

POSTER PRESENTATIONS

(*) The program committee selected a limited number of abstracts to receive special designation.
These Invited Posters are designated with an asterisk (*) preceding the program number.

MONDAY, FEBRUARY 21

2:30-4:30 1PO POSTER SESSION *Hall D*

1PO1 HTS Theory

- *1PO1-1 T. K. Lee: Pairing Correlation of t-J Type Models Studied by the Power-Lanczos Method
- *1PO1-2 R. Zeyher: Interplay of Superconductivity with Structural Phases in a Generalized t-J Model
- *1PO1-3 P. Prelovsek: Hall Response of Strongly Correlated Electrons
- *1PO1-5 H. Kamimura: Microscopic Origin of the Pseudogap
- 1PO1-6 A. Ramsak: Electron Momentum Distribution of a Single Hole in Planar Antiferromagnet
- 1PO1-7 K. Tsutsui: Resonant Inelastic X-ray Scattering in Copper Oxides
- 1PO1-9 Y. Tanuma: Quasiparticle States Near the Surfaces with *d*-wave Superconductivity and Antiferromagnetism
- *1PO1-10 P. Horsch: Density Response of the t-J Model and Phonon Renormalization
- 1PO1-11 G. F. Reiter: Physics of the Three Band Model in the Limit of Large S
- 1PO1-12 A. Troper: Some Properties of Two-Band Superconductors: Role of k-Dependent Hybridization
- 1PO1-13 J. R. Engelbrech: Relating Scaling and Pseudogap Behaviour in Strongly Correlated Superconductors.
- 1PO1-14 K. Yamaji: Competition between Superconductivity and SDW in the 2D Hubbard Model Studied by the Variational Monte Carlo Calculations
- 1PO1-15 J. L. Smith: Non-Fermi Liquid States in an Extended Hubbard Model
- 1PO1-16 A. Avella: A New Analysis of the 2-layer Hubbard Model
- 1PO1-17 A. Avella: The Hubbard Model: 4-pole Approximation
- 1PO1-18 T. K Kopec: Superconducting Phase Fluctuations in the Negative -U Hubbard Model
- 1PO1-19 L. A. Perez: *d*-wave Hole Pairing and Its Thermodynamics in Generalized Hubbard Systems
- 1PO1-20 I. Vekhter: Quasiparticle Thermal Conductivity in the Vortex State of Unconventional Superconductors
- 1PO1-21 M. R. Cyrot: Depression of T_c Due to Fluctuations and Uemura's Plot
- 1PO1-22 J. Bouvier: Pseudo-Gap and Electron-Electron Interactions in Underdoped HTSC
- 1PO1-23 D. M. Yanga: The Spin-Polaron Theory in the Finite-Temperature Green's Function Method as a Mechanism for High-Temperature Superconductivity
- 1PO1-24 A. S. Alexandrov: Charged Vortex in the Charged Bose-Liquid
- 1PO1-25 Q. Chen: Nodal Quasiparticles versus Phase Fluctuations in High T_c Superconductors: An Intermediate Scenario*
- 1PO1-26 A. V. Balatsky: Theory of Impurity Induced Resonances in High- T_c
- 1PO1-27 M. de Llano: Cooper Pair Dispersion Relation in Two Dimensions
- 1PO1-28 C. J. Dent: Magnetisation and Upper Critical Field in YBCO - a Unified Boson Model
- 1PO1-29 P. Strinati: Relevance of the Pair-Pair Interaction in the Crossover from BCS Superconductivity to Bose-Einstein Condensation
- 1PO1-30 I. Tifrea: From BCS to Bose-Einstein Condensation in a Non-Fermi Superconductor
- 1PO1-31 S. Dzhumanov: Pseudogapped Normal and Superconducting States in Doped High- T_c Oxides: A Novel Fermi (Precursor) - Bose (Superfluid) -Liquid Approach
- 1PO1-32 F. Lopez-Aguilar: Spin Wave Superconductivity in Antiferromagnetic Kondo Lattices
- 1PO1-33 W. L. Yang: Time Evolution of Superconducting Transitions in Hole-Overdoped $\text{Bi}_2\text{Sr}_{2-x}\text{La}_x\text{CuO}_{6+y}$ Crystals: an Indication of Phase Separation in Overdoped Superconductors
- 1PO1-34 R. E. Allen: Theoretically Possible Three-Dimensional Cuprate Superconductors
- 1PO1-35 G. L. Zhao: Temperature Dependence of the Anisotropic Superconducting Gap in $\text{YBa}_2\text{Cu}_3\text{O}_7$
- 1PO1-36 D. R. Harshman: Location and Properties of the Superconducting Hole Condensate in $\text{Sr}_2\text{YRu}_{1-u}\text{Cu}_u\text{O}_6$
- 1PO1-37 H. A. Blackstead: $\text{Eu}_{2-z}\text{Ce}_z\text{Sr}_2\text{Cu}_2\text{RuO}_{10}$ Superconducts in Its SrO Layers, not in Its Cuprate-Planes
- 1PO1-38 S. L. Kakani: Role of Attractive Interlayer and Interlayer Interactions in High Temperature Cuprate Superconductors
- 1PO1-39 S. K. Patapis: The Two-Band Model and the Anisotropic Fluctuation Conductivity in Different Thin Films
- 1PO1-40 R. O. Zaitsev: On the Non-Phonon Superconductivity of the Flat Niobium Boron compounds
- 1PO1-41 I. V. Stasyuk: Raman Scattering in Locally Anharmonic Model with Strong Electron Correlation
- 1PO1-42 F. Vidal: Full-Critical Behaviour of the Heat Capacity Around T_c versus T_c -Inhomogeneities in Y-123

