A.V.Balatsky CV

Born: Pushkin, Leningrad Reg, USSR, Married, two children
Address: Nordita, Roslagstullsbacken 23, SE - 106 91 Stockholm, Sweden
Telephone: +46 8 5537 8707, FAX: +46 8 5537 8601
e-mail: balatsky@hotmail.com, balatsky@kth.se

Address: Los Alamos National Laboratory, Los Alamos, NM 87501
Email: avb@lanl.gov

Research Interests: DNA spectroscopy, Graphene, Superconductivity, superfluidity, quantum Hall effect, multiferroics, spintronics, noise spectroscopy.

Education and Training:

Undergraduate: Moscow Physical Technical Institute (1982)
Graduate: M.S., Physics, Moscow Physical Technical Institute (1984)
Ph.D. "Intrinsic Orbital Momentum in Superfluid He3," Landau Institute (1987)
Postdoctoral: Physics, UIUC, LANL (1989-1993)

Research and Professional Experience:

Director, Institute for Materials Science, Los Alamos 2014-present

Professor, Theoretical Physics, KTH, NORDITA, Stockholm 2011-present

Theory Thrust Partner, Center for Integrated Nanotechnologies, LANL 2005-2012

Research Professor of Physics, Boston College, Boston, MA 2011-present

Chief Scientist, Center for Integrated Nanotechnologies (CINT), joint LANL-Sandia BES funded nanocenter, LANL 2004- 2005

Team Leader, Strongly Correlated Electron Systems, T-11, LANL 2004- 2012

Fellowship of Japanese Society for Promotion of Science, ERATO project, Y. Tokura and N. Nagaosa(Tokyo University) 2003- 2003

Staff member, LANL, Los Alamos, NM 1994 – 2004

J.R. Oppenheimer Fellow with K. Bedell, LANL 1991– 1994

Physics Department, University of Illinois at Urbana-Champaign, Urbana, IL, Postdoctoral Associate Visiting Research Assistant Professor with D. Pines. 1989– 1991

Landau Institute for Theoretical Physics, Moscow, USSR. 1985– 1989

Scientific Honors:

AAAS Fellow, Nov 2011;

Ehrenfest Colloq, Leiden University, Feb2007.

Los Alamos Fellow, Oct 2005;

American Physical Society Fellow, November 2003;

Senior Fellowship of Japanese Society for Promotion of Science, March-April 2003;

Cyril Smith Scholar, Center for Materials Studies, LANL, 2000;

Los Alamos National Laboratory Achievement Award, September 1997; 2000;

J. Robert Oppenheimer fellowship at the Los Alamos National Laboratory 1991-1994;

Board Memberships
Member of advisory boards and scientific advisory committees both for conferences and Panel reviews. Member of Review Committee of Canadian Institute for Fundamental Research (CIFAR), April 2007. Chair, Panel on Mechanisms of Unconventional Superconductors, DOE BES workshop on Superconductivity, May 2006.LANL ER committee member, 2005, 2007.Scientific Secretary, Spectroscopies of Novel Superconductors, 2007- present. Member of the Advisory board for Asia Pacific Center for Theoretical Physics, 2009-2012.

Organizer and co-organizer of numerous conferences and symposia including invited symposia at American Physical Society (Novel DNA sequencing methods, APS 2013, Kondo Effect in graphene, 2010, Impurity Effects in Superconductors, 2002). Program Committee, Stripes, Sicily, Italy, 2008. Organizer: Dirac Materials, june 2014, Nordita workshop, Stockholm; Second Century of Superconductivity, August 2013, Nordita, Stockholm; Modern Computational Methods in Condensed Matter and Nuclear Physics, Sept 2014, Nordita, Stockholm.

Collaborators and Co-editors: (last 48 months)S. Trugman (LANL), D. Arovas (UC San Diego), P. Littlewood (Cambridge University), A. H. MacDonald (UT Austin), J. Sauls (Northwestern), J.C. Davis (Cornell University), E. Abrahams (Rutgers University), S. Das Sarma(U Maryland), Y. Joglekar(IUPUI), H. Manoharan(Stanford), J. Fransson(Uppsala Univ), T.Das(Los Alamos), J.X. Zhu (Los Alamos), A. Black-Schaffer (Uppsala U).

