Session Program

7–11 Dec 2026



26th Australian Institute of Physics Congress and the Australian and New Zealand Conference on Optics and Photonics

AIP ATMOP: Quantum Matter (Cold atoms, Solid State)

The University of Sydney , Belinda Hutchinson Building
Abercrombie St & Codrington St NSW 2008

Wednesday 9 December

11:00

AIP ATMOP: Quantum Matter (Cold atoms, Solid State)

Session |
Location: The University of Sydney , Belinda Hutchinson Building, Abercrombie St & Codrington St NSW 2008 |
Convener: Joshua Machacek

11:00–11:30 **Quantum droplets of light in semiconductor microcavities**

Speaker
Matteo Caldara

11:30–11:45 **When does a Fermi puddle become a Fermi sea?**

Speaker
Emma Laird

11:45–12:00 **Repulsive polaron quasiparticles in the strongly correlated regime**

Speaker
Prof. Meera Parish

12:00–12:15 **Diode-integrated silicon colour centres**

Speaker
Daniel Higginbottom

12:15–12:30 **Feedback control of ultra-cold quantum gases**

Speaker
Kaiwen Zhu

12:30