

Session Program

30 November 2025 to 5 December 2025



AIP summer meeting 2025

Focus Session - From edge states to emergent phases

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

Monday 1 December

10:45

Focus Session - From edge states to emergent phases: Focus Session: From Edge States to Emergent Phases

Session | **Location:** Room 107, Building 67 | **Convener:** Julie Karel

11:00-11:30

The Interplay of Electron Correlation, Electron-Phonon Coupling, and Nontrivial Topology in High Temperature Superconducting FeSe/SrTiO₃ Heterostructure

Speaker

Prof. Subhasish Mandal

11:30-12:00

Chiral topological superconductivity in Sn/Si(111) and related compounds

Speaker

Stephan Rachel

12:00-12:30

Three-dimensional flat band in ultra-thin Kagome metal Mn₃Sn film

Speaker

Dr Mengting Zhao

12:30

13:30

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13:30-14:00

Bimerons and Antibimerons in Magnetic Topological Materials

Speaker

Prof. Oleg Tretiakov

14:00-14:30

Group theory method for extracting order parameters from scanning tunneling microscopy data

Speaker

Harley Scammell

14:30-15:00

Some Recent Developments in SPM Probing of Ferroelectrics: Crackling Noise Microscopy, Phonon-Nanoscopy and Optically Manipulated Ferroelectricity in BiFeO₃

Speaker

Jan Seidel

15:00