

Wei BAO

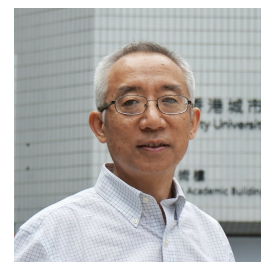
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Biography

BAO Wei obtained his B.S. in Astrophysics from Peking University in 1983, his M.S. from Institute of Theoretical Physics - Chinese Academy of Sciences in 1986, and his Ph.D. in Physics from The Johns Hopkins University in 1995. He worked as a consultant in AT&T Bell Laboratories - Murray Hill in 1994 and performed his postdoctoral research in Brookhaven National Laboratory from 1995 to 1998 before joining the Technical Staff of Los Alamos National Laboratory. He was a Distinguished University Professor at Renmin University of China in Beijing from 2009 to 2019.

Prof. BAO was nominated a Fellow of American Physical Society in 2012 by Division of Condensed Matter Physics "for neutron scattering studies of the magnetic structure and spin dynamics of highly correlated electron systems".

Research outputs

Antiferromagnetic structure and magnetic properties of Dy_2O_2Te : An isostructural analog of the rare-earth superconductors R_2O_2Bi

Liu, J., Huang, J., Sheng, J., Wang, J., Pan, F., Zhang, H., Xu, D., & 8 others Qin, J., Hao, L., Xia, Y., Li, H., Tong, X., Wu, L., Cheng, P. & Bao, W., Apr 2022, In: Physical Review B. 105, 13, 134419.

Extreme Suppression of Antiferromagnetic Order and Critical Scaling in a Two-Dimensional Random Quantum Magnet

Hong, W., Liu, L., Liu, C., Ma, X., Koda, A., Li, X., Song, J., & 12 others Yang, W., Yang, J., Cheng, P., Zhang, H., Bao, W., Ma, X., Chen, D., Sun, K., Guo, W., Luo, H., Sandvik, A. W. & Li, S., 22 Jan 2021, In: Physical Review Letters. 126, 3, 037201. Scopus citations: 10

Evolution of superconductivity and antiferromagnetic order in $Ba(Fe_{0.92-x}Co_{0.08x})_2As_2$

Sheng, J., Li, X., Tian, C., Song, J., Li, X., Sun, G., Xia, T., & 9 others Wang, J., Liu, J., Xu, D., Zhang, H., Tong, X., Luo, W., Wu, L., Bao, W. & Cheng, P., May 2020, In: Physical Review B. 101, 17, 174516. Scopus citations: 3

Frustrated Magnetism in Mott Insulating $(V_{1-x}Cr_x)_2O_3$

Leiner, J. C., Jeschke, H. O., Valentí, R., Zhang, S., Savici, A. T., Lin, J. Y., Stone, M. B., & 5 others Lumsden, M. D., Hong, J., Delaire, O., Bao, W. & Broholm, C. L., Jan 2019, In: Physical Review X. 9, 1, 011035. Scopus citations: 16

A Triplet Resonance in Superconducting $Fe_{1.03}Se_{0.4}Te_{0.6}$

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Liu (刘娟娟), J., Sheng (盛洁明), J., Luo (罗伟), W., Wang (汪晋辰), J., Bao (鲍威), W., Yang (杨金虎), J., Fang (方明虎), M., & 1 others Danilkin, S. A., Nov 2018, In: Chinese Physics B. 27, 11, 117401. Scopus citations: 1

Neutron diffraction study on magnetic structures and transitions in $Sr_2Cr_3As_2O_{10}$

Liu, J., Wang, J., Sheng, J., Ye, F., Taddei, K. M., Fernandez-Baca, J. A., Luo, W., & 5 others Sun, G., Wang, Z., Jiang, H., Cao, G. & Bao, W., 10 Oct 2018, In: Physical Review B. 98, 13, 134416. Scopus citations: 8

