
Songxue Chi

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Education and Training

University of Tennessee, Knoxville, U.S.A.

Ph. D. in Physics

December 2008

Thesis: “*Structural and magnetic properties of manganites $Pr_{1-x}Ca_{1+x}MnO_4$, oxypnictides $CeFeAsO_{1-x}F_x$ and filled skutterudite $PrOs_4As_{12}$* ”

Pukyong National University, R. Korea

M.S. in Physics

August 2001

Thesis: “*I-V characteristics of pulsed laser Ablated $SrBi_2Ta_2O_9$ Thin Films*”

Yanbian University, P. R. China

B.S. in Physics

July 1993

Professional Experience

Oak Ridge National Laboratory, USA

01/2013 – present R&D staff

Oak Ridge Associated Universities, USA

11/2010 – 01/2013 *Post doctoral associate, working at the Oak Ridge National Laboratory*

NIST Center for Neutron Research, USA

01/2009 – 11/2010 *Instrument scientist*

Yanbian University, P.R.China

09/2001 – 07/2003 *Lecturer*

01/1999 – 08/1999 *Lecturer*

07/1993 – 08/1996 *Lecturer*

Swaneng Hill School, Botswana

09/1996 – 12/1998 *Teacher*

Awards

Chancellor's Honor for Extraordinary Professional Promise

The University of Tennessee, Knoxville , April, 2008

JINS Neutron Fellowship

The University of Tennessee, Knoxville, Feb, 2008

Sigma Pi Sigma, the Physics National Honor Society membership

The University of Tennessee, Knoxville, May, 2006

Skills

- **Experimental:** Triple-axis and 4-circle spectrometer neutron scattering measurements; time-of-flight neutron scattering measurements; X-ray and synchrotron diffraction; single crystal growth with floating zone method; transport measurements; synthesis and characterization of thin films with Pulsed Laser Deposition method.
- **Programming:** Proficient with Matlab, Python and IDL programming languages. Have extensive experience with FORTRAN, C/C++, and Python programming languages. Proficient using Unix/Linux. Experience using VAX/VMS, DOS/Windows and MacOS operation system.
- **Languages:** Native proficiency with Chinese (Mandarin), full professional proficiency with English, and limited working proficiency with Korean

Publications

Published: **109** (Citations: 3897, H-index: 31, i10-index: 70 by google scholar as of 6/3/2021)

ORCID ID: <https://orcid.org/0000-0002-3851-9153>

1. **Canted antiferromagnetic order and spin dynamics in the honeycomb-lattice compound $Tb_2Ir_3Ga_9$** Feng Ye, Zachary Morgan, Wei Tian, Songxue Chi, Xiaoping Wang, Michael E. Manley, David Parker, Mojammel A. Khan, J. F. Mitchell, and Randy Fishman *Physical Review B*, **103**, 18, 184413 (2021).
2. **Field-induced topological Hall effect and double-fan spin structure with a c-axis component in the metallic kagome antiferromagnetic compound YMn_6Sn_6** Qi Wang, Kelly J. Neubauer, Chunrui Duan, Qiangwei Yin, Satoru Fujitsu, Hideo Hosono, Feng Ye, Rui Zhang, Songxue Chi, Kathryn Krycka, Hechang Lei, and Pengcheng Dai *Phys. Rev. B* **103**, 014416 (2021)
3. **Quantized thermoelectric Hall effect induces giant power factor in a topological semimetal** Fei Han, Nina Andrejevic, Thanh Nguyen, Brian Skinner, Quynh Nguyen, Zhiwei Ding, Ricardo Pablo-Pedro, Shreya

