron Burns

11:30-11:45

Memory formation using local deformations in a disordered aggregate of droplets

Speaker

Marzuk Gazi

12:00