S. Thomas Vojta

List of Publications and Presentations

June 21, 2018

Review Articles


Refereed Research Articles


[84] T. Heitmann, A. Schmets, J. Gaddy, J. Lamsal, M. Petrovic, W. Montfrooij, and T. Vojta: Magnetic excitations in the spinel compound Li_{0.9-x,Mn_{0.04}Li_{0.04}}O_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


List of publications of Thomas Vojta


[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


Proceedings, Books, and Book Chapters


List of publications of Thomas Vojta

(Eds.): Recent Progress in Many-Body Theories 11, World Scientific, Singapore (2002)


Other, Non-refereed Articles


Invited Talks at National and International Meetings


List of publications of Thomas Vojta


[40] T. Vojta: *Phases and phase transitions in disordered quantum systems*, series of four lectures at the School on Quantum Disordered Systems, Chennai (24 Feb 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)


[96] T. Vojta: Exotic phase transitions in disordered magnets, superconductors, and ultracold gases, Physics Colloquium, University of Regensburg, Germany (28 May 2018)


[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)

[74] T. Vojta: Particle control in a quantum world: the 2012 Physics Nobel Prize, Physics Colloquium, Missouri University of Science and Technology, Rolla (14 Nov 2012)

[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)

T. Vojta: *The accelerating universe: the 2011 Physics Nobel Prize*, Physics Colloquium, Missouri University of Science and Technology, Rolla (27 Oct 2011)

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

T. Vojta: *Quantum phase transitions and disorder: from Harris criterion to infinite randomness and smearing*, Condensed Matter Seminar, Los Alamos National Laboratory (09 Feb 2011)

Y.-S. Hor and T. Vojta: *Flat carbon: the 2010 Physics Nobel Prize*, Physics Colloquium, Missouri University of Science and Technology, Rolla (21 Oct 2010)

T. Vojta: *Quantum phase transitions and novel phases in condensed matter*, Physics Colloquium, Truman State University, Kirksville (20 Oct 2010)

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


T. Vojta: *Infinite-randomness quantum critical points induced by dissipation*, Condensed Matter Seminar, University of Karlsruhe, Germany (25 May 2009)

T. Vojta: *Phase transitions and disorder: from Harris criterion to infinite randomness and smearing*, Institute for Theoretical Condensed Matter Physics, University of Karlsruhe, Germany (25 May 2009)

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 Jan 2009)


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

T. Vojta: *Broken symmetry: the 2008 Physics Nobel Prize*, Physics Colloquium, Missouri University of Science and Technology, Rolla (20 Nov 2008)

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

T. Vojta: *Quantum phase transitions and disorder: From Harris criterion to infinite randomness and smearing*, Seminar of the Laboratory for Atomic and Solid State Physics, Cornell University (3 Oct 2008)

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)


List of publications of Thomas Vojta


[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)


[12] T. Vojta: Rare regions, local moments and annealed disorder at quantum phase transitions, Festkörperftheorie-Seminar, Universität Karlsruhe (15 May 2000)


Conference Contributions


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


List of publications of Thomas Vojta