1PO1 HTS Theory (cont'd)

- 1PO1-43 **L. L. Cheng:** Interaction of Two Different Structural Blocks in Bi-System Superconductors
1PO1-44 **F. Lopez-Aguilar:** Electronic Structure of the Antiferromagnetic Ground State of La_2CuO_4 beyond LDA+U Method
1PO1-46 **A. M. Shvaika:** Dynamical Susceptibilities in Strong Coupling Approach
1PO1-47 **M. Georgiev:** Polaron Signatures in the Temperature Dependences of the Electric Resistivities in Single-Layer High- T_c Cuprates
1PO1-48 **K. Tanaka:** Anderson's "Theorem" and Bogoliubov-de Gennes Equations for Surfaces and Impurities
1PO1-49 **O. V. Dolgov:** Unitarity Scattering Limit in Multi-Band and Other Anisotropic Superconductors
1PO1-50 **M. Zoli:** Constraints on the Application of the Holstein Model to High T_c Superconductors
1PO1-51 **G. Sergeeva:** Temperature Dependence of the Strength of the Interlayer Coupling of Anisotropic HTS in Normal State
1PO1-52 **S. Larsson:** Model for Square Planar Superconductors Which Includes Correlation and Vibronic Interaction
1PO1-53 **A. M. Kechiantz:** Brief Report on the Mechanism of Superconductivity in Cuprates
1PO1-54 **Y. V. Kopaev:** Coulomb Coupling of Like Charges Due to Negative Reduced Effective Mass
1PO1-55 **J. D. Dow:** The Nature of a Correct Theory of High Temperature Superconductivity
1PO1-56 **J. D. Dow:** Four Predicted High Temperature Superconductors
1PO1-57 **M. Moreno:** The Arrow of Time and the Character of Pairing Interactions
1PO1-58 **R. M. Mendez-Moreno:** Parametrization of TI-Based High- T_c Superconductors in the Generalized Supersymmetric Theory.
1PO1-59 **J. D. Fan:** A New Understanding of the BCS Hamiltonian
1PO1-60 **V. V. Kabanov:** Parameter-Free Expression for Superconducting T_c in Cuprates: BEC Vs Kosterlitz-Thouless Transition.
1PO1-61 **J. D. Fan:** The Origin of $2e$ Factor in Josephson Effects
1PO1-62 **P. Banacky:** Non-Adiabatic Aspects of Superconducting State Formation
1PO1-64 **R. Chaudhury:** An Analysis of the Insulating and Normal Phases of High- T_c Systems
1PO1-65 **A. V. Nikulov:** A Quantum Force in Superconductors
1PO1-66 **H. Zhang:** Calculation of Hole Distribution in $\text{YBa}_2\text{Cu}_3\text{O}_{7-\delta}$
1PO1-67 **M. B. S. Neto:** Effective Sublattice Magnetization and Neel Temperature in Quantum Antiferromagnets
1PO1-68 **G. Litak:** Percolation of Superconductivity
1PO1-69 **D. Zhou:** Quantum Tunneling Cyclic Loop in High Temperature Superconductor Probably Is the Microscopic Origin of High Temperature Superconductivity
1PO1-70 **E. Siegel:** Cuprates versus Fullerenes High- T_c Superconductor Noise Power-Spectrum Dichotomy Diagnostics Implications for Superconductivity Generic "Mechanisms" Dichotomy: Original Multi-Band Spin-Orbital Degeneracy Hubbard-Model for Cuprates'

