

Session Program

8-13 Jun 2025



**Canadian Association
of Physicists**

**Association canadienne
des physiciens et physiciennes**

2025 CAP Congress / Congrès de l'ACP 2025

***(DTP) M2-10 Quantum Systems II /
Astrophysics of Compact Objects |
Astrophysique des objets compacts (DPT)***

Monday 9 June

14:15

(DTP) M2-10 Quantum Systems II / Astrophysics of Compact Objects |
Astrophysique des objets compacts (DPT)

Session

14:15-14:30

Non-Markovianity and entanglement in collision models with initial intra-environment correlations

Speaker

Angel Neira

14:30-14:45

Simulating a superposition of spacetimes with optical media

Speaker

María Rosa Preciado-Rivas

14:45-15:15

Unravelling the mysteries of black holes and neutron stars with flashes, bursts and eruptions

Speaker

Alexandra Tetarenko

15:15-15:30

Compact Stars and Extreme Compact Objects (ECOs) in 4D Einstein Gauss-Bonnet Gravity

Speaker

Michael Gammon

15:30-15:45

Resolving a Cosmological Tension with Galaxy Cluster Formation Histories

Speaker

Rashaad Reid

15:45