

EMANUELE G. DALLA TORRE

Born in Milan, Italy *on* September 19th, 1980.

Citizenship: Italy, Israel

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Education:

2007-2011 Ph.D. in Physics, Weizmann Institute of Science

Thesis advisor: Dr. Ehud Altman (Ehud.Altman@weizmann.ac.il)

2005-2007 M.Sc. in Physics, Weizmann Institute of Science

Thesis advisor: Dr. Ehud Altman (Ehud.Altman@weizmann.ac.il)

Experimental project: Prof. Ada Yonath (Ada.Yonath@weizmann.ac.il)

2000-2004 B.Sc in Electronic Engineering, Technion – Technology Institute of Israel

Final project: Prof. Yossi Avron (avronj@tx.technion.ac.il)

B.A. in Physics, Technion – Technology Institute of Israel

Final project: Prof. Dan Ritter (ritter@ee.technion.ac.il)

Prizes and Scholarships

2011 Post-doctorial fellowship – Rothschild Foundation

2010 Prof. Rahamimoff Travel Grant – Binational Science Foundation

2007-2011 Adams Doctorial Fellowship - Israel Academy of Sciences and Humanities

2007 Masters Excellence Prize – FGS, Weizmann Institute of Science

2005 Bachelor honor “summa cum laude” – Technion

2003 Undergraduate Excellence Prize - Parliament of the State of Israel
[Awarded to the 100 best students of the nation every year]

2001 Admitted to the Technion’s Chais Excellence Program

2000 Undergraduate excellence scholarship – Keren Hayesod (declined)

Conferences and workshops:

2011 Conference on “Frontiers of Quantum Many-Body physics” - Prague

2011 Workshop on “Dynamics of Strongly Correlated Quantum System” – ICTP, Trieste

2010 Workshop on ""Theory of Quantum Gases and Quantum Coherence" - University of Nice

2010 Workshop on "Correlated Phenomena in Low-Dimensional Systems" - MPI, Dresden

2009 Israel-German Research Cooperation meeting - University of Mainz

2007 Workshop on “Strongly Correlated Phases in Cond. Matt. and Degenerate Atomic Systems”
- KITP, Santa Barbara

Schools:

- 2009** “Non equilibrium physics, from classical to quantum low dimensional systems”
– Abdus Salam ICTP, Trieste
- 2007** “Condensed Matter physics and Quantum information with Cold atoms” – ASI, Jerusalem
- 2007** “Quantum Phases and Non-equilibrium phenomena in Cold atomic gases” – ICTP, Trieste
- 2006** “Ultra-cold Fermi gases” – Societa' Italiana di Fisica, Varenna
- 2004** “Nano-structures and nano-sensors” – Societa' Italiana di Fisica, Varenna

Publications

Emanuele G. Dalla Torre, Eugene Demler, Thierry Giamarchi, Ehud Altman, “Dynamics and universality in noise-driven dissipative systems”, *Phys. Rev. B* **85**, 184302 (2012)

Emanuele G. Dalla Torre, Eugene Demler, Thierry Giamarchi, Ehud Altman, “Non-local Order in Elongated Dipolar Gases” *Phys. Rev. B* **85**, 125121 (2012)

Emanuele G. Dalla Torre, Eugene Demler, Thierry Giamarchi, Ehud Altman, “Quantum critical states and phase transitions in the presence of non equilibrium noise”, *Nature Physics* **6**, 806 (2010)

Erez Berg, Emanuele G. Dalla Torre, Thierry Giamarchi, Ehud Altman, “Rise and fall of hidden string order of lattice bosons”, *Phys. Rev. B* **77**, 245119 (2008)

Emanuele G. Dalla Torre, Erez Berg, Ehud Altman “Hidden order in 1D Bose insulators”, *Phys. Rev. Lett.* **97**, 260401 (2006)

Teaching experience

Fall 2008, 2009, 2010 Teaching Assistant of the graduate course on Quantum Mechanics, given by
Prof. Shimon Levit (Shimon.Levit@weizmann.ac.il)