Effects of vanadium doping on $BaFe_2As_2$

Li, X., Sheng, J., Tian, C., Wang, Y., Xia, T., Wang, L., Ye, F., & 6 others Tian, W., Wang, J., Liu, J., Zhang, H., Bao, W. & Cheng, P., Jun 2018, In: EPL. 122, 6, 67006. Scopus citations: 4

The influence of the structural transition on magnetic fluctuations in $NaFeAs$

Liu, J., Wang, J., Luo, W., Sheng, J., Wang, A., Chen, X., Danilkin, S. A., & 1 others Bao, W., 13 Jul 2016, In: Journal of Physics Condensed Matter. 28, 27, 27LT01. Scopus citations: 3

Design of the cold neutron triple-axis spectrometer at the China Advanced Research Reactor

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Simultaneous occurrence of multiferroism and short-range magnetic order in DyFeO_3

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A Single-Crystal Neutron Diffraction Study on Magnetic Structure of the Quasi-One-Dimensional Antiferromagnet $\text{SrCo}_2\text{V}_2\text{O}_8$

Liu (刘娟娟), J., Wang (汪晋辰), J., Luo (罗伟), W., Sheng (盛洁明), J., He (何长振), Z., Danilkin, S. A. & Bao (鲍威), W., Mar 2016, In: Chinese Physics Letters. 33, 3, 037502. Scopus citations: 4

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Coexistence of superconductivity and antiferromagnetism in $(\text{Li}_{0.8}\text{Fe}_{0.2})\text{OHFeSe}$

Lu, X. F., Wang, N. Z., Wu, H., Wu, Y. P., Zhao, D., Zeng, X. Z., Luo, X. G., & 6 others Wu, T., Bao, W., Zhang, G. H., Huang, F. Q., Huang, Q. Z. & Chen, X. H., Mar 2015, In: Nature Materials. 14, 3, p. 325-329 Scopus citations: 291

Structure, magnetic order and excitations in the 245 family of Fe-based superconductors

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Inelastic neutron scattering studies on the crystal field excitations in superconducting $\text{NdFeAsO}_{0.85}\text{F}_{0.15}$

Cheng, P., Bao, W., Danilkin, S., Zhao, T., Sheng, J., Liu, J., Luo, W., & 1 others Wang, J., 2015, In: Advances in Condensed Matter Physics. 2015, 605160.

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YE, F., BAO, W., CHI, S., Santos, A. M. d., Molaison, J. J., FANG, M., WANG, H., & 4 others MAO, Q., WANG, J., LIU, J. & SHENG, J., Dec 2014, In: Chinese Physics Letters. 31, 12, 127401. Scopus citations: 11

Modified magnetism within the coherence volume of superconducting $\text{Fe}_{1+\delta}\text{Se}_x\text{Te}_{1-x}$

Leiner, J., Thampy, V., Christianson, A. D., Abernathy, D. L., Stone, M. B., Lumsden, M. D., Sefat, A. S., & 5 others Sales, B. C., Hu, J., Mao, Z., Bao, W. & Broholm, C., 2 Sep 2014, In: Physical Review B - Condensed Matter and Materials Physics. 90, 10, 100501. Scopus citations: 6

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^{77}Se NMR study of the pairing symmetry and the spin dynamics in $\text{K}_x\text{Fe}_{2-x}\text{Se}_2$

Yu, W., Ma, L., He, J. B., Wang, D. M., Xia, T., Chen, G. F. & Bao, W., 13 May 2011, In: Physical Review Letters. 106, 19, 197001. Scopus citations: 64

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Study on the crystal structure of the rare earth oxyborate $\text{Yb}_{26}\text{B}_{12}\text{O}_{57}$ from powder X-ray and neutron diffraction

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Neutron scattering investigation of the magnetic order in single crystalline BaFe_2As_2

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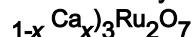
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Magnetism and unconventional superconductivity in $\text{Ce}_n\text{M}_m\text{In}_{3n+2m}$ heavy-fermion crystals

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