

Session Program

17-19 Dec 2025

**Athens Xmas Workshop in Theoretical
Physics - 2025**

Morning Session I

Central Building of the National and Kapodistrian University of Athens, Amphitheater Alkis Argyriadis
30 Panepistimiou, 10679, Athens

Wednesday 17 December

09:30

Morning Session I

Session |

Location: Central Building of the National and Kapodistrian University of Athens, Amphitheater Alkis Argyriadis, 30
Co-ordinator: Konstantinos Petros

09:30-10:15

The thermal representation of conformal ladder integrals

Speaker

Tassos Petkou

10:15-11:00

Bipolaronic high transition- temperature superconductivity

Speaker

John Sous

11:00

Thursday 18 December

09:30

Morning Session I

Session |

Location: Central Building of the National and Kapodistrian University of Athens, Amphitheater Alkis Argyriadis, 30
Ermou Street, 11527 Athens |

09:30-10:15

Non-relativistic unitarity, long-range interactions and dark matter

Speaker

Kalliopi Petraki

10:15-11:00

CP and Flavour Violation as a Probe for New Phenomena

Speaker

Emmanuel Stamou

11:00

Friday 19 December

09:30

Morning Session I

Session |

Location: Central Building of the National and Kapodistrian University of Athens, Amphitheater Alkis Argyriadis, 30
Ermystirion, 10709 Athens

09:30-10:15

Quantum Simulation and Optimization using Rydberg Atoms

Speaker

Peter Schmelcher

10:15-11:00

Mathematical Structures in Scattering Amplitudes

Speaker

Anastasia Volovich

11:00