- Parjan, Vladyslav Kozii, Ahmet Alatas, Ercan Alp, Songxue Chi, Jaime Fernandez-Baca, Shengxi Huang, Liang Fu, Mingda Li *Nature Communications*, **11**, 6167 (2020).
4. **Noncollinear magnetic structure and magnetoelectric coupling in buckled honeycomb $\text{Co}_4\text{Nb}_2\text{O}_9$: A single crystal neutron diffraction study** Lei Ding, Minseong Lee, Tao Hong, Zhiling Dun, Ryan Sinclair, Songxue Chi, Harish K. Agrawal, Eun Sang Choi, Bryan C. Chakoumakos, Haidong Zhou and Huibo Cao *Phys. Rev. B* **102**, 174443 (2020)
 5. **Competition of three-dimensional magnetic phases in $\text{Ca}_2\text{Ru}_{1-x}\text{Fe}_x\text{O}_4$: A structural perspective** Songxue Chi, Feng Ye, Gang Cao, Huibo Cao, and Jaime A. Fernandez-Baca *Phys. Rev. B* **102**, 014452 (2020)
 6. **Extended anharmonic collapse of phonon dispersions in SnS** T. Lanigan-Atkins, S. Yang, J. L. Niedziela, D. Bansal, A. F. May, A. A. Poretzky, J. Y. Y. Lin, D. M. Pajerowski, T. Hong, S. Chi, G. Ehlers, and O. Delaire *Nature Communications* **11**, 4430 (2020)
 7. **High-temperature short-range order in Mn_3RhSi** Hiroki Yamauchi, Dita Puspita Sari, Isao Watanabe, Yukio Yasui, Lih-Jeng Chang^e, Keietsu Kondof, Takashi U. Ito, Motoyuki Ishikado, Masato Hagihara, Matthias D. Frontzek, Songxue Chi, Jaime A. Fernandez-Baca, James Lord, Adam Berlie, Chris Goodway, Atsuhiko Kotani, Shigeo Mori, Shin-ichi Shamoto *Commun Mater* **1**, 43 (2020)
 8. **Giant isotope effect on phonon dispersion and thermal conductivity in methylammonium lead iodide** M. E. Manley, K. Hong, P. Yin, S. Chi, Y. Cai, L. L. Daemen, R. P. Hermann, H. Wang, A. May, M. Asta, M. Ahmadi *Science Advances*, **6**, 31, eaaz1842 (2020)
 9. **Topological singularity-induced chiral Kohn anomaly in a Weyl semimetal** Thanh Nguyen, Fei Han, Nina Andrejevic, Ricardo Pablo-Pedro, Anuj Apte, Zhiwei Ding, Kunyan Zhang, Ahmet Alatas, Ercan Alp, Songxue Chi, Jaime Fernandez-Baca, Masaaki Matsuda, David A. Tennant, Yang Zhao, Zhijun Xu, Jeffrey W. Lynn, Shengxi Huang, and Mingda Li *Phys. Rev. Lett.* **124**, 236401 (2020)
 10. **Anisotropic effect of a magnetic field on the neutron spin resonance in FeSe** Tong Chen, Youzhe Chen David W. Tam Bin Gao Yiming Qiu Astrid Schneidewind Igor Radelytskyi, Karel Prokes, Songxue Chi, Masaaki Matsuda, Collin Broholm, and Pengcheng Dai *Phys. Rev. B* **101**, 140504 (R) (2020)
 11. **Magnetic anisotropy in ferromagnetic CrI_3** Lebing Chen, Jae-Ho Chung, Tong Chen, Chunruo Duan, Astrid Schneidewind, Igor Rodelytskyi, David J. Voneshen, Russel A. Ewings, Matthew B. Stone, Alexander I. Kolesnikov, Barry Winn, Songxue Chi, R. A. Mole, D.H.Hu, Bin Gao, and Pengcheng Dai *Phys. Rev. B* **101** 134418 (2020)
 12. **Coexistence of Soft Modes and Dynamic Ti Disorder in Cubic BaTiO_3 Studied by Inelastic Neutron Scattering** Izumi Tomeno, Jaime Fernandez-Baca, Songxue Chi, Kunihiko Oka, and Yorihiro Tsunoda, *Journal of the Physical Society of Japan* **89**, 054601 (2020)
 13. **The f -electron State of the Heavy Fermion Superconductor NpPd_5Al_2 and the Isostructural Family** Naoto Metoki, Adam A. Aczel, Dai Aoki, Songxue Chi, Jaime A. Fernandez-Baca, Jean-Christophe Griveau, Masato Hagihara, Tao Hong, Yoshinori Haga, Kazuhiko Ikeuchi, Y. Inamura, Kazuya Kamazawa, Ryoichi Kajimoto, Hideaki Kitazawa, Takatsugu Masuda, Masaaki Matsuda, Mitsutaka Nakamura, Junya Ohtsuki, Daniel Pajerowski, Hiroyuki S. Suzuki, Etsuji Yamamoto, and Hiroki Yamauchi *JPS Conf. Proc.* **30**, 011123 (2020)
 14. **Anharmonic Eigenvectors and Acoustic Phonon Disappearance in Quantum Paraelectric SrTiO_3** Xing He, Dipanshu Bansal, Barry Winn, Songxue Chi, Lynn Boatner, and Olivier Delaire *Phys. Rev. Lett.* **124**, 145901 (2020)
 15. **Lattice distortion in the spin-orbital entangled state in RVO_3 perovskites** J. -Q. Yan, W. Tian, H. B. Cao, S. Chi, F. Ye, A. Llobet, Q. Chen, J. Ma, Y. Ren, J. -G. Cheng, J. -S. Zhou, M. A. McGuire, R. J. McQueeney *Phys. Rev. B* **100**, 184423 (2019)
 16. **Flat band magnetism and helical magnetic order in Ni-doped SrCo_2As_2** Yu Li, Zhonghao Liu, Zhuang Xu, Yu Song, Yaobo Huang, Dawei Shen, Ni Ma, Ang Li, Songxue Chi, Matthias Frontzek, Huibo Cao, Qingzhen Huang, Weiyi Wang, Yaofeng Xie, Yan Rong, David P. Young, J. F. DiTusa, f and Pengcheng Dai *Phys. Rev. B* **100**, 094446 (2019)

