

**Kevin Storr, Ph.D.**  
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## Kevin A. Storr, Ph.D.

### Education

- **Florida State University**, Tallahassee FL  
**Ph.D.** August, 2001 (Department of Physics, National High Magnetic Field Laboratory)
- **Florida State University**, Tallahassee FL  
**M.S.** May, 2000 (Department of Physics, National High Magnetic Field Laboratory)
- **Prairie View A&M University**, Prairie View TX  
**B.S.** August 1996 (Department of Physics)
- **Prairie View A&M University**, Prairie View TX  
**B.S.** August 1996 (Department of Computer Science)

### Research Interests

- Characterization of electronic and magnetic (magnetotransport and magnetization) properties of single crystal, anisotropic, organic conductors and heavy fermion systems based upon magnetic field orientation, temperature and pressure.
- Fermiology Studies

### Positions

- **Asst. Professor of Physics**, Prairie View A&M University  
Prairie View Texas, July 2004 – Present
- **Visiting Research Scientist**, National High Magnetic Field Lab  
Tallahassee Florida, June 2005 - Present
- **Postdoctoral Associate**, National High Magnetic Field Laboratory,  
Tallahassee Florida, August 2001 – July 2004
- **Visiting Professor of Physics**, Florida A&M University  
Tallahassee Florida, August 2002 – July 2004
- **Adjunct Professor of Physics**, Tallahassee Community College,  
Tallahassee Florida, August 2003 – May 2004
- **Adjunct Professor of Physics**, Florida A&M University  
Tallahassee Florida, August 2001 – August 2002
- **Research Associate**, Florida State University, National High  
Magnetic Field Laboratory, Tallahassee Florida, January 2000 –  
August 2001
- **Research Associate**, Florida State University, Department of  
Physics, Tallahassee Florida, May 1997 – December 1999
- **Graduate Teaching Assistant**, Florida State University,  
Department of Physics, Tallahassee Florida, May 1997 – December  
1999
- **Summer Research Program**, Princeton Plasma Physics  
Laboratory, Princeton New Jersey, Summer 1994 & 1995

### Affiliations

- **National Society of Black Physicists**

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### Funding

- National Science Foundation (MRI), **August 2006, \$322,000.00**
- National Science Foundation (IGERT), **February 2006, \$300,000.00**
- **Department of Energy (NNSA) September 2005 \$1,500,000.00**; Research on the Actinides and Related Materials

### Activities

- **Faculty Senator Prairie View A&M University**, September 2008 - Present
- **Chairman of Recruitment and Retention, Department of Physics, Prairie View A&M University**, July 2008 - Present
- **Chairman of Curriculum and Instruction, Department of Physics, Prairie View A&M University**, August 2004 – July 2008
- **Advisor, Gamma Phi Delta Fraternity**, Beta Exodus Chapter Prairie View A&M University, Fall 2004 - Present
- **Trainer, Department of Family and Children's Services**, State of Florida
- **Trainer, Florida Pharmacy Association**, State of Florida
- **Summer Mentor, Research Experience for Undergraduates Program**, 2003
- **National High Magnetic Field Laboratory Science Education Affiliate**; Science Presentations in schools throughout the district and tour direction in the lab.
- **Director of Youth and Education** Organized community events and instructional programs for age groups ranging from adolescence to adults. Put together study lessons; perform training & development seminars. Mediation and advising. Work with the Juvenile Center of Tallahassee (troubled teenagers) and Springhill Road Rehabilitation Center
- **Author/Publisher**, Involvement in publishing of books and lesson creation. Writing books and consulting with prospective authors on how to self publish and prepare manuscripts for printing.

### References

(Available upon request)

