

Antonio M. García-García

List of publications

53. 'Interplay of classical and "quantum" capacitance in a one dimensional array of Josephson junctions'
P. Ribeiro, A. M. García-García, [arXiv:1312.3111](https://arxiv.org/abs/1312.3111)
52. Dissipation in a topological Josephson junction
P. Matthews, Pedro Ribeiro, Antonio M. García-García, [arXiv:1311.5842](https://arxiv.org/abs/1311.5842)
51. 'Shape resonances and shell effects in thin film multi-band superconductors'
A. Romero-Bermúdez, A. M. García-García, [arXiv:1311.0698](https://arxiv.org/abs/1311.0698)
50. 'Enhancing bulk superconductivity by engineering granular materials'
J. Mayoh, A. M. García-García, [arXiv:1311.0295](https://arxiv.org/abs/1311.0295)
49. 'Inhomogenous pairing and enhancement of superconductivity in large Sn nanograins'
J. Mayoh, A. M. García-García, [arXiv:1309.6255](https://arxiv.org/abs/1309.6255)
48. 'A thermal quench induces spatial inhomogeneities in a holographic superconductor'
A. M. García-García, H. B. Zeng, H. Q. Zhang, [arXiv:1308.5398](https://arxiv.org/abs/1308.5398)
47. 'Thermal amplitude fluctuations in arrays of small Josephson junctions'
A. M. García-García, *J. Supercond. Nov. Magn.* (2013), DOI: 10.1007/s10948-013-2162-z
46. 'Phase coherence in one-dimensional superconductivity by power-law hopping'
A. M. Lobos, M. Tezuka, A. M. García-García, *Phys. Rev. B* 88, 134506 (2013).
45. 'Integrability, localization and lack of thermalization in holographic superconductivity'
X. Gao, A. M. García-García, H. Bi Zeng, H.-Q. Zhang, [arXiv:1212.1049](https://arxiv.org/abs/1212.1049)
44. 'Holographic Description of Finite Size Effects in Strongly Coupled Superconductors'
A. M. García-García, J. E. Santos, B. Way, *Phys. Rev. B* 86, 064526 (2012).
43. 'Combined effect of thermal and quantum fluctuations in superconducting nanostructures: a path integral approach'
P. Ribeiro, A. M. García-García, *Phys. Rev. Lett.* 108, 097004 (2012).
42. 'Testing the universality of the many body metal-insulator transition by time evolution of a disordered one-dimensional ultracold fermionic gas'
M. Tezuka, A. M. García-García, *Phys. Rev. A* 85, 031602 (2012) (*Rapid Comm.*)

- 41. 'Quantum Quenches in Disordered Systems: Approach to Thermal Equilibrium without a Typical Relaxation Time'**
E. Khatami, A. Relaño, M. Rigol, A. M. García-García, *Phys. Rev. E* 85, 050102 (2012) (*Rapid Comm.*)
- 40. 'Quantifying fluctuations from the tunnelling differential conductance'**
A. M. García-García, Pedro Ribeiro, *J. Supercond. Nov. Magn.* (2012), DOI 10.1007/s10948-012-1662-6
- 39. 'Enhancement of the critical temperature in iron-pnictide superconductors by finite size effects'**
A. M. García-García, M. A. N. Araujo, P. D. Sacramento, *Phys. Rev. B* 84, 172502 (2011).
- 38. 'Experimental observation of thermal fluctuations in single superconducting Pb nanoparticles through tunneling measurements'**
I. Brihuega, A. M. García-García, P. Ribeiro, Miguel M. Ugeda, C. H. Michaelis, I. Brihuega and S. Bose, K. Kern, *Phys. Rev. B* 84, 104525 (2011) (Editor Suggestions)
- 37. 'BCS superconductivity in metallic nanograins: Finite-size corrections, low energy excitations, and robustness of shell effects'**
A. M. García-García, J. D. Urbina, E. Yuzbashyan, K. Richter and B. Altshuler, *Phys. Rev. B* 83, 014510 (2011).
- 36. 'Observation of shell effects in superconducting nanoparticles of Sn'**
S. Bose, A. M. Garcia-Garcia, Miguel M. Ugeda, J. D. Urbina, C. H. Michaelis, I. Brihuega and K. Kern, *Nature Materials* 9, 550 (2010).
- 35. 'Localization in fractal and multifractal media'**
A. M. Garcia-Garcia, Emilio Cuevas, *Phys. Rev. B* 82, 033412 (2010).
- 34. 'Stability of the superfluid state in a disordered 1D ultracold fermionic gas'**
M. Tezuka, A. M. García-García, *Phys. Rev. A* 82, 043613 (2010).
- 33. 'A holographic approach to phase transitions'**
S. Franco, A. M. García-García, D. Rodriguez, *Phys. Rev. D* 81, 041901 (2010) (*Rapid Comm.*)
- 32. 'A general class of holographic superconductors'**
S. Franco, A.M. García-García, D. Rodriguez, *JHEP* 4 (2010) 092, arXiv:0906.1214.
- 31. 'Absence of localization in one-dimensional disordered systems'**
A. M. García-García, E. Cuevas, *Phys. Rev. B (Brief Reports)* 79, 073104 (2009).
- 30. 'The Anderson transition in a 3d kicked rotor'**
J. Wang and A. M. García-García, *Phys. Rev. E* 79, 036206 (2009).
- 29. 'BCS theory for finite size superconductors'**
A. M. García-García, J. D. Urbina, E. Yuzbashyan, K. Richter and B. Altshuler, *Phys. Rev. Lett.*, 100, 187001 (2008).
- 28. 'Finite size corrections to the blackbody radiation laws'**