17. **Spin-liquid-like state in pure and Mn-doped TblnO3 with a nearly triangular lattice** M. G. Kim, B. Winn, S. Chi, A. T. Savici, J. A. Rodriguez-Rivera, W. C. Chen, X. Xu, Y. Li, J. W. Kim, S.-W. Cheong, and V. Kiryukhin *Phys. Rev. B* **100**, 024405 (2019)
18. **Low-temperature anharmonicity and the thermal conductivity of cesium iodide** Bin Wei, Chao Yang, Xiaoxia Yu, Xin Rao, Xueyun Wang, Songxue Chi, Xuefeng Sun, Jiawang Hong *Phys. Rev. B* **99**, 184301 (2019)
19. **Anomalous magnetic behavior of Ba2CoO4 with isolated CoO4 tetrahedra** Qiang Zhang, Guixin Cao, Feng Ye, Huibo Cao, Masaaki Matsuda, D. A. Tennant, Songxue Chi, S. E. Nagler, W. A. Shelton, Rongying Jin, E. W. Plummer, Jiandi Zhang *Phys. Rev. B* **99**, 094416 (2019)
20. **Neutron spin resonance as a probe of Fermi surface nesting and superconducting gap symmetry in Ba_{0.67}K_{0.33}(Fe_{1-x}Co_x)₂As₂** Rui Zhang, Weiyi Wang, Thomas A. Maier, Meng Wang, Matthew B. Stone, Songxue Chi, Barry Winn, and Pengcheng Dai *Phys. Rev. B* **98**, 060502 (R) (2018)
21. **Local orthorhombic lattice distortions in the paramagnetic tetragonal phase of superconducting NaFe_{1-x}Ni_xAs** Weiyi Wang, Yu Song, Chongde Cao, Yu Li, L. W. Harriger, Wei Tian, Songxue Chi, Rong Yu, Andriy H. Nevidomskyy, and Pengcheng Dai *Nature Communications* **9**, 3128 (2018)
22. **The f-electron states in PrPd₅Al₂** Naoto Metoki, Hiroki Yamauchi, Hiroyuki S. Suzuki, Hideaki Kitazawa, Masato Hagihara, Takatsugu Masuda, Adam Aczel, Songxue Chi, Tao Hong, Masaaki Matsuda, Daniel Pajerowski, and Jaime A. Fernandez-Baca *Journal of the Physical Society of Japan*, **87**, 094704 (2018)
23. **Coexistence of superconductivity and short-range double-stripe spin correlations in Te-vapor annealed FeTe_{1-x}Se_x with x = 0.2** Zhijun Xu, J. A. Schneeloch, Ming Yi, Yang Zhao, Masaaki Matsuda, D. M. Pajerowski, Songxue Chi, R. J. Birgeneau, Genda Gu, J. M. Tranquada, and Guangyong Xu *Phys. Rev. B* **97**, 214511 (2018)
24. **Glassy phonon heralds a strain glass state in a shape memory alloy** P. J. Stonaha, M. E. Manley, I. Karaman, R. Arroyave, N. Bruno, M. Chisholm, S. Chi, D. Abernathy *Phys. Rev. Lett.* **120**, 245701 (2018)
25. **Dynamic spin-lattice coupling and nematic fluctuations in NaFeAs** Yu Li, Zahra Yamani, Yu Song, Weiyi Wang, Chenglin Zhang, David W. Tam, Tong Chen, Zhuang Xu, Songxue Chi, Ke Xia, Li Zhang, Shifeng Cui, Wenan Guo, Ziming Fang, Yi Liu, and Pengcheng Dai *Phys. Rev. X* **8**, 021056 (2018)
26. **Supersonic propagation of lattice energy by phasons in fresnoite** M. E. Manley, P. J. Stonaha, D. L. Abernathy, Songxue Chi, R. Sahul, R. P. E. Hermann, J. D. Budai *Nature Communications*, **9**, 1823 (2018)
27. **Momentum-resolved observations of the phonon instability driving geometric improper ferroelectricity in yttrium manganite** Dipanshu Bansal, Jennifer L. Niedziela, V. Ovidiu Garlea, Douglas L. Abernathy, Songxue Chi, Yang Ren, Haidong Zhou, and Olivier Delaire *Nature Communications*, **9**, 1, 15 (2018)
28. **Suppression of the antiferromagnetic order when approaching the superconducting state in a phase-separated crystal of K_xFe_{2-y}Se₂** Shichao Li, Yuan Gan, Jinghui Wang, Ruidan Zhong, J. A. Schneeloch, Zhijun Xu, Wei Tian, M. B. Stone, Songxue Chi, M. Matsuda, Y. Sidis, Ph. Bourges, Qiang Li, Genda Gu, J. M. Tranquada, Guangyong Xu, R. J. Birgeneau, and Jinsheng Wen *Phys. Rev. B* **96**, 094503 (2017)
29. **Manganese-induced magnetic symmetry breaking and its correlation with the metal-insulator transition in bilayered Sr₃(Ru_{1-x}Mn_x)₂O₇** Qiang Zhang, Feng Ye, Wei Tian, Huibo Cao, Songxue Chi, Dalgis Mesa, Biao Hu, Zhenyu Diao, David A. Tennant, Rongying Jin, Ward Plummer, Jiandi Zhang *Phys. Rev. B* **95**, 220403(R) (2017)
30. **Competing spin density wave, collinear, and helical magnetism in Fe_{1+x}Te** C. Stock, E. E. Rodriguez, P. Bourges, R. A. Ewings, H. Cao, S. Chi, J. A. Rodriguez-Rivera, and M. A. Green *Phys. Rev. B* **95**, 144407 (2017)
31. **Magnetic Structure and Quadrupolar Order Parameter Driven by Geometrical Frustration Effect in Nd₄** Hiroki Yamauchi, Naoto Metoki, Ryuta Watanuki, Kazuya Suzuki, Hiroshi Fukazawa, Songxue Chi, and Jaime A. Fernandez-Baca, *J. Phys. Soc. Jpn* **86**, 044705 (2017)
32. **Itinerant Antiferromagnetism in RuO₃** Berlijn, P. C. Snijders, O. Delaire, H.-D. Zhou, T. A. Maier, H.-B. Cao, S. Chi, M. Matsuda, Y. Wang, M. R. Koehler, P. R. C. Kent, and H. H. Weitering *Phys. Rev. Lett.* **118**, 077201 (2017)
33. **Phonon-mediated spin-flipping mechanism in the spin ices Dy₂Ti₂O₇ and Ho₂Ti₂O₇** M. Ruminy, S. Chi, S. Calder, and T. Fennell *Phys. Rev. B* **95**, 060414(R) (2017)
34. **Phase diagram and neutron spin resonance of superconducting NaFe_{1-x}Cu_xAs** Guotai Tan, Yu Song, Rui Zhang, Lifang Lin, Zhuang Xu, Long Tian, Songxue Chi, Barry Winn, M. K. Graves-Brook, Shiliang Li, and Pengcheng Dai *Phys. Rev. B* **95**, 054501 (2017)