Graduate Students (last 5 years) H. Dahal BC summer student, summer 2006.RudroBiswas, Harvard University, Aug 2008-Sept 2009**;** R. Hembree, Hampden Sydney College, VA, June- Aug 2008**;** Tanwa Apronthip Washington Univ, St Louse, June-Aug 2008; C. Triola, College of W&M, Summer 203, 2014; S. Banerjee, KTH/Nordita, Sept 2014-present.

Postdoctoral Fellows (last 7 years) J.X. Zhu, PD 2001-2004(LANL), D. Morr, PD 2000-2002, UCI Assoc. Prof; Y. Joglekar, PD 2002-2005, IUPU, Asst. Prof., Z. Nussinov, PD 2002-2005, Washington

Univ, St Loius, Assoc, Prof., I. Grigorenko, PD 2006-2008, LANL, PD. J. Fransson, PD 2006-2008, Uppsala University, Associate Professor. H. Dahal- PD summer 2008-2010, APS Editor, J.J. Su- 2008-2010, PD Stanford U., J.Haraldsen 2009-2011, PD at Los Alamos, T. Das, 2009-2011, PD at Los Alamos, H. She- 2011-2013, PD at Cornell, S.Borysov 2012-present KTH PD. F. Mancarella 2012-present, PD KTH. K. Zakharchenko-2013-present PD Nordita. T. Ahmed – 2012-present Los Alamos.

Invited presentations – 150. Selected Invited Presentations: "Inelastic Tunneling Spectroscopy", Aspen Winter Conference 2006; "Role of Impurities in Supersolids", KITP, Feb 2006; "Electron-lattice interactions in highTc superconductors", May 2007, Spectroscopies of Novel Superconductors, June 2007; ; "Bosonic Modes in Superconductors", Invited Talk, APS March meeting 2007, Denver; "Electronic Nanoscale Inhomogeneity and Dirac Materials", Ehrenfest colloquium, Leiden, Feb 2007; "Dirac Materials", Nordita colloquium, Jan 2008;''Inhomogeneity in Correlated Materials", Asia Pacific Center for Theoretical Physics, S. Korea, Jan 2009; "Supersolid He4- a case for quantum glass" , ULT 2008, London, Aug. 2008; "Dirac Materials", KITP, UC Santa Barbara, May 2009; "Charge and Spin stripes in FeAS superconductors", May 2010 SNS, Shanghai; "Dirac Materials", Zhong-Guan-Cun Forum, 187th Lecture, IoP, Beijing, May 2010; "DNA electronics", Kyoto Symposium on Single Molecule Analysis, ISSMA 2011, Japan , Jan 2011; "Dirac Materials" Linneas Colloq Gothenburg, Oct 2012, Aarhus U May 2013, Technical U Dresden, April 2013.

Graduate and Post-doctoral Advisors: M. Feigelman(Landau Inst), thesis advisor G.E. Volovik, Landau Institute for Theoretical Physics, Moscow, Russia. PD advisors: D. Pines, UIUC; K. Bedell, Boston College

Publications: Articles in Refereed Journals (published) > 260, h – 43, citations ~ 8200, Nature-6, Science-6, PNAS - 2, PRL's - 50

Influential papers

Katsura, Nagaosa, Balatsky (2005) - 800 cits
Balatsky, Vekhter Zhu (2006) - 380 cits
Wehling et.al, (2007) - 120 cits
J. Lee, et al, (2006) - 220 cits
Balatsky,Salkola, Rosengren, (1995) 210 cits
Monthoux, Balatsky, Pines (1991) 380 cits

