

Tuesday, 12 August

	ID	Title	Main Author	Coauthors	Type	Theme Area	University / Institution or Company	Presentation
P1	707	Low-field SQUID NMR for studying nanofluidic superfluid helium-3	PETRI J. HEIKKINEN	NATHAN ENG, LEV V. LEVITIN, XAVIER ROJAS, ANGADJIT SINGH, ANTON VORONTSOV, JEEVAK M. PARPIA, ANDREW CASEY, JOHN SAUNDERS	Poster	PC1.	ROYAL HOLLOWAY, UNIVERSITY OF LONDON	Tuesday, 12
P2	714	Quantum Turbulence Triggered by Counterflow in a Connecting Tube	KEN OBARA	KENTO KUWAHIRA, SATSUKI YOSHISAKA, AND HIDEO YANO	Poster	PC1.	OSAKA METROPOLITAN UNIVERSITY	Tuesday, 12
P3	756	Relaxation of the slippage in 3He films by quantum tunneling	JUNKO TANIGUCHI1	TAISEI KASAHARA1, MASARU SUZUKI1	Poster	PC1.	UNIVERSITY OF ELECTRO-COMMUNICATIONS	Tuesday, 12
P4	769	Spin Diffusion of One-Dimensional 3He Fluid Formed in Nanochannels	TAKU MATSUSHITA	AZIMJON A.TEMURJONOV, YUYA MIYAUCHI, YOSHIKI KOBAYASHI, MITSUNORI HIEDA, NOBUO WADA, AND TAKU MATSUSHITA	Poster	PC1.	DEPARTMENT OF PHYSICS, NAGOYA UNIVERSITY	Tuesday, 12
P5	784	Robert-Jones solitary waves on the two-dimensional sphere	DAVIDE PROMENT	NOEL CUADRA, ALBERTO VILLOIS, THOMAS GASENZER	Poster	PC1.	UNIVERSITY OF EAST ANGLIA	Tuesday, 12
P6	798	Superfluid flow states and their stability in lattices of Bose-Einstein condensates	ANNA POSAZHENNIKOVA		Poster	PC1.	INSTITUTE OF PHYSICS, UNIVERSITY OF GREIFSWALD, GREIFSWALD, GERMANY	Tuesday, 12
P7	817	Microwave Optomechanical Transducer for Quantum Fluids Sensing	MATTHEW KENWORTHY	TOM SPEAKE, SUMIT KUMAR, SEAN HIBBIT, CARLA MARTINEZ-IZQUIERDO, XAVIER ROJAS	Poster	PC1.	ROYAL HOLLOWAY UNIVERSITY OF LONDON	Tuesday, 12
P8	858	Towards a Superfluid Helium based Gravitational-Wave Detector	S. HIBBITT	S. KUMAR, T. SPEAKE, M. KENWORTHY, C. MARTÍNEZ-IZQUIERDO, X ROJAS	Poster	PC1.	ROYAL HOLLOWAY UNIVERSITY OF LONDON	Tuesday, 12
P9	865	QMC and density functional studies of squeezed attractive Bose-Bose mixtures	LEANDRA VRANJES MARKIC	IVAN POPARIC, NIKOLA VUKMAN, KREŠIMIR DZELALIJA, PETAR STIPANOVIC, AND JORDI BORONAT	Poster	PC1.	UNIVERSITY OF SPLIT	Tuesday, 12
P10	875	Thin Film Superfluid Optomechanics Towards the Quantum Regime	T. SPEAKE	S. KUMAR, S. HIBBITT, M. KENWORTHY, C. MARTINEZ-IZQUIERDO, X. ROJAS	Poster	PC1.	ROYAL HOLLOWAY, UNIVERSITY OF LONDON	Tuesday, 12
P11	887	Kibble-Zurek Dynamics & Statistics of Topological Defects in Chiral Superfluid 3He Films	NOBLE GLUSCEVICH	JAMES SAULS	Poster	PC1.	LOUISIANA STATE UNIVERSITY	Tuesday, 12

P12	894	Charge and Radius determination of Multielectron bubbles in liquid Helium-4 including Shape Deformation and Basset History force	AMBARISH GHOSH	DILLIP KUMAR PRADHAN ¹ , SOUTIK SUR ¹ , NEDA SHAMIM ¹ , SHRIGANESH NEERAMOOLE ¹ , VAISAKH VADAKKUMBATT ¹ , AND AMBARISH GHOSH ^{1,2}	Poster	PC1.	INDIAN INSTITUTE OF SCIENCE	Tuesday, 12
P13	943	Hydrodynamic Drag of Multielectron Bubbles in Helium 4	SOUTIK SUR	DILLIP KUMAR PRADHAN, SHRIGANESH NEERAMOOLE, AND AMBARISH GHOSH	Poster	PC1.	INDIAN INSTITUTE OF SCIENCE BANGALORE	Tuesday, 12
P14	965	Spherically symmetric counterflow turbulence in open geometry	LADISLAV SKRBEK	TOMÁŠ DUNCA, BALÁZS SZALAI, MAREK TALÍŘ, FILIP NOVOTNÝ, AND EMIL VARGA	Poster	PC1.	CHARLES UNIVERSITY	Tuesday, 12
P15	978	Strong-Coupling Properties of a 2D-3D mixed dimensional Fermi atomic gas	HARUKA TAKEDA	SHUMPEI IWASAKI AND YOJI OHASHI	Poster	PC1.	KEIO UNIVERSITY, KANAGAWA 223-8522, JAPAN	Tuesday, 12
P16	985	Development of an Experimental Setup for Three-Dimensional Laser Cooling of Positronium	NAOKI MIYAMOTO	KENJI SHU, KOSUKE YOSHIOKA	Poster	PC1.	THE UNIVERSITY OF TOKYO	Tuesday, 12
P17	990	BCS-rashbon BEC crossover in a superfluid gas of Fermi atoms with an anti-centrosymmetric spin-orbit interaction	YUSUKE OKAJIMA	KOKI TAKEMOTO, SHUMPEI IWASAKI, AND YOJI OHASHI	Poster	PC1.	KEIO UNIVERSITY	Tuesday, 12