35. **A Mott insulator continuously connected to iron pnictide superconductors** Song Y., Yamani Z., Cao C., Li Y., Zhang C., Chen J.S., Huang Q.Z., Wu H., Tao J., Zhu Y., Tian W., Chi S.X., Cao H.B., Huang Y.B., Dantz M., Schmitt T., Yu R., Nevidomskyy A.H., Morosan E., Si Q., Dai P.C., *Nature Communications*, **7**, 13879 (2016)
36. **Magnetic precursor of the pressure-induced superconductivity in Fe-ladder compound** Songxue Chi, Yoshiya Uwatoko, Huibo Cao, Yasuyuki Hirata, Kazuki Hashizume, Takuya Aoyama, and Kenya Ohgushi *Phys. Rev. Lett.* **117**, 047003 (2016)
37. **Electron doping evolution of the neutron spin resonance in NaFe_{1-x}Co_xAs** Chenglin Zhang, Weicheng Lv, Guotai Tan, Yu Song, Scott V. Carr, Songxue Chi, M. Matsuda, A. D. Christianson, J. A. Fernandez-Baca, L. W. Harriger, and Pengcheng Dai *Phys. Rev. B* **93**, 174522 (2016)
38. **Experimental elucidation of the origin of the 'double spin resonances' in Ba(Fe_{1-x}Co_x)₂As₂** Meng Wang, M. Yi, H. L. Sun, P. Valdivia, M. G. Kim, Z. J. Xu, T. Berlijn, A. D. Christianson, Songxue Chi, M. Hashimoto, D. H. Lu, X. D. Li, E. Bourret-Courchesne, Pengcheng Dai, D. H. Lee, T. A. Maier, R. J. Birgeneau *Phys. Rev. B* **93**, 205149 (2016)
39. **Transition from Sign-Reversed to Sign-Preserved Cooper-Pairing Symmetry in Sulfur-Doped Iron Selenide Superconductors** Qisi Wang, J. T. Park, Yu Feng, Yao Shen, Yiqing Hao, Bingying Pan, J. W. Lynn, A. Ivanov, Songxue Chi, M. Matsuda, Huibo Cao, R. J. Birgeneau, D. V. Efremov, and Jun Zhao *Phys. Rev. Lett.* **116**, 197004 (2016)
40. **Pressure effects on magnetic ground states in cobalt doped multiferroic Mn_{1-x}Co_xWO₄** Jinchen Wang, Feng Ye, Songxue Chi, Jaime A. Fernandez-Baca, Huibo Cao, Wei Tian, M. Gooch, K.-C. Liang, Yaqi Wang, Bernd Lorenz, and C. W. Chu *Phys. Rev. B* **93**, 155164 (2016)
41. **Pressure dependence of the magnetic ground states in MnP** M. Matsuda, F. Ye, S. E. Dissanayake, J.-G. Cheng, S. Chi, J. Ma, H. D. Zhou, J.-Q. Yan, S. Kasamatsu, O. Sugino, T. Kato, K. Matsubayashi, T. Okada, and Y. Uwatoko *Phys. Rev. B* **93**, 100405(R) (2016)
42. **Structure symmetry determination and magnetic evolution in Sr₂Ir_{1-x}Rh_xO₄** Feng Ye, Xiaoping Wang, Christina Hoffmann, Songxue Chi, Masaaki Matsuda, Bryan C. Chakoumakos, Jaime A. Fernandez-Baca, Jinchen Wang, and G. Cao *Phys. Rev. B* **92**, 201112 (R) (2015)
43. **Spin dynamics near a putative antiferromagnetic quantum critical point and its relation to high-T_c in Cu substituted BaFe₂As₂** M. G. Kim, P. N. Valdivia, M. Wang, G. S. Tucker, D. L. Abernathy, Songxue Chi, A. D. Christianson, A. A. Aczel, T. Hong, T. W. Heitmann, S. Ran, P. C. Canfield, E. D. Bourret-Courchesne, A. Kreyssig, D. H. Lee, A. I. Goldman, R. J. McQueeney, and R. J. Birgeneau *Phys. Rev. B* **92**, 214404 (2015)
44. **Anharmonic phonons from orbitally driven lattice instability in SnSe** Li C. W., Hong J., May A., Bansal D., Hong T., Chi S., Ehlers G., and Delaire O. *Nature Physics* **3492**, (2015).
45. **Vibrational entropy drives magnetic transition in metamagnetic shape memory alloy** P.J. Stonaha, M.E. Manley, N. Bruno, I. Karaman, D.L. Abernathy, S. Chi *Phys. Rev. B* **92** 140406 (2015)
46. **Structure of Water and Ice in Poly-N,N-Dimethylacrylamide Hydrogel** Yurina SEKINE, Tomoko IKEDA-FUKAZAWA, Hiroki YAMAUCHI, Songxue CHI, Jaime A. FREMANDEZ-BACA, and Hiroshi FUKAZAWA *JPS Conf. Proc.* **8**,033009 (2015)
47. **Properties of Ferroelectric Ice** Hiroshi FUKAZAWA, Masashi ARAKAWA, Hiroki YAMAUCHI, Yurina SEKINE, Riki KOBAYASHI, Yoshiya UWATOKO, Songxue CHI, and Jaime A. FERNENDEZ-BACA *JPS Conf. Proc.* **8**,033010 (2015)
48. **The effects of Co₃O₄ on the structure and unusual magnetism of LaCoO₃** A M Durand, T J Hamil, D P Belanger, S Chi, F Ye, J A Fernandez-Baca, Y Abdollahian and C H Booth *J. Phys.: Condens. Matter* **27** 126001 (2015)
49. **Temperature and composition phase diagram in the iron-based ladder compounds Ba_{1-x}Cs_xFe₂Se₃** Takafumi Hawaii, Yusuke Nambu, Kenya Ohgushi, Fei Du, Yasuyuki Hirata, Maxim Avdeev, Yoshiya Uwatoko, Yurina Sekine, Hiroshi Fukazawa, Jie Ma, Songxue Chi, Yutaka Ueda, Hideki Yoshizawa, and Taku J. Sato *Phys. Rev. B* **91**, 184416 (2015)