1PO2 Vortex Physics

- 1PO2-1 **M. J. Qin:** Third Harmonic AC Susceptibility of Superconductors with Finite Thickness
1PO2-2 **M. J. Qin:** AC Susceptibility of Superconductors with Geometric Barrier
1PO2-3 **Y. Eltsev:** Transverse Dynamic Vortex Correlation in a $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_{8+\delta}$ Corbino Disk
1PO2-4 **D. G. Marinaro:** The Effects of Uranium Doping and Thermal Neutron Irradiation on the Pinning Properties of Ag/Bi-2223 Tapes
1PO2-5 **K. Kimura:** Weak Pinning Phenomena in Liquid State in $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_{8+\delta}$ with Columnar Defects
1PO2-6 **K. Ogikubo:** Pinning Property Change of High-Energy Heavy-Ion Irradiated Bi-2212 Single Crystals due to Thermal Annealing after Irradiation
1PO2-7 **P. H. Kes:** Interplay of Pancake Vortices and Columnar Defects in Heavy-Ion Irradiated $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_8$
1PO2-8 **E. Mezzetti:** Effect of the Microscopic Correlated-Pinning Landscape on the Macroscopic Critical Current Density in YBCO Films.
1PO2-9 **T. Banerjee:** Fluctuation Induced Conductivity Studies of 100 MeV Oxygen Ion Irradiated Pb-Doped Bi-2223 Superconductors
1PO2-10 **S. Kokkalis:** Transition from Elastic to Plastic Vortex Dynamics in $\text{YBa}_2\text{Cu}_3\text{O}_{7-\delta}$ Single Crystals: the Effect of Point and Columnar Defects
1PO2-11 **C. J. Wang:** Transport Properties of Proton Irradiated $\text{HgBa}_2\text{Ca}_2\text{Cu}_3\text{O}_{8+\delta}$ Superconducting Thin Film
1PO2-12 **E. Zeldov:** Current-Gradient Anisotropy Enhancement in Layered Superconductors
*1PO2-13 **Kazuto Hirata:** Imaging of Vortex Lattice in Single Crystal $\text{YNi}_2\text{B}_2\text{C}$ by STM
*1PO2-14 **M. T. Pannetier:** Magneto-Optical Observation of the Influence of an Artificial Periodic Magnetic Pattern on the Pinning of a $\text{YBa}_2\text{Cu}_3\text{O}_{7-x}$ Thin Film

1PO2 Vortex Physics (cont'd)

