

**Universal themes in
Bose-Einstein Condensation**

Report of Contributions

Contribution ID: 3

Type: **not specified**

Opening

Monday 4 November 2024 08:50 (10 minutes)

Contribution ID: 4

Type: **not specified**

Welcome by the ECT* Director

Monday 4 November 2024 09:00 (15 minutes)

Presenter: VAN KOLCK, Ubirajara (IJCLab Orsay & University of Arizona)

Contribution ID: 5

Type: **not specified**

Propagation of sound and superfluidity

Monday 4 November 2024 09:15 (45 minutes)

Presenter: STRINGARI, Sandro (Università di Trento)

Contribution ID: 6

Type: **not specified**

New results with exciton and polariton condensate systems

Monday 4 November 2024 10:00 (30 minutes)

Presenter: SNOKE, David (Univ. Pittsburgh)

Contribution ID: 7

Type: **not specified**

Quantum turbulence

Monday 4 November 2024 11:00 (30 minutes)

Presenter: BARENGHI, Carlo (Newcastle University)

Contribution ID: 8

Type: **not specified**

Universal dynamics far from equilibrium

Monday 4 November 2024 11:30 (30 minutes)

Presenter: GASENZER, Thomas (Heidelberg University, Germany)

Contribution ID: 9

Type: **not specified**

Controlling the dynamics of atomic correlations via the coupling to a dissipative cavity

Monday 4 November 2024 12:00 (30 minutes)

Presenter: HALATI, Catalin-Mihai (DQMP, University of Geneva)

Contribution ID: 10

Type: **not specified**

Electrically tunable photon correlations from waveguide dipolar polaritons with over a micrometer blockade radius

Wednesday 6 November 2024 16:00 (30 minutes)

Presenter: RAPAPORT, Ronen (The Hebrew University)

Contribution ID: 11

Type: **not specified**

Experimental studies of Bose-Einstein condensation of magnons

Monday 4 November 2024 14:30 (30 minutes)

Presenter: Dr SERHA, Oleksandr (University of Kaiserslautern-Landau)

Contribution ID: 12

Type: **not specified**

Dissipative Phases of a Bose-Einstein Condensate of Photons

Monday 4 November 2024 15:00 (30 minutes)

Presenter: WEITZ, Dr. Martin (Institute of Applied Physics, Universität Bonn)

Contribution ID: 13

Type: **not specified**

Bose-Einstein condensation of quantum mixtures

Thursday 7 November 2024 16:00 (30 minutes)

Presenter: SPADA, Gabriele

Contribution ID: 14

Type: **not specified**

Dynamical scaling in turbulent Bose-Einstein condensates

Monday 4 November 2024 16:30 (15 minutes)

Presenter: MADEIRA, Lucas (University of São Paulo)

Contribution ID: 15

Type: **not specified**

Universal coarsening in homogeneous Bose gases

Thursday 7 November 2024 11:30 (30 minutes)

Presenter: HADZIBABIC, Zoran (University of Cambridge)

Contribution ID: 16

Type: **not specified**

Observation of many-body dynamical localization

Tuesday 5 November 2024 09:00 (30 minutes)

Presenter: NÄGERL, Hanns-Christoph (Universität innsbruck)

Contribution ID: 17

Type: **not specified**

Large, non-Gaussian condensate fluctuations at the Mott transition

Tuesday 5 November 2024 10:00 (30 minutes)

Presenter: CLEMENT, David (Institut d'Optique)

Contribution ID: **18**

Type: **not specified**

Ultracold Gases as Quantum Field Simulator

Tuesday 5 November 2024 09:30 (30 minutes)

Presenter: OBERTHALER, Markus

Contribution ID: 19

Type: **not specified**

Observation of false vacuum decay in a ferromagnetic superfluid

Tuesday 5 November 2024 11:00 (30 minutes)

Presenter: ZENESINI, Alessandro (CNR-INO)

Contribution ID: 20

Type: **not specified**

Bosonic Clusters in the Unitarity Limit

Tuesday 5 November 2024 11:30 (30 minutes)

