Review Articles


Refereed Research Articles


[130] S.S. Kunwar, A. Sen, T. Vojta and R. Narayanan, Tuning a random field mechanism in a frus-


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84] T. Heitmann, A. Schmets, J. Gaddy, J. Lansal, M. Petrovic, W. Montfrooij, and T. Vojta: Magnetic excitations in the spinel compound Li_x/Mn_{0.96}Li_0.04O_4 (x = 0.2, 0.6, 0.8, 1.0): how a classical system can mimic quantum critical scaling, Phys. Rev. B 81, 014411 (2010), arXiv:0902.4412; selected as an Editor’s Suggestion, highlighted with a synopsis on the physics.aps.org website


[65] T. Vojta and M. Dickison: Critical behavior and Griffiths effects in the disordered contact process, Phys. Rev. E 72, 036126 (2005), cond-mat/0505354


[61] T. Vojta and R. Sknepnek: Critical points and quenched disorder: From Harris criterion to rare regions and smearing, phys. stat. sol. (b) 241, 2118 (2004), cond-mat/0405070


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Proceedings, Books, and Book Chapters


[15] T. Vojta: Parallel simulations of phase transitions in disordered many-particle systems, in K.H. Hoff-


Other, Non-refereed Articles


Invited Talks at National and International Meetings


[40] T. Vojta: Phases and phase transitions in disordered quantum systems, series of four lectures at the School on Quantum Disordered Systems, Chennai (1 Mar 2016)


[38] T. Vojta: How random is topological disorder, International Conference on Coherence and Correlations on different scales, Ustron (6 Sep 2014)


[34] T. Vojta: Strong-randomness phenomena at superfluid phase transitions, International Conference on Frontiers of Quantum and Mesoscopic Thermodynamics, Prague (1 Aug 2013)


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[24] T. Vojta: Rare region effects at quantum phase transitions, Symposium on Rare Fluctuations and Large Disorder in Quantum Systems, Princeton Center for Theoretical Science, Princeton University, Princeton (24 Sep 2009)


[19] T. Vojta: Disordered quantum phase transitions, Series of four lectures at the Summer School of the Asia-Pacific Center for Theoretical Physics, Seoul (21 July 2008)


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Seminars and Colloquia


[88] T. Vojta: *Strange phenomena in flatland: Physics Nobel Prize 2016*, Physics Colloquium, Missouri University of Science and Technology, Rolla (1 Dec 2016)


[84] T. Vojta: *Quantum phase transitions and novel phases in condensed matter*, Physics Colloquium, Universidade Federal de São Carlos, São Carlos, Brazil (13 May 2015)

[83] T. Vojta: *Phases and phase transitions in disordered quantum systems*, series of five lectures at the São Carlos Institute of Physics, São Carlos, Brazil, (4 May to 15 May 2015)

[82] T. Vojta: *Quantum phase transitions and novel phases in condensed matter*, Physics Colloquium,
Universidade Federal de Minas Gerais, Belo Horizonte, Brazil (24 April 2015)

[81] T. Vojta: *Phases and phase transitions in disordered quantum systems*, series of five lectures at the Universidade Federal de Minas Gerais, Belo Horizonte, Brazil (23 April to 30 April 2015)


[77] T. Vojta: *Quantum phase transitions and novel phases in condensed matter*, Physics Colloquium, São Carlos Institute of Physics, São Carlos, Brazil (08 Aug 2014)

[76] T. Vojta: *Quantum phase transitions and disorder: Griffiths singularities, infinite randomness, and smearing*, Research Seminar, São Carlos Institute of Physics, São Carlos, Brazil (06 Aug 2014)

[75] T. Vojta: *Quantum phase transitions and disorder: Rare regions, infinite randomness and smearing*, Condensed Matter Seminar, University of Kentucky, Lexington (10 Dec 2013)


[73] T. Vojta: *Quantum phase transitions and disorder: from Harris criterion to infinite randomness and smearing*, Condensed Matter Physics Seminar, Ohio State University, Columbus (1 Oct 2012)


