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Up-to-date list also available at *www.ifsc.usp.br/∼hoyos/publication.html*

Refereed Research Articles

30. *Strong-disorder renormalization group study of the Anderson localization transition in three and higher dimension*
H. J. Mard, J. A. Hoyos, E. Miranda and V. Dobrosavljević
Phys. Rev. B **96**, 045143 (2017); arXiv:1412.3793

29. *Contact process with temporal disorder*
H. Barghathi, T. Vojta and J. A. Hoyos
Phys. Rev. E **94**, 022111 (2016); arXiv:1603.08075

28. *Random SU(2)-symmetric spin chains*
V. L. Quito, J. A. Hoyos, and E. Miranda
Phys. Rev. B **94**, 064405 (2016); arXiv:1512.04542

27. *Entanglement properties of correlated random spin chains and its similarities with conformal invariant systems*
J. C. Getelina, F. C. Alcaraz and J. A. Hoyos
Phys. Rev. B **93**, 045136 (2016); arXiv:1511.00618

26. *Infinite-noise criticality: nonequilibrium phase transition in fluctuating environments*
T. Vojta and J. A. Hoyos
Europhys. Lett. **112**, 30002 (2015); arXiv:1507.05677

25. *Emergent SU(3) symmetry in random spin-1 chains*
V. L. Quito, J. A. Hoyos, and E. Miranda
Phys. Rev. Lett. **115**, 167201 (2015); arXiv:1404.1924

24. *Strong-randomness phenomena in quantum Ashkin-Teller models*
H. Barghathi, F. Hrahsheh, J. A. Hoyos, R. Narayanan, and T. Vojta
Physica Scripta T165 (**2015**) 014040; arXiv:1404.2509

23. *Emerging criticality in the disordered three-color Ashkin-Teller model*
Q. Zhu, X. Wan, R. Narayanan, J. A. Hoyos, T. Vojta
Phys. Rev. B **91**, 224201 (2015); arXiv:1504.00408

22. *Rare regions and Griffiths singularities at a clean critical point: The five-dimensional disordered contact process*
T. Vojta, J. Igo, and J. A. Hoyos
Phys. Rev. E **90**, 012139 (2014); arXiv:1405.4337

21. *Strong-disorder renormalization-group study of the one-dimensional tight-binding model*
H. J. Mard, J. A. Hoyos, E. Miranda and V. Dobrosavljević
Phys. Rev. B **90**, 125141 (2014); arXiv:1404.1381

20. *Criticality and quenched disorder: rare regions vs. Harris criterion*
T. Vojta and J. A. Hoyos
Phys. Rev. Lett. **112**, 075702 (2014); arXiv:1309.0753

19. *Strong-randomness infinite-coupling phase in a random quantum spin chain*
F. Hrahsheh, R. Narayanan, J. A. Hoyos, and T. Vojta
Phys. Rev. B **89**, 014401 (2014); arXiv:1310:4864

18. *Rounding of a first-order quantum phase transition to a strong-coupling critical point*
F. Hrahsheh, J. A. Hoyos, and T. Vojta
Phys. Rev. B **86**, 214204 (2012); arXiv:1208.0471

17. *Percolation transition in quantum Ising and rotor models with sub-Ohmic dissipation*
M. Al-Ali, J. A. Hoyos, and T. Vojta
Phys. Rev. B **86**, 075119 (2012); arXiv:1206.4332

16. *Dissipation effects in random transverse-field Ising chains*
J. A. Hoyos, and T. Vojta
Phys. Rev. B **85**, 174405 (2012); arXiv:1203.0698

15. *Protecting clean critical points by local disorder correlations*
J. A. Hoyos, N. Laflorencie, A. P. Vieira, and T. Vojta
Europhys. Lett. **93**, 30004 (2011); arXiv:1011.0182

14. *Influence of superohmic dissipation on a disordered quantum critical point*

T. Vojta, J. A. Hoyos, P. Mohan, and R. Narayanan
J. Phys.: Condens. Matter **23**, 094206 (2011); arXiv:1008.1106

13. *Dynamical conductivity at the dirty superconductor-metal quantum phase transition*
A. Del Maestro, B. Rosenow, J. A. Hoyos, and T. Vojta
Phys. Rev. Lett. **105**, 145702 (2010); arXiv:1006.3793

12. *Magnetic Grüneisen ratio of the random transverse-field Ising chain*
T. Vojta and J. A. Hoyos
Phys. Status Solidi B **247**, 525 (2010); arXiv:0906.0972

11. *Valence-bond theory of highly disordered quantum antiferromagnets*
S. Zhou, J. A. Hoyos, V. Dobrosavljević, and E. Miranda
Europhys. Lett. **87**, 27003 (2009); arXiv:0810.3043

10. *Infinite-randomness quantum critical points induced by dissipation*
T. Vojta, C. Kotabage, and J. A. Hoyos
Phys. Rev. B **79**, 024401 (2009); arXiv:0809.2699

9. *Weakly disordered absorbing-state phase transitions*
J. A. Hoyos
Phys. Rev. E **78**, 032101 (2008); arXiv:0805.2211

8. *Theory of smeared quantum phase transitions*
J. A. Hoyos and T. Vojta
Phys. Rev. Lett. **100**, 240601 (2008); arXiv:0802.2303

7. *Effects of dissipation on a quantum critical point with disorder*
J. A. Hoyos, C. Kotabage, and T. Vojta
Phys. Rev. Lett. **99**, 230601 (2007); arXiv:0705.1865

6. *Correlation amplitude and entanglement entropy in random spin chains*
J. A. Hoyos, A. P. Vieira, N. Laflorencie, and E. Miranda
Phys. Rev. B **76**, 174425 (2007); arXiv:0704.0951

5. *Local defect in a magnet with long-range interactions*
J. A. Hoyos and T. Vojta
Phys. Rev. B **75**, 104418 (2007); arXiv:cond-mat/0611001

4. *Quantum channels in random spin chains*
J. A. Hoyos and G. Rigolin
Phys. Rev. A **74**, 062324 (2006); arXiv:quant-ph/0608220

3. *Percolation transition and dissipation in quantum Ising magnets*
J. A. Hoyos and T. Vojta
Phys. Rev. B **74**, 140401(R) (2006); arXiv:cond-mat/0605036

2. *Random Antiferromagnetic SU(N) Spin Chains*
J. A. Hoyos and E. Miranda
Phys. Rev. B **70**, 180401(R) (2004); arXiv:cond-mat/0406130

1. *Phase diagrams and universality classes of random antiferromagnetic spin ladders*
J. A. Hoyos and E. Miranda
Phys. Rev. B **69**, 214411 (2004); arXiv:cond-mat/0404444

Proceedings, Books, and Book Chapters

4. *Smeared quantum phase transition in the dissipative random quantum Ising model*
T. Vojta and J. A. Hoyos
Physica E **42**, 383-387 (2010); arXiv:0811.3754

3. *Quantum Phase Transitions on Percolating Lattices*
T. Vojta and J. A. Hoyos
in Recent Progress in Many-Body Theories, edited by J. Boronat, G. Astrakharchik and F. Mazzanti, World Scientific, Singapore (2008); arXiv:0707.0658

2. *Dissipation effects in percolating quantum Ising magnets*
J. A. Hoyos and T. Vojta
Physica B **403**, 1245-1247 (2008); arXiv:cond-mat/0703557

1. *Ordered droplets in quantum magnets with long-range interactions*
T. Vojta and J. A. Hoyos
Physica B **403**, 1239-1241 (2008); arXiv:cond-mat/0703555