- 1PO2-15 J. A. Herbsommer: Reproducibility of the Disordered Vortex Structure in Twinned Single Crystals of YBCO
- *1PO2-16 B. L. T. Plourde: Vortex Dynamics in Thin Superconducting Strips Observed by Scanning SQUID Microscopy
- 1PO2-17 Y. Yeshurun: Magneto-Optical Imaging of Transient Vortex States in $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_{8+\delta}$ Crystals
- 1PO2-18 G. Yang: Magnetic Flux Penetration and Flux Distribution in $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_y$ Single Crystals by Magneto-Optical Measurements
- 1PO2-19 S. Kolesnik: Flux Pinning by Anisotropic Arrays of Antidots in Superconducting Thin Films
- 1PO2-20 R. Santiago: *d*-Wave Symmetry in Bi2212 and Tl2223 Vortex States: a Maximum-Entropy Muon-Spin-Resonance Study *
- 1PO2-21 Q. H. Wang: Theory of the Abnormal Thermal Conductivity in Cuprates
- 1PO2-22 A. A. Zhukov: Negative Dynamic Creep in Superconductors with the Peak-Effect
- 1PO2-23 A. A. Kordyuk: Compact Vortex Structures Penetration into HTS Bulks
- *1PO2-24 A. F. Khoder: High Field Anomaly of the Differential Susceptibility in the Reversible Mixed State of $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_8$
- 1PO2-25 L. Dorosinskii: Studies of the Vortex Dynamics in High-Temperature Superconductors by Local AC-Susceptibility Measurements in a Wide Frequency Range
- 1PO2-26 T. Di Matteo: Numerical Analysis of Higher Harmonics AC Susceptibility
- 1PO2-27 D. Di Gioacchino: Frequency, Field and Temperature Characterization of YBCO Using AC Higher Harmonic Susceptibility Measurements near T_c
- 1PO2-28 S. O. Valenzuela: History Dependence in the AC Susceptibility of Twinned $\text{YBa}_2\text{Cu}_3\text{O}_7$ Single Crystals
- 1PO2-29 F. Y. Lin: Study of the Backward Jump of Flux Lines in AC Susceptibility and Determination of the Non-Creep J_c by Numerical Simulation in Tl2212 Thin Film
- 1PO2-30 D. Yin: Dynamic Response Due to Depinning and the Amplitude Effects in AC Susceptibility of HTS
- 1PO2-31 Y. M. A. Wang: Sample Size Dependence of the Second Magnetization Peak in $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_8$
- 1PO2-32 A. Knigavko: Square Vortex Lattice: Elastic Moduli and Structural Phase Transitions
- 1PO2-33 R. K. Chu: Angular-dependent Studies of Vortex Behavior in $\text{YNi}_2\text{B}_2\text{C}$ Single Crystals
- 1PO2-34 R. Sugano: Two-Stage Melting of the Vortex Glass with Strong Point Disorder
- 1PO2-35 Y. Z. Zhang: Experimental Evidence for Vortex Decoupling in a Superconducting $\text{Bi}_2\text{Sr}_{2-x}\text{La}_x\text{CuO}_{6+\delta}$ Thin Film
- 1PO2-36 Z. H. Wang: Coupling between the Layers in Vortex Liquid Regime of $\text{YBa}_2\text{Cu}_3\text{O}_{7-\delta}$ Single Crystals
- 1PO2-37 K. Kumagai: Vortex Charge in High- T_c Superconductors Probed by Nuclear Quadrupole Resonance
- *1PO2-38 A. S. Mel'nikov: Theory of Vortex Lattice Effects on STM Spectra in D-wave Superconductors
- 1PO2-39 M. Eschrig: Dynamics of Bound States and Charges in the Vortex Core
- 1PO2-40 M. Kato: Quantum Limit of Quasi-Particle Spectrum in the Vortex States of *d*-wave Superconductors
- 1PO2-41 B. Rosenstein: Magnetic Skyrmions and Other Nonconventional Fluxons in p-Wave Superconductors
- 1PO2-42 R. D. Duncan: Vortex Core States in the Evolution from BCS to BEC Superconductivity
- 1PO2-43 R. Prozorov: Low Temperature Vortex Depinning in BSCCO-2212 Single Crystal
- *1PO2-44 P. A. J. de Groot: Genesis of the Peak-Effect from the Melting Transition in $\text{YBa}_2\text{Cu}_3\text{O}_y$ Single Crystals
- *1PO2-45 Y. He: Strong Quantum Fluctuations of Vortex Movements in *c*-Axis-Oriented YBCO Ultrathin Films
- 1PO2-46 T. R. Lemberger: Measurement of the Inductance of Pinned Vortices in YBCO Films
- 1PO2-47 P. Tripodi: Increasing of the Superconducting Pinning Potential and Critical Current Due to Hydrogen Doping in Sintered YBCO
- 1PO2-48 B. M. Smolyak: Stopping of Levitation Force Relaxation in Superconductors: The Flux Stopping Effect
- 1PO2-49 A. D. Alvarenga: Absence of Pinning Mechanism Change in the Second Peak of $\text{YBa}_2\text{Cu}_3\text{O}_{6.5}$ at Low Temperature.
- 1PO2-50 R. Nagarajan: Peak Effect Close to H_{c2} : A Comparative Study in $\text{Mo}_x\text{Re}_{1-x}$ and CeRu_2
- 1PO2-51 D. Di Gioacchino: Room Temperature Oxidation of Sintered YBCO Using μs Pulsed Electrolysis
- 1PO2-52 M. Angst: Improvement of the Flux Pinning Properties of Hg Based Single Crystals by a Substitution of Ba by Sr
- 1PO2-53 Y. M. Cai: Critical Currents and Pinning Mechanism of Superconducting Ni_3Sn Multifilamentary Tape
- 1PO2-54 V. N. Narozhnyi: Dip Anomaly in AC Screening Response and Peak Effect in $\text{LuNi}_2\text{B}_2\text{C}$ and $\text{YNi}_2\text{B}_2\text{C}$ Single Crystals
- 1PO2-55 G. Jug: Vortex Bulk-Nucleation and Edge-Tunneling in Superconducting Thin Films.
- 1PO2-56 G. Liu: The Langevin Simulation of Vortex Matter's Response in Glass State to External Force and Memory Effect
- 1PO2-57 B. Y. Zhu: Asymmetric Pinning in Superconductors with Interpenetrating Arrays of Weak and Strong Pinning Centers
- 1PO2-58 D. V. Shantsev: Comparison of Two Methods of Flux Creep Analysis: Flux Diffusion Equation versus Current-Voltage Curve Approach
- 1PO2-59 L. Gang: Brownian Motion of Coupled Vortices in Type-II superconductor: Response to External Forces as a Interacting Bosons System
- 1PO2-60 F. Wang: Application of the General Flux Conservation Equations for Different Shape Superconductors in Electromagnetic Measurements
- 1PO2-61 S. A. Aruna: Correspondence between Magnetic Time Relaxation and Field Sweeping Rate Dependence of Magnetic Hysteresis

