

“凝聚态物理-北京大学论坛”

2007-29

时间： 2007年12月27日(星期四)下午 15:00 - 16:40

地点： 北京大学物理大楼中 212 教室

报告题目： **Berry phase effects on electric properties**

报告摘要： Geometric phase has found wide applications in physics, and has emerged as a unifying concept in describing and predicting electronic properties in solids. In this talk, I will review recent advances on Berry phase effects in insulators, metals, and semiconductors, with topics covering dielectric, magnetic, and transport properties. I will also discuss non-abelian generalization of the geometric phase concept and applications in spin transport.

报告人： **Professor Qian Niu (牛谦)**
Department of Physics, UT at Austin, USA

Education : Ph. D. Physics, University of Washington (1985) ; M. S. Physics, University of Washington (1983) ;B. S. Physics, Peking University (1981).

Professional Employment :Trull Centennial Professor, University of Texas (2001-) ; Assistant and Associate Professor, University of Texas (1990-2001) ; Visiting Scientist, UC Santa Barbara (1988-1990) ; Research Associate, University of Illinois (1985--1987).

报告人简介： Honors and Services : Fellow of the American Physical Society (1999-). Citation: ‘for contributions to the theories of quantum transport’ ; Wang Kuan Cheng Research Award (1997); Outstanding Overseas Young Scientist (1999, Natural Science Foundation of China); Director of the International Center of Quantum Structures, Beijing (2007-2008).
Publication Record: 152 publications in refereed journals (4000+ citations), including 54 in Physical Review Letters, two in Science, one each in Nature, Physics Today, and Physics World. One US patent and a book (Geometric Phase in Quantum Systems); 156 invited talks at professional meetings and research institutions.

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