Selected Publications 2006-2013

1. Das, Tanmoy; Balatsky, A. V., Engineering three-dimensional topological insulators in Rashba-type spin-orbit coupled heterostructures NATURE COMMUNICATIONS Volume: 4 , Article 1972 DOI: 10.1038/ncomms2972 Published: JUN 2013
2. Hamidian Mohammad H.; et al.,"How Kondo-holes create intense nanoscale heavy-fermion Hybridization disorder",PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA Volume: 108 Issue: 45Pages: 18233-18237, (2011)
3. Biswas, R. and Balatsky A. "Scattering from surface step edge in strong topological insulators, " PHYSICAL REVIEW B 83, p 075439, (2011)
4. 3. Biswas R.R., Balatsky AV, "Impurity-induced states on the surface of three-dimensional topological insulators", PHYSICAL REVIEW B 81**,** p 233405, **(**2010).
5. 4. Wehling, T.O.; Balatsky, AV; Katsnelson, MI; Lichtenstein, AI; Scharnberg, K; Wiesendanger, R, "Local electronic signatures of impurity states in graphene ", PHYSICAL REVIEW B;; v.75, no.12, p.125425, (2007)
6. Electronic Fingerprints of DNA Bases on Graphene
   Author(s): Ahmed Towfiq; Kilina Svetlana; Das Tanmoy; et al.
   Source: NANO LETTERS Volume: 12 Issue: 2 Pages: 927-931 (2012)

7. A.V. Balatsky I. Vekhter and J. X Zhu, "Impurity Effects in Unconventional Superconductors", Rev. Mod. Phys., v 78, 373, (2006).
8. M.M. Qazilbash, M. Brehm, P.C. Byung-GyuChae, P.C. Ho, G.O. Andreev, Bong-jun Kim, Sun Jin Yun, A.V. Balatsky; M.B. Maple ; F. Keilmann, "Mott transition in VO_2 revealed by infrared spectroscopy and nano-imaging," Science; Dec; vol.318, p.1750-3, (2007).
9. P. Philips and A.V. Balatsky, "Cracking the Supersolid", Science 316, 1435, (2007).
10. H. Katsura, A. V. Balatsky, and N. Nagaosa,"Dynamical Magnetoelectric Coupling in Helical Magnets," Phys. Rev. Lett.**98**, 027203 (2007) .
11. Scanning Tunneling Microscopy of DNA-Wrapped Carbon NanotubesAuthor(s): Yarotski, Dzmitry A.; Kilina, Svetlana V.; Talin, A. Alec; et al.Source: NANO LETTERS Volume: 9 Issue: 1 Pages: 12-17 DOI: 10.1021/nl801455t Published: JAN 2009.
12. Dirac materials, By: Wehling, T. O.; Black-Schaffer, A. M.; Balatsky, A. V. Source: ADVANCES IN PHYSICS Volume: 63 Issue: 1 Pages: 1-76 Published: 2014

Recent Grants:

- 2013-present ERC Dirac Materials, DM 321013, ~ 1.7MEuro.
- 2013-present KAW foundation, Sweden, Functional Dirac Materiasl, 32MSEK.
- 2013-present US DOE BES, Modeling of Novel Materials, 380 K per year
- 2009-2011, Co-PI, UC office of President Project "Carbon Based Materials", 420 K per year.
- 2006-2011, Co PI with YishaiManassen (Ben GurionUniv), Y. Ymry (Weitzman), US-Israel Binational Foundation, Noise Spectroscopy and Single Spin Detection, 30K per year
- 2009-2011, Co-PI, LANL LDRD-ER, Solid Helium-4: A Supersolid or Quantum Glass?310K per year,
- 2005-2008, PI, LANL LDRD –DR, Nanoscale Fluctuations in Multifunctional Materials, 1200K per year.
- 2005-2008, PI, LANL LDRD-ER, Visualization Applied to Electronic Properties of Novel Superconductors, 290K per year

Balatsky research statement

I plan to focus on two main directions for my research, while taking advantage of interdisciplinary nature of the research offered by Department and Materials Institute.

1) **Emergent behavior of correlated materials**.

There has been remarkable three decades of discovery of complex inorganic, organic (and biological), electronic (magnetic, photonic…) materials with unexpected functions and performance. Examples include (superconducting oxides and pnictides, MgB2, GMR, CMR, plastic conductors, nanotubes, graphene, . . . Last decade is also notable for a similarly remarkable explosion of experimental probes of structure and function for multiple spatial and temporal scales, including scanning probe microscopies, focused x-rays, ARPES, pump probe, time resolved crystallography, EXAFS, . . . These data and probes increasingly reveal novel functionalities that exist at several distinct scales. Our understanding of the origins and functional consequences of this multiscale richness is very limited.

