



Poster session for Group A		
Konstantin Nemchenko	Specular and Diffusive Scattering Influence on the Thermal Conductivity of Nanoribbons	
Sergey Nemirovskii	Thermodynamically equilibrium quantum vortices in counterflowing superfluids. The structure of vortex tangle and the relation with quantum turbulence.	
Izumi Iwasa	Amplitude-dependent ultrasound propagation in solid ⁴ He	
Jun Usami	Superfluidity Found in the Possible Liquid Crystal Phase of 2D ⁴ He	
Subhendu De	Penning Electron Spectra of Camphor Molecules Embedded in Helium Nanodroplets by EUV Photoexcitation	
Mehdi Zarea	Theory of the anomalous frequency shift of superconducting Nb cavities	
Dubovskii Leonid	New Type of Macroscopic Quantum Nucleation Experiment in Overpressurized Superfluid Helium	
Jere Mäkinen	Suppressing the Kibble-Zurek mechanism by a symmetry-violating bias	
David Schmoranzer	Vortex Line Density in Turbulence due to Oscillators in Superfluid ⁴ He	
Bilal Tanatar	Rotons and Bose-Einstein condensation in Rydberg-dressed gases	
Xin Wen	Imaging Fluorescence of He ₂ * Excimers Created by Neutron Capture in Liquid He II—a New Approach for Turbulent Flow Research	
Manuel Arrayás	A levitation experiment in superfluid ³ He: design process.	
Ilya Polishchuk	Bose-Einstein Condensation and Ferromagnetism of Low Density Bose gas of Particles with Arbitrary Spin	
Tomo Nakagawa	Self-similar Structure of Localized Quantum Turbulence in Superfluid ⁴ He	
Marvin Hirschel	Listening to the Sound of Dark Matter with Superfluid Helium	
Leandra Vranjes Markic	Superfluidity and condensate properties of trapped Bose-Bose mixtures	
Haruya Kokubo	Phase diagram of pattern formation in binary Bose-Einstein condensates with shear flow	
Shiiya Shimamura	Circulation of suction vortex in superfluid helium	
Shion Yamashika	Stability of super currents in a superfluid phase of spin-1 bosons in an optical lattice	
Dillip Kumar Pradhan	Trapping Multielectron Bubbles Using a Point Paul Trap	





Thursday, 12 August 2021, 04:30PM - 05:30PM IST, 07:45PM - 08:30PM IST		
Poster session for Group F	3	
Taira Kawamura	Realization of unconventional Fermi superfluids through Fermi-surface reservoir-engineering	
Yuan Tang	Comparison of the second-order statistics in ultra-quantum turbulence and quasi classical turbulence in He II	
S.N.Burmistrov	Transmission of crystallization waves across the edge between the rough and faceted crystalline surfaces at the superfluid-solid ⁴ He interface	
Joe Kitzman	Vantablack Shielding of Superconducting Qubit Systems	
Yiming Xing	Electrons Produced in Superfluid Helium by Alpha Particles	
Junko Taniguchi	Measurements of superflow of ⁴ He through an oriented porous membrane	
Shan Zou	On dynamical ordering in a 2D electron crystal confined in a narrow channel geometry	
Weijun Zeng	Electrical low-frequency $1/f^{\gamma}$ noise as a tool for studies of Ne on freely suspended graphene	
Masaru Suzuki	Effects of ³ He impurities on the mass decoupling of ⁴ He films - lifetime of the metastable state -	
Ruslan Batulin	Nonlinear transport properties of electron on helium through microchannels with different geometries: New lab in Kazan	
Priya Sharma	Heat Transport in Superfluid ³ He in Anisotropic Aerogel	
Sumit Kumar	Microwave optomechanical measurement of non-metalized SiN strings below	
Francis C Bettsworth	Chasing Microkelvin Electron Temperatures in Nanoelectronics	
Weican Yang	Quantum Turbulence in Holographic Model: Vortex Statistics and Inverse Cascade	
Matt Rudd	Strong coupling corrections to hard domain walls in superfluid ³ He -B	
Vaisakh Vadakkumbatt	Superfluid helium based GW detector prototype	
Atsuki Kumashita	Pyrolytic graphite for synchrotron X-ray diffraction of two-dimensional helium films	
Asher Jennings	Towards Low Frequency Nano-mechanical Resonators in Superfluid Helium	
Koki Manabe	Strong-coupling effects on thermodynamic properties of a normal Bose-Fermi mixture with a tunable hetero-pairing interaction	
Yusuke Masaki	Vortices and non-Abelian anyons in ³ P ₂ nematic superfluids	