[70] T. Vojta: *Quantum phase transitions and novel phases in condensed matter*, Physics Department Seminar, Missouri State University, Springfield (03 Mar 2011)


[66] T. Vojta: *Cluster computing in the Missouri S&T physics department*, Physics Colloquium, Missouri University of Science and Technology, Rolla (21 Jan 2010)


[60] T. Vojta: *Phase transitions and disorder: from Harris criterion to infinite randomness and smearing*, Theoretical Physics Seminar, Physics Department, University of Bilbao, Spain (14 July 2009)

[59] T. Vojta: *Phase transitions and disorder: from Harris criterion to infinite randomness and smearing*, Seminar, Physics Department, Munich University of Technology, Germany (9 July 2009)
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[58] T. Vojta: Infinite-randomness quantum critical points induced by dissipation, Seminar, Institute for Theoretical Condensed Matter Physics, University of Karlsruhe, Germany (25 May 2009)

[57] T. Vojta: Phase transitions and disorder: from Harris criterion to infinite randomness and smearing, Physics Colloquium, Dresden University of Technology, Dresden, Germany (19 May 2009)


[55] T. Vojta: How rare regions can dominate the thermodynamics of a macroscopic system, Scientific Jam Session, Max-Planck-Institute for Physics of Complex System, Dresden, Germany (23 Januar 2009)


[53] T. Vojta: Phase transitions and disorder: from Harris criterion to infinite randomness and smearing, Physics Colloquium, Louisiana State University, Baton Rouge (4 Dec 2008)


[51] T. Vojta: Quantum phase transitions with disorder and dissipation, Complex Quantum Systems Seminar, University of Texas, Austin (16 October 2008)


[49] T. Vojta: Phase transitions and disorder: From Harris criterion to infinite randomness and smearing, Physics Colloquium, Kent State University (18 Sep 2008)


[42] T. Vojta: Quantum phase transitions on percolating lattices, Theory Colloquium, Institute for Theoretical Physics, University of Cologne (1 June 2007)

[41] T. Vojta: Phase transitions and disorder - How rare events can dominate a macroscopic system, Physics Colloquium, University of Missouri-Rolla (21 Sep 2006)

[40] T. Vojta: Phase transitions and disorder - How rare events can dominate a macroscopic system, Physics Colloquium, University of Missouri-Columbia (18 Sep 2006)


[34] T. Vojta: *Quantum phase transitions*, Physics Colloquium, Department of Physics, Syracuse University (20 Oct 2005)

[33] T. Vojta: *Quantum phase transitions and disorder: Infinite randomness, Griffiths singularities, and smearing*, Condensed Matter Seminar, Department of Physics, University of Southern California (25 Feb 2005)


[21] T. Vojta: *Rare regions, local moments, and annealed disorder: A novel mechanism for metal-insulator transitions*, Physics Seminar, Department of Physics, University of Missouri Rolla (20 Jul 2001)

[20] T. Vojta: *Quantum phase transitions in electronic systems*, Physics Colloquium, Department of Physics, University of Missouri Rolla (1 Mar 2001)


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Conference Contributions


List of publications of Thomas Vojta


[90] T. Vojta and J.A. Hoyos: *Local defect in a magnet with long-range interactions*, APS March Meeting, Denver (5 Mar 2007)


[81] T. Vojta, Rare regions, quantum Griffiths singularities, and inhomogeneous order, Complexity in strongly correlated electron systems mini-program, Kavli Institute for Theoretical Physics, UCSB, Santa Barbara (2005)

[80] T. Vojta, Rare regions and Griffiths effects near quantum phase transitions, Workshop on Dynamics, Structure and Correlations in Glasses, Aspen Center for Physics, Aspen (2005)


[78] M. Dickison and T. Vojta, Rare region effects at a non-equilibrium phase transition, APS March Meeting, Los Angeles (2005)


[58] M. Schreiber, J. Siewert and T. Vojta: Interacting electrons in parabolic quantum dots: energy levels,


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