I will identify model systems with sufficiently rich energy landscapes for the above emergent features. My immediate focus is on a) Dirac materials, b) mesoscale structures, c) emergent phenomena near quantum critical points.

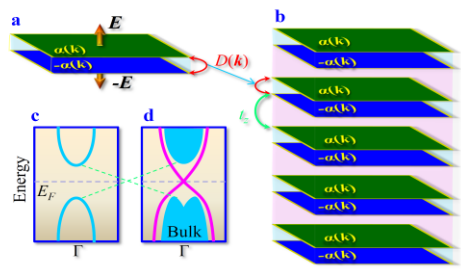

Fig.1. Proposed approach to generate topological insulators by coupling Rashba bilayers, T. Das and A.V. Balatsky, Engineering three dimensional topological insulators in Rashba-type spin-orbit coupled heterostructure. Nature Commun. **4,** 1972 (2013).

a) *Dirac Materials*. A wide range of materials, like d-wave superconductors, graphene, and topological insulators, share a fundamental similarity: their low-energy fermionic excitations behave as massless Dirac particles. This emergent behavior of Dirac fermions in condensed matter systems defines the unifying framework for a class of materials we call Dirac materials. I would like to explore possibilities to generate novel Dirac materials taking advantage of the engineering and synthesis capabilities of modern materials and interfaces that came online in the last 5-10 years. Engineered nansotructures would allow us to create and control novel Dirac states.

Time resolved and pumped probes of Dirac materials. Recent advances in manipulation of light, pumped and time resolved probes of correlated materials and more specifically Dirac Materials open up another venue for engineered states where we create the novel states in the transients as a result of energy pumped into electron subsystem. Another possibility is the novel topological states in the steady nonequlibrium state that emerge as a result of steady temporal periodic perturbations. I am looking at possibility to create steady excited states as a result of perturbation of particles in Dirac nodes. Hope is to generate novel correlated states like ferromagnetism and superconductivity in the nonequilibrium configuration. (T.Wehling et al, Advances in Physics, v 63, p 1(2014), Nature Commun. **4,** 1972 (2013).)

b) *Understanding and Controlling Collective Phenomena in Mesoscale Structures.*

The field of complex materials stands at a crossroads similar to semiconductor S&T decades ago when basic understanding of material properties and fabrication procedures were in place but before the principles required to achieve desired functionality had been established. As a result, new materials discovery has relied on accidental findings driven by advances in synthetic techniques rather than on “rational design” of the material structure. Functionality in materials is controlled by competing interactions and closes multiple energy minima that determine ground states. Recently the new paradigm in understanding and controlling nearly degenerate energy minima has emerged: epitaxial superlattices. In these hybrid 2D or 3D structures two or more materials with a particular set of competing orders are interfaced in order to tease apart the multiple degrees of freedom involved in the collective behavior. The system can be moved from one minimum to another either by coherent excitations or by external control parameters like fields, strain and temperature. The interfaces often exhibit novel properties that cannot be obtained in the individual constituents. This lego-like materials layers offer a new approach to materials design, Fig.1. With the great advancements in observations our understanding of the origin and functional consequences of these multiscale structures is very limited.

The overarching goal of this research direction is to build a predictive theory of the competition between collective states of materials like superconductivity, magnetism and lattice that often