50. **The unusual magnetism of nanoparticle LaCoO₃** A.M. Durand, D. P. Belanger, T. J. Hamil, F. Ye, S. Chi, J. A. Fernandez-Baca, C. H. Booth, Y. Abdollahian, M. Bhat *J. Phys.: Condens. Matter* **27** 176003 (2015)
51. **Neutron-scattering measurements of the spin excitations in LaFeAsO and Ba(Fe_{0.953}Co_{0.047})₂As₂: Evidence for a sharp enhancement of spin fluctuations by nematic order** Qiang Zhang, Rafael M. Fernandes, Jagat Lamsal, Jiaqiang Yan, Songxue Chi, Daniel K. Pratt, Jeffrey W. Lynn, R. W. McCallum, Paul C. Canfield, Thomas A. Lograsso, Alan Goldman, David Vaknin, and Robert J. McQueeney *Phys. Rev. Lett.* **114**, 057001 (2015)
52. **Neutron Diffraction of Ice in Hydrogels** Yurina Sekine, Tomoko Ikeda-Fukazawa, Mamoru Aizawa, Riki Kobayashi, Songxue Chi, Jaime Fernandez-Baca, Hiroki Yamauchi, Hiroshi Fukazawa *Journal of Physical Chemistry B* **118**, 13453 (2014)
53. **High-pressure single-crystal neutron scattering study of magnetic and Fe vacancy orders in (Tl,Rb)₂Fe₄Se₅ superconductor** Feng Ye, Wei Bao, Songxue Chi, Antonio M. dos Santos, Jamie J. Molaison, Minghu Fang, Hangdong Wang, Qianhui Mao Jincheng Wang, Juanjuan Liu, Jieming Sheng *Chin. Phys. Lett.* **31**, 127401 (2014)
54. **Neutron-scattering evidence for a periodically modulated superconducting phase in the underdoped cuprate La_{1.905}Ba_{0.095}CuO₄** Zhijun Xu, C. Stock, Songxue Chi, A. I. Kolesnikov, Guangyong Xu, Genda Gu, and J. M. Tranquada *Phys. Rev. Lett.* **113**, 177002 (2014)
55. **Magnetoelectric coupling tuned by competing anisotropies in Mn_{1-x}Ni_xTiO₃** Songxue Chi, Feng Ye, H. D. Zhou, E. S. Choi, J. Hwang, Huibo Cao, Jaime A. Fernandez-Baca *Phys. Rev. B* **90** 144429 (2014)
56. **Two spatially separated phases in semiconducting Rb_{0.8}Fe_{1.5}S₂** Meng Wang, Wei Tian, P. Valdivia, Songxue Chi, E. Bourret-Courchesne, Pengcheng Dai, and R. J. Birgeneau, *Phys. Rev. B* **90** 125148 (2014)
57. **Spin-Chirality-Driven Ferroelectricity on a Perfect Triangular Lattice Antiferromagnet** H. Mitamura, R. Watanuki, K. Kaneko, N. Onozaki, Y. Amou, S. Kittaka, R. Kobayashi, Y. Shimura, I. Yamamoto, K. Suzuki, S. Chi, and T. Sakakibara *Phys. Rev. Lett.* **113**, 147002 (2014)
58. **Influence of Electron Doping on Magnetic Order in CeRu₂Al₁₀** Riki Kobayashi, Koji Kaneko, Kotaro Saito, Jean-Michel Mignot, Gilles André, Julien Robert, Shuichi Wakimoto, Masaaki Matsuda, Songxue Chi, Yoshinori Haga, Tatsuma D. Matsuda, Takashi Nishioka, Masahiro Matsumura, Hiroshi Tanida, and Masafumi Sera, *Journal of the Physical Society of Japan* **83** (2014)
59. **Development of a Compact *in situ* Polarized ³He Neutron Spin Filter at Oak Ridge National Laboratory** C.Y. Jiang, X. Tong, D. R. Brown, S. Chi, A. D. Christianson, B. J. Kadron, J. L. Robertson, B. Winn *Review of Scientific Instruments* **85**, 075112 (2014)
60. **Magnetic excitations and anomalous spin wave broadening in multiferroic FeV₂O₄** Qiang Zhang, Mehmet Ramazanoglu, Songxue Chi, Yong Liu, Thomas A. Lograsso, David Vaknin *Phys. Rev. B* **89**, 224416 (2014)
61. **Magnetic and Structural Phase Transitions in the Spinel Compound Fe_{1+x}Cr_{2-x}O₄** J. Ma, V. O. Garlea, A. Rondinone, A. A. Aczel, S. Calder, C. dela Cruz, R. Sinclair, W. Tian, Songxue Chi, A. Kiswandhi, J. S. Brooks, H. D. Zhou, and M. Matsuda *Phys. Rev. B* **89**, 134106 (2014)
62. **Direct observation of dynamic charge stripes in La_{1.67}Sr_{0.33}NiO₄** S. Anisimova, D. Parshall, G. D. Gu, K. Marty, M. D. Lumsden, Songxue Chi, J. Fernandez-Baca, D. L. Abernathy, D. Lamago, J. M. Tranquada, and D. Reznik, *Nature Communications* **5**, 3467 (2014)
63. **The role of random electric field in relaxors** Daniel Phelan, Christopher Stock, Jose A. Rodriguez-Rivera, Songxue Chi, Juscelino B Leao, Xifa Long, Yujuan Xie, Alexei A Bokov, Zuo-Guang Ye, P. Ganesh and Peter M Gehring *PNAS* 1314780111 (2014)
64. **Intertwining of frustration with magneto-elastic coupling in the multiferroic LuMnO₃** Shin-ichiro Yano, Despina Louca, Songxue Chi, Masaaki Matsuda, Yiming Qiu, John R. D. Copley, Sang-Wook Cheong *Journal of the Physical Society of Japan* **83**, 024601 (2014)

