

Eran Lebanon

Curriculum Vitae

Department of Physics and Astronomy
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GENERAL INFORMATION

- Born: September 4th, 1971
- Citizenship: Israel and US
- Marital status: Married (+2)

ACADEMIC EDUCATION

- ◇ **Ph.D., The Hebrew University** **2003**
Racah Institute of Physics
- ◇ **M.Sc., The Hebrew University** **2000**
Racah Institute of Physics
- ◇ **B.Sc., The Hebrew University** **1997**
Department of Physics
Department of Mathematics

RESEARCH POSITIONS

- ◇ **Postdoctoral Research Associate, Rutgers University** **10/2003 – 10/2006**
Research position in the condensed matter theory group.
Research subject: strongly correlated systems in and out of equilibrium, such as
 - Quantum dots
 - Diffusive mesoscopic wires and effects of paramagnetic impurities
 - Electron glasses in granular metallic films and amorphous semiconductors
 - Quantum criticality in heavy fermion compounds
- ◇ **Research Assistant, The Hebrew University** **9/1997 – 9/2003**
Research assistant position for graduate students in the Racah Institute of Physics.
Research subject: non-Fermi-liquid properties and Kondo physics in quantum dots.

TEACHING POSITIONS

- ◇ **Teaching Assistant (1), Physics department,** **9/1999 – 7/2003**
The Hebrew University
 - Teaching exercise class - Equations of mathematical Physics (4 semesters)
 - Teaching Physics lab - Lab 3 (4 semesters)

- ◇ **Teaching Assistant (2), Physics department,** **9/1997 – 7/1999**
The Hebrew University
 - Exercise checking - Equations of mathematical Physics (2 semesters)
 - Teaching Physics lab - Lab 1 (2 semesters)

- ◇ **Teaching Assistant (2), Department of Mathematics,** **9/1996 – 7/1997**
The Hebrew University
 - Exercise checking - Calculus 1 (1 semester)
 - Exercise checking - Algebra 3 (1 semester)

SCIENTIFIC PUBLICATIONS

IN
PREPARATION

- **Eran Lebanon, Avraham Schiller and Frithjof Anders**
“Characterization of the non-Fermi-liquid lines in quantum dots,”
Estimated submittal - Summer/Fall 2006.

SUBMITTED
FOR
PUBLICATION

- **Eran Lebanon, and Piers Coleman**
“Fermi liquid identities for the Infinite U Anderson Model,”
arXiv: cond-mat/0610027.

PUBLISHED
PAPERS

- **Eran Lebanon, Jerome Rech, Piers Coleman, and Olivier Parcollet**
“Conserving many body approach to the infinite U Anderson model,”
Physical Review Letters **97**, 106604 (2006).

- **Frithjof B. Anders, Eran Lebanon, and Avraham Schiller**
“Conductance in coupled quantum dots: Indicator for a quantum phase transition,”
NIC Symposium 2006, NIC Volume **32**, 191 (2006).

- **Markus Müller, and Eran Lebanon,**
“History dependence, memory and metastability in electron glasses,”
J. Phys. IV France **131**, 167 (2005);

- **Eran Lebanon, and Markus Müller,**
“Memory effect in electron glasses: theoretical analysis via a percolation approach,”
 Physical Review B. **72**, 174202 (2005).
- **Eran Lebanon, and Piers Coleman,**
“Nonequilibrium noise as a probe of the Kondo effect in mesoscopic wires,”
 Physical Review Letters **95**, 046803 (2005).
- **Frithjof B. Anders, Eran Lebanon, and Avraham Schiller,**
“Coulomb blockade and quantum critical points in quantum dots,”
 Physica B. **359-361**, 1381 (2005).
- **Frithjof B. Anders, Eran Lebanon, and Avraham Schiller,**
“Coulomb blockade and non-Fermi-liquid behavior in quantum dots,”
 Physical Review B. **70**, 201306 (2004).
- **Eran Lebanon, Avraham Schiller and Frithjof B. Anders,**
“Enhancement of the two-channel Kondo effect in single-electron boxes,”
 Physical Review B. **68**, 155301 (2003).
- **Eran Lebanon, Avraham Schiller, and Frithjof B. Anders,**
“Coulomb blockade in quantum dots,”
 Physical Review B. **68**, 041311 (2003).
- **Eran Lebanon, and Avraham Schiller,**
“Measuring the out-of-equilibrium splitting of the Kondo resonance,”
 Physical Review B. **65**, 035308 (2002).
- **Eran Lebanon, Avraham Schiller, and Vilen Zevin,**
“Non-crossing approximation for the anisotropic Kondo model: charge fluctuations on a quantum box,”
 Physical Review B. **64**, 245338 (2001).

THESES AND
 REPORTS

- **Eran Lebanon**
Charging of quantum boxes and two-channel Kondo physics,
 Ph.D. Thesis,
 The Hebrew University, October 2003.

TALKS

- | | |
|---|---------------|
| · Physics department
Bar Ilan University, Israel | January, 2006 |
| · Condensed matter group
Technion, Israel | January, 2006 |
| · Condensed matter group
Ben Gurion University, Israel | January, 2006 |

Condensed matter group Weizmann Institute, Israel	January, 2006
American Physical Society March meeting, Los Angeles CA	March, 2005
Condensed matter group Weizmann Institute, Israel	January, 2005
Condensed matter group Technion, Israel	January, 2005
Physics department Bar-Ilan University, Israel.	January, 2005
Condensed matter group Tel-Aviv University, Israel.	January, 2005
Condensed matter group The Hebrew University, Israel.	January, 2005
Condensed matter group Ben Gurion University, Israel.	January, 2005
Condensed matter group Rutgers University, Piscataway, NJ.	January, 2004
Quantum impurity physics workshop Max Plank Institute, Dresden Germany.	April, 2003
Condensed matter group The Hebrew University, Israel.	March, 2003
Condensed matter group Harvard University, Boston, MS.	February, 2003
Condensed matter group Yale University, New Haven, CT.	February, 2003
Condensed matter group Rutgers University, Piscataway, NJ.	February, 2003
Condensed matter group Weizmann Institute, Israel.	February, 2003
Solid state group Augsburg University, Germany.	August, 2002
Solid state group Technical University of Darmstadt, Germany.	August, 2002
Condensed matter group Ben Gurion University, Israel.	June, 2002
Correlated electrons day Technion, Israel.	May , 2002