Presenter: VAN KOLCK, Ubirajara (IJCLab Orsay & University of Arizona)

Contribution ID: 21

Type: **not specified**

sound and amplitude modes in trapped dipolar supersolids

Tuesday 5 November 2024 14:00 (30 minutes)

Presenter: KLEMT, Ralf

Contribution ID: 22

Type: **not specified**

Emerging supersolidity from a polariton condensate in a photonic crystal waveguide

Tuesday 5 November 2024 14:30 (30 minutes)

Presenter: TRYPOGEOGOS, Dimitrios (CNR Nanotec)

Contribution ID: 23

Type: **not specified**

The superfluid fraction of dipolar supersolids

Tuesday 5 November 2024 15:00 (30 minutes)

Presenter: ANTOLINI, Nicolò (LENS, University of Florence)

Contribution ID: 24

Type: **not specified**

Supersolidity of polariton condensates in photonic crystal waveguides

Tuesday 5 November 2024 16:00 (30 minutes)

Presenter: NIGRO, Davide (University of Pavia)

Contribution ID: 25

Type: **not specified**

Spin-orbit-coupled fluids of light in bulk nonlinear media

Monday 4 November 2024 16:00 (30 minutes)

Presenter: MARTONE, Giovanni Italo (CNR NANOTEC and INFN, Sezione di Lecce)

Contribution ID: 26

Type: **not specified**

Towards dipolar supersolids on a ring

Tuesday 5 November 2024 16:30 (15 minutes)

Presenter: PRETI, Niccolò (Università degli studi di Firenze)

Contribution ID: 27

Type: **not specified**

Anomalous Doppler effect in superfluid and supersolid atomic gases

Tuesday 5 November 2024 16:45 (15 minutes)

Presenter: ZAWIŚLAK, Tomasz (University of Trento, Pitaevskii BEC Center)

Contribution ID: 28

Type: **not specified**

Recent adventures in the superfluid ^3He Universe

Wednesday 6 November 2024 09:00 (30 minutes)

Presenter: AUTTI, Samuli (Lancaster University)

Contribution ID: 29

Type: **not specified**

Light thermalization and condensation in multimode fibers: Wave turbulence theory and the role of disorder

Wednesday 6 November 2024 09:30 (30 minutes)

Presenter: PICOZZI, Antonio (CNRS - University of Bourgogne)

Contribution ID: **30**

Type: **not specified**

Synthetic frequency dimension in fast-gain lasers

Wednesday 6 November 2024 10:00 (30 minutes)

Presenter: DIKOPOLTSEV, Alexander (ETH Zurich)

Contribution ID: 31

Type: **not specified**

Some thoughts on phonon damping in superfluids

Tuesday 5 November 2024 12:00 (30 minutes)

Presenter: CASTIN, Yvan (Laboratoire Kastler Brossel de l'ENS)

Contribution ID: 32

Type: **not specified**

Quantum Oscillations in Excitonic Insulators

Wednesday 6 November 2024 11:30 (30 minutes)

Presenter: COOPER, Nigel (University of Cambridge)

Contribution ID: 33

Type: **not specified**

Two-dimensional excitonic insulators

Wednesday 6 November 2024 12:00 (30 minutes)

Presenter: RONTANI, Massimo (CNR-NANO, Modena, Italy)

Contribution ID: 34

Type: **not specified**

Spinor BECs : from cosmology to laboratory - online

Wednesday 6 November 2024 14:00 (30 minutes)

Presenter: JAIN, Mudit (King's College London)

Contribution ID: 35

Type: **not specified**

Is the universe a quantum condensate?

