

## **Publications:**

### **1. Interplay between ferromagnetism, surface states, and quantum corrections in a magnetically doped topological insulator**

D. Zhang, A. Richardella, D. W. Rench, S. Y. Xu, A. Kandala, T. C. Flanagan, H. Beidenkopf, A. L. Yeats, B. B. Buckley, P. V. Klimov, D. D. Awschalom, A. Yazdani, P. Schiffer, M. Z. Hasan, N. Samarth  
*Phys. Rev. B* **86**, 205127 (2012)

### **2. Defects and high bulk resistivities in the Bi-rich tetradymite topological insulator $\text{Bi}_{2+x}\text{Te}_{2-x}\text{Se}$**

S. Jia, H. Beidenkopf, I. Drozdov, M. K. Fuccillo, J. Seo, J. Xiong, N. P. Ong, Ali Yazdani, R. J. Cava  
*Phys. Rev. B* **86**, 165119 (2012)

### **3. Spatial Fluctuations of Helical Dirac Fermions on the Surface of Topological Insulators**

H. Beidenkopf, P. Roushan, J. Seo, L. Gorman, I. Drozdov, Y.S. Hor, R.J. Cava, A. Yazdani  
*Nature Physics* **7**, 939 (2011)

### **4. Transmission of topological surface states through surface barriers**

J. Seo, P. Roushan, H. Beidenkopf, Y.S. Hor, R.J. Cava, A. Yazdani  
*Nature* **466**, 343 (2010)

### **5. Development of ferromagnetism in the doped topological insulator $\text{Bi}_{2-x}\text{Mn}_x\text{Te}_3$**

Y. S. Hor, P. Roushan, H. Beidenkopf, J. Seo, D. Qu, J. G. Checkelsky, L. A. Wray, Y. Xia, S.-Y. Xu, D. Qian, M. Z. Hasan, N. P. Ong, A. Yazdani, R. J. Cava  
*Phys. Rev. B* **81**, 195203 (2010)

### **6. Transport properties of vortex matter governed by the edge inductance in superconducting $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_8$ crystals**

H. Beidenkopf, Y. Myasoedov, E. Zeldov, E. H. Brandt, G. P. Mikitik, T. Tamegai, T. Sasagawa, and C. J. van der Beek

*Phys. Rev. B* **80**, 224526 (2009)

**7. Multiple Changes of Order of the Vortex Melting Transition in BSCCO with Dilute Columnar Defects**

Tal Verdene, Haim Beidenkopf, Yuri Myasoedov, Hadas Shtrikman, Michael Rappaport, Eli Zeldov and Tsuyoshi Tamegai

*Phys. Rev. Lett.* **101**, 157003 (2008)

Also in: Virtual Journal of Applications of Superconductivity, October 2008

**8. Interplay of anisotropy and disorder in the doping-dependent melting and glass transitions of vortices in  $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_{8+\delta}$**

H. Beidenkopf, T. Verdene, Y. Myasoedov, H. Shtrikman, E. Zeldov, B. Rosenstein, D. Li, T. Tamegai

*Phys. Rev. Lett.* **98**, 167004 (2007)

**9. Equilibrium first-order melting and second-order glass transitions of the vortex matter in  $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_8$**

H. Beidenkopf, N. Avraham, Y. Myasoedov, H. Shtrikman, E. Zeldov, B. Rosenstein, E.H. Brandt, T. Tamegai

*Phys. Rev. Lett.* **95**, 257004 (2005)