- A. M. García-García, *Phys. Rev. A*, 78, 023806 (2008).
27. '**A semiclassical theory of the Anderson transition'**
A. M. García-García, *Phys. Rev. Lett.*, 100, 076404 (2008).
26. '**Universality in quantum chaos and the one parameter scaling theory'**
A. M. García-García, J. Wang, *Phys. Rev. Lett.*, 100, 070603 (2008).
25. '**Classical and quantum anomalous diffusion in a system of 2δ Kicked Quantum Rotors'**
A. M. García-García, J. Wang, *Int. J. Mod. Phys. B*, 22, 5261 (2008).
24. '**Dimensional dependence of the metal-insulator transition'**
A. M. García-García, E. Cuevas, *Phys. Rev. B* 75, 174203 (2007).
23. '**Anderson localization in quantum chaos: scaling and universality'**
A.M. García-García, J. Wang, *Acta Phys. Pol.*, 112, 635, (2007). Proceedings 3rd Workshop on Quantum Chaos and Anderson localization 2007,
22. '**Chiral phase transition in QCD as a metal insulator transition'**
A. M. García-García, J. Osborn, *Phys. Rev. D* 75, 034503 (2007).
21. '**Is the chiral phase transition induced by a metal insulator transition?**'
A. M. García-García, J. Osborn, Proceedings, Infrared QCD, Rio, (2006), *Braz. J. of Phys.*, 37, 246 (2007).
20. '**Role of Anderson localization in the QCD chiral phase transition',**
A. M. García-García, Proceedings International Conference of Nuclear Physics 2007, Tokyo.
19. '**Is it possible to observe experimentally a metal-insulator transition in ultra cold atoms?**'
A. M. García-García, J. Wang, *Phys. Rev. A* 74, 063629 (2006).
18. '**Anderson transition in systems with chiral symmetry'**
A. M. García-García, E. Cuevas, *Phys. Rev. B* 74, 113101 (2006).
17. '**A semiclassical description of the autocorrelations in Nuclear Masses'**
A. M. García-García, J. G. Hirsch, A. Frank, *Phys. Rev. C* 74 (2006) 024324.
16. '**Chiral phase transition and Anderson localization in the Instanton Liquid Model for QCD'**
A. M. García-García, J.C. Osborn, *Nucl. Phys. A* 769, 251 (2006).
15. '**Power spectrum characterization of the Anderson transition'**
A. M. García-García, *Phys. Rev. E* 73, 026213 (2006).
14. '**Semi-Poisson statistics in quantum chaos'**
A. M. García-García, J. Wang, *Phys. Rev. E* 73, 03621(2006).
13. '**Localization in the Instanton Liquid model of QCD'**
A. M. García-García, 'International Colloquium on Group Theoretical Methods in Physics',

New York, June 2006.

12. '**Classical singularities and Semi-Poisson statistics in disordered systems'**
A. M. García-García, *Phys. Rev. E* 72, 066210 (2005).
11. '**The Anderson transition in quantum chaos'**
A. M. García-García, J. Wang, *Phys. Rev. Lett.* 94, 244102(2005).
10. '**Chiral phase transition as an Anderson transition in the Instanton liquid model of QCD'**
A. M. García-García, James C. Osborn, *PoS LAT2005* (2005) 265.
9. '**Long range disorder and Anderson transition in systems with chiral symmetry'**
A. M. García-García, K. Takahashi, *Nucl. Phys. B*, 700 (2004) 361.
8. '**The QCD vacuum as a disordered medium: A simplified model of the QCD Dirac operator'**
A. M. García-García, J. Osborn, *Phys. Rev. Lett.* 93 (2004) 132002.
7. '**Classical intermittency and quantum Anderson transition'**
A. M. García-García, *Phys. Rev. E* 69 (2004) 066216.
6. '**Effect of a magnetic flux on the critical behavior of a system with long range hopping'**
A. M. García-García, *Phys. Rev. B* 69 (2004) 245121.
5. '**Critical statistics in quantum chaos and Calogero Sutherland model at finite temperature'**
A. M. García-García, J.J.M. Verbaarschot, *Phys.Rev. E* 67, 046104(2003).
4. '**Chiral phase transition and Anderson localization in the Instanton liquid model of QCD'**
A. M. García-García, *Proceedings 'Quantum mechanics and chaos'*, Kyoto, 2003.
3. '**Critical statistics for non hermitian matrices'**
A. M. García-García , J.J.M. Verbaarschot, S. Nishigaki, *Phys. Rev. E* 66 016132 (2002).
2. '**Spectral properties of a generalized chGUE'**
A. M. García-García, *Phys. Rev. E* 64 066121 (2001).
1. '**Critical statistics for chiral ensembles'**
A. M García-García, J.J.M.Verbaarschot, *Nucl. Phys. B* 586 (2001) 668.