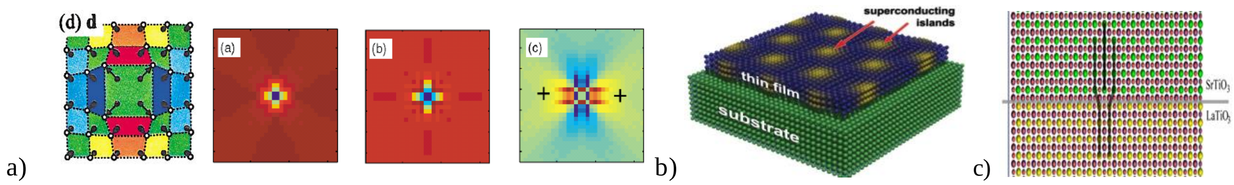

Fig. 2 a) Strain effects on the local superconducting properties. Local nanoscale defect induces strain that leads to modifications of electronic states at mesoscale [J.X. Zhu and A.V. Balatsky et al., Phys. Rev. Lett. 91, 057004 (2003)]. b) Changes in electronic states at interface between the substrate and soft SC film. Strain induces modulation of superconducting gap in the film [Andreas Glatz et al Phys. Rev. B 84, 024508 (2011)]. c) Preliminary calculations on the unrelaxed interfacial misfit dislocation at $SrTiO_3/LaTiO_3$ interfaces by means of connecting $20a_{SrTiO3}/19a_{LaTiO3}$ unit cells to introduce one misfit dislocation at the middle. Large green and yellow atoms are Sr and La respectively, middle blue atoms are Ti, and small red atoms are Oxygen. For the proposed work, we will additionally calculate the strained interface structures as a result of extrinsic defects, with increasing structural complexity, starting with point defects to dislocation lines and then to intersections between two non-parallel dislocations. Shown is the most energetically favorable interface habit plane of the $SrTiO_3/LaTiO_3$interface, in which the lattice mismatch is 0.4% and the intrinsic dislocations are spaced 100 nm apart. [Beyerlein et al, unpublished]

define nano to mesoscale collective orders. We will develop the forefront condensed matter theory to establish fundamental relationship between mesoscale structure and collective behavior of the complex heterostructures including superconductors, magnetic and ferroelectric states and Dirac Materials like topological insulators and graphene.

I will utilize combined first-principles and effective modeling approach with the focus on methods that couple strain and interface electronic and magnetic correlations, Fig.2. The growing list of new states observed at interfaces and lack of theoretical understanding of the emergent states observed at interfaces point to exciting opportunities for theory and modeling with significant potential for new discoveries.

c) *Spatially modulated states near Quantum Critical Points*. Spatial modulation in spin and/or charge degrees of freedom appears to be a ubiquitous emergent property of strongly correlated electron systems (SCES). It manifests itself in a wide variety of states. There is a growing appreciation in the research community that this theme in SCES may be driven by very common underlying principles; however, such a general framework of understanding fundamental origins of spatially modulated states is yet to be formulated. Spatial modulation may result from an external perturbation or from an intrinsic response of the electronically correlated state. The former can be achieved via application of high pressure, strain, magnetic and/or electric fields, as well as doping. At a basic level, the latter (intrinsic) effects are the consequence of a trade-off between potential and kinetic energies in coupled spin, charge and lattice degrees of freedom. Stripe phases in High Temperature Superconducting (HTS) compounds are one realization of such competition. Other examples include Colossal Magneto-Resistance (CMR) compound, or at Metal-Insulator Transition (MIT). At a quantum critical point (QCP), a zero-temperature boundary between two competing ground states, may serve as an example of intrinsic inhomogeneity. Excitations above each of the ground states are different, such as spin waves in magnetically ordered state and phase fluctuations of a superconducting state. As the system is driven to QCP, due to critical slowing down of fluctuations, different parts of the sample will fall into one of the two competing phases. This is our hypothesis of how intrinsic inhomogeneity develops spontaneously near QCP, which needs to be tested experimentally, Fig.3. As an alternative to purely intrinsic inhomogeneity, slightest variation of stoichiometry, strain acquired during sample growth, impurities, and defect can drive the system locally into one or another ground state, producing phase separation on a scale determined by a complex interplay between the spatial distribution of the impurities and defects and the spatial range of competing charge, spin, and lattice interactions.

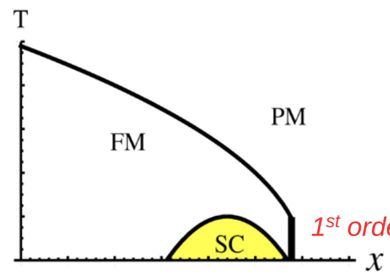

Fig. 3 Example of the QCP turning into first order transition as a result of interaction between two orders. First order transition will make appearance of inhomogeneities a natural consequence. She et al, Phys. Rev B 82, 165128 (2010).