Friday, 13 August 2021, 04:30PM - 05:30PM IST, 07:45PM - 08:30PM IST Poster session for Group C		
Sosuke Inui	Development of Vortex Bundle Structure in Bathtub Vortex in Superfluid ⁴ He	
Kenta Asakawa	Equilibrium State of Bose-Einstein Condensates Formed by Dark Matter	
Krešimir Dželalija	Quantum Monte Carlo study of strongly interacting bosonic one-dimensional systems in periodic potentials	
Andrew Fefferman	A 3 nΩ superconducting aluminum heat switch	
Grytsenko Ivan	Optimization of a cryogenic LC-tank circuit for detection of the Rydberg state of electrons or helium	
Andrei Golov	Modeling of the interaction of a vortex line with a solid wall in the T=0 limit	
Hyunjin Choi	Nanomechanics as a New Thermometer for Superfluid Thin Film	
Yosuke Minowa	Optical trapping of dielectric nanoparticles in superfluid helium	
Shan Zou	Detection of Rydberg states of electrons on liquid helium confined in microchannel devices	
Alex Shook	Counting ³ He Remnant Vortices Via Fourth Sound Dissipation	
Robyn Learn	Precision Measurements of the Zero Temperature Density of Liquid ⁴ He using 3D Superconducting Microwave Cavities	
Vladimir Tsymbalenko	Dynamics of the fall of a quantum ⁴ He crystal in superfluid liquid	
Ken Obara	Vortex line density of superfluid suction vortex	
Ryuji Nomura	Inchworm Driving of ⁴ He Crystals	
Yuliia Horbatenko	Low-temperature heat capacity peculiarities of some molecular crystals	
Kyo Yoshida	Energy and particle cascades in Gross-Pitaevskii turbulence	
Airi Kaneko	Tuning fork measurements of ⁴ He confined in an oriented porous membrane	
Alexey Yudin	Vibrating Wire with Nematic Aerogel in Superfluid ³ He	
Janne Ahokas	A Large Octupole Magnetic Trap for Research with Atomic Hydrogen	





Monday, 16 August 2021, 04:30PM - 05:30PM IST, 07:45PM - 08:30PM IST Poster session for Group D1		
Petar Stipanovic	Few-body universality which extends from classical to quantum systems	
Eckhard Krotscheck	Dynamics of ³ He: Spin- and density fluctuations and the spectrum of single particle excitations.	
Niyaz Beysengulov	Helium surface fluctuations investigated with superconducting coplanar waveguide resonators	
Marcel Človečko	Novel temperature calibration of resistive thermometers in high magnetic fields and at temperatures below 1 K using quartz tuning forks	
Tomoyuki Tani	4D XY Quantum Criticality of Superfluid ⁴ He confined in Gelsil Glass	
Sanket Sen	Charge Transfer Ionisation of Camphor Molecule Doped in Helium Nanodroplets by EUV and Soft X-ray Photons	
Patrik Švančara	Particle-vortex interactions in thermal counterflow of He II	
Ryo Toda	Development of a Superconducting Zinc Heat Switch for the Continuous Nuclear Demagnetization Refrigerator	
Taku Matsushita	Indication of Dimer Bound State in ³ He Film Adsorbed in 3D Nanopore	
Lawence Chan	Motion of trapped electrons along vortex lines in superfluid ⁴ He	
Daichi Kagamihara	Ratio of shear viscosity to entropy density in a superfluid Fermi gas	
Adrian Del Maestro	A Hard-Core Bose-Hubbard Platform in the Solid-State: Helium on Graphene	
Bilal Tanatar	Signatures of droplet crystallization in Rydberg-dressed Fermi gases	
Sosuke Inui	Two-fluid Coupling Quantum Turbulence Simulation: Vortex Filament Model and Lattice Boltzmann Method	
Kitak Kim	The Angular dependent Wigner solid transport on ³ He Stripe phase	
Keegan Gunther	Noise Statistics of a Microelectromechanical Oscillator in the Presence of Quantum Turbulence	
Arkady Soldatov	Sensing extremely small amounts of surface solid ³ He at ultra low temperatures	
Jun Tokimoto	Josephson Oscillation and Self-Trapping in a Fermi Superfluid Gas across the BCS-BEC Crossover	
Neda Shamim	Hydrodynamics of Multielectron Bubbles (MEBs) in Liquid Helium (LHe)	