- 1PO2-62 E. Moraitakis: Magnetic Relaxation Measurements in a Detwinned $\text{YBa}_2\text{Cu}_3\text{O}_{7-x}$ Single Crystal
- 1PO2-63 J. Schaf: Irreversibility Limits of the Abrikosov and Josephson Flux Dynamics in High- T_c Superconductors.
- 1PO2-64 I. P. Krylov: Magnetic Flux Creep in YBCO Films in the Regime of Critical Fluctuations
- 1PO2-65 Y. Y. Hsu: Low Field Flux Dynamics of Various Under-Doped Bi-2212 Single Crystals
- 1PO2-66 X. J. Fan: Critical Current Density and Irreversibility Behaviors in Re-Doped $\text{HgBa}_2\text{Ca}_2\text{Cu}_{2.9}\text{Re}_{0.1}\text{O}_y$
- 1PO2-67 Z. L. Xiao: Current Ramping Rate Dependence of the Critical Current in 2H-NbSe₂ Crystals
- 1PO2-68 M. Chandran: Irreversibility Temperature from Magnetic Relaxation
- 1PO2-69 J. -F. de Marneffe: Investigation of The Low Field Irreversibility Line in $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_{8+x}$ Thin Films
- 1PO2-70 E. Babic: Resistive Irreversibility Line of Bi2223/Ag Tape in High Magnetic Fields
- 1PO2-71 T. Koyama: Quantum Theory for the Josephson Plasma in High- T_c Superconductors
- 1PO2-72 F. N. Bukhan'ko: Microwave Excitation of Josephson Plasma Mode and Swihart Waves in Vortex State of $\text{YBa}_2\text{Cu}_3\text{O}_{6.9}$ Ceramics
- 1PO2-74 Y. Matsuda: Josephson Plasma Resonance as a Probe of the Superconducting State of Bi:2212 and Bi:2201
- 1PO2-76 I. Kakeya: Josephson Plasma Mode in Fields Parallel to Layers of $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_{8+\delta}$
- 1PO2-77 T. Kakeshita: c-Axis Josephson Plasma Edge in T^* Phase Superconductor
- 1PO2-78 K. Hirata: Vortex State in the Mesa-structured Bi-2212 Single Crystal with the Josephson Current along the c-axis
- 1PO2-79 V. A. Finkel: New Method of Studying the Anisotropy of Lower Critical Fields in HTSC
- *1PO2-80 A. A. Zhukov: Commensurability Oscillations and Double Peak-Effect in $\text{YBa}_2\text{Cu}_3\text{O}_y$
- 1PO2-81 A. A. Zhukov: Entropy Driven Fragmentation of the Locked Vortex State
- 1PO2-82 A. F. Khoder: Tilted to Combined Vortex Lattice Phase Transition in $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_8$
- 1PO2-83 D. A. Ryzhov: Angular Dependence of the Lower Critical Field in Layered (s+d)-Wave Superconductors
- 1PO2-84 Yu. I. Talanov: Relaxation of Magnetic Flux at a Field Nearly Parallel to the CuO Plane of the YBCO Crystal
- 1PO2-85 T. Naito: Anomalous Angular Dependence of Magnetization near $H \parallel ab$ -Plane in $\text{YBa}_2\text{Cu}_3\text{O}_{7.8}$ Single Crystal
- 1PO2-86 E. S. Sadki: Mixed State Behavior of Superconducting NbN/AlN Multilayers
- 1PO2-87 J. Mirkovic: New Angular Dependence of Vortex Melting Transition in Single Crystal Bi-2212
- 1PO2-89 T. Tamegai: Vortex Matter Phase Transitions under Tilted Fields in Pristine and Pb-Substituted $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_{8+y}$
- 1PO2-90 S. O. Valenzuela: Pinning Regimes in YBaCuO Single Crystals below the Melting Line
- 1PO2-91 A. V. Pan: Influence of a Driving Force on the Pinning of a Field-Cooled Vortex Lattice
- 1PO2-92 V. V. Bolginov: Nonlinear Microwave Response of an YBCO Single Crystal in an Applied Magnetic Field.
- 1PO2-93 Y. Tsuchiya: High-Frequency Electromagnetic Response in the Mixed State of $\text{YBa}_2\text{Cu}_3\text{O}_y$
- 1PO2-94 T. S. Shaposhnikova: Effect of the Multiplicative Noise on the Microwave Absorption in the Superconductor
- 1PO2-95 M. I. Tsindlekht: A stochastic Resonance Phenomenon in Single Crystal Nb
- 1PO2-96 J. T. Markert: Smallness of the Transverse Force on Moving Vortices in $\text{YBa}_2\text{Cu}_3\text{O}_{7.8}$
- 1O2-97 J. Franck: Various Regimes of Flux Motion in $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_{8+\delta}$ Single Crystals
- 1PO2-98 G. Bolaños: Effect of Silver Doping on the Transport Properties of Epitaxial $\text{YBa}_2\text{Cu}_3\text{O}_{7-x}$ Thin Films
- 1PO2-99 Y. Mawatari: High Frequency AC Response of Vortices in Superclean Superconductors
- 1PO2-100 J. Roa-Rojas: Hall Effect in a Hg(Re)-1223 Superconductor
- 1PO2-101 D. Yin: Flux-Charge Analogy and Nonlinear Response Function in HTS and Two-Dimension Charge Systems
- 1PO2-102 V. M. Vinokur: Nonlinear Electrodynamics of Randomly-Inhomogeneous Superconductors
- 1PO2-104 C. A. M. dos Santos: Possible Electrical Current-Driven Superconductor-Insulator Transition
- 1PO2-105 P. A. Venegas: Size Effects in the Critical Currents of Superconducting Films
- 1PO2-106 J. Albino Aguiar: Flux Field Profiles and Magnetization Curves for Bent Thin Strips in Transverse Field
- 1PO2-107 T. Naito: Superconducting Fluctuation Probed by c-Axis Conductivity in $\text{YBa}_2\text{Cu}_2\text{O}_{7.8}$ Single Crystal
- 1PO2-108 E. Polturak: Testing a Cosmological Scenario Using High T_c Superconductors
- 1PO2-110 P. J. Wu: Irreversibility Fields of Low- T_c Superconductors
- 1PO2-111 S. Sarkar: Elucidation of Amorphization of Flux Line Lattice in $\text{Yb}_3\text{Rh}_4\text{Sn}_{13}$
- 1PO2-112 X. G. Qiu: Vortex Melting and Decoupling Transitions in $\text{YBa}_2\text{Cu}_4\text{O}_8$ Single Crystals
- 1PO2-113 A. Pautrat: Vortex Pinning in Untwinned YBCO
- 1PO2-114 E. H. Brandt: Irreversibility in Type-II Superconductors: Geometric Barrier versus Pinning
- 1PO2-115 Yu. A. Genenko: Overcritical States in Magnetically Shielded Superconductor Strips
- 1PO2-116 D. Stamopoulos: Temperature Dependence of the Lower Critical Field for a $\text{HgBa}_2\text{CuO}_4$ Single Crystal
- 1PO2-117 A. Yu. Aladyshkin: Influence of Surface Irregularities on Barriers for Vortex Entry in Type-II Superconductors
- 1PO2-119 I. Joumard: Reversible Magnetization Measurements in the Cubic (K,Ba)BiO₃ Superconductor
- 1PO2-120 I. G. De Oliveira: Solution of the Anisotropic Ginzburg-Landau Theory by the Iterative Method
- 1PO2-121 G. D. Gu: Vortex Arrangement and Reversible Magnetisation in Plane Magnetic Field of $\text{Bi}_{2.1}\text{Sr}_{1.9}\text{Ca}_{1.0}\text{Cu}_{2.0}\text{O}_x$ Single Crystal

