

Associate Professor Dr Zhang yanyang

State Key Laboratory of Semiconductor Superlattices , Institute of Semiconductors, Chinese Academy of Sciences, China

Address: No.55, Qinghua East Road, Haidian District, Beijing, China Institute of Semiconductors, Chinese Academy of Sciences, Zip code: 100083

Tel: + 86-10-82305274

Email: yanyang@semi.ac.cn

Education background

Ph.D Degree: State Key Laboratory of Solid State Microstructures, Department of Physics, Nanjing University, 2003.9-2006.7

M.Sc. Degree: Department of Physics, Yunnan University, and Joint Laboratory of Nonlinear Complex Systems, 2000.9-2003.7

B. Sc. Degree: Department of Physics, Yunnan University, undergraduate | 1995.9-2000.7

Work experience

State Key Laboratory of Semiconductor Superlattices, Institute of Semiconductors, Chinese Academy of Sciences, Associate Researcher | 2011.9-present

University of Hong Kong Department of Physics, Visiting Scholar | 2012.12-2013.2

Department of Physics, University of Hong Kong, Postdoctoral | 2009.8-2011.8

Purdue University, USA Department of Physics, Postdoctor | 2008.4-2009.8

Chinese Academy of Sciences Institute of Physics, Postdoctoral | 2006.7-2008.6

Department of Physics, Hong Kong University of Science and Technology, Visiting Scholar | 2007.10-2007.12

Research Field: Theory and Computation of Condensed States

Publications

Spin-filtered and spatially distinguishable crossed Andreev reflection in a silicene-superconductor junction

Kangkang Li and Yan-Yang Zhang*. Physical Review B: 2016 ,94 ,165441

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Electron delocalization in gate-tunable gapless silicene

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Localization and mobility gap in the topological Anderson insulator

Yan-Yang Zhang, Rui-Lin Chu, Fu-Chun Zhang, and Shun-Qing Shen. Physical Review B: 2012 ,85 ,035107

Spin-polarized current induced by a local exchange field in a silicene nanoribbon

Xing-Tao An Yan-Yang Zhang, Jian-Jun Liu and Shu-Shen Li. New Journal of Physics: 2012 ,14 ,083039

Topological insulator-graphene junction for spin transport

H. Li, H. B. Zhang, J. M. Shao, Y. Y. Zhang, D. X. Yao and G. W. Yang. Applied Physics Letters: 2012 ,101 ,243102

Three-dimensional topological insulator in a magnetic field: chiral side surface states and quantized Hall conductance

Yan-Yang Zhang, Xiang-Rong Wang and X C Xie. Journal of Physics: Condens. Matter: 2012 ,24 ,015004

Band structures and transport properties of zigzag graphene nanoribbons with antidot arrays

Ying-Tao Zhang, Qing-Ming Li, You-Cheng Li, Yan-Yang Zhang and Feng Zhai³. Journal of Physics: Condensed Matter: 2010 ,22 ,315304

Impurity-induced bound states in iron-based superconductors with s-wave $\cos k_x \cdot \cos k_y$ pairing symmetry

Wei-Feng Tsai, Yan-Yang Zhang, Chen Fang, and Jiangping Hu. Physical Review B: 2009 ,80 ,064513

Quasiparticle scattering interference in superconducting iron pnictides

Yan-Yang Zhang, Chen Fang, Xiaoting Zhou, Kangjun Seo, Wei-Feng Tsai, B. Andrei Bernevig, and Jiangping Hu. Physical Review B: 2009 ,80 ,094528

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Yanyang Zhang, Jiang-Ping Hu, B. A. Bernevig, X. R. Wang, X. C. Xie, and W. M. Liu¹. Physical Review B: 2008 ,78 ,155413

Statistics of Lyapunov exponents of quasi-one-dimensional disordered systems

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U-shape and V-shape gaps near interface of quasi-two-dimensional superconductor and normal metal

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