P18	1058	Detection of Quantum Turbulence in Superfluid 4He in a Pillbox-Shaped Cell Driven by a Torsional Oscillator	DMITRY E. ZMEEV	PETER V. E. MCCLINTOCK, MALCOLM POOLE, ROCH SCHANEN, VIKTOR TSEPELIN, ŠIMON MIDLIK, DAVID SCHMORANZER, DEEPAK GARG, KALPANA DEVI, CARLOS URIARTE	Poster	PC1.	DEPARTMENT OF PHYSICS, LANCASTER UNIVERSITY	Tuesday, 12
P19	49	Single Crystal Growth and Pressure Effect on Superconductivity of FeSe _{1-x} S _x	KIYOTAKA MIYOSHI	YUMI YAMAMOTO, TAKANOBU NAKATANI, DAICHI IZUHARA, MASAHIRO MANAGO, GAKU MOTOYAMA, AND KENJI FUJIWARA	Poster	PC2.	SHIMANE UNIVERSITY	Tuesday, 12
P20	50	Pressure-induced Superconductivity and Its Disappearance under Pressure in CeFeAsO _{1-x} F _x	KIYOTAKA MIYOSHI	TAKUYA MATSUOKA, TAKUMI MAEDA, MASAHIRO MANAGO, GAKU MOTOYAMA, KENJI FUJIWARA, HIROYUKI KITAGAWA	Poster	PC2.	SHIMANE UNIVERSITY	Tuesday, 12
P21	812	Electronic anomaly and structural phase transition in BiS ₂ -based superconductor LaO _{0.5} F _{0.5} Bi _{1-x} Pb _x S ₂	YOSHIKI IZUMI	KIYOSHI MIZUSAWA, SAKURA INO, NAOKI MOMONO	Poster	PC2.	MURORAN INSTITUTE OF TECHNOLOGY	Tuesday, 12

P22	813	Sb substitution effects on the electronic transport properties of BiS ₂ -based superconductor LaO _{0.5} F _{0.5} (Bi,Sb)S ₂	KIYOSHI MIZUSAWA	YASUSHI NAKAMURA, IZUMI YOSHIKI, MIKU SASAKI, KAN ZHENGI AND NAOKI MOMONO.	Poster	PC2.	MURORAN INSTITUTE OF TECHNOLOGY	Tuesday, 12
P23	815	Evidence of One-Dimensional Superconductivity in YBa ₂ Cu ₃ O _{7-δ} Nanowires	KARN RONGRUEANGKUL	ALESSIA GARIBALDI, KLINTI SINOJMERI, ALEXEI KALABOUKHOV, THILO BAUCH, AND FLORIANA LOMBARDI	Poster	PC2.	CHALMERS UNIVERSITY OF TECHNOLOGY	Tuesday, 12
P24	819	Weak Competition between Superconductivity and the Phase I Order in CeRh ₂ As ₂	JAVIER F. LANDAETA	P. KHANENKO, J. F. LANDAETA, T. LÜHMANN, K. SEMENIUK, M. COLE, A. W. ROST, C. GEIBEL, S. KHIM, E. HASSINGER, AND M. BRANDO	Poster	PC2.	MAX PLANCK INSTITUTE FOR CHEMICAL PHYSICS OF SOLIDS	Tuesday, 12
P25	825	Synthesis and characterization of La(O,F)BiS ₂ with high entropy	YUTO MIYAKE	RYOYA TANABE, TAKERU NISHIMURA, TADATAKA WATANABE, SATOSHI DEMURA	Poster	PC2.	NIHON UNIVERSITY	Tuesday, 12
P26	832	Heat Capacity Investigations of FeSeTe Nanostrips	PHILLIP M WU	WEI-HAN TSAI, CHANDRA SEKHAR GANTEPOGU, YANG-YUAN CHEN AND MAW-KUEN WU	Poster	PC2.	INSTITUTE OF PHYSICS	Tuesday, 12
P27	837	Nucleation and Arrangement of Abrikosov Vortices in Hybrid Superconductor Ferromagnetic Nanostructure	SARA MEMARZADEH	MATEUSZ GOŁĘBIEWSKI ¹ , MACIEJ KRAWCZYK, AND JAROSŁAW KŁOS	Poster	PC2.	INSTITUTE OF SPINTRONICS AND QUANTUM INFORMATION, FACULTY OF PHYSICS AND ASTRONOMY, ADAM MICKIEWICZ UNIVERSITY POZNAŃ	Tuesday, 12
P28	843	Superconducting proximity effect in NbN/Co ₂ MnSi bilayers	IDURU SHIGETA	TAKAHIDE KUBOTA, SHOJIRO KIMURA, BUNJU SHINOZAKI, TAKESHI SEKI, SATOSHI AWAJI, KOKI TAKANASHI AND MASAHICO HIROI	Poster	PC2.	KAGOSHIMA UNIVERSITY	Tuesday, 12
P29	848	High-temperature superconductivity with zero-resistance and strange metal behaviour in La ₃ Ni ₂ O _{7-δ}	YANAN ZHANG	DAJUN SU, YANEN HUANG, KAIXIN YE, JIAWEN ZHANG, MICHAEL SMIDMAN, MENG WANG, LIN JIAO, AND HUIQIU YUAN	Poster	PC2.	ZHEJIANG UNIVERSITY	Tuesday, 12
P30	852	Superconductivity and Fluctuations near a Polar Quantum Critical Point in a Topological Semimetal	KEITA TANABE	SATOSHI FUJIMOTO, TAKESHI MIZUSHIMA	Poster	PC2.	DEPARTMENT OF MATERIALS ENGINEERING AND SCIENCE, OSAKA UNIVERSITY	Tuesday, 12
P31	855	Negative pressure study on CeRh ₂ As ₂ through La-substitution	SUSHMA LAKSHMI RAVI SANKAR	ARUSHI, JOACHIM WOSNITZA, MANUEL BRANDO AND SEUNGHYUN KHIM	Poster	PC2.	MAX PLANCK INSTITUTE FOR CHEMICAL PHYSICS OF SOLIDS	Tuesday, 12