I plan to explore the role and relevance of various scenarios for developing nanoscale inhomogeneity in materials.

a) b)

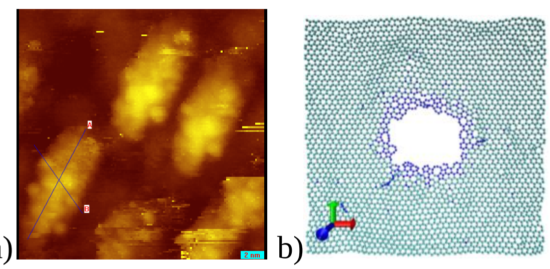

Fig. 4 a)STM image of DNA wrapped on carbon nanotube Bright dots on top of carbon nanotube have dimentions of few nanometers and likely are DNA bases. b) classical MC simulation of graphene nanopore growth, Zakharchenko and AV Balatsky, Carbon, (2014).

2) **Extreme Quantum Limits**. I will focus on the lowest, extreme limit of time and length scale resolution that determines the response of material or system of interest.

a) *Noise spectroscopy*. I will be looking at noise signatures in small particles and small ensembles as a way to understand electron and spin dynamics. My work on the spatially resolved spin noise offers a unique glimpse into dynamics of a single spin that could be used as a platform for quantum computing As a single spin limit is approached we expect new physics be revealed by means of noise instead of conventional dissipative measurements. One interesting quantity is the higher order (4^{th} order) spin correlations that can elucidate the coupling to the bath and nuclear spin. For example one can use the noise to ask questions about nontrivial fluctuations in the cold atom traps. Another example is the influence of hyperfine interactions on electron spin dynamics. My work with Manassen (A.V. Balatsky et al, Advances in Physics, v 61, 117 (2012)) and Crooker on spin noise is a good platform for this research.

b) *Spatially resolved DNA imaging*. This is the effort that I would like to pursue in contact with the biological and/or medical community. At Los Alamos I was a PI on the combined theory-experiment project that led to one of the first, if not the first experimental image of DNA on a single carbon nanotube(Yarotski, Dzmitry A, et al, Nano Lett. v 9, 12, (2009)). My most recent work on the spectroscopy of a single base in DNA offers an opportunity to work at the limit of "single quantum" of biological information. Local scanned probes allow us now to detect particular bases of DNA and possibly sequence DNA without amplification. This work is not meant to come up with the fast sequencing tool but rather to use extreme sensitivity of local electronic probes to detect single bases one at a time. I plan to continue to work on using graphene nanopores for investigation of DNA translocation and sequencing (T. Ahmed et al, Electronic Fingerprints of DNA Bases on Graphene, Nano Lett. v12, 927(2012)), Fig.4.

c) *Graphene Nanopore and Water Desalination*. I plan to investigate the molecular and ionic transport through graphene nanopore. There are qualities that make nanoporous graphene a good candidate for membranes for water desalination and arsenic removal. This is a nascent project that organically builds on our understanding of the graphene pore regrowth and functionalization. I will develop realistic MD and DFT calculations that would allow us to model the transport though graphene nanopore. I am also would be interested in exploring the experimental connections in this field as well. (K. Zakahrchenko, AVB, C A R B ON , 8 0 (2 0 1 4) 1 2 –1 8)

Primary Published or Creative Work

1. Author(s): BALATSKY, AV; VINOKUR, VM, Title: COMMENSURATE INCOMMENSURATE TRANSITION IN ONE-DIMENSIONAL DISORDERED-SYSTEMS. Source: SOLID STATE COMMUNICATIONS Volume: 52 Issue: 10 Pages: 847-850 DOI: 10.1016/0038-1098(84)90254-0 Published: 1984

2. Author(s): BALATSKY, AV; BURLACHKOV, LI; GORKOV, LP, Title: MAGNETIC-PROPERTIES OF ANISOTROPIC SUPERCONDUCTORS OF THE 2ND TYPE, Source: ZHURNAL EKSPERIMENTALNOI I TEORETICHESKOI FIZIKI Volume: 90 Issue: 4 Pages: 1478-1486 Published: APR 1986
Times Cited: 38 (from Web of Science)

