Session Program

21–26 Jun 2026

Canadian Association of Physicists

Association canadienne des physiciens et physiciennes

2026 CAP Congress / Congrès de l'ACP 2026

(DCMMP) T1-4 Data-Driven Approaches | Approches fondées sur les données (DPMCM)

U. Ottawa - Learning Crossroads (CRX) Building
100 Louis-Pasteur Private, Ottawa, ON K1N 9N3

Tuesday 23 June

10:15

(DCMMP) T1-4 Data-Driven Approaches | Approches fondées sur les données (DPMCM)

Session |
Location: U. Ottawa - Learning Crossroads (CRX) Building, 100 Louis-Pasteur Private, Ottawa, ON K1N 9N3

10:15–10:30

G4CMP -- Simulating condensed matter physics with Geant4 in dark matter research and quantum information science

Speaker
Stefan Zatschler

10:30–10:45

Transport in close-packed solids with stacking faults

Speaker
Connor Wilson

10:45–11:00

A simple holographic principle for bonding in real materials

Speaker
Ashland Knowles

11:00–11:15

Numerical study of Li ion diffusion in Li-M alloys using machine-learning assisted canonical sampling

Speaker
Hoan Tran Van

11:15–11:30

Simmering: Physical is Better than Optimal for Training Neural Networks

Speaker
Irina Babayan

11:30–11:45

Machine Learning Approach to Identify and Quantify Nanoscale Variations in the Mechanical Properties of Soft Nanoparticles

Speaker
Dr Benjamin Baylis

12:00