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Education

B.A.: Mathematics and Physics, U. C. Berkeley, 2001
High Distinction in General Studies

Ph.D.: Physics, Rutgers University, 2010
Thesis title: *Effects of Quenched Randomness on Classical and Quantum Phase Transitions*
Advisor: Joel L. Lebowitz

Employment

2010–12: Postdoc, Dipartimento di Matematica, Università degli Studi Roma Tre

2012–13: ANR SHEPI Postdoc, Laboratoire MAP5, Université Paris Descartes

2015–2016: Assegno di Ricerca, Dipartimento di Scienze di Base e Applicate per l'Ingegneria, Sapienza Università di Roma

2016 (oct-dec): Postdoc, Institut für Mathematik, Universität Zürich

2017–present: Assegno di Ricerca, Dipartimento di Matematica e Fisica, Università degli Studi Roma Tre

Publications

Journal Articles

Product measure steady states of generalized zero range processes (with J.L. Lebowitz), *J. Phys. A* **39** 1565–1574, 2006.

Rounding of First Order Transitions in Low-Dimensional Quantum Systems with Quenched Disorder (with M. Aizenman and J.L. Lebowitz), *Phys. Rev. Lett.* **103** 197201, 2009.

On spin systems with quenched randomness: Classical and quantum (with M. Aizenman and J.L. Lebowitz), *Physica A* **389** 2902–2906, 2010.

Proof of Rounding of First Order Transitions in Low-Dimensional Quantum Systems with Quenched Disorder (with M. Aizenman and J.L. Lebowitz), *J. Math. Phys.* **53** 023301 (2012).

The scaling limit of the energy correlations in non integrable Ising models (with A. Giuliani and V. Mastropietro); *J. Math. Phys.* **53** 095214 (2012).

Singular behavior of the leading Lyapunov exponent of a product of random 2×2 matrices (with G. Genovese and G. Giacomin). *Comm. Math. Phys.* **351** 923–958 (2017).

Preprints

The Ising model on a cylinder: universal finite size corrections and diagonalized action. ArXiv:1409.1852 (2014).

Journal Articles in Other Disciplines

The presence of High-impact factor Open Access Journals in Science, Technology, Engineering and Medicine (STEM) disciplines (with A. Barbaro, M. Zedda, and D. Gentili); *Italian Journal of Library, Archives, and Information Science* **6** 57-76 (2015).

Honors and patents

US Patent 6,538,444: Two dimensional B₁-gradient NMR imager (with R.E. Gerald and J.W. Rathke), 2003.

Department of Education GAANN Fellowship, 2003-4 and 2004-5.

References

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