P32	857	Signature of Oxygen-Order in the YBa ₂ Cu ₃ O _{7-d} Orthorhombic Phase across the Ortho-II superstructure in an isothermal transition	ROBERTO F. LUCCAS	LORENZO GALLO, CÉSAR E. SOBRERO, JORGE A. MALARRÍA	Poster	PC2.	INSTITUTE OF PHYSICS ROSARIO, CONICET-UNR	Tuesday, 12
P33	866	Superconducting Diode Effect in Hybrid In/Bi ₂ Te ₃ -flake Structures	MACIEJ CHROBAK	ARTUR TREMBUŁOWICZ, ANDRII NAUMOV, DARIA BABYN, MAREK PRZYBYLSKI	Poster	PC2.	AGH UNIVERSITY OF KRAKOW, FACULTY OF PHYSICS AND APPLIED COMPUTER SCIENCE	Tuesday, 12
P34	868	The interplay between ferromagnetism and superconductivity in V _{2-x} MnxGa ₅ solid solutions	SZYMON KRÓLAK	WIKTORIA JAROSZ, TOMASZ KLIMCZUK	Poster	PC2.	GDAŃSK TECH	Tuesday, 12
P35	880	The Josephson effect in Fibonacci superconductors	IGNACIO SARDINERO	JORGE CAYAO, KEIKI YADA, YUKIO TANAKA, PABLO BURSET	Poster	PC2.	UNIVERSIDAD AUTÓNOMA DE MADRID	Tuesday, 12
P36	891	Suppression of Superconductivity in the Dirac Line-Nodal Metal CaSb ₂ with Element Substitution	ATSUTOSHI IKEDA	SHINGO YONEZAWA, YOSHITERU MAENO	Poster	PC2.	KYOTO UNIVERSITY	Tuesday, 12
P37	897	Probing surface superconductivity in the Weyl semimetal t-PtBi ₂ by local magnetization measurements	JAROSŁAW JURASZEK	CHRISTIAN G.F. BLUM, SABINE WURMEHL, MARCIN KONCZYKOWSKI, BERND BÜCHNER, AND TOMASZ CICHOREK	Poster	PC2.	INSTITUTE OF LOW TEMPERATURE AND STRUCTURE RESEARCH, POLISH ACADEMY OF SCIENCES, WROCŁAW 50-422, POLAND	Tuesday, 12
P38	902	The critical structural parameter related to the superconducting properties of the Pb-substituted La(O,F)BiS ₂	SATSHI DEMURA	GENKI, FUJII, AND SHOGO KUWAHARA	Poster	PC2.	CST, NIHON UNIVERSITY	Tuesday, 12
P39	903	Thermoelectric signatures of Bogoliubov Fermi Surface in superconducting 3D Topological Insulator Heterostructures	PHILLIP MERCEBCACH	BO LU, KEIJI YADA, YUIKO TANAKA, PABLO BURSET	Poster	PC2.	UNIVERSIDAD AUTÓNOMA DE MADRID	Tuesday, 12
P40	905	Superconductivity in Additively Manufactured Ti-rich High-Entropy Alloys	PIOTR SOBOTA	DANIEL GNIDA, JAKUB CIFTCI, ŁUKASZ ŹRADOWSKI, WOJCIECH NOWAK, ADAM PIKUL, RAFAŁ IDCZAK	Poster	PC2.	UNIVERSITY OF WROCLAW	Tuesday, 12
P41	908	Analogies between phonon anomalies and electronic gap features in the infrared response of the ladder compound Sr _{14-x} CaxCu ₂₄ O ₄₁ and those of underdoped YBa ₂ Cu ₃ O _{6+x}	DOMINIK MUNZAR	PETR ADAMUS, BING XU, CHRISTIAN BERNHARD	Poster	PC2.	MASARYK UNIVERSITY	Tuesday, 12

P42	911	Potential of CoSi ₂ for building superconducting quantum circuits	JERE MÄKINEN	W. ZENG, E. MUKHANOVA, E. A. HEREDICIA, C.-W. WU, I. LILJA, T. ELALAILY, J.-J. LIN, S.-S. YEH, AND P. HAKONEN	Poster	PC2.	AALTO UNIVERSITY	Tuesday, 12
P43	912	Optical Conductivity of Low- and High-T _c Superconducting Thin Films	MICHAL ŠINDLER	F. KADLEC, F. HERMAN, C. KADLEC, WEN-YEN TZENG, CHIH-WEI LUO, AND JIUNN-YUAN	Poster	PC2.	FZU - INSTITUTE OF PHYSICS OF THE CZECH ACADEMY OF SCIENCES	Tuesday, 12
P44	916	Ultra-Low Resistance AuGe Contacts for Ultra-Low Temperature Cooling of GaAs 2DESS	KRISTUPAS RAZAS	OMID SHARIFI SEDEH, ALDO TARASCIO, DOMINIK M. ZUMBÜHL	Poster	PC2.	UNIVERSITY OF BASEL	Tuesday, 12
P45	918	Anomalous Josephson and supercurrent diode effect in a kinked junction geometry	JOHANNA BERGER		Poster	PC2.	UNIVERSITY OF REGENSBURG	Tuesday, 12
P46	920	A thermodynamic study of the multiple superconducting phases of UTe ₂	NILS MARQUARDT		Poster	PC2.	CEA GRENOBLE	Tuesday, 12
P47	938	Synthesis and characterization of La(O,F)MS ₂ with high-entropy-alloy-type (HEA-type) MS ₂ (M= Bi, Pb, Sn, Sb, Cd, Pd) layer	YUTO MIYAKE	RYOYA TANABE, TAKERU NISHIMURA, TADATAKA WATANABE, SATOSHI DEMURA	Poster	PC2.	COLLEGE OF SCIENCE AND TECHNOLOGY, NIHON UNIVERSITY	Tuesday, 12
P48	959	Nonlinearity And Critical Current Density In Nanoparticle Added Y-358 Superconductors	AJAY KUMAR GHOSH	IPSITA MUKHERJEE, FIROZ MOLLAH	Poster	PC2.	JADAVPUR UNIVERSITY	Tuesday, 12
