Curriculum Vitae of Pietro Smacchia

Personal Details

Name:	Pietro Smacchia
Birthplace and Date:	Bari, 13th of June, 1987
Nationality:	Italian
Phone:	+1 917 215 4351
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Education

11/2010-Present	**Phd Student** SISSA, Trieste - Italy, *Statistical Physics program* **Supervisor**: Alessandro Silva
09/2008-07/2010	**Master Degree in Theoretical Physics** Physics Department "M. Merlin", University of Bari - Italy exams average grade of 30/30. final mark 110/110 cum laude **Thesis** (in Italian): *Entanglement and Quantum Phase Transitions* **Supervisor**: Saverio Pascazio
09/2005-07/2008	**Bachelor Degree in Physics** Physics Department "M. Merlin", University of Bari - Italy final mark 110/110 cum laude **Thesis** (in Italian): *Entanglement and Neutrino Oscillation* **Supervisor**: Saverio Pascazio
09/2000-06/2005	**High School Degree (100/100)** Liceo Classico " Q. O. Flacco", Bari (BA) - Italy

Computer Skills

Programming Languages:	C, Fortran 90,Python
Computational softwares:	Mathematica, MatLab
Productivity:	Excel, Power Point, Latex, Word, Numbers, Keynote, Pages
Operating Systems:	Linux, Mac OSX, Windows

Language Knowledge

Italian:	Mother tongue
English:	Professional working proficiency

Publications

1. P. Smacchia, D. Abanin, E. Demler, A. Silva *Dynamical phase transitions and the statistics of the defects produceded in a double quench*, to be submitted to Phys. Rev. Lett.
2. A. Maraga, P. Smacchia, M. Fabrizio, A. Silva, *Breakdown of adiabaticity for the order parameter in a low dimensional gapped system*, arXiv: 1402.2789
3. P. Smacchia, A. Silva, *Work distribution and edge singularities for generic time-dependent protocols in extended system*, Phys. Rev. E **88**, 042109 (2013)
4. P. Smacchia, A. Silva, *Universal Energy Distribution of Quasiparticles emitted in a Local Time-Dependent Quench*, Phys. Rev. Lett. **109**, 037202 (2012)
5. P. Smacchia, L. Amico, P. Facchi, R. Fazio, G. Florio, S. Pascazio, V. Vedral, *Statistical mechanics of the cluster Ising model*, Phys. Rev. A **84**, 022304 (2011)

School and Conferences

- 19/08/2013-30/08/2013: **Quantum Many-Body Systems out of Equilibrium**, Max Planck Institute for Complex Systems, Dresden - Germany.
  Short talk given: *Statistics of the work for generic protocols in extended systems*
- 30/07/2012-24/08/2012: **Summer School: Interacting Quantum Systems out of Equilibrium**, Ecole de Physique des Houches, Les Houches - France

Invited Seminars

- 05/11/2013: ICTP, Trieste, Italy
- 25/02/2014: Rutgers University
- 06/03/2014: Max Planck Institute for Complex Systems, Dresden