Wednesday 6 November 2024 14:30 (30 minutes)

Presenter: ORITI, Daniele (Universidad Complutense Madrid)

Contribution ID: 36

Type: **not specified**

Superfluidity in neutron stars

Wednesday 6 November 2024 15:00 (30 minutes)

Presenter: CHAMEL, Nicolas (Université Libre de Bruxelles, Belgium)

Contribution ID: 37

Type: **not specified**

Finite size analysis for interacting bosons at the 2D-1D Dimensional Crossover

Wednesday 6 November 2024 16:30 (15 minutes)

Presenter: PIZZINO, Lorenzo (University of Geneva)

Contribution ID: 38

Type: **not specified**

Stabilizing an attractive Bose-Einstein condensate with topological defects

Wednesday 6 November 2024 16:45 (15 minutes)

Presenter: CAPECCHI, Deborah (CNR Nanotec)

Contribution ID: 39

Type: **not specified**

BEC in the Cosmo: How dark matter could be a galactic condensate

Thursday 7 November 2024 09:00 (30 minutes)

Presenter: BETTONI, Dario (León University)

Contribution ID: 40

Type: **not specified**

Galactic-Scale Superfluidity: True Macroscopic Condensation with Long-Range Interactions?

Thursday 7 November 2024 09:30 (30 minutes)

Presenter: PROUKAKIS, Nick (Univ. Newcastle)

Contribution ID: 41

Type: **not specified**

Coherent and incoherent dynamics of Fuzzy Dark Matter

Thursday 7 November 2024 10:00 (30 minutes)

Presenter: RIGOPOULOS, Gerasimos (Newcastle University)

Contribution ID: 42

Type: **not specified**

Observation of Exciton BEC in Three-Dimensional Semiconductors

Wednesday 6 November 2024 11:00 (30 minutes)

Presenter: Dr MORITA, Yusuke (Institute for Photon Science and Technology, The University of Tokyo)

Contribution ID: 43

Type: **not specified**

Multi-parameter estimation and quantum enhanced sensing of an extended field

Thursday 7 November 2024 11:00 (30 minutes)

Presenter: SINATRA, Alice (Laboratoire Kastler Brossel ENS)

Contribution ID: 44

Type: **not specified**

Driven-dissipative spinor superfluids: a compact Kardar-Parisi-Zhang dynamics of the phase

Thursday 7 November 2024 12:00 (30 minutes)

Presenter: SZYMANSKA, Marzena (University College London)

Contribution ID: 45

Type: **not specified**

Observation of a diffusive Goldstone mode in a out of equilibrium polariton BEC.

Thursday 7 November 2024 14:00 (30 minutes)

Presenter: Prof. BRAMATI, Alberto

Contribution ID: 46

Type: **not specified**

Universal regimes in exciton-polariton condensates

Thursday 7 November 2024 14:30 (30 minutes)

Presenter: MINGUZZI, Anna (Laboratoire de Physique et Modélisation des Milieux Condensés, Université Grenoble Alpes and CNRS)

Contribution ID: 47

Type: **not specified**

TBC

Thursday 7 November 2024 15:00 (30 minutes)

Presenter: C2N, somebody

Contribution ID: 48

Type: **not specified**

On classical aspects of Bose-Einstein condensation

Presenter: PETTINARI, Lorenzo (university of Trento)

Contribution ID: 49

Type: **not specified**

Bosonic three- and four-body systems around the unitarity limit

Thursday 7 November 2024 16:30 (15 minutes)

Presenter: Dr WU, Feng (IJCLab)

Contribution ID: 50

Type: **not specified**

Non-Abelian braiding with singularities

Friday 8 November 2024 08:45 (30 minutes)

Presenter: ÜNAL, Nur (University of Cambridge)

Contribution ID: 51

Type: **not specified**

Signatures of fractional quantum Hall physics in small quantum fluids

Friday 8 November 2024 09:15 (30 minutes)

Presenter: UMUCALILAR, Onur

Contribution ID: 52

Type: **not specified**

Dynamical signature of vortex mass in Fermi superfluids

Friday 8 November 2024 09:45 (30 minutes)

Presenter: Dr RICHAUD, Andrea

Contribution ID: 53

Type: **not specified**

Wrap-up discussion

Friday 8 November 2024 10:45 (1h 15m)

Contribution ID: 54

Type: **not specified**

On-site registration

Monday 4 November 2024 08:15 (35 minutes)