## Publications & Scientific Activities

- Jo, Y.J.; Balicas, L.; Kikugawa, N.; Choi, E.S.; Storr, K.; Zhou, M. and Mao, Z.Q., *Orbital-dependent metamagnetic response in  $Sr_4Ru_3O_{10}$* , **Phys. Rev. B**, **75**, 094413 (2007)
- Balicas, L.; Analytis, J.G.; Jo, Y.J.; Storr, K.; Zandbergen, H.; Xin, Y.; Hussey, N.E.; Chou, F.C. and Lee, P.A., *Shubnikov-de Haas Effect in the Metallic State of  $Na_{0.3}CoO_2$* , **Phys. Rev. Lett.**, **97**, 126401 (2006)
- Jo, Y.J.; Balicas, L.; Kikugawa, N.; Storr, K.; Zhou M. and Mao, Z.Q., *Shubnikov-de Haas effect across a metamagnetic transition in high quality single crystals of  $Sr_4Ru_3O_{10}$* , **J. Physics: Conference Series**, **51**, 247 (2006)
- Balicas, L.; Barzykin, V.; Storr, K.; Brooks, J.S.; Tokumoto, M.; Uji, S.; Tanaka, H.; Kobayashi, H. and Kobayashi, A., *Pressure-induced enhancement of the transition temperature of the magnetic-field induced superconducting state in  $\lambda$ -(BETS) $_2$ FeCl $_4$* , **Phys. Rev. B**, **70** (9), 092508 (2004)
- Balicas, L.; Barzykin, V.; Storr, K.; Brooks, J.S.; Tokumoto, M.; Uji, S.; Tanaka, H.; Kobayashi, H. and Kobayashi, A., *The effect of pressure on the phase diagram of the magnetic field-induced superconducting state of  $\lambda$ -(BETS) $_2$ FeCl $_4$* , Journal de Physique IV, **114**, 199 (2004)
- Brooks, J.S.; Balicas, L.; **Storr, K.**; Kobayashi, H.; Tanaka, H.; Kobayashi, A.; Uji, S. and Tokumoto, M., *Novel features of the newly discovered field-induced superconducting phase of  $\lambda$ -(BETS) $_2$ FeCl $_4$* , Synthetic Met., **1-4**, 485 (2003)
- Brooks, J.S.; Graf, D.; Choi, E.S.; Balicas, L.; **Storr, K.**; Mielke, C.H. and Papavassiliou, G.C., *High-magnetic-field-induced insulating phase in an organic conductor*, Phys. Rev. B, **67**, 153404 (2003)
- Iwashita, K.; Yamamoto, H.M.; Yoshino, H.; Graf, D.; **Storr, K.**; Rutel, I.; Brooks, J.S.; Takahashi, T. and Murata, K., *Uniaxial strain dependence of electronic states of  $\theta$ -(BEDT-TTF) $_2$ MZn(SCN) $_4$  [ $M = Cs, Rb$ ]*, Synthetic Met., **133**, 153-155 (2003)
- Murata, K.; Iwashita, K.; Mizuno, Y.; Guo, F.Z.; Shodai, S.; Yoshino, H.; Brooks, J.S.; Balicas, L.; Graf, D.; **Storr, K.**; Rutel, I.; Uji, S.; Terakura, C. and Yamanaka, Y., *Spin-density wave under uniaxial strain in (TMTSF) $_2$ PF $_6$* , Synthetic Met., **1-4**, 51 (2003)
- Balicas, L.; Brooks, J.S.; **Storr, K.**; Uji, S.; Tokumoto, M.; Tanaka, H.; Kobayashi, H.; Kobayashi, A.; Barzykin, V. and Gor'kov, L.P., *High Field Phase Diagram of the Field-Induced Superconducting State of  $\lambda$ -(BETS) $_2$ FeCl $_4$* , Int. J. Mod. Phys. B, **16** (20-22), 3101 (2002)
- Brooks, J.S.; Balicas, L.; **Storr, K.**; Ward, B.H.; Uji, S.; Terashima, T.; Terakura, C.; Schlueter, J.A.; Winter, R.W.; Motasham, J.; Gard, G.L.; Papavassiliou, G.C. and Tokumoto,

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M., *Electronic Structure of Novel Cation-Radical Salts in High Magnetic Fields*, Mol. Cryst. Liq. Cryst., **380**, 109 (2002)

