

**Poster Presentation Titles for Vortex Workshop'98  
Hachimantai, Japan, June 21-26, 1998**

**1. Yoichi Ando**

**Thermal Conductivity Anomaly of Bi-2212 in Magnetic Fields**

**2. Eva Andrei**

**Nonlinear Dynamics of Flux Line Lattice**

**3. Shobo Bhattacharya**

**Experimental studies of metastability and history dependence in the vortex phase diagram in low-Tc superconductors**

**4. Lev Bulaevskii**

**Structure of vortex liquid in irradiate BISCO Crystals**

**5. Leonid Burlachkov**

**Effect of surface and bulk pinning on the distribution of transport current in superconductors**

**6. Melissa Charalambous**

**1st/2nd Order Phase Transitions and Latent Heat of Flux Lattice Melting**

**7. Noriko Chikumoto**

**Anomalous magnetization behavior observed in BSCCO with columnar defects**

**8. John Clem**

**Magnetic Field of In-Plane Vortices Outside Layered Superconductors**

**9. Lance Cooley**

**Intrinsic pinning in layered superconductors with very low anisotropy**

**10. George Crabtree**

**Vortex dynamics with periodic pins**

**11. Dan Fuchs**

**Possible new vortex matter phases in  $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_8$**

- 12. Peter de Groot**  
**The Effect of Oxygen Content and Twin Planes on the Vortex Phase Diagram of YBCO**
  
- 13. Matthew Dodgson**  
**Melting of the Vortex-Pancake Lattice in Layered superconductors**
  
- 14. Susanne Doettinger**  
**Specific heat of Zn-doped YBCO**
  
- 15. Daniel Dominguez**  
**Voltage noise and dynamics vortex phases in driven two dimensional superconducting thin films**
  
- 16. Richard Doyle**  
**Separation of surface-and bulk-related transport behavior of  $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_8$**
  
- 17. Mikhail Feigelman**  
**Quantum Superconductor-Metal Transition in a 2D Proximity-Coupled Array**
  
- 18. Mark Friesen**  
**Magnetization Fluctuations near the Superconducting Transition of  $\text{YBa}_2\text{Cu}_3\text{O}_7$ . Single Crystals**
  
- 19. Sergey Gordeev**  
**Oscillatory Dynamics of the Driven Vortex Solid in  $\text{YBa}_2\text{Cu}_3\text{O}_7$ . Single Crystals**
  
- 20. Tetsuo Hanaguri**  
**Quasi-particle excitation in the mixed state of  $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_y$**
  
- 21. Hideki Haneda**  
**Intrinsic Pinning of the Josephson Vortex in a Layered Superconductor  $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_{8+x}$ . Studied by the Conversion between Ultrasonic and Electromagnetic Waves**
  
- 22. Ken Harada**  
**Observation of Vortex Relaxation in Ion-Irradiated BSCCO(2212) by Lorentz Microscopy**

- 23. Tetsuya Hasegawa**  
**Low Temperature STM/STS on Pb-doped  $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_y$  Superconductors**
- 24. Masahiko Hayashi**  
**Spectral Flow and the Decay of Supercurrent in Superconductors**
- 25. Kazuto Hirata**  
**Reversible Characteristic of DC Magnetization up to 28T in Single Crystalline  $\text{YBa}_2\text{Cu}_3\text{O}_y$**
- 26. Baruch Horovitz**  
**Josephson glass and decoupling of flux lattices in layered superconductors**
- 27. Nigel E. Hussey**  
**In-plane anisotropy of the vortex melting line in  $\text{YBa}_2\text{Cu}_4\text{O}_8$**
- 28. Ryusuke Ikeda**  
**Comment on the Mean Field Solution and Orderings in a Field parallel to the Layers**
- 29. Hiroshi Ikuta**  
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- 30. Mikhail Indenbom**  
**Does columnar defects produce Bulk Pinning?**
- 31. Takekazu Ishida**  
**Anisotropic vortex lattice melting of the untwinned  $\text{YBa}_2\text{Cu}_3\text{O}_{7-x}$  crystals**
- 32. Akira Kamimura**  
**Bitter Patterns on Bi-2212 Single Crystal with  $H // ab$ -plane**
- 33. Kazushi Kanoda**  
**NMR Study of vortex dynamics in a organic superconductor at selective nuclear sites**
- 34. Koichi Kitazawa**  
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- 35. Norio Kobayashi**  
**Resistivity hysteresis in moving vortex lattice phase of  $\text{YBa}_2\text{Cu}_3\text{O}_y$  single crystal**
- 37. Tomio Koyama**  
**Collective Modes in Josephson-coupled Layered Superconductors**
- 38. Lia Krusin-Elbaum**  
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- 39. Yoshinori Kuwasawa**  
**Vortex dynamics of two dimensional amorphous W superconductor with Si / W / Si Sandwich and W / Si multilayer**
- 40. Wai-Kwong Kwok**  
**Peak Effect Deep in the Vortex Solid State of  $\text{YBa}_2\text{Cu}_3\text{O}_{7-d}$**
- 41. Pierre le Doussal**  
**Moving glass theory of driven lattices with disorder**
- 42. Sung-Ik Lee**  
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- 43. Masahiko Machida**  
**Theory and Numerical Simulation of Intrinsic Josephson Effects: Dynamics of the Superconducting Phase along c-axis**
- 44. Martin Maley**  
**Evidence of vortex-line recoupling in irradiated Bi-2212 from transport Measurements**
- 45. Maxin Marchevsky**  
**Depinning and flow of the vortex lattice in NbSe<sub>2</sub>: anisotropic vortex Displacement and motion history**