65. **In-plane spin excitation anisotropy in the paramagnetic phase of NaFeAs** Yu Song, Louis-Pierre Regnault, Chenglin Zhang, Guotai Tan, Scott V. Carr, Songxue Chi, A. D. Christianson, Tao Xiang, Pengcheng Dai *Phys. Rev. B* **88**, 1134512 (2013)
66. **Polar and Magnetic Layered A-Site and Rock Salt B-Site Ordered NaLnFeWO₆ (Ln= La, Nd) Perovskites** Retuerto, Maria; Li, Man-Rong; Ignatov, Alexander; Croft, Mark; Ramanujachary, Kandalam; Chi, Songxue; Hodges, Jason; Dachraoui, Walid; Hadermann, Joke; Tran, Thanh; Halasyamani, P. Shiv; Grams, Christoph; Hemberger, Joachim; Greenblatt, Martha *Inorganic Chemistry* **52**, 12482 (2013)
67. **Magnetic phase transition in the low-dimensional compound BaMn₂Si₂O₇** J. Ma, C. D. Dela Cruz, T. Hong, W. Tian, A. A. Aczel, Songxue Chi, J.-Q. Yan, H. D. Zhou, and M. Matsuda *Phys. Rev. B* **88** 144405 (2013)
68. **Magnetic and structural phase transitions in LaCoO₃.** A.M. Durand, D.P. Belanger, C.H. Booth, F. Ye, S. Chi, J.A. Fernandez-Baca, M. Bhat *J. Phys.: Condens. Matter* **25** 382203 (2013)
69. **Uniaxial pressure effect on structural and magnetic phase transitions in NaFeAs and its comparison with as-grown and annealed BaFe₂As₂** Yu Song, Scott V. Carr, Xingye Lu, Chenglin Zhang, Zachary C. Sims, N. F. Luttrell, Songxue Chi, Yang Zhao, Jeffrey W. Lynn, Pengcheng Dai *Phys. Rev. B* **87**, 184511 (2013)
70. **The magnetic and crystal structures of Sr₂IrO₄: A neutron diffraction study** Feng Ye, Songxue Chi, Bryan C. Chakoumakos, Jaime A. Fernandez-Baca, Tongfei Qi, G. Cao *Phys. Rev. B* **87**, 140406 (R) (2013)
71. **Powder Neutron Diffraction Study of HoCoGa₅** Riki Kobayashi, Koji Kaneko, Songxue Chi, Naoyuki Sanada, Ryuta Watanuki and Kazuya Suzuki *J. Korean Phys. Soc.* **63**, 337 (2013)
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76. **Structure and magnetic properties of the pyrochlore iridate Y₂Ir₂O₇** M. C. Shapiro, S. C. Riggs, M. B. Stone, C. R. Dela Cruz, S. Chi, A. Podlesnyak, and I. R. Fisher *Phys. Rev. B* **85**, 214434 (2012)
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84. **Neutron scattering studies of spin excitations in hole-doped $\text{Ba}_{0.67}\text{K}_{0.33}\text{Fe}_2\text{As}_2$ superconductor** Chenglin Zhang, Meng Wang, Miaoyin Wang, Jun Zhao, Karol Marty, M. D. Lumsden, Songxue Chi, Sung Chang, J. W. Lynn, Huiqian Luo, Tao Xiang, Jiangping Hu, Pengcheng Dai *Scientific Reports* **1**, 115 (2011)
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86. **Coupling of field-induced spin fluctuations and sliding spin density wave in intermetallic CeAg_2Ge_2** D.K. Singh,, A. Thamizhavel, S. Chang, J.W. Lynn, D. Joshi, S.K. Dhar, and Songxue Chi *Phys. Rev. B* **84**, 052401 (2011)
87. **Local-moment magnetism in superconducting $\text{FeTe}_{0.35}\text{Se}_{0.65}$ as seen via inelastic neutron scattering** Zhijun Xu, Jinsheng Wen, Guangyong Xu, Songxue Chi, Wei Ku, Genda Gu, and J. M. Tranquada *Phys. Rev. B* **84**, 052506 (2011)