- Murata, K.; Iwashita, K.; Mizuno, Y.; Guo, F.Z.; Shodai, S.; Yoshino, H.; Brooks, J.S.; Balicas, L.; Graf, D.; **Storr, K.**; Rutel, I.; Uji, S.; Terakura, C. and Imanaka, Y., *Uniaxial strain and anisotropy in the spin density wave in  $(TMTSF)_2PF_6$* , J. Physics and Chemistry of Solids, **63** (6-8), 1263-1265 (2002)
- Balicas, L.; Brooks, J.S.; **Storr, K.**; Uji, S.; Tokumoto, M.; Tanaka, H.; Kobayashi, H.; Kobayashi, A.; Barzykin, V. and Gor'kov, L.P., *Superconductivity in an organic insulator at very high magnetic fields*, Phys. Rev. Lett., **87** (6), 067002 (2001)
- **Storr, K.**; Balicas, L.; Brooks, J.S. and Papavassiliou, G., *Magnetic-Field-Dependent Interplay Between Incoherent and Fermi Liquid Transport Mechanisms in Low-Dimensional  $t$ -Phase Organic Conductors*, Phys. Rev. B, **64**, 045107 (2001)
- Balicas, L.; Brooks, J.S.; **Storr, K.**; Graf, D.; Uji, S.; Shinagawa, H.; Ojima, E.; Fujiwara, H.; Kobayashi, H.; Kobayashi, A. and Tokumoto, M., *Shubnikov-de Haas effect and Yamaji oscillations in the antiferromagnetically ordered organic superconductor  $k$ -(BETS) $_2$ FeBr $_4$ : a fermiology study*, Solid State Commun., **116**, 557-562 (2000)
- Ng, H.K.; Leem, Y.A. and **Storr, K.**, *Oscillatory Cyclotron Resonance Effective Mass Near  $\nu = 1$  and 2 in Modulation-Doped ZnSe/Zn $_{1-x}$  Cd $_x$  MnySe*, J. Appl. Phys., **87** (9), 6466 (2000)

### Internet Disseminations

- Y. J. Jo, L. Balicas, N. Kikugawa, K. Storr, M. Zhou, Z. Q. Mao, *Evolution of the Fermi surface across the metamagnetic transition in Sr $_4$ Ru $_3$ O $_{10}$* , **cond-mat/0605504 (2006)**
- Y. J. Jo, L. Balicas, N. Kikugawa, K. Storr, M. Zhou, Z. Q. Mao, *Evolution of the Fermi surface across the metamagnetic transition in Sr $_4$ Ru $_3$ O $_{10}$* , **cond-mat/0605504 (2006)**
- Brooks, J.S.; Balicas, L.; Storr, K.; Ward, B.H.; Uji, S.; Terashima, T.; Terakura, C.; Schlueter, J.A.; Winter, R.W.; Mohtasham, J.; Gard, G.L.; Papavassiliou, G.C. and Tokumoto, M., *Electronic Structure of Novel Cation Radical Salts in High Magnetic Fields. Proceedings of Pac. Chem. Conference (in press)*, <http://arXiv.org/abs/cond-mat/0012291>, (2001)

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### Presentations, Posters & Abstracts

- **Storr, K**, PV-Physics of Magnetic Fields and Low Temperatures, Prairie View A&M University, Prairie View Texas, October (2008)
- Jo, Y.J.; Balicas, L.; Kikugawa, N.; Choi, E.S.; **Storr, K**.; Zhou, M. and Mao, Z.Q., *Orbital-dependent metamagnetic response in Sr<sub>4</sub>Ru<sub>3</sub>O<sub>10</sub>*, Orbital Physics Conf. 2007, Stuttgart, Germany, October 10-12 (2007)
- Jo, Y.J.; Balicas, L.; Kikugawa, N.; Choi, E.S.; **Storr, K**.; Zhou, M. and Mao, Z.Q., *Orbital-dependent metamagnetic response in Sr<sub>4</sub>Ru<sub>3</sub>O<sub>10</sub>*, Int. Conf. on Strongly Correlated Electron Systems 2007, Houston, TX, May 13-18 (2007)
- **Storr, K**, Brooks, J, Balicas, L, Graf, D, *Electronic and Magnetic Properties of Low-Dimensional Organic Conductors*, North Carolina A&T University, Greensboro, NC November (2006)
- **Storr, K**, Balicas, L.; and Brooks, J.S., et al., Field-Induced Superconductivity in an Organic Insulator, Rice University, Houston Tx. October (2006)
- Jo, Y.J.; Balicas, L.; Kikugawa, N.; **Storr, K**.; Mackenzie, A.P. and Mao, Z., *Shubnikov de Haas Oscillations across the Metamagnetic Transition in Sr<sub>4</sub>Ru<sub>3</sub>O<sub>10</sub>*, American Physical Society March Meeting, Baltimore, MD, March 13-17 (2006)
- *M. Golam Faruk, Orion Ciftja, Kevin Storr, A Variational Wave Function for two-dimensional quantum-dot helium*, APS March Meeting, Baltimore, March 13-17 (2006)
- Jo, Y.J.; Balicas, L.; Kikugawa, N.; Storr, K.; Mackenzie, A.P. and Mao, Z., *Shubnikov de Haas Oscillations across the Metamagnetic transition in Sr<sub>4</sub>Ru<sub>3</sub>O<sub>10</sub>*, APS March Meeting, Baltimore, March 13-17 (2006)
- **Storr, K**, Balicas, L, Brooks J, **Invited Speaker Session Organizer**, *Electrical Transport in Layered Anisotropic Single Crystals using High Magnetic Fields and Low Temperatures* National Conference of Black Physicists, San Jose Ca, February (2006)
- **Storr, K**, National High Magnetic Field Laboratory NSF Site Visit, *College Outreach Program*, Tallahassee Florida (2005)
- **Storr, K**, Balicas, L.; and Brooks, J.S., et al., Superconductivity in an Organic Insulator at Very High Magnetic Fields, Texas A&M University, College Station Tx. October (2004)
- **Storr, K**, Balicas, L.; and Brooks, J.S., et al., *Magnetic-field Studies of Anisotropic Organic Conductors*, Prairie View Tx., April (2004)