Monday, 16 August 2021, 04:30PM - 05:30PM IST, 07:45PM - 08:30PM IST Poster session for Group D2		
Zhuolin Xie	Fabrication of micro-sized Si vibrating wires	
Timour Ichmoukhamedov	Path-integral description of bosons with memory	
Yunhu Huang	Spherical Thermal Counterflow of Helium-II	
Kyle Castoria	Kelvin Probe Measurements of High Density Electrons on a Thin Film of Helium	
Egor Nemchenko	Longitudinal and transverse phonon inelastic transition from solids to superfluid helium	





Tuesday, 17 August 2021, 04:30PM - 05:30PM IST, 07:45PM - 08:30PM IST Poster session for Group E		
Yuma Watanabe	Dark solitons of ultracold bosons in optical lattices	
Stephen Lyon	³ He-Based Quantum Sensing of Phonons for Dark Matter Detection	
Johnny Adams	Dynamics of ³ He in ⁴ He plated MCM-41 below the Fermi degeneracy temperature	
Robert C. Regan	Half-Quantum Vortices in Nematic and Chiral Phases of ³ He	
Shohei Takimoto	Construction of Continuous Magnetic Cooling Apparatus with Zinc Soldered PrNi ₅ Nuclear Stages	
Hideo Yano	Vortex Emission from Superfluid ⁴ He Turbulence Produced in a Thin Channel by Thermal Counterflow	
Man Nguyen	Aerogel Structure and Its Affect on the Orbital Angular Momentum in Superfluid ³ He	
Suddhasattwa Mandal	Ionic motion of photofragments in EUV excited doped He nanodroplets	
Tomoki Minoguchi	Floating Solid Phase Revisited for Adsorbed Layers of Helium	
Sebastian Spence	Superfluid Optomechanics With Phononic Nanostructures	
Hikaru Ueki	Ultrahigh-Q Niobium cavities for quantum processors and detectors	
Viktor Cikojevic	Dynamics of equilibration and collisions in ultradilute quantum droplets	
Luca Galantucci	Friction-Enhanced lifetime of bundled quantum vortices	
Yoma Miyakoda	Emission of Vortex Rings from Thermal Counterflow Turbulence in Superfluid Helium4	
Emiko Arahata	Simulation method for evaporative cooling of trapped Bose gases at finite temperatures	
Naoto Sakaki	Statistics of Lagrangian Trajectories' Curvature in Thermal Counterflow	
Pranaya Kishore Rath	Surface Oscillation Modes of MEBs in Liquid Helium Trapped on a Metal Substrate	
Neha Yadav	Bubbles in Superfluid Helium Containing Six and Eight Electrons: Soft, Quantum Nanomaterial	
Joshua Hay	Visualizing Vortices in He-II in the Zero Temperature Limit	





wednesday, 18 August 20	021, 04:30PM - 05:30PM IST, 07:45PM - 08:30PM IST	
Poster session for Group F		
Vladimir Tsymbalenko	Observation of the "Burst-Like Growth" Mode on ⁴ He Crystals Nucleated in a Metastable Liquid	
Sanjay Shukla	Heavy Inertial particles in counterflow superfluid turbulence	
Wei-Ting Lin	Pairing Fluctuation Corrections to the Kinetic Theory for Liquid ³ He	
Gamu Asaka	Plug of Quantum Turbulence in Counterflow	
Shunpei Iwasaki	Odd-frequency pairing in a strongly interacting Fermi gas	
Takeshi Mizushima	Pair-Density-Wave Fluctuation and Crystallization in Confined Superfluid ³ He	
Šimon Midlik	Transition to quantum turbulence in oscillatory thermal counterflow of ⁴ He	
Akira Yamaguchi	Structural study of adsorbed helium films: New approach with synchrotron radiation X-rays	
Kazuhiro Tamura	Analysis of shape change of droplet in dipolar Bose-Hubbard model	
John Scott	Recovery Dynamics in the Superfluid Glass Phase of ³ He -A	
Min Park	Time-resolved measurement of single vortex vanishing in polariton system	
Camryn Undershute	Exploring the 3D-to-2D crossover of superfluid ⁴ He	
Masashi Morishita	Heat Capacity of Very Dilute ³ He- ⁴ He Mixture Films on Graphite	
Jason He	New Phases and Angular Momentum of Rotating Chiral p-Wave Superfluids Confined in an Annulus	
Junsik Han	Annihilation and recurrence of vortex–antivortex pairs in two-component Bose– Einstein condensates	
Hiromitsu Takeuchi	Vortex-core structure in the polar phase of spin-1 Bose-Einstein condensates	
Ayanesh Maiti	Focusing acoustic waves with no curvature	
Lizhu Chen	Statistical property of Lagrangian trajectory of small particles in super fluid He4	
Pranaya Kishore Rath	Development of the electrohydrodynamic instability of charged liquid helium surface	