- 46. Yuji Matsuda**  
**Hall Anomaly and Vortex Charge probed by NQR in the Superconducting State of High-Tc Cuprates**
- 47. Teruo Matsushita**  
**Vortex Glass-Liquid Transition in Pinned Superconductor**
- 48. Mike McElfresh**  
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- 49. Jovan Mirkovic**  
**Moving Vortex States in BSCCO in Tilted Fields**
- 50. Muralidhar Miryala**  
**Microstructure and pinning in high-Tc and large-Jc (Nd, Eu, Gd)123 Superconductors prepared by the OCMG process**
- 51. Michael Moore**  
**The Low-Field Critical End Point of the First-Order Transition Line  $\text{YBa}_2\text{Cu}_3\text{O}_7$**
- 52. Thomas Nattermann**  
**Van der Waals interaction between flux lines in High-Tc Superconductors**
- 53. Nobuhiko Nishida**  
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- 54. Minoru Nohara**  
**Quasiparticle Excitations in the Vortex State of Clean and Dirty superconductors - Specific Heat under Magnetic Fields**
- 55. Franco Nori**  
**Dynamics Phases of Vortices in Superconductors with Periodic Pinning**
- 56. Shigetoshi Ohshima**  
**Observation of vortex movement of oxide superconductors by means of the Bitter pattern technique**

- 57. Satoshi Okuma**  
**Unusual insulating phase at low temperature in disordered thin superconducting films**
- 58. Toshiyuki Onogi**  
**Monte Carlo study of Vortex State in Heavy-Ion Irradiated Bi-2212: Current-Driven Vortex Dynamics**
- 59. Shuuichi Ooi**  
**Vortex Phase Diagram in Oblique Field in  $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_{8+y}$**
- 60. Marlyse Roulin**  
**Specific heat experiments on the vortex melting line in “123” superconductors: Observation of first-and second-order transitions up to 16 T**
- 61. Hugo Safar**  
a) **Dynamics of Vortices in Heavy-Ion irradiated  $\text{YBa}_2\text{Cu}_3\text{O}_7$  :**  
**Experimental Evidence for a Reduced Vortex Mobility at the Matching Field**  
b) **On the Effect of surface and bulk pinning in vortex motion**
- 62. Takao Sasagawa**  
**First-Order Phase Transition of Vortex-Lattice in  $(\text{La}_{1-x}\text{Sr}_x)_2\text{CuO}_4$  single crystals**
- 63. Takahiko Sasaki**  
**Quantum liquid of vortices in the quasi-two-dimensional organic Superconductors  $\kappa\text{-(BEDT-TTF)}_2\text{Cu(NCS)}_2$**
- 64. Stefan Scheldl**  
**Nonequilibrium dislocation dynamics and instability of driven vortex lattices in two dimensions**
- 65. Jun-ichi Shimoyama**  
**Magnetic Phase Diagram of Bi2212 and Bi(Pb)2212 Determined by magnetization and Transport Measurements**
- 66. Junichi Shiraishi**  
**Stability of the vortex lattice in d-wave superconductors**

- 67. Edouard Sonin**  
a) **Collective modes of layered superconductors in the mixed state**  
b) **Nonlinear microwave properties of YBCO thin films**
- 68. Tsuyoshi Tamegai**  
**Anisotropic Pinning and Vortex State in Highly Lead-doped**  
 **$\text{Bi}_{2-x}\text{Pb}_x\text{Sr}_2\text{CaCu}_2\text{O}_{8+y}$**
- 69. Stephen Teitel**  
**Correlation Lengths at the Vortex Lattice Melting Transition**
- 70. Zlatko Tesanovic**  
**Unified Theory of vortex Loops and Lines**
- 71. James Thompson**  
**Effects of nonlocal superconductivity in  $\text{Yn}_2\text{B}_2\text{C}$**
- 72. Takashi Tsuboi**  
**Site-sensitive study of the dynamics of driven vortices in Bi2212**
- 73. Joonhyun Yeo**  
**Non-integer Flux Quanta for a Spherical Superconductor**
- 74. August Yurgens**  
**Effect of magnetic field on the c-axis critical current of Bi-2212 single crystals**
- 75. Vladimir Zavaritsky**  
**IVC probe of the vortex medium in BSCCO-2212 single crystal**
- 76. Gergely Zimanyi**  
**Dynamics of vortex matter and the peak effect**