1PO2 Vortex Physics (cont'd)

- 1PO2-122 **Y. Wang:** Direct Observation of the *d*-wave Contributions to the Low Temperature Specific Heat of $\text{YBa}_2\text{Cu}_3\text{O}_7$
- 1PO2-123 **D. A. Landinez Tellez:** Two-Dimensional Fluctuations in the Magnetization of the High-Temperature Superconductor $\text{CaLaBaCu}_3\text{O}_7$
- 1PO2-124 **B. Ya. Shapiro:** Spontaneous Creation of Magnetic Flux in Superconducting Ring
- 1PO2-125 **B. Ya. Shapiro:** Onset of Superconductivity: Domain Wall Instability versus Topological Explosion
- 1PO2-126 **J. H. Lee:** Josephson Vortex Dynamics in $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_{8+\delta}$ Intrinsic Josephson Junctions under High Magnetic Field
- 1PO2-127 **C. Reichhardt:** Vortex Pinning and Dynamics in Layered Superconductors with Periodic Pinning Arrays
- 1PO2-128 **C. J. Olson:** Depinning and Dynamic Phases in Driven Three-Dimensional Vortex Lattices in Anisotropic Superconductors
- 1PO2-129 **D. O. Ledenyov:** Electronical Casimir Force in SNS System
- 1PO2-130 **D. N. Stamopoulos:** High Temperature-Low Field Phase Diagram of the Vortex Matter for a $\text{HgBa}_2\text{CuO}_4$ Single Crystal
- 1PO2-131 **P. Samuely:** Vortex-Glass Transition in the $(\text{Ba,K})\text{BiO}_3$ Superconductor at Very Low Temperatures
- 1PO2-132 **S. Sarkar:** Peak Effect in $\text{Ca}_3\text{Rh}_4\text{Sn}_{13}$ and $\text{Yb}_3\text{Rh}_4\text{Sn}_{13}$: Vortex Phase Diagram and Evidences for Stepwise Amorphization of Flux Line Lattice
- 1PO2-133 **M. F. Tai:** Universal Behaviors of Magnetic Properties of Rb_3C_{60} Fullerites
- *1PO2-134 **K. E. Bassler:** A Simple Cellular Model for Vortex Avalanches