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- **Storr, K**, Balicas, L.; and Brooks, J.S., et al., Superconductivity in an Organic Insulator at Very High Magnetic Fields, National Society of Black Physicists Conference, Atlanta Ga. March (2003)
- Balicas, L.; Brooks, J.S. and **Storr, K.**, *et al.*, *Superconductivity in an organic insulator at very high magnetic fields*, Montana State University, Bozeman, April (2001)
- Balicas, L.; Brooks, J.S. and **Storr, K.**, *et al.*, *Superconductivity in an organic insulator at very high magnetic fields*, National High Magnetic Field Laboratory-Pulsed Field Facility, Los Alamos, New Mexico, June (2001)
- Balicas, L.; Brooks, J.S. and **Storr, K.**, *et al.*, *Superconductivity in an organic insulator at very high magnetic fields*, Physics Department, Oakland University, February (2001)
- Balicas, L.; Brooks, J.S. and **Storr, K.**, *et al.*, *Superconductivity in an organic insulator at very high magnetic fields*, Physics Department, University of Florida, Gainesville, FL, November (2001)
- **Storr, K**, Balicas, L.; and Brooks, J.S., et al., *Magnetic-field-dependent interplay between incoherent and Fermi liquid transport mechanisms in low-dimensional t-phase organic conductors*, 2001, Stanford Ca. March (2001)
- Balicas, L.; Brooks, J.S.; **Storr, K**; Graf, D.; Uji, S.; Shinagawa, H.; Ojima, E.; Fujiwara, H.; Kobayashi, H.; Kobayashi, A. and Tokumoto, M., *Shubnikov-de Haas Effect and Yamaji Oscillations in the Antiferromagnetically Ordered Organic Superconductor  $k$ -(BETS)<sub>2</sub>FeBr<sub>4</sub>: A Fermiology Study*, 2001 APS March Meeting, Seattle, WA, March 12-16 (2001)
- Balicas, L.; **Storr, K**; Brooks, J.S.; Uji, S.; Ojima, E.; Fujiwara, H; Kobayashi, H. and Tokumoto, M., *A magnetic field induced phase transition, from metallic to a highly conducting state, in the antiferromagnetic insulator  $\lambda$ -(BETS)<sub>2</sub>FeCl<sub>4</sub>*, 2001 APS March Meeting, Seattle, WA, March 12-16 (2001)
- Brooks, J.S; Uji, S.; Terashima, T.; Terakura, C.; Papavassiliou, G.; Balicas, L. and **Storr, K.**, *Magnetic-field dependent electronic structure in the "tau-phase" class of low dimensional organic metals*, 2001 APS March Meeting, Seattle, WA, March 12-16 (2001)
- **Storr, K.**; Balicas, L.; Brooks, J.S. and Papavassiliou, G., *Magnetic-field-dependent interplay between incoherent and Fermi liquid transport mechanisms in low-dimensional t-phase organic conductors*, 2001 APS March Meeting, Seattle, WA, March 12-16 (2001)
- Brooks, J.S.; Balicas, L.; **Storr, K.**; Ward, B.H.; Uji, S.; Terashima, T.; Terakura, C.; Schlueter, J.A.; Winter, R.W.; Mohtasham, J.; Gard, G.L.; Papavassiliou, G.C. and Tokumoto, M., *Electronic Structure of Novel Cation Radical Salts in High Magnetic Fields. Proceedings of Pac. Chem. Conference*