

4th PSI Condensed Matter Summer Camp 2023

Report of Contributions

Contribution ID: 1

Type: **not specified**

Arrival / Registration / check-in

Sunday, 6 August 2023 16:00 (4 hours)

Contribution ID: 2

Type: **not specified**

Departure

Friday, 11 August 2023 13:30 (1h 30m)

Contribution ID: 42

Type: **not specified**

Using muons to probe quantum entanglement and spin liquids

Monday, 7 August 2023 09:00 (45 minutes)

Presenter: BLUNDELL, Stephen (University of Oxford)

Contribution ID: 43

Type: **not specified**

van der Waals magnets: neutron and synchrotron

Monday, 7 August 2023 09:45 (45 minutes)

Presenter: PARK, Je-Geun

Contribution ID: 44

Type: **not specified**

Numerical Studies of Quantum Spin Liquids

Monday, 7 August 2023 11:00 (45 minutes)

Presenter: LÄUCHLI HERZIG, Andreas Martin (PSI - Paul Scherrer Institut / EPFL)

Contribution ID: 45

Type: **not specified**

Nonequilibrium Quantum Magnetism

Monday, 7 August 2023 14:00 (45 minutes)

Presenter: NORMAND, Bruce George Alexander (PSI - Paul Scherrer Institut)

Contribution ID: 46

Type: **not specified**

Ultrafast linear and nonlinear transport on chip

Monday, 7 August 2023 14:45 (45 minutes)

Presenter: WANG, Eryin

Contribution ID: 47

Type: **not specified**

Engineering quantum geometry and light matter interactions at oxide interfaces

Monday, 7 August 2023 16:00 (45 minutes)

Presenter: CAVIGLIA, Andrea (Max Planck Research Department for Structural Dynamics, University of Hamburg)

Contribution ID: 48

Type: **not specified**

Quantum microscopy on 2D magnets

Tuesday, 8 August 2023 08:00 (45 minutes)

Presenter: WRACHTRUP, Jörg

Contribution ID: 49

Type: **not specified**

Illuminating Atomic-Scale Devices: 2D Electron Systems in Traditional Semiconductors

Tuesday, 8 August 2023 08:45 (45 minutes)

Presenter: SCHOFIELD, Steven

Contribution ID: 50

Type: **not specified**

Imaging quantum materials with scanning SQUID microscopy

Tuesday, 8 August 2023 10:00 (45 minutes)

Presenter: KALISKY, Beena

Contribution ID: 51

Type: **not specified**

Spin dynamics in the triangular lattice: the case of delafossites

Tuesday, 8 August 2023 15:30 (45 minutes)

Presenter: NIKITIN, Stanislav (PSI - Paul Scherrer Institut)

Contribution ID: 52

Type: **not specified**

Next Level 2D Quantum Materials

Tuesday, 8 August 2023 16:45 (45 minutes)

Presenter: ROY, Xavier

Contribution ID: 53

Type: **not specified**

Non-equilibrium dynamics of thin film perovskites and its interfaces

Tuesday, 8 August 2023 17:30 (45 minutes)

Presenter: STAUB, Urs (PSI - Paul Scherrer Institut)

Contribution ID: 54

Type: **not specified**

Welcome and Opening of the Camp

Monday, 7 August 2023 08:45 (15 minutes)

Presenter: KENZELMANN, Michel (PSI - Paul Scherrer Institut)

Contribution ID: 55

Type: **not specified**

The conspicuous case of 1T-TaS₂: from polaron condensation to x-ray modulators

Wednesday, 9 August 2023 08:00 (45 minutes)

Presenter: MIHAILOVIC, Dragan (Jozef Stefan Institute)

Contribution ID: 56

Type: **not specified**

2D materials and heterostructures at the atomic scale

Wednesday, 9 August 2023 08:45 (45 minutes)

Presenter: LUICAN-MAYER, Adina

Contribution ID: 57

Type: **not specified**

Explorations from electric controlled ferroics/multiferroics to emergent transition metal oxide monolayers

Wednesday, 9 August 2023 10:00 (45 minutes)

Presenter: HE, (Helen) Qing

Contribution ID: 58

Type: **not specified**

Advances and Future Prospects in Interfaces engineering and Freestanding Oxide Films

Wednesday, 9 August 2023 15:30 (45 minutes)

Presenter: PRYDS, Nini

Contribution ID: 59

Type: **not specified**

Emergent topological properties of twisted graphene devices

Wednesday, 9 August 2023 16:45 (45 minutes)

Presenter: EFETOV, Dmitri

Contribution ID: **60**

Type: **not specified**

The Quantum Twisting Microscope

Wednesday, 9 August 2023 17:30 (45 minutes)

Presenter: ILANI, Shahal

Contribution ID: **62**

Type: **not specified**

Flat bands and superconductivity in graphene-based materials

Thursday, 10 August 2023 08:00 (45 minutes)

Presenter: BLACK-SCHAFFER, Annica

Contribution ID: 63

Type: **not specified**

Tuning and understanding the intertwined phases in quasi-2D superconductors: the case of La-based cuprate and V-based kagome materials

Thursday, 10 August 2023 08:45 (45 minutes)

Presenter: GUGUCHIA, Zurab (PSI - Paul Scherrer Institut)

Contribution ID: 64

Type: **not specified**

Natural Superlattice Approaches to 2D materials

Thursday, 10 August 2023 10:00 (45 minutes)

Presenter: CHECKELSKY, Joseph (MIT)

Contribution ID: 65

Type: **not specified**

Resonant Inelastic X-ray Scattering on 2D Materials: Nematic Spin Correlations in FeSe and Observation of the Flat Magnon Band in a Ferromagnetic Kagome Metal

Thursday, 10 August 2023 15:30 (45 minutes)

Presenter: SCHMITT, Thorsten (PSI - Paul Scherrer Institut)

Contribution ID: 66

Type: **not specified**

Photoemission spectroscopy of CDW and SDW phases in low dimensional materials

Thursday, 10 August 2023 16:45 (45 minutes)

Presenter: Prof. MONNEY, Claude (University of Fribourg)

Contribution ID: 67

Type: **not specified**

Superconductivity in layered materials

Thursday, 10 August 2023 17:30 (45 minutes)

Presenter: RAMIRES, Aline

Contribution ID: 68

Type: **not specified**

Transport and thermodynamic studies of microstructures quantum materials

Friday, 11 August 2023 09:00 (45 minutes)

Presenter: MACKENZIE, Andrew

Contribution ID: 69

Type: **not specified**

STM spectroscopy of monolayer chalcogenide and dichalcogenide films: superconductors and quantum spin Hall systems

Friday, 11 August 2023 09:45 (45 minutes)

Presenter: MADHAVAN, Vidya

Contribution ID: 70

Type: **not specified**

van der Waals magnets: An ARPES perspective

Friday, 11 August 2023 11:00 (45 minutes)

Presenter: YI, Ming

Contribution ID: 71

Type: **not specified**

Closing of the Camp

Friday, 11 August 2023 11:45 (15 minutes)

Presenter: KENZELMANN, Michel (PSI - Paul Scherrer Institut)