

Session Program

31 August 2026 to 4 September 2026

PPC 2026

Particle Physics and Beyond

Monday 31 August

14:00

Particle Physics and Beyond Session

14:00-14:25 Perspectives on the strong CP problem

Speaker

Prof. Anthony Williams

14:25-14:50 Emergent particle states in electroweak theory and gravity

Speaker

Prof. Archil Kobakhidze

14:50-15:15

Electromagnetic instantons and asymmetric Hawking radiation of black holes

Speaker

Elden Loomes

15:15-15:40 Barrier Tunnelling of a Particle in QFT

Speaker

Aditya Singh Tejas

15:40

16:10

Particle Physics and Beyond Session

16:10-16:35

Nonlinear-Supersymmetric General Relativity(NLSGR) -Unification of Space, time and matter-

Speaker

Prof. Kazunari Shima

16:35-17:00 Quantum (non)equivalence of dual massive p-form gauge theories

Speaker

Christian Canete

17:00-17:25

QCD and electroweak phase transitions with hidden scale invariance: implications for primordial black holes, quark-lepton nuggets and gravitational waves

Speaker

Joshua Cesca

17:25

Tuesday 1 September

16:10

Particle Physics and Beyond Session

16:10-16:35

Probing Higgs triplet models via the 125 GeV Higgs boson decays with radiative corrections

Speaker

Dr Mariko KIKUCHI

16:35-17:00

Aspects of a Five-Dimensional $U(1)_{L\mu-L\tau}$ Model at Future Muon-Based Colliders

Speaker

Dibyendu Chakraborty

17:00-17:25

Complex τ Electric Dipole Moment from GeV-Scale New Physics

Speaker

Zhonglv Huang

17:25

Thursday 3 September

14:00

Particle Physics and Beyond Session

14:00-14:25

Unitarity Cuts, t-channel Divergences and the KLN Theorem for Unstable Particles

Speaker

Marko Beocanin

14:25-14:50

Infrared Divergences in Axion Freeze-in Production

Speaker

Lachlan Tobin

14:50-15:15

Enhanced Sensitivity to Low-Mass Z' Bosons in Light Atoms via Parity Nonconservation

Speaker

Garry Vong

15:15-15:40

Minimal Majoron Dark Matter

Speaker

Haruto Kitagawa

15:40

16:10

Particle Physics and Beyond Session

16:10-16:35

A new measurement of the $K^+ \rightarrow \pi^+ \nu \bar{\nu}$ branching ratio at the NA62 experiment

Speaker

Radoslav Marchevski

16:35-17:00

Angular Observables and $|V_{cb}|$ Extraction in $B \rightarrow D^{(*)} \ell X_{\text{inv}}$ Decays with Massive Dark Fermions

Speaker

Ms Lipika Kolay

17:00-17:25

Baryon number violating nucleon decay in effective field theories

Speaker

Weihang Zhang

17:25