1PO3 Cuprate-Based Materials

- 1PO3-1 **Z. Peng:** Synthesis of High T_c Superconductivity Powder Material Prepared by Glycine-Nitrate-Precursors Method (GNP)
- 1PO3-2 **C. Buzea:** Critical Temperature Correlations with Mass Scaling along c-Axis in Cuprates - Prediction of Structures with Higher Critical Temperatures
- 1PO3-3 **Th. Wolf:** Growth, Morphology and Thermal Properties of $\text{Nd}_{1-x}\text{Ba}_{2-x}\text{Cu}_3\text{O}_y$ Single Crystals
- 1PO3-4 **T. Honma:** Pressure Induced Superconductivity in $\text{Y}_{1-x}\text{Ca}_x\text{Ba}_2\text{Cu}_3\text{O}_{6+y}$
- 1PO3-5 **F. M. Araujo-Moreira:** Grain Clusters Contribution to the Multilevel Granular Behavior in Melt-Textured $\text{YBa}_2\text{Cu}_3\text{O}_{7-\delta}$
- 1PO3-6 **H. Zhang:** A Study on Na Doped Melt Textured Growth YBCO
- 1PO3-7 **S. A. Nedilko:** Superconducting Single- and Polycrystalline Cuprates of 1212 Type
- 1PO3-8 **S. A. Nedilko:** Superconductive Ceramics (Y123)/Polymer Composites
- 1PO3-9 **D. Volcko:** Single Domain Textured ($\text{YBa}_2\text{Cu}_3\text{O}_{7-\delta}$) $_{1-x}$ Ag_x Samples
- *1PO3-10 **G. C. Che:** A New Superconducting Series $\text{Cu}_{0.5}\text{B}_{0.5}\text{SrBaR}_{0.6}\text{Ca}_{0.4}\text{Cu}_2\text{O}_7$
- 1PO3-11 **E. Sato:** Preparation of a New Layered Cuprate ($\text{As}_{0.33}\text{Cu}_{0.67}$) $\text{Sr}_2\text{YCu}_2\text{O}_y$ and Its Physical Properties
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- 2P09-82 F. Bobba: Different Tunneling Regimes in LSCO Break Junction
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- 2P09-84 T. Fujita: Superconductivity in the Tetragonal Lattice of Underdoped $\text{La}_{2-x}\text{Sr}_x\text{CuO}_4$
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- 2P09-88 A. I. Golovashkin: Strong Influence of Magnetic Field on the Thermal Expansion Anomaly in $\text{La}_{2-x}\text{Sr}_x\text{CuO}_4$ and $\text{Ba}_{1-x}\text{K}_x\text{BiO}_3$ Systems.
- *2P09-89 M. A. Tanatar: Thermal Conductivity of Sr_2RuO_6 in Oriented Magnetic Field
- 2P09-90 I. Vekhter: Angular Dependent Magnetothermal Conductivity in Unconventional Superconductors
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- 2PO9-94 V. M. Dmitriev: Phase Transitions and Superconductivity of $\text{LuFe}_4\text{As}_{18}$
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- 4PO1-4 S. -H. Salk: Hole Pair Bose Condensation Based on the $\text{SU}(2)$ Slave-Boson Approach to the t-J Hamiltonian; Instability of the Normal State against Hole Pairing
- 4PO1-5 P. W. Leung: Spin and Current Correlations and Excitations in the t-J Model with Two Holes
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- 4PO1-11 X. Hu: Magnetic-Field-Inducing First-Order N to AF Transition: a Prediction by the $\text{SO}(5)$ Theory
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- 4PO1-13 T. Li: Theory of the Resonant Neutron Scattering in $\text{YBa}_2\text{Cu}_3\text{O}_7$
- 4PO1-14 P. M. Pfeuty: Superconducting State in the Underdoped High- T_c Cuprates as a Quantum Spin Liquid. Comparison with Neutron Scattering.
- 4PO1-15 G. Litak: Coherent Potential Approximation for d-wave Superconductivity in Disordered Systems
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- 4PO1-17 C. Yang: Exact Magnetic Ground-State Properties in the One-Dimensional Attractive Hubbard Model
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- 4PO1-21 S. Koike: Variational Monte Carlo Study of the Ground State of the Two-Dimensional d-p Model
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*4PO2-3 P. J. Thomas: Measurement of Intrinsic c-Axis transport in 2212-BSCCO
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4PO3-5 A. Sawa: Spin-Polarized Quasiparticle Injection and Tunnel Spectra in $\text{La}_{0.67}\text{Sr}_{0.33}\text{MnO}_3/\text{YBa}_2\text{Cu}_3\text{O}_{7-\delta}$ Junctions
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- 4PO3-12 H. Y. Zhai: Planar SNS Junctions Using FIB Processing of c-Oriented YBCO Thin Films
- 4PO3-13 G. I. Urushadze: "Quantum Noise and Fokker-Planck Equation in Josephson Transitions"
- 4PO3-14 F. Giubileo: Coexistence of Andreev Bound States and Josephson Current in YBCO Break Junctions.
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- *4PO3-19 F. L. Lombardi: Flux Flow Step in YBaCuO_{7-8} Grain Boundaries Josephson Junctions with a Four Terminal Configuration
- 4PO3-20 K. Nakajima: Collective Motion of Josephson Vortex in $\text{Bi}_2\text{Sr}_2\text{Ca}_1\text{Cu}_2\text{O}_y$ Intrinsic Josephson Junctions by Inhibit-Ion-Implantation Process
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- 4PO3-25 Q. Y. Cai: Capacitive and Mesoscopic Tunnel Junction in Series Coupled Superconducting Single Electron Transistor
- 4PO3-26 N. Stefanakis: Critical currents in Josephson Junctions of Superconductors with $d_{x^2-y^2} + id_{xy}$ Symmetry
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- 4PO4-7 R. Muller: Polarization and Doping Effects in High Resolved ARPES and XAS Spectra on $n=1 \text{ Bi}_2\text{Sr}_{2-x}\text{La}_x\text{CuO}_{6+\delta}$ - Single Crystals
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- 4PO4-15 S. V. Borisenko: Topology of the Fermi Surface of Bi-2212 from High Resolution ARPES
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- 4PO4-17 H. Ding: ARPES Lineshape of Novel Superconductors
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- *4PO4-20 F. Ronning: Photon Energy Dependence on ARPES Spectra of $\text{Ca}_2\text{CuO}_2\text{Cl}_2$
- 4PO4-21 A. G. Abanov: The Relation between Neutron, ARPES, Tunneling, and Raman Data in Superconducting Cuprates