3. Author(s): BALATSKY, AV; VOLOVIK, GE; KONYSHEV, VA, Title: THE CHIRAL ANOMALY IN SUPERFLUID HE-3-A, Author(s): BALATSKY, AV; VOLOVIK, GE; KONYSHEV, VA Source: ZHURNAL EKSPERIMENTALNOI I TEORETICHESKOI FIZIKI Volume: 90 Issue: 6 Pages: 2038-2056 Published: JUN 1986, Times Cited: 21 (from Web of Science)

4. Author(s): BALATSKY, AV; KONYSHEV, VA, Title: ANOMALOUS SUPERFLUID CURRENT IN HE-3-A AND THE INDEX THEOREM, Source: ZHURNAL EKSPERIMENTALNOI I TEORETICHESKOI FIZIKI Volume: 92 Issue: 3 Pages: 841-858 Published: MAR 1987
Times Cited: 4 (from Web of Science)

5. Author(s): BALATSKY, AV, Title: MICROSCOPICALLY DERIVED WESS-ZUMINO ACTION FOR HE-3-A, Author(s): BALATSKY, AV Source: PHYSICS LETTERS A Volume: 123 Issue: 1 Pages: 27-30 DOI: 10.1016/0375-9601(87)90755-9 Published: JUL 13 1987 Times Cited: 4 (from Web of Science)

6. Author(s): BALATSKY, AV; MATVEENKO, SI, Title: FERMIONS IN ANTIFERROMAGNETS AND PHASE-TRANSITION Source: PHYSICA C Volume: 161 Issue: 2 Pages: 136-140 DOI: 10.1016/0921-4534(89)90121-4 Published: NOV 1 1989 Times Cited: 2 (from Web of Science)

7. Author(s): BALATSKY, AV, Title: PEIERLS INSTABILITY AND CHIRAL-SYMMETRY BREAKING IN SOLIDS WITH RELATIVISTIC FERMIONS, Source: PHYSICAL REVIEW LETTERS Volume: 64 Issue: 17 Pages: 2078-2081 DOI: 10.1103/PhysRevLett.64.2078 Published: APR 23 1990 Times Cited: 4 (from Web of Science)

8. Author(s): BALATSKY, AV, Title: NATURE OF PAIRING IN ANTIFERROMAGNETIC METALS, Source: PHYSICAL REVIEW B Volume: 41 Issue: 16 Pages: 11612-11614 DOI: 10.1103/PhysRevB.41.11612 Published: JUN 1 1990 Times Cited: 0 (from Web of Science)

9. Author(s): LOSS, D; GOLDBART, P; BALATSKY, AV, Title: BERRYS PHASE AND PERSISTENT CHARGE AND SPIN CURRENTS IN TEXTURED MESOSCOPIC RINGS Source: PHYSICAL REVIEW LETTERS Volume: 65 Issue: 13 Pages: 1655-1658 DOI: 10.1103/PhysRevLett.65.1655 Published: SEP 24 1990 Times Cited: 180 (from Web of Science)

10. Author(s): BALATSKY, AV; MATVEENKO, SI, Title: FERMIONS IN ANTIFERROMAGNETS AND PHASE-TRANSITION, Source: ZHURNAL EKSPERIMENTALNOI I TEORETICHESKOI

FIZIKI Volume: 98 Issue: 4 Pages: 1336-1344 Published: OCT 1990 Times Cited: 0 (from Web of Science)

11. Author(s): BALATSKY, AV, Title: HYDRODYNAMICS OF AN ANTIFERROMAGNET WITH FERMIONS, Source: PHYSICAL REVIEW B Volume: 42 Issue: 13 Pages: 8103-8109, DOI:10.1103/PhysRevB.42.8103 Part: A Published: NOV 1 1990 Times Cited: 6 (from Web of Science)

12. Author(s): BALATSKY, AV, Title: RELATION BETWEEN THE CHIRAL-SPIN-LIQUID STATE AND THE CHIRAL SU(2) WESS-ZUMINO-WITTEN MODEL, Source: PHYSICAL REVIEW B Volume: 43 Issue: 1 Pages: 1257-1259 DOI: 10.1103/PhysRevB.43.1257 Part: B Published: JAN 1 1991, Times Cited: 7 (from Web of Science)

