

Session Program

26-31 May 2024



Canadian Association
of Physicists

Association canadienne
des physiciens et physiciennes

2024 CAP Congress / Congrès de l'ACP 2024 ***(DTP) M2-2 Gravity and Cosmology | Gravité et cosmologie (DPT)***

Western University

Sunday 26 May

14:15

(DTP) M2-2 Gravity and Cosmology | Gravité et cosmologie (DPT)

Session | **Location:** Physics & Astronomy Bldg., Western U., PAB Rm 148 (cap. 96) | **Convener:** Robert Mann

14:15–14:30 **(G*) Origins of thermalization in quantum cosmology**

Speaker

Mr Michael Osei

14:30–14:45 **(G*) Semiclassical geometrodynamics of homogeneous cosmology**

Speaker

Muhammad Muzammil

14:45–15:00 **Entanglement production through a cosmological bounce**

Speaker

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15:00–15:15

(G*) Gravitational scattering of the light emitted by the CMB due to fluctuations in the density of the universe.

Speaker

Thomas Forget

15:15–15:30 **(G) On the SU(2) gauge symmetry in Loop Quantum Cosmology**

Speaker

Matteo Bruno

15:30–15:45

(G*) Quark stars with a unified interacting equation of state in regularized 4D Einstein-Gauss-Bonnet gravity

Speaker

Michael Gammon

15:45