

Session Program

30 November 2025 to 5 December 2025



AIP summer meeting 2025

Theoretical Physics

Building 40, Hope Theatre
University of Wollongong Northfields Avenue Wollongong NSW 2522

Monday 1 December

10:45

Theoretical Physics

Session |

Location: Building 40, Hope Theatre, University of Wollongong Northfields Avenue Wollongong NSW 2522

10:45–11:15

The quantum theory of time: detail modelling of the effects of T violation

Speaker

Joan A Vaccaro

11:15–11:30

Expanding the class of Free Fermions

Speaker

Jannis Ruh

11:30–11:45

Gravitational waves from phase transitions in the early universe

Speaker

Flynn Linton

11:45–12:00

Axion Quality, Clockwork & Extra Dimensions

Speaker

Marko Beocanin

12:00–12:15

Wavelet analysis of quantum fields that self interact

Speaker

Dominic Lewis

12:15–12:30

Novel droplet phase of exciton-polariton mixtures in atomically thin semiconductors

Speaker

Jesper Levinsen

12:30

13:30

Theoretical Physics

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13:30–14:00

Interactions between photons and gravitational field beyond the general theory of relativity

Speaker

Enbang Li

14:00–14:15

A new time-dependent approach to modeling nuclear fusion

Speaker

Aditya Singh Tejas

14:15–14:30

Selection rules for charged lepton flavour violating processes from residual flavour groups

Speaker

James Vandeleur

14:30–14:45

Emergent metric from wavelet-transformed quantum field theory**Speaker**

Simon Vedral

14:45–15:00

Baryon number violating nucleon decay with a light scalar in effective field theories**Speaker**

Weihang Zhang

15:00