13. Author(s): BALATSKY, A, Title: SPIN RIGIDITY AND LANDAU-GINZBURG THEORY OF CHIRAL-SPIN-LIQUID PHASE, Source: PHYSICAL REVIEW LETTERS Volume: 66 Issue: 6 Pages: 814-817 DOI: 10.1103/PhysRevLett.66.814 Published: FEB 11 1991, Times Cited: 1 (from Web of Science)

14. Author(s): BALATSKY, A; KALMEYER, V, Title: SINGLET-PAIR SUPERCONDUCTIVITY IN THE 2-COMPONENT ANYON GAS, Source: PHYSICAL REVIEW B Volume: 43 Issue: 7 Pages: 6228-6231 DOI: 10.1103/PhysRevB.43.6228 Part: B Published: MAR 1 1991 Times Cited: 11 (from Web of Science)

15. Author(s): BALATSKY, A; CHUBUKOV, A, Title: ON THE EXCITATIONS IN A S = 1 LINEAR-CHAIN HEISENBERG-ANTIFERROMAGNET WITH S = 1/2 IMPURITIES, Source: JOURNAL OF PHYSICS-CONDENSED MATTER Volume: 3 Issue: 10 Pages: 1359-1362 DOI: 10.1088/0953-8984/3/10/013 Published: MAR 11 1991 Times Cited: 0 (from Web of Science)

16. Author(s): BALATSKY, A; STONE, M, Title: VERTEX OPERATORS AND SPINON EDGE EXCITATIONS IN THE SPIN-SINGLET QUANTUM HALL-EFFECT, Source: PHYSICAL REVIEW B Volume: 43 Issue: 10 Pages: 8038-8043 DOI: 10.1103/PhysRevB.43.8038 Part: A Published: APR 1 1991
Times Cited: 16 (from Web of Science)

17. Author(s): BALATSKY, A; FRADKIN, E, Title: SINGLET QUANTUM HALL-EFFECT AND CHERN-SIMONS THEORIES, Source: PHYSICAL REVIEW B Volume: 43 Issue: 13 Pages: 10622-10634 DOI: 10.1103/PhysRevB.43.10622 Part: A Published: MAY 1 1991
Times Cited: 20 (from Web of Science)

18. Author(s): MONTHOUX, P; BALATSKY, AV; PINES, D, Title: TOWARD A THEORY OF HIGH-TEMPERATURE SUPERCONDUCTIVITY IN THE ANTIFERROMAGNETICALLY CORRELATED CUPRATE OXIDES, Source: PHYSICAL REVIEW LETTERS Volume: 67 Issue: 24 Pages: 3448-3451 DOI: 10.1103/PhysRevLett.67.3448 Published: DEC 9 1991
Times Cited: 379 (from Web of Science)

19. Author(s): BALATSKY, A, Title: SPIN SINGLET QUANTUM HALL-EFFECT AND NONABELIAN LANDAU-GINZBURG THEORY, Conference: ADRIATICO RESEARCH CONF AND MINIWORKSHOP ON STRONGLY CORRELATED ELECTRON SYSTEMS III Location: TRIESTE, ITALY Date: JUL 08-AUG 02, 1991 Sponsor(s): INT CTR THEORET PHYS; CNR; SCUOLA INT SUPER STUDI AVANZATI

Source: INTERNATIONAL JOURNAL OF MODERN PHYSICS B Volume: 6 Issue: 5-6 Pages: 765-788 DOI: 10.1142/S0217979292000463 Published: MAR 1992
Times Cited: 1 (from Web of Science)

*20. Author(s): BALATSKY, A; ABRAHAMS, E, Title: NEW CLASS OF SINGLET SUPERCONDUCTORS WHICH BREAK TIME-REVERSAL AND PARITY, Source: PHYSICAL REVIEW B Volume: 45 Issue: 22 Pages: 13125-13128 DOI: 10.1103/PhysRevB.45.13125 Published: JUN 1 1992
Times Cited: 128 (from Web of Science)

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