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97. **Electron-doping evolution of the low-energy spin excitations in the iron arsenide $\text{BaFe}_{2-x}\text{Ni}_x\text{As}_2$ superconductors** Miaoyin Wang, Huiqian Luo, Jun Zhao, Chenglin Zhang, Meng Wang, Karol Marty, Songxue Chi, Jeffrey W. Lynn, Astrid Schneidewind, Shiliang Li, Pengcheng Dai *Phys. Rev. B* **81**, 174524 (2010)
98. **Effect of magnetic field on the spin resonance in $\text{FeTe}_{0.5}\text{Se}_{0.5}$ as seen via inelastic neutron scattering** Jinsheng Wen, Guangyong Xu, Zhijun Xu, Zhi Wei Lin, Qiang Li, Ying Chen, Songxue Chi, Genda Gu, J. M. Tranquada *Phys. Rev. B* **81**, 100513(R) (2010)
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102. **Crystalline electric field as a probe for long range antiferromagnetic order and superconductivity in $\text{CeFeAsO}_{1-x}\text{F}_x$,** Songxue Chi, D. T. Adroja, T. Guidi, R. Bewley, Shiliang Li, Jun Zhao, J. W. Lynn, C. M. Brown, Y. Qiu, G. F. Chen, J. L. Lou, N. L. Wang, and Pengcheng Dai, *Phys. Rev. Lett.* **101**, 217002 (2008).
103. **Impact of oxygen annealing on the heat capacity and magnetic resonance of superconducting $\text{Pr}_{0.88}\text{LaCe}_{0.12}\text{CuO}_4$** Shiliang Li, Songxue Chi, Jun Zhao, H.-H. Wen, M. B. Stone, J. W. Lynn, and Pengcheng Dai *Phys. Rev. B* **78**, 014520 (2008).
104. **Inelastic neutron scattering study of crystal field levels in $\text{PrOs}_4\text{As}_{12}$** Songxue Chi, Pengcheng Dai, T. Barnes, H. J. Kang, J. W. Lynn, R. Bewley, F. Ye, M. B. Maple, Z. Henkie, and A. Pietraszko *Phys. Rev. B* **77**, 094428 (2008)
105. **Effect of antiferromagnetic spin correlations on lattice distortion and charge ordering in $\text{Pr}_{0.5}\text{Ca}_{1.5}\text{MnO}_4$** Songxue Chi, F. Ye, Pengcheng Dai, J. A. Fernandez-Baca, Q. Huang, J. W. Lynn, E. W. Plummer, R. Mathieu, Y. Kaneko, and Y. Tokura *Proc. Natl. Acad. Sci. USA (PNAS)* **104**, 11796-11801 (2007).
106. **Field-dependent ordered phases and Kondo phenomena in the filled skutterudite compound $\text{PrOs}_4\text{As}_{12}$** M. B. Maple, N. P. Butch, N. A. Frederick, P.-C. Ho, J. R. Jeffries, T. A. Sayles, T. Yanagisawa, W. M. Yuhasz, Songxue Chi, H. J. Kang, J. W. Lynn, Pengcheng Dai, S. K. McCall, M. W. McElfresh, M. J. Fluss, Z. Henkie, and A. Pietraszko *Proc. Natl. Acad. Sci. USA (PNAS)* **103**, 6783-6789 (2006)
107. **Resonance in the electron doped high transition temperature superconductor $\text{Pr}_{0.88}\text{LaCe}_{0.12}\text{CuO}_4$** Stephen D. Wilson, Pengcheng Dai, Shiliang Li, Songxue Chi, H. J. Kang and J. W. Lynn *Nature* **442**, 59-62 (2006)
108. **Conduction Behavior of $\text{SrBi}_2\text{Ta}_2\text{O}_9$ Thin Film Grown by Pulsed Laser Deposition** Jin Soo Kim, Ill Won Kim, Chang Won Ahn, Tae Kwon Song, Sang Su Kim, Song Xue Chi, Jong Seong Bae and Jung Hyun Jeong, *Japanese Journal of Applied Physics*, **41**, 6785-6789 (2002)
109. **Ferroelectric Properties of $\text{La}_{0.75}\text{Bi}_{3.25}\text{Ti}_3\text{O}_{12}$ Ceramic and Thin Films Prepared by Pulsed Laser Deposition** Ill Won Kim, Sung Hoon Kim, Sung Lae Cho, Jong Seong Bae, Song Xue Chi, Jung Hyun Jeong and Jae Shin Lee, *Ferroelectrics*, **260**, 119-124 (2001)