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- 4PO5-3 **M. J. Gutmann:** Local Structural Evidence for Charge Inhomogeneities in the CuO_2 Planes of $YBa_2Cu_3O_{6+x}$ ($x=0.25, 0.45, 0.65, 0.94$)
- 4PO5-4 **D. -Y. Chen:** Magnetic Ordering in the Superconducting Mixed Ruthenium-Copper Oxide $Sr_2Y(Ru_{1-x}Cu_x)O_6$
- 4PO5-5 **Y. -J. Kao:** Frequency Evolution of Neutron Peaks Below T_c : Commensurate and Incommensurate Structure in $LaSrCu$ and $YBaCuO$
- 4PO5-7 **A. Suter:** Low Energy Charge Fluctuations in the Presence of the Pseudo Spin Gap in $YBa_2Cu_4O_8$
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- 4PO5-14 **B. J. Suh:** ^{139}La and ^{63}Cu NQR in Zn-Doped Lanthanum Cuprate
- 4PO5-15 **A. P. Reyes:** Evidence for Ba-site Occupation of Pr^{3+} in $Y_{1-x}Pr_xBa_2Cu_3O_{7-\delta}$ from Cu NQR
- 4PO5-16 **A. P. Gerashenko:** Effect of Doping on the Behaviour of Spin Susceptibility in $Tl_2Ba_2CaCu_2O_{8-\delta}$ Compounds: ^{63}Cu and ^{17}O NMR Studies
- 4PO5-17 **M. -H. Julien:** ^{63}Cu NMR Evidence for Enhanced Antiferromagnetic Correlations around Zn Impurities in $YBa_2Cu_3O_{6.7}$
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- 4PO5-24 **H. Sakamoto:** NMR Studies of Superconducting $Ba_8Ag_xSi_{46-x}$ ($x = 0 \sim 6$)
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