P49	969	Theoretical approach to the effects of external magnetic fields on anisotropic superconductors	LUIS A. PÉREZ	CÉSAR G. GALVÁN, CHUMIN WANG	Poster	PC2.	INSTITUTO DE FISICA, UNIVERSIDAD NACIONAL AUTONOMA DE MEXICO	Tuesday, 12
P50	974	Superconducting properties in hexagonal MoN micro single crystals	MOIRA INÉS DOLZ	M.E. GODOY LAHITON, S. WANG, N. HABERKORN	Poster	PC2.	UNIVERSIDAD NACIONAL DE SAN LUIS, CONICET, ARGENTINA	Tuesday, 12
P51	975	Miniaturized cryogenic memory using exchange bias effect in a magnetic Josephson Junction	SONALI BARAL	AVRADEEP PAL	Poster	PC2.	INDIAN INSTITUTE OF TECHNOLOGY, BOMBAY, INDIA	Tuesday, 12
P52	998	Andreev Reflection Spectroscopy of Topological ZrTe ₅ in Magnetic Field	ANKIT KHOLA	PRASANNA ROUT, LALIT PANDEY, SAROJ DASH	Poster	PC2.	CHALMERS UNIVERSITY OF TECHNOLOGY	Tuesday, 12
P53	999	Nuclear spin-lattice relaxation rate and ultrasound attenuation rate in odd-frequency superconductivity	SHUMPEI IWASAKI	YOJI OHASHI	Poster	PC2.	KEIO UNIVERSITY	Tuesday, 12

P54	1005	First-Principle and Bogoliubov-de Gennes Study of Fermi Surface Nesting and Topological Superconductivity in UTe ₂	XIAN DU	JAMES ANNETT	Poster	PC2.	SCHOOL OF PHYSICS, UNIVERSITY OF BRISTOL	Tuesday, 12
P55	52	Emergence of gapless superconductivity and enhancement from disorder in 2H-NbSe ₂ -xSx	HERMANN SUDEROW	JOSE A. MORENO, MERCÈ ROIG, VÍCTOR BARRENA, EDWIN HERRERA, ALBERTO MONTOYA, SAMUEL MAÑAS-VALERO, ANTÓN FENTE, ANITA SMEETS, JAZMÍN ARAGÓN, YANINA FASANO, BEILUN WU, MARIA N. GASTIASORO, EUGENIO CORONADO, JOSE J. BALDOVÍ, BRIAN M. ANDERSEN AND ISABEL GUILLAMÓN	Poster	PC2.	UNIVERSIDAD AUTONOMA DE MADRID	Tuesday, 12
P56	1028	Observation of quantum coherence in superconducting vortices	AMEYA NAMBIAN		Poster	PC2.	KARLSRUHE INSTITUTE OF TECHNOLOGY	Tuesday, 12
P57	752	Electronic structure of 1T-TaS ₂ under uniaxial strain: an ARPES study	SHUTO SUZUKI	KOKI YANAGIZAWA, KOSUKE NAKAYAMA, KATSUAKI SUGAWARA, SEIGO SOUMA, KENICHI OZAWA, KEIJI UENO, TAKASHI TAKAHASHI, AND TAKAFUMI SATO	Poster	PC3.	TOHOKU UNIVERSITY	Tuesday, 12
P58	755	Tuning anomalous magnetotransport properties in the topological semimetal GdPtBi	OREST PAVLOSIUK	PIOTR WIŚNIEWSKI, ROMAIN GRASSET, MARCIN KONCZYKOWSKI, ANDRZEJ PTOK, DARIUSZ KACZOROWSKI	Poster	PC3.	INSTITUTE OF LOW TEMPERATURE AND STRUCTURE RESEARCH, POLISH ACADEMY OF SCIENCES	Tuesday, 12
P60	760	Investigating the influence of uniaxial strain on the ultra-quantum limit in ZrTe ₅	CHIARA COCCHI	ARWIN KOOL, SVEN BADOUX, NIGEL E. HUSSEY, BENOÎT FAUQUÉ, AND STEFFEN WIEDMANN	Poster	PC3.	RADBOUD UNIVERSITY	Tuesday, 12
P61	768	Dynamic response of an electric field induced metal-insulator transition in Mn ₃ Si ₂ Te ₆	YANEN HUANG		Poster	PC3.	ZHEJIANG UNIVERSITY	Tuesday, 12
P62	777	Magnetic Properties of a Chiral Magnetic Compound: L-Tartrate Copper (II) Below 4 K	AKIRA YAMAGUCHI	MASATO OE, RINYA AKEMATSU, YU YAMANE, SHIGEKI MIYASAKA, TAKANORI TANIGUCHI, WATARU FUJITA	Poster	PC3.	UNIVERSITY OF HYOGO	Tuesday, 12
P63	779	Carrier Doping Effect on Excitonic Insulator (Ta _{1-x} M _x) ₂ NiSe ₅ (M=Ti, Zr, Hf, Cr)	SHUN TSUCHIDA	RIO YAMASHITA, YUSUKE HIROSE, RIKIO SETTAI	Poster	PC3.	NIIGATA UNIVERSITY	Tuesday, 12

P64	792	From Ta ₂ NiS ₅ to Ta ₂ NiSe ₅ : Simultaneous Enhancement of Electronic Gap Opening and Soft Phonons Revealed by Thermal Transport	YUAN-SHAN ZHANG	MASAHICO ISOBE, DENNIS HUANG, HIDENORI TAKAGI	Poster	PC3.	MAX PLANCK INSTITUTE FOR SOLID STATE RESEARCH	Tuesday, 12
P65	820	Pressure induced quantum criticality in UX ₂ (X = P, Sb)	KAIXIN YE	XUWEN HE, YANAN ZHANG, QIUYUN CHEN AND HUIQIU YUAN	Poster	PC3.	CENTER FOR CORRELATED MATTER AND SCHOOL OF PHYSICS, ZHEJIANG UNIVERSITY	Tuesday, 12