Talks and presentations

Invited talks:

1. Effect of antiferromagnetic spin correlations on lattice distortion and charge ordering in $\text{Pr}_{0.5}\text{Ca}_{1.5}\text{MnO}_4$

Invited seminar at the Dept. of Phys. of University of Tennessee (Oct. 2007)

2. Evolution of CE-phase in layered manganites

Seminar at NIST Center for Neutron Research (Aug. 2008)

3. Spin fluctuations in iron-based superconductors

Seminar at NIST Center for Neutron Research (June 2009)

4. Crystalline Electric Field (CEF) as a probe for AFM order and SC state of $\text{CeFeAsO}_{1-x}\text{F}_x$

Seminar at ORNL (June 2010)

5. Magnetic phase transitions of Ni-doped MnTiO₃

Seminar at ORNL (Dec. 2011)

6. Magnetic structure and spin dynamics of the intercalated iron selenide superconductors

Seminar at ORNL (Oct. 2013)

7. HB3 Backend Upgrade Plan

Seminar at ORNL (Oct. 2015)

8. HB3 Neutron Velocity Selector Project

Scientific Productivity Steering Committee Meeting (Sept. 2016)

9. Status of Triple-axis Spectrometers at HFIR

Quantum Materials Young Investigator Workshop (June 2018)

Conference Presentations

1. Current-Voltage Characteristic of Pulsed Laser Ablated SrBi₂Ta₂O₃ Thin Films

2001 Physical Society-Spring Meeting. (South Korea)

2. Structural and magnetic properties of single layered manganite Pr_{0.5}Ca_{1.5}MnO₄

2006 American Physical Society March Meeting

3. Magnetic structure and crystal field potential of PrOs₄As₁₂

2007 American Physical Society March Meeting

4. Phase separation in Pr_{0.55}Ca_{1.45}MnO₄ evidenced by magnetic excitations

2008 American Physical Society March Meeting

5. The crystal electric field as a probe for long range magnetic ordering and superconductivity in CeFeAsO_{1-x}F_x

2009 American Physical Society March Meeting

6. Evolution of the bulk properties, structure, magnetic order and superconductivity with Ni doping in CaFe_{2-x}Ni_xAs₂

2010 American Physical Society March Meeting

7. Neutron study of spin fluctuations in iron chalcogenide

2011 American Physical Society March Meeting

8. Elastic neutron scattering study of BaMn_{0.97}Li_{0.03}O₃ single crystal

2011 American Crystallographic Association Meeting

9. Magnetic phase transitions in single crystalline Mn_{1-x}Ni_xTiO₃

2012 American Physical Society March Meeting

10. Effective J₁-J₂ model for the spin wave in the superconducting (Tl,Rb)₂Fe₄Se₅

2013 American Physical Society March Meeting

11. Magnetic order and negative thermal expansion in Ca₂Ru_{1-x}Fe_xO₄

2014 American Physical Society March Meeting

12. Neutron scattering studies on semiconducting Rb_{0.8}Fe_{1.5}S

2015 American Physical Society March Meeting

13. The pressure effects on the antiferromagnetic orders in iron-based ladder compounds BaFe₂S₃

2016 American Physical Society March Meeting

14. Magnetic precursor of the pressure-induced superconductivity in Fe-ladder compound

2017 American Physical Society March Meeting

15. The magnetic field effect on the two competing magnetic phases in Ca₂Ru_{0.92}Fe_{0.08}O₄

2018 American Physical Society March Meeting

16. Competition of three-dimensional magnetic phases in Ca₂Ru_{1-x}Fe_xO₄: A structural perspective

2021 American Physical Society March Meeting

Services

Chairing Sessions at Conferences

1. Session K6: Ruthenates

2016 American Physical Society March Meeting

2. Session A43: Spin Orbit Physics in Oxides I

2017 American Physical Society March Meeting

3. Session X11: Fe-based superconductivity - Neutron scattering and magnetism

2018 American Physical Society March Meeting

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