P66	821	Spin Nernst effect of magnons in spin-nonconserving systems	SHINNOSUKE KOYAMA	JOJI NASU	Poster	PC3.	TOHOKU UNIVERSITY	Tuesday, 12
P67	830	Dual Negative Thermal Expansion in Cu ₂ P ₂ O ₇	HUNG-CHENG WU	CHIH-HSUAN WANG, YU-HSIN LIAO, CHIH-CHUNG TSAI, CHIN-WEI WANG	Poster	PC3.	NATIONAL SUN YAT-SEN UNIVERSITY	Tuesday, 12
P68	833	Pressure-induced structural phase transitions in the van der Waals multiferroic CuCrP ₂ S ₆	SWARNAMAYEE MISHRA		Poster	PC3.	TECHNICAL UNIVERSITY DRESDEN	Tuesday, 12
P69	836	Magnetic characterization of isolated Ni nanowires using MEMS	MOIRA DOLZ	EVELYN ESCUDERO BRUNA, FEDERICO ROMÁ, FERNANDO MENESES, PAULA BERCOFF	Poster	PC3.	UNIVERSIDAD NACIONAL DE SAN LUIS, CONICET, ARGENTINA	Tuesday, 12
P70	856	Specific Heat Study on the Magnetic Anisotropy of the Anomalous Ordered States in Kondo semiconductor CeOs ₄ Sb ₁₂	YUJI AOKI	SHIZUKA TODA, ATSUSHI IMAMURA, DAISUKE KIKUCHI, AND HIDEYUKI SATO	Poster	PC3.	TOKYO METROPOLITAN UNIVERSITY	Tuesday, 12
P71	859	Witnessing entanglement in quantum critical Ce ₃ Pd ₂₀ Si ₆	FEDERICO MAZZA	SOUNAK BISWAS, XINLIN YAN, ANDREY PROKOFIEV, PAUL STEFFENS, QIMIAO SI, FAKHER F. ASSAAD, SILKE PASCHEN	Poster	PC3.	VIENNA UNIVERSITY OF TECHNOLOGY	Tuesday, 12
P72	862	Frequency response of self-generated topological pn-junction in SmB ₆	JIAWEN ZHANG	ZHENQI HUA, CHENGWEI WANG, MICHAEL SMIDMAN, DAVID GRAF, SEAN THOMAS, PRISCILA F. S. ROSAAND, STEFFEN WIRTH, XI DAI, PENG XIONG, HUIQIU YUAN, XIAOYU WANG, LIN JIAO	Poster	PC3.	ZHEJIANG UNIVERSITY	Tuesday, 12

P73	871	New Type of Antiferromagnetic Topological Insulator NdBi and GdBi Studied by Micro-focused ARPES	ASUKA HONMA	DAICHI TAKANE, NORIYUKI KABEYA, SEIGO SOUMA, YONGJIAN WANG, KUNIIHIKO YAMAUCHI, KOSUKE NAKAYAMA, KATSUAKI SUGAWARA, MIHO KITAMURA, KOJI HORIBA, KENICHI OZAWA, HIROSHI KUMIGASHIRA, KIYOHISA TANAKA, TIMUR K. KIM, CEPHISE CACHO, TAMIO OGUCHI, TAKASHI TAKAHASHI, NORIAKI KIMURA, YOICHI ANDO, AND TAKAFUMI SATO	Poster	PC3.	DEPARTMENT OF PHYSICS, TOHOKU UNIVERSITY	Tuesday, 12
P74	889	A Kitaev quantum spin liquid candidate isolated in a two-dimensional CoIrRhIII bimetallic oxalate network	FERNANDO LUIS	E. BURZURÍ, M. J. MARTÍNEZ-PÉREZ, C. MARTÍ-GASTALDO, M. EVANGELISTI, S. MAÑAS-VALERO, E. CORONADO, J. I. MARTÍNEZ, J. R. GALÁN-MASCARÓS	Poster	PC3.	INMA. CSIC	Tuesday, 12
P75	896	Domain wall engineering in distorted kagome magnet	AVDHESH KUMAR SHARMA	PREMAKUMAR YANDA, SAMUEL HARRISON MOODY, RALF KOBAN, SUBHAJIT ROYCHOWDHURY, MARKUS KÖNIG, CHANDRA SHEKHAR AND CLAUDIA FELSER	Poster	PC3.	MAX PLANCK INSTITUTE FOR CHEMICAL PHYSICS OF SOLIDS, DRESDEN (GERMANY)	Tuesday, 12
P76	970	Observation of anisotropic magnetoresistance in MnTe	ITSUKI HAMABE	TAKUYA AOYAMA, YOSHINORI IMAI, KENYA OHGUSHI	Poster	PC3.	TOHOKU UNIVERSITY	Tuesday, 12
P77	976	Hidden charge density wave instability in ultra-high power factor of semimetal Ta ₂ PdSe ₆	AKITOSHI NAKANO	TAISHUN MANJO, DAISUKE ISHIKAWA, ALFRED Q. R. BARON, TAKUMI HASEGAWA, AND ICHIRO TERASAKI	Poster	PC3.	NAGOYA UNIVERSITY	Tuesday, 12
P78	982	Topological thermal Hall effect and nondissipative transport of the nanometric skyrmion lattice in Gd ₂ PdSi ₃	PARISA MOKHTARI	DAIKI YAMAGUCHI, RINSUKE YAMADA, AKIKO KIKKAWA, YASUJIRO TAGUCHI, YOSHINORI, MAX HIRSCHBERGER	Poster	PC3.	DEPARTMENT OF APPLIED PHYSICS AND QUANTUM PHASE ELECTRONICS CENTER (QCEP), THE UNIVERSITY OF TOKYO (JAPAN); CENTER FOR ELECTRONIC CORRELATIONS AND MAGNETISM, UNIVERSITY OF AUGSBURG (GERMANY)	Tuesday, 12
P79	991	Chirality-induced spin-selective Peierls transition	SHUN ASANO	YOUICHI YANASE	Poster	PC3.	KYOTO UNIVERSITY	Tuesday, 12

P80	993	Magnetic properties of solid solutions ludwigites $\text{Co}_3\text{-xMnxBO}_5$	DINA I. FAZLIZHANOVA	DANIIL V. POPOV, MIKHAIL A. CHEROSOV, RUSLAN G. BATULIN, EVGENIYA M. MOSHKINA, AND RUSHANA M. EREMINA	Poster	PC3.	ZAVOISKY PHYSICAL-TECHNICAL INSTITUTE, FEDERAL RESEARCH CENTER "KAZAN SCIENTIFIC CENTER OF RAS", 420029 KAZAN, RUSSIA	Tuesday, 12
P81	1001	Magnetic properties of ludwigites $\text{Cu}_2\text{MnBO}_5\text{:Cr}$	RUSHANA EREMINA	DANIIL V. POPOV, IVAN V. YATSYK, MIKHAIL A. CHEROSOV, RUSLAN G. BATULIN, EVGENIYA M. MOSHKINA	Poster	PC3.	ZAVOISKY PHYSICAL-TECHNICAL INSTITUTE, FEDERAL RESEARCH CENTER "KAZAN SCIENTIFIC CENTER OF RAS", KAZAN, RUSSIA	Tuesday, 12
P82	1031	Disentangling the Origin of Exotic Spin Splitting in Kagome Magnet NdTi_3Bi_4	GUODONG LIU	NENG CAI, LEI JIN, LONG CHEN, BO LIANG, WENPEI ZHU, TAIMING MIAO, XIAOMING ZHANG, GANG WANG, LIN ZHAO, XINGJIANG ZHOU	Poster	PC3.	INSTITUTE OF PHYSICS, CHINESE ACADEMY OF SCIENCES	Tuesday, 12
P83	1032	Mode Selective Electron-Phonon coupling Driven Charge Density Wave	PRIYANKA MEENA	PRIYANKA MEENA, PRITHWIJA MANDAL, MOHIT MUDGAL, VIVEK KUMAR MALIK, SANJOY KR MAHATHA, AJAY SONI AND JAYITA NAYAK	Poster	PC3.	DEPARTMENT OF PHYSICS IIT KANPUR, INDIA	Tuesday, 12
P84	1033	Study of Magneto-Transport Properties of axion insulator	MOHIT MUDGAL	MOHIT MUDGAL ¹ , DEBASIS DUTTA ¹ , PRIYANKA MEENA ¹ , VENKATESWARA YENUGONDA ^{1,2} , VISHNU KUMAR TIWARI ¹ , VIVEK KUMAR MALIK ³ , JENS BUCK ^{4,5} , KAI ROSSNAGEL ^{4, 5} , SANJOY KR MAHATHA ⁶ , AMIT AGARWAL ¹ , AND JAYITA NAYAK ¹	Poster	PC3.	FARE FELLOW DEPARTMENT OF PHYSICS IIT KANPUR	Tuesday, 12
P85	850	Anomalous, Temperature-driven Negative Magnetoresistance in Carbon-Black Samples	ALEX APARECIDO-FERREIRA	E. S. ALVES, G.M. RIBEIRO, AND J. F. SAMPAIO	Poster	PC4.	UNIVERSIDADE FEDERAL DO PARANÁ	Tuesday, 12
P86	869	Open quantum systems in fast-drive regime - frequency-domain numerical approach	ALEKSANDR STRELNIKOV	LUCA MAGAZZÙ, JUKKA PEKOLA	Poster	PC4.	AALTO UNIVERSITY	Tuesday, 12
P87	909	Temperature Effects on the Charge Transport and Optical Properties in $\text{MoS}_2\text{/PEDOT}$ and $\text{WSe}_2\text{/PEDOT}$ Composites	ALLAN TARDIOLLE	RENAN BARBIERI ESTEFANI, PIERRE NICKMILDER, JOSÉ PEDRO M. SERBENA, CELSO DUARTE DE ARAÚJO, NEY PEREIRA MATTOSO, PHILIPPE LECLERE AND ALEX APARECIDO-FERREIRA	Poster	PC4.	DEPARTAMENTO DE FÍSICA, UNIVERSIDADE FEDERAL DO PARANÁ	Tuesday, 12

P88	932	Electronic transport in the superconducting Weyl semimetal trigonal-PtBi2	ANKIT KUMAR	MICHELE CECCARDI, JIANG QU, ARTHUR VEYRAR, JOSEPH DUFOULEUR, BERND BÜCHNER	Poster	PC4.	IFW DRESDEN / TU DRESDEN	Tuesday, 12
P89	944	Atomic sized contacts and electronic transport in α -Sn	E.GUZMÁN	C. SABATER, C. UNTIEDT	Poster	PC4.	UNIVERSIDAD DE ALICANTE	Tuesday, 12
P90	960	Persistent Currents in Helical Structures with Aubry-Andre Modulation	B. TANATAR	T. YILDIZ, S. KUCUK	Poster	PC4.	BILKENT UNIVERSITY	Tuesday, 12
P91	972	The Interplay of Topology, Electron-electron Interaction, and Disorder – Entanglement Reconstruction in a Tunable Quantum Hall System	JIAN HUANG	HOAI ANH HO, L.N. PFEIFFER, K.W. WEST	Poster	PC4.	WAYNE STATE UNIVERSITY	Tuesday, 12
P92	980	Challenges in identifying intrinsic two-fold symmetry via transport measurements in the kagome superconductor CsV3Sb5	YU-CHI YAO	FEI SUN, PHIL. D. C. KING AND HAIJING ZHANG	Poster	PC4.	MAX PLANCK INSTITUTE FOR CHEMICAL PHYSICS OF SOLIDS	Tuesday, 12
P93	1014	Phononic Casimir Effect	PABLO RODRIGUEZ LOPEZ	DAI-NAM LE AND LILIA M- WOODS	Poster	PC4.	UNIVERSIDAD REY JUAN CARLOS	Tuesday, 12
P94	1017	Giant Heat Flux Effect in Non-Chiral Transmission Lines	EUGENE V. SUKHORUKOV	FLORIAN STABLER, ALIOUNE GADIAGA,	Poster	PC4.	UNIVERSITY OF GENEVA, SWITZERLAND	Tuesday, 12
P95	1029	Ion migration induced bipolar diode effect and ferroelectricity modulation in CuInP2S6	JIE XING	DONGKE RONG, CHENG TIAN, QIAO JIN, FANGYUAN MA, GUOZHEN LIU, JIE QIU, CHANGCHUN ZHAO, HUIYING HAO, JINGJING DONG, HAO LIU, YOUGUO SHI, AND ER-JIA GUO	Poster	PC4.	CHINA UNIVERSITY OF GEOSCIENCES (BEIJING)	Tuesday, 12
P96	1044	Enhanced and Modulable Induced Superconducting Gap and Effective Landé g-Factor in Pb-InSb Hybrid Devices	XIAO DENG	GUOAN LI, XIAOFAN SHI, ZIWEI DOU, GUANG YANG, JIAYU SHI, MARCO ROSSI, GHADA BADAWY, YUPENG LI, ZHIYUAN ZHANG, ANQI WANG, XINGCHEN GUO, BINGBING TONG, PEILING LI, ZHAOZHENG LYU, GUANGTONG LIU, FANMING QU, ERIK P. A. M. BAKKERS, MICHAŁ P. NOWAK, PAWEŁ WÓJCIK, LI LU, AND JIE SHEN.	Poster	PC4.	INSTITUTE OF PHYSICS, CHINESE ACADEMY OF SCIENCES	Tuesday, 12
P97	1049	Proximity-induced spin-triplet superconductivity at the interface of Ising superconductor/Néel antiferromagnet bilayers	GUANGTONG LIU1	XINYI ZHENG, RUIHUAN DUAN, XILIN FENG, AND LI LU	Poster	PC4.	INSTITUTE OF PHYSICS, CHINESE ACADEMY OF SCIENCES	Tuesday, 12

P98	1053	A Magnetic Field Tunable Anisotropic Luttinger Liquid Edge State in Ta ₂ Pd ₃ Te ₅	XINGCHEN GUO	ANQI WANG, YUPENG LI, GUO'AN LI1 , ZHIYUAN ZHANG, XIAOFAN SHI, XIAO DENG, YOUGUO SHI, JIE SHEN	Poster	PC4.	HANGZHOU KEY LABORATORY OF QUANTUM MATTER, SCHOOL OF PHYSICS, HANGZHOU NORMAL UNIVERSITY	Tuesday, 12
P99	1082	PROXIMITY EFFECTS IN SUPERCONDUCTOR-ALTERNATE MAGNET HETEROSTRUCTURES	RODRIGO DE LAS HERAS		Poster	PC4.	UNIVERSITY OF THE BASQUE COUNTRY	Tuesday, 12
P100	793	RF Reflectometry for Electrons on Helium	ASHER JENNINGS	IVAN GRYTSENKO, JUN WANG, YIRAN TIAN, OLEKSIY RYBALKO, ERIKA KAWAKAMI	Poster	PC5.	RIKEN	Tuesday, 12
P101	818	Enhanced pumping rate of artificial atoms coupled to a resonating mode	WEICHEN CHIEN	CHIEN-HAN CHEN, HIROSHI SHIMADA AND WATSON KUO	Poster	PC5.	DEPARTMENT OF PHYSICS, NATIONAL CHUNG HSING UNIVERSITY, TAIWAN	Tuesday, 12
P102	824	State transfer and entangled state preparation using a Fibonacci quantum pump	ARNOB KUMAR GHOSH	PATRIC HOLMVALL, VAHID AZIMI MOUSOLOU, RUBÉN SEOANE SOUTO, ANNICA M. BLACK-SCHAFER	Poster	PC5.	UPPSALA UNIVERSITY, SWEDEN	Tuesday, 12
P103	841	Observation and Coherent control of Bloch oscillations in a superconducting circuit	DONGNING ZHENG	PENGTAO SONG, ZHONGCHENG XIANG	Poster	PC5.	INSTITUTE OF PHYSICS, CHINESE ACADEMY OF SCIENCES	Tuesday, 12
P104	842	Dissipative entanglement generation by coherent collisions	SUNGGUEN RYU	A MERT BOZKURT, ROSA LÓPEZ	Poster	PC5.	INSTITUTE FOR CROSS-DISCIPLINARY PHYSICS AND COMPLEX SYSTEMS (UIB-CSIC)	Tuesday, 12
P105	890	On-Chip Magnetic Spectroscopy of a Molecular Spin Clock Transition in Competition with Spin-Spin Interactions	FERNANDO LUIS	M. RUBÍN-OSANZ, M. C. DE ORY, J. ROMÁN-ROCHE, F. LAMBERT, F. SHAO, E. RIVIÈRE, R. GUILLOT, D. GRANADOS, D. ZUECO, T. MALLAH, A. GOMEZ	Poster	PC5.	INMA. CSIC	Tuesday, 12
P106	994	On-Demand Microwave shaped Single-photon source with strong coupling qubit pair	HSIN CHANG	KAI-I CHU, XIAO-CHENG LU, WEI-CHENG HUNG AND YUNG-FU CHEN	Poster	PC5.	NATIONAL CENTRAL UNIVERSITY	Tuesday, 12
P107	1007	Dual Tone Spectroscopy of Atomic Tunneling Systems	JAN BLICKBERNDT	ANTON JARECKA, MORITZ MAUR, ANDREAS FLEISCHMANN, ANDREAS REISER, CHRISTIAN ENSS	Poster	PC5.	KIRCHHOFF-INSTITUTE FOR PHYSICS, HEIDELBERG UNIVERSITY	Tuesday, 12
P108	1039	Innovative design and fabrication of a 21-qubit superconducting quantum processor for high-fidelity gate operations	BINGJIE CHEN	TIANMING LI, HAOTIAN LIU , AND DONGNING ZHENG	Poster	PC5.	INSTITUTE OF PHYSICS, CHINESE ACADEMY OF SCIENCES	Tuesday, 12

P109	921	Balanced homodyne detection of CV states using traveling wave Josephson parametric amplifiers	EKATERINA MUKHANOVA	I. LILJA, S. KHALDEEV, K. PETROVNIN, V. VESTERINEN, AND P. HAKONEN	Poster	PC6.	AALTO UNIVERSITY	Tuesday, 12
P110	847	Oscillating Nanowire (NEMS) Resonator Used as Local Probes of Quantum Turbulence in Superfluid 4He	STANISLAV HARAŠTA	ANDREI GHEORGHE, JAKUB MIKEŠ, DAVID SCHMORANZER, DMITRY ZMEEV	Poster	PC6.	CHARLES UNIVERSITY, FACULTY OF MATHEMATICS AND PHYSICS	Tuesday, 12
P111	853	Correlation between magnetocaloric effect and crystal growth in calcium-doped lanthanum manganite	YUKI NAKAJIMA	YOSHIKI MARUYAMA, ZHOU DEJUN, OVIJIT CHANDROW, SHUMSUN NAHER BEGUM, MASASHI OHASHI	Poster	PC6.	KANAZAWA UNIVERSITY	Tuesday, 12
P112	854	Developments of the magneto-optical Kerr effect measurement method under extreme conditions of low temperature and high magnetic field	SOTA NAKAMURA	ATSUTOSHI IKEDA, KOSUKE NODA, AKIHIKO IKEDA, SHINGO YONEZAWA	Poster	PC6.	KYOTO UNIVERSITY	Tuesday, 12
P113	886	Cooling of superconducting qubits immersed in a quantum fluid bath	D. DOLING, A. CARRECK	N. ENG, L. LEVITIN, V. ANTONOV, R. SHAIKHAI DAROV, A. TZALENCHUK, S. DE GRAAF, T. LINDSTROM, A. CASEY AND J. SAUNDERS	Poster	PC6.	ROYAL HOLLOWAY, UNIVERSITY OF LONDON	Tuesday, 12
P114	888	Experiments on Turbulent Convection at Very High Rayleigh Numbers: Low-Temperature and Room-Temperature Studies	PAVEL URBAN	VĚRA MUSILOVÁ, KATEPALLI R. SREENIVASAN, LADISLAV SKRBEK	Poster	PC6.	THE CZECH ACADEMY OF SCIENCES, INSTITUTE OF SCIENTIFIC INSTRUMENTS	Tuesday, 12
P115	899	Experimental comparison of shot noise thermometer and coulomb blockade thermometer	EEMIL PRAKS	LIBIN WANG, YU-CHENG CHANG, JUKKA PEKOLA	Poster	PC6.	AALTO UNIVERSITY	Tuesday, 12
P116	925	A Setup for the Evaluation of Thermal Contact Resistance Using 2 Heaters and 2 Sensors Method.	B.A. FRANCISCO	R. GONÇALVES DOS SANTOS	Poster	PC6.	UNIVERSITY OF CAMPINAS	Tuesday, 12
P117	935	Spherical particles of rare earth intermetallic compounds RT ₂ for cryogenic magnetic refrigeration applications	AKIKO T. SAITO	HIROYUKI TAKEYA, TAKAFUMI YAMAMOTO, KOJI KAMIYA, TAKENORI NUMAZAWA	Poster	PC6.	NATIONAL INSTITUTE FOR MATERIALS SCIENCE	Tuesday, 12
P118	946	Influence of Measurement Techniques and Film Thickness on the Resistivity of NbTiN Thin Films	LUBUNA BEEGUM SHAFEEK	SALVATORE BAGIANTE ¹	Poster	PC6.	INSTITUTE OF SCIENCE AND TECHNOLOGY AUSTRIA	Tuesday, 12

P119	983	Development of Alternative Cryoprotectants for Enhanced Cell Viability	IZABELA MILOGRODZKA	AMANDA ABRAHAM, SAFFRON J. BRYANT, GARY BRYANT	Poster	PC6.	RMIT UNIVERSITY	Tuesday, 12
P120	987	NUMERICAL STUDY OF A CRYOGENIC PULSATING HEAT PIPE FOR COOLING SUPERCONDUCTING SYSTEMS	AEJUNG YOON	HO JIN EOM, JOOHAN BAE, SUNG JIN KIM	Poster	PC6.	ULSAN NATIONAL INSTITUTE OF SCIENCE AND TECHNOLOGY	Tuesday, 12
P121	989	Development of an ultra-compact microwave resonator for ESR measurement	YUYA ISHIKAWA	YUTAKA KURACHI, JARNO JÄRVINEN, SERGEY VASILIEV, YUTAKA FUJII	Poster	PC6.	RESEARCH CENTER FOR DEVELOPMENT OF FAR-INFRARED REGION, UNIVERSITY OF FUKUI	Tuesday, 12
P122	1004	A non-magnetic cryogenic interferometer for characterizing optomechanical magnetic field detectors for biomagnetism	ENRICO RAGUCCI	I. HILSCHENZ, N. MANCA, D. MARRÉ, L. PELLEGRINO, T. HÄNKE, A. SCHWARZ, W.J. VENSTRA, A. KALABOUKHOV AND S. DELLA PENNA	Poster	PC6.	CONSIGLIO NAZIONALE DELLE RICERCHE, ITALY	Tuesday, 12
P123	1010	Quantized Vortices in Multi-Component Superfluids	LEV MELNIKOVSKY		Poster	PC1.	WEIZMANN INSTITUTE OF SCIENCE / KAPITZA INSTITUTE FOR PHYSICAL PROBLEMS	Tuesday, 12
P124	1019	Full accountability of liquid Helium use: A necessary step towards 100% recovery of liquid Helium	HERMANN SUDEROW	JOSE NAVARRETE1, JUAN RAMÓN MARIJUAN1, RAFAEL ÁLVAREZ MONTOYA2, JOSE ANTONIO MORENO3, MIGUEL AGUEDA3, ÓSCAR BOU3, PABLO GARCÍA3, PAULA OBLADEN3, JAIME RUMEU3, EDWIN HERRERA3, FEDERICO MOMPEÁN4, ISABEL GUILLAMÓN3, MAR GARCÍA HERNÁNDEZ	Poster	PC6.	UNIVERSIDAD AUTONOMA DE MADRID	Tuesday, 12
P125	1035	Real-time Monitoring of Neon Film Growth for Electron-on-Neon Qubits	SIDHARTH DUTHALURU		Poster	PC6.	DEPARTMENT OF PHYSICS, WASHINGTON